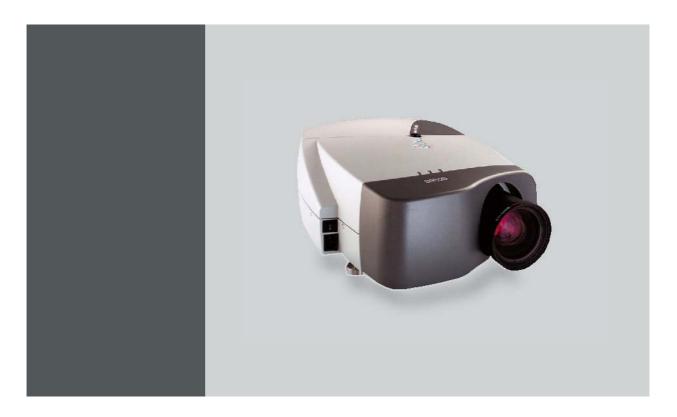
iD PRO R600/R600+



Owners Manual

R9010350 R9010351



Product revision

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TABLE OF CONTENTS

1.	Packaging	
2	Installation guidelines	
	2.1 Safety warnings	7
	2.2 Installation guidelines	7
3.	Installation	
	3.1 Connections	
	3.1.1 Power connection	
	3.2.1 Input section	
	3.2.2 Input facilities	
	3.2.3 5-Cable input	
	3.2.5 S-Video input	. 12
	3.2.6 Digital Visual Interface (DVI) input	
	3.2.8 Communications Connections.	. 14
	3.2.8.1 RS232 IN connection	
4.	Setup	. 1 <i>5</i>
	4.1 RCU & Local keypad	. 15
	4.2 Terminology overview	
	4.3 Switching on	
	4.5 Projector address	. 20
	4.6 Orientation	
	4.8 Preferences	
	4.8.1 Language	
	4.8.2 Quick access keys	
_	·	
5.	Getting started	.21
	5.2 Creating your personal PiP Layout	
	5.3 Adjusting the image	. 29
6.	Advanced	
	6.1 Using the Dialog boxes	
	6.2 Source Selection	. 32
	6.2.2 Composite Video	. 33
	6.2.3 S-Video	. 34
	6.3 General menu	
	6.3.2 Freeze	. 36
	6.3.3 Standby Timer	
	6.3.4.1 Audio Setup	
	6.3.4.2 Audio Settings	. 38
	6.3.5 Identification	
	6.4.1 Settings	
	6.4.1.1 Contrast	
	6.4.1.2 Brightness	
	6.4.1.4 Tint (hue)	
	6.4.1.5 Sharpness	
	6.4.1.6 Gamma	
	6.4.1.8 Noise reduction	. 43
	6.4.2 Aspect ratio	
	6.4.4 Keystone	
	6.4.5 Color temperature	
	6.4.6 Filmmode detection (video only)	
	6.4.8 Dynacolor™	. 52
	6.4.9 Blanking	
	6.4.10 Input balance	

			Manual Gain Control	
	6.5	Tools		
		6.5.1	Introduction to PiP	
		6.5.2	PiP select	
		6.5.3	PiP add window	
		6.5.4	PiP remove window	
		6.5.5	PiP layout	
		6.5		
		6.5	5.2 PiP rename layout	. 71
		6.5	5.3 PiP delete layout	
		6.5.6	PiP Adjust	. 73
		6.5.7	Color keying	
		6.5.8	Diagnostics	
	6.6	Signa	ıl Menu	
		6.6.1	Switching mode	
		6.6.2	Background	
	6.7	Lamp	management	
		6.7.1	Runtimes	
		6.7.2	Mode	
		6.7.3	History	
		6.7.4	Reset runtime	
		6.7.5	Runtime warning	. 80
	6.8		e files menu	
		6.8.1	Load file	
		6.8.2	Auto Image	
		6.8.3	Edit file	
		6.8.4	Rename file	
		6.8.5	Copy	. 88
		6.8.6	Delete	
	~ ^	6.8.7	Forced file load	
	6.9		ay Setup	
		6.9.1	Full screen representation Startup screen	
		6.9.2 6.9.3	Textbox	
		6.9.4	Take screenshot.	
		6.9.5	Menu bar position.	
		6.9.6	Status bar position	
		6.9.7	Sliderbox position	
				aa
		6.9.8 6.9.9	AutoImage Setup	
		6.9.9	Blanking	. 94
		6.9.9 6.9.10	Blanking	. 94 . 95
		6.9.9 6.9.10 6.9	Blanking	. 94 . 95 . 95
		6.9.9 6.9.10 6.9 6.9	Blanking	. 94 . 95 . 95 . 97
		6.9.9 6.9.10 6.9 6.9 6.9	Blanking	. 94 . 95 . 95 . 97
	6.10	6.9.9 6.9.10 6.9 6.9 6.9 6.9	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images	. 94 . 95 . 95 . 97 . 97
	6.10	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal	Blanking	. 94 . 95 . 95 . 97 . 97 100
	6.10	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1	Blanking	. 94 . 95 . 97 . 97 100 101
	6.10	6.9.9 6.9.10 6.9 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2	Blanking	. 94 . 95 . 97 . 97 100 101 101
		6.9.9 6.9.10 6.9 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password	. 94 . 95 . 97 . 97 100 101 102 104
7.	IQ	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security Change password ork 10.4 Security Change password	. 94 . 95 . 97 . 97 100 101 102 104
7.	IQ 7.1	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3	Blanking	. 94 . 95 . 97 . 97 100 101 102 104
7.	IQ 7.1 7.2	6.9.9 6.9.10 6.9 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw	Blanking	. 94 . 95 . 97 . 97 100 101 102 104 107 108
7.	7.1 7.2 7.3	6.9.9 6.9.10 6.9 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw iQ Pr	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password ork ork ork schitecture ork functionality o Server specifications	. 94 . 95 . 95 . 97 100 101 102 104 107 108 109
7.	IQ 7.1 7.2	6.9.9 6.9.10 6.9 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw iQ Pr Gettii	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password ork ork ork ork server specifications ng started	. 94 . 95 . 95 . 97 100 101 102 104 107 108 109 109
7.	7.1 7.2 7.3	6.9.9 6.9.10 6.9 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw iQ Pr Gettii 7.4.1	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password Ork ork architecture ork architecture ork functionality o Server specifications ng started Connections	. 94 . 95 . 95 . 97 100 101 101 102 104 107 108 109 110
7.	7.1 7.2 7.3	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password Ork ork architecture ork functionality o Server specifications ong started Connections Installing the software	. 94 . 95 . 95 . 97 . 97 100 101 102 104 107 108 1109 110 111
7.	7.1 7.2 7.3	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password Ork Ork Ork architecture ork functionality o Server specifications og started Connections Installing the software Start up of the BarcoReality SIM 5plus Server	. 94 . 95 . 95 . 97 100 101 102 104 107 108 109 110 111 111
7.	7.1 7.2 7.3	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password. Ork Ork Ork Ork Ork oserver specifications og started Connections Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the client software	. 94 . 95 . 95 . 97 100 101 102 104 107 108 109 110 111 111 111
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security. Change password. Ork Ork Ork 1 Ork architecture Ork functionality O Server specifications 19 started Connections Installing the software Start up of the BarcoReality SIM 5plus Server Configuring the client software Configuring the Server software	. 94 . 95 . 95 . 97 100 101 102 104 107 108 109 110 111 111 113 116
7.	7.1 7.2 7.3	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 Contri	Blanking Soft Edge. 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security. Change password. Ork Ork Ork Ork Ork Server specifications ng started Connections Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the client software Configuring the Server software.	. 94 . 95 . 95 . 97 100 101 102 104 107 108 109 110 111 111 113 116 121
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.5 Contr	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge) 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security. Change password ork ork architecture ork functionality o Server specifications ng started Connections Installing the software Start up of the BarcoReality SIM 5plus Server Configuring the client software Configuring the Server software ol Configuring the Server software Configuring the Server software Ol Description	. 94 . 95 . 97 . 97 100 101 101 102 107 108 109 110 111 111 113 116 121
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.2 6.10.3 Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.2 7.4.4 7.4.5 Contr 7.5.1	Blanking. Soft Edge 10.1 Introduction. 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment. 10.4 Black level of the images. lation. Lens adjustments. Security. Change password. Ork ork architecture ork functionality o Server specifications ng started. Connections. Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the client software Configuring the Server software old. Description. How to use the control manager?	. 94 . 95 . 97 . 97 100 101 101 102 107 107 108 109 110 111 113 116 121 121
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 Contr 7.5.1 7.5.2 7.5.3	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password. Ork ork ork architecture ork functionality o Server specifications ng started Connections Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the client software Configuring the Server software ol Description How to use the control manager? General	. 94 . 95 . 97 . 97 100 101 102 104 107 110 110 111 111 113 116 1121 121 122
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.2 6.10.3 Netw Netw Netw 1Q Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 Contr 7.5.1 7.5.2 7.5.3	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password. Ork ork architecture ork functionality o Server specifications ng started Connections Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the client software Configuring the Server software old Description How to use the control manager? General The source selection screen	. 94 . 95 . 97 . 97 100 101 102 104 107 110 110 111 111 113 116 121 122 123
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettil 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 Contr 7.5.1 7.5.2 7.5.3 7.5.4 7.5.5	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security. Change password Ork Ork Ork Server specifications ng started Connections Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the client software Ol Description How to use the control manager? General The source selection screen The PiP screen	. 94 . 95 . 97 . 97 100 101 102 104 107 108 109 110 111 111 113 116 121 121 122 123
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pri 7.4.1 7.4.2 7.4.3 7.4.4 7.5.1 7.5.2 7.5.3 7.5.6	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images lation Lens adjustments Security Change password. Ork Ork Ork Ork Ork service specifications Installing the software Start up of the BarcoReality SIM 5plus Server Configuring the client software Olessory Description How to use the control manager? General The source selection screen The PiP screen Image settings	. 94 . 95 . 97 . 97 100 101 102 104 107 108 109 110 111 111 113 116 121 121 122 123 123
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Ptr 7.4.1 7.4.2 7.4.3 7.4.4 7.5.1 7.5.1 7.5.2 7.5.5 7.5.6 7.5.7	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security Change password. Ork Ork Ork Ork Ork Connections Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the client software Ocnfiguring the Server software Ol Description How to use the control manager? General The source selection screen The PiP screen Image settings Advanced control	. 94 . 95 . 97 . 97 100 101 102 104 107 108 109 110 111 111 113 116 121 122 123 123 123
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 Contr 7.5.1 7.5.2 7.5.3 7.5.4 7.5.5 7.5.6 7.5.7	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security Change password. Ork Ork Ork Ork Off Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security Change password. Ork Ork Ork Off Change password. Oserver specifications. Installing the software Start de Connections Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the Client software Configuring the Server software. Ol Description How to use the control manager? General The source selection screen. The PiP screen Image settings Advanced control 7.1 Lens adjustments.	. 94 . 95 . 95 . 97 100 101 102 104 107 108 109 110 111 111 113 116 121 122 123 123 123 124 128
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 Contr 7.5.1 7.5.2 7.5.3 7.5.5 7.5.6 7.5.7 7.5.7 7.5.7	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security Change password. Ork Ork Ork Ork Ork Ork Ork Ork Orgenications Installing the software Start up of the BarcoReality SIM 5plus Server Configuring the client software Configuring the Client software Configuring the Server software Ol Description How to use the control manager? General The source selection screen. The PiP screen Image settings Advanced control 7.1 Lens adjustments. 7.2 Options	. 94 . 95 . 95 . 97 100 101 102 104 107 108 109 110 111 111 113 116 121 122 123 123 124 128 129 129
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 Contr 7.5.1 7.5.2 7.5.3 7.5.5 7.5.6 7.5.7 7.5.7 7.5.7	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security. Change password Ork ork ork architecture ork functionality o server specifications Installing the software Start up of the BarcoReality SIM Splus Server. Configuring the client software Configuring the Server software ol Description How to use the control manager? General The source selection screen The PiP screen Image settings Advanced control 7.1 Lens adjustments 7.2 Options Igement & diagnostics	. 94 . 95 . 95 . 97 100 101 102 104 107 108 109 110 111 111 112 122 123 123 123 123 124 129 131
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 6.9 0 Instal 6.10.1 6.10.2 6.10.3 Netw Netw Netw iQ Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 Contr 7.5.1 7.5.2 7.5.3 7.5.5 7.5.6 7.5.7 7.5.6 Mana	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security Change password. Ork Ork Ork Ork Ork Ork Ork Ork Orgenications Installing the software Start up of the BarcoReality SIM 5plus Server Configuring the client software Configuring the Client software Configuring the Server software Ol Description How to use the control manager? General The source selection screen. The PiP screen Image settings Advanced control 7.1 Lens adjustments. 7.2 Options	. 94 . 95 . 95 . 97 . 97 . 97 100 101 102 104 109 110 111 113 116 121 122 123 123 126 128 129 131 131
7.	7.1 7.2 7.3 7.4	6.9.9 6.9.10 6.9 6.9 6.9 6.9 0 Instal 6.10.2 6.10.3 Netw Netw Netw 12 Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 7.5.5 7.5.6 7.5.7 7.5.7 Mana 7.6.1 7.6.2	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security. Change password. Ork Ork Ork Ork Ork Ork Os Server specifications. 10 started Connections Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the Client software Configuring the Server software Ol Description How to use the control manager? General The source selection screen The PIP screen Image settings Advanced control 7.1 Lens adjustments. 7.2 Options gement & diagnostics Description Description John Start	. 94 . 95 . 95 . 97 . 97 . 97 101 101 102 104 107 107 110 111 113 116 121 122 123 123 126 129 131 131
7.	7.1 7.2 7.3 7.4 7.5	6.9.9 6.9.10 6.9 6.9 6.9 6.9 0 Instal 6.10.2 6.10.3 Netw Netw Netw 12 Pr Gettii 7.4.1 7.4.2 7.4.3 7.4.4 7.4.5 7.5.5 7.5.6 7.5.7 7.5.7 Mana 7.6.1 7.6.2	Blanking Soft Edge 10.1 Introduction 10.2 Soft Edge overlap zone (horizontal Soft Edge). 10.3 Soft Edge border adjustment 10.4 Black level of the images. lation Lens adjustments Security. Change password Ork Ork Ork Ork Ork Ork Os server specifications g started Connections Installing the software Start up of the BarcoReality SIM 5plus Server. Configuring the client software Configuring the Server software Ol. Description How to use the control manager? General. The source selection screen The PiP screen Image settings Advanced control 7.1 Lens adjustments 7.2 Options Iggement & diagnostics Description Ingement & diagnostics Description	. 94 . 95 . 95 . 97 . 97 101 101 102 104 109 110 111 113 116 121 122 123 123 126 129 131 131 131

7.7.3 Projector Firmware Upgrade	133
7.8 DropZone	
7.8.1 Dropzone tools	
7.8.2 Start up	
7.8.3 File dropping/launching	
7.8.4 Open remotely a file on the projector	139
7.8.5 Remote desktop sharing (virtual meeting)	139
7.8.6 DropZone settings	
7.9 The Web client	143
O Company and deligence on Network Confirmation	445
8. General guidelines on Network Configuration	
8.1 General Network	
8.2 The Internet and Web services	145
9. Exchange	147
9.1 Exchange Installation	
9.1.1 Installation procedure	
9.1.2 Troubleshooting	
9.2 Exchange Integration	
9.2.1 Command	
9.2.2 Example	
9.2.3 Microsoft Outlook Integration	
9.2.4 Folder form	
9.2.5 Limitations and known "problems"	
10. SNMP services	455
10.1 SNMP installation	
10.2 SNMF Integration	155
11. Standard Image Files	157
11.1 Table overview	
12. Troubleshoot	163
12.1 Using the OSD	163
12.2 FAQ table	164
13. Maintenance	167
13.1 Cleaning the lens	
13.2 Cleaning the dustfilters	
13.2.1 Dustfilters.	
13.2.2 Cleaning	
Ç	
Index	171

1. PACKAGING

1.1 Unpacking



CEE7

European power plug to connect the power cord to the wall outlet.



ANSI 73.11

American power plug to connect the power cord to the wall outlet.

Content

- 1 projector (weight ± 14 kg or 31 lbs)
- 1 remote control unit RCU + 2 batteries.
- 2 power cables with outlet plug type CEE7 and ANSI 73.11.
- 1 owners manual
- 1 safety manual
- 1 CDROM (containing manuals)

Form

The projector is packed in a carton box. To provide protection during transportation, the projector is surrounded with foam. The package is secured with banding and fastening clips.

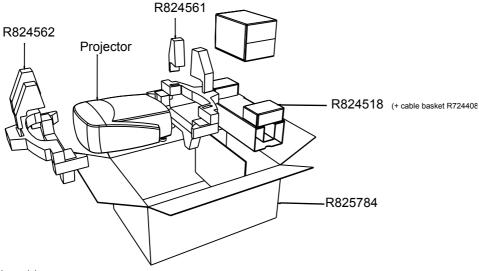


Image 1-1

Lens packaging

The Lens is supplied as an individual item.

The lens is packed in a carton box.



Save the original shipping carton and packing material, they will be necessary if you ever have to transport the lens.



CAUTION: Never transport the projector with the lens mounted on it! Always remove the lens before transporting the projector.

How to unpack the projector

- 1. Release the cord straps. (image 1-2)
- 2. Remove the assembly from the pallet
- 3. Remove the cardboard cover
- 4. Remove the large cardboard
- 5. Remove the 8 foam parts
- 6. Loosen and remove the 3 screws spacers fixing the projector to the wooden board
- 7. Remove the projector from the board

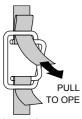


Image 1-2



Save the original shipping carton and packing material, they will be necessary if you ever have to ship your projector. For maximum protection, repack your projector as it was originally packed at the factory.

2. INSTALLATION GUIDELINES

2.1 Safety warnings



WARNING: Before installing the projector, read first the safety instructions in the safety manual (R5975258) delivered with the projector.

Insure that the projector is installed in an easy to evacuate room in case of a lamp explosion.

Mercury Vapor Warnings

Keep the following warnings in mind when using the projector. The lamp used in the projector contains mercury. In case of a lamp rupture, explosion there will be a mercury vapor emission. In order to minimize the potential risk of inhaling mercury vapors:

- Ensure the projector is installed only in ventilated rooms.
- Replace the lamp module before the end of its operational life.
- Promptly ventilate the room after a lamp rupture, explosion has occurred, evacuate the room (particularly in case of a pregnant woman).
- Seek medical attention if unusual health conditions occur after a lamp rupture, explosion, such as headache, fatigue, shortness of breath, chest-tightening coughing or nausea.

2.2 Installation guidelines

Ambient temperature check

Careful consideration of things such as image size, ambient light level, projector placement and type of screen to use are critical to the optimum use of the projection system.

Max. ambient temperature : 40 °C or 104 °F Min. ambient temperature : 0 °C or 32 °F

The projector will not operate if ambient air temperature falls outside this range (0°C- 40°C or 32°F-104°F).

Environment

Do not install the projection system in a site near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity. Be aware that room heat rises to the ceiling; check that temperature near the installation site is not excessive



CAUTION: Harmful Environmental Contamination Precaution

Environment condition check

A projector must always be mounted in a manner which ensures the free flow of clean air into the projectors ventilation inlets as well as free flow at the ventilation outlets. The installation must also allow easy access to the consumable parts (dustfilters, lamps, ...) For installations in environments where the projector is subject to airborne contaminants such as that produced by smoke machines or similar (these deposit a thin layer of greasy residue upon the projectors internal optics and imaging electronic surfaces, degrading performance), then it is highly advisable and desirable to have this contamination removed prior to it reaching the projectors clean air supply. Devices or structures to extract or shield contaminated air well away from the projector are a prerequisite, if this is not a feasible solution then measures to relocate the projector to a clean air environment should be considered. Make sure that the projector never runs with dirty dustfilters as this will dramatically reduce the lifetime of the consumables. It is advised to clean the dustfilters on a regular basis and to replace them at any lamp change. Barco reserves itself the right to refuse warranty replacement of consumables if they have been used in a projector with dirty airfilters. Only use the manufactures recommended cleaning kit which has been specifically designed for cleaning optical parts, never use industrial strength cleaners on a projectors optics as these will degrade optical coatings and damage sensitive optoelectronics.

Failure to take suitable precautions to protect the projector from the effects of persistent and prolonged air contaminants will culminate in extensive and irreversible ingrained optical damage. At this stage cleaning of the internal optical units will be non-effective and impracticable. Damage of this nature is under no circumstances covered under the manufactures warranty and may deem the warranty null and void. In such a case the client shall be held solely responsible for all costs incurred during any repair. It is the clients responsibility to ensure at all times that the projector is protected from the harmful effects of hostile airborne particles in the environment of the projector. The manufacture reserves the right to refuse warranty repair if a projector has been subject to wantful neglect, abandon or improper use.

What about ambient light?

The ambient light level of any room is made up of direct or indirect sunlight and the light fixtures in the room. The amount of ambient light will determine how bright the image will appear. So, avoid direct light on the screen. Windows that face the screen should be covered by opaque drapery while the set is being viewed. It is desirable to install the projection system in a room whose walls and floor are of non-reflecting material. The use of recessed ceiling lights and a method of dimming those lights to an acceptable level is also important. Too much ambient light will 'wash out' of the projected image. This appears as less contrast between the darkest and lightest parts of the image. With bigger screens, the 'wash out' becomes more important. As a general rule, darken the room to the point where there is just sufficient light to read or write comfortably. Spot lighting is desirable for illuminating small areas so that interference with the screen is minimal.

Which screen type?

There are two major categories of screens used for projection equipment. Those used for front projected images and those for rear projection applications. Screens are rated by how much light they reflect (or transmit in the case of rear projection systems) given a determined amount of light projected toward them. The 'GAIN' of a screen is the term used. Front and rear screens are both rated in terms of gain. The gain of screens range from a white matte screen with a gain of 1 (x1) to a brushed aluminized screen with a gain of 10 (x10) or more. The choice between higher and lower gain screens is largely a matter of personal preference and another consideration called the Viewing angle. In considering the type of screen to choose, determine where the viewers will be located and go for the highest gain screen possible. A high gain screen will provide a brighter picture but reduce the viewing angle. For more information about screens, contact your local screen supplier.

Image size

The projector is designed for projecting an image size with a screenwidth from 1.00m (3.3ft) to 6.00m (19.7ft) with an aspect ratio of 4 to 3.

3. INSTALLATION

Overview

- Connections
- · Input source connections

3.1 Connections

3.1.1 Power connection

AC power (mains) cord connection

Use the supplied power cord to connect your projector to the wall outlet.

Plug the female power connector into the male connector at the front of the projector.



The power input is auto-ranging from 90 to 240 VAC.

Fuses

For continued protection against fire hazard:

- · refer replacement to qualified service personnel
- · ask to replace with the same type of fuse.

3.2 Input source connections

3.2.1 Input section

Input Layers

The input section is divided in layers, each of them regrouping several inputs, this architecture allows the input section to be upgraded at any time with an optional analog or digital layer.

- 1. Layer 1: analog layer containing analog data and video inputs
- 2. Layer 2: a hybrid layer containing 2 digital and 1 analog input
- 3. Layer 3: is an optional layer, it may be an Audio & Video analog layer or a SDI digital layer.



The optional layer is not available for the Pro version

3.2.2 Input facilities

overview

- 5–cable input
- · composite video
- component video (PR/Y/PB)
- S-Video
- Digital Visual Input (DVI)
- · Computer input

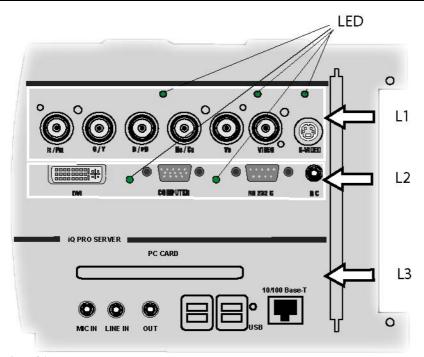


Image 3-1



A cable cover is supplied with the projector and can be fitted on the front of the projector

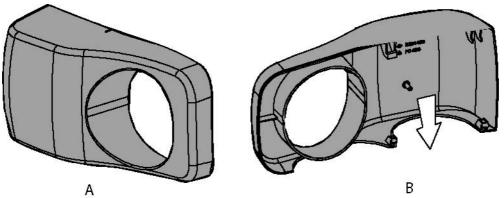


Image 3-2 Cable basket : the white arrow shows the cables leaving the projector

- Front view
- Back view

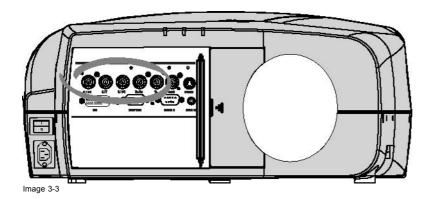
3.2.3 5-Cable input

Input specifications

The 5-cable input section is made of 5 BNC input terminals.

0.7 Vpp ± 3dB

75 Ω terminated



Component Video

In Component Video the term component describes a number of elements that are needed to make up the video picture, these components are PR/Y/PB. A composite video signal on the other hand contains all the information needed for the color picture in a single channel of information

Which signals can be connected?

Signals/Input BNC	R	G	В	Н	V
RGBHV	R	G	В	Н	V
RG₅B¹	R	Gs	В	-	-
RGBS ¹	R	G	В	S	-
Component	PR	Y	РВ	-	-

How to select a source on the 5 cable input?

Press 1 on the RCU
 Note: Another way for selecting this input is via Source on the local keypad or via the Menu

3.2.4 **Composite Video Input**

Input specifications

The Composite video input section is made of 1BNC input terminal.

 $1.0 \text{ Vpp} \pm 3dB$

75 Ω terminated

No loop through

1. data or video

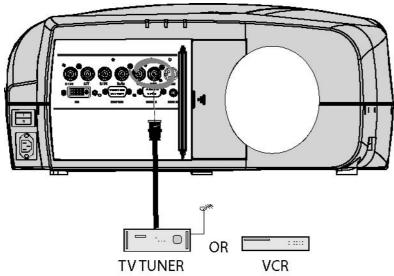


Image 3-4

How to select a Composite Video Input?

1. Press 3 on the RCU

Note: Another way for selecting this input is via **Source** on the local keypad or via the Menu.

3.2.5 S-Video input

Input specification

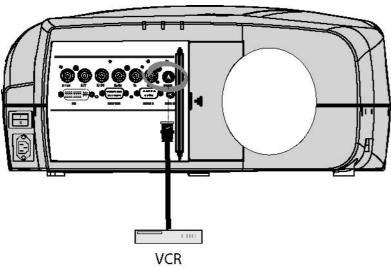


Image 3-5

Which signal can be connected?

Standard S-Video (S-VHS) with separate Y(luma) and C (chroma) signals.

How to select the S-Video input?

Press 4 on the RCU
 Note: Another way for selecting this input is via Source on the local keypad or via the Menu.

3.2.6 Digital Visual Interface (DVI) input



DVI

Digital Visual Interface is a display interface developed in response to the proliferation of digital flat panel displays.

The digital video connectivity standard that was developed by DDWG (Digital Display Work Group). This connection standard offers two different connectors: one with 24 pins that handles digital video signals only, and one with 29 pins that handles both digital and analog video. This standard uses TMDS (Transition Minimized Differential Signal) from Silicon Image and DDC (Display Data Channel) from VESA (Video Electronics Standards Association).

DVI can be single or dual link.

Input specifications

Single link DVI

Differential input voltage: 200 mV - 800mV

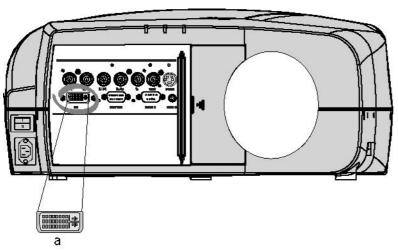


Image 3-6

a DVI-I type connector, analog link (4 pins at the right side of the connector) not supported

How to select the DVI Input?

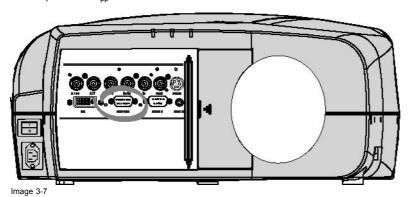
1. Press 5 on the RCU

Note: Another way for selecting this input is via the Menu.

3.2.7 Computer input

Input specification

TTL sync input : U $_{min}$ = 2.0 V RGB input = 0.7 V $_{pp}$ ± 3dB



What can be connected ?

- RGBHV
- RG_SB



Composite sync only possible on Green

How to select a computer input?

1. Press 2 on the RCU

Note: Another way for selecting this input is via the Menu.

3.2.8 Communications Connections

Overview

RS232 IN connection

3.2.8.1 RS232 IN connection

What can be connected to the RS232 IN connection?

The RS 232 IN connections allows the projector to communicate with a Computer e.g. IBM PC or Apple Macintosh.

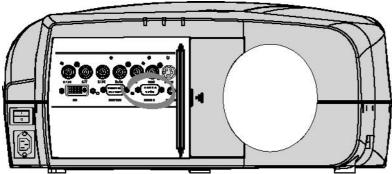


Image 3-8

Applications of the RS232 connection

Remote control:

- easy adjustment of projector via IBM PC (or compatible) or MAC connection.
- address range from 1 to 255
- allow storage of multiple projector configurations and set ups.
- · wide range of control possibilities

Data communication: sending data to the projector or copying the data from the projector to the computer



To set up the baudrate of the projector, see the Installation menu

4. SETUP

Overview

- RCU & Local keypad
- · Terminology overview
- · Switching on
- · Setting up the RCU address
- · Projector address
- Orientation
- Adjusting the lens
- Preferences

4.1 RCU & Local keypad

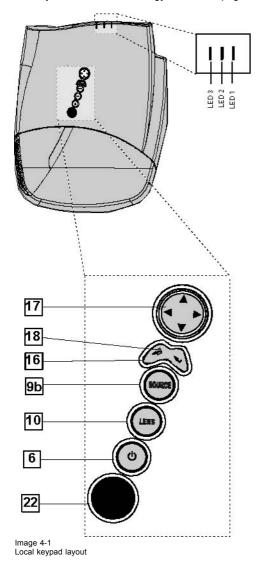
How controlling the projector?

The projector can be controlled by the local keypad or by the remote control unit.

Location of the local keypad?

The local keypad is located on the topside of the projector.

For key overview: "Terminology overview", page 16



R5976874 ID PRO R600/R600+ 21/09/2006

Remote control functions.

This remote control includes a battery powered infrared (IR) transmitter that allows the user to control the projector remotely. This remote control is used for source selection, control, adaptation and set up. It includes automatic storing of picture controls (Brightness, Sharpness...) and settings.

Other functions of the remote control are:

- switching between stand by and operational mode.
- · switching to "pause" (blanked picture, full power for immediate restarting)
- · direct access to all connected sources.

Diagnose LED's

Green		Red	
LED1	cool down sequence: flickers 60 seconds (120 seconds in case of iQ 400 series) after switching to standby	rescue program (software error)	
LED2 only for the versions containing a server: shows when projector is in standby and server is active.		hardware error	
LED3 IR acknowledgement		continue : standby flickers : Security = ON	

4.2 Terminology overview

Overview

The following table gives an overview of the keys.

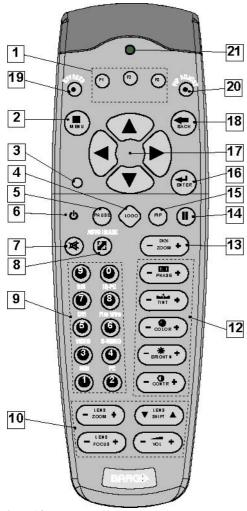


Image 4-2

	T	
1	Function keys	user programmable keys with functions for direct access.
2	MENU	Menu key, to enter or exit the Toolbar menu.
3	Address key	(recessed key), to enter the address of the projector (between 0 and 9). Press the recessed address key with a pencil, followed by pressing one digit button between 0 and 9.
4	LOGO key	allows to recall the stored Logo (not in PiP mode)
5	PAUSE	to stop projection for a short time, press 'PAUSE'. The image disappears but full power is retained for immediate restarting.
6	STBY	standby button, to start projector when the power switch is switched on and to switch off the projector without switching off the power switch.
		Attention: Switching to Standby. When the projector is running and you want to go to standby, press the standby key for 2 seconds.
7	MUTE	to interrupt the sound reproduction (audio = optional.
8	AUTOIMAGE	Auto image, to center the image on the active LCD surface.
9	Digit buttons	direct input selection.
9b	SOURCE button	this button allows to switch through the active (scanned) inputs
10	Lens control	use these buttons to obtain the desired ZOOM, SHIFT, FOCUS.
11	VOL	use this button to obtain the desired sound level (audio = optional)
12	Picture controls	use these buttons to obtain the desired picture analog level.

13	DIGI ZOOM	allows a digital Zoom of a part of the image	
14	FREEZ	press to freeze the projected image.	
15	PIP	allows to activate the PICTURE IN PICTURE mode	
16	ENTER	to confirm an adjustment or selection in the MENU. On the local keypad the ENTER button additionally accesses the PIP window resize function	
17	Cursor keys	Cursor Keys on RCU or on the local keypad : to make menu selections or to access the toolbar.	
18	BACK	to leave the selected menu or item (go upwards to previous menu).	
19	EFFECTS	not yet implemented	
20	PIP ADJUST	allows to select a PiP window and change its configuration on screen	
21	RC operating indication	lights up when a button on the remote control is pressed. (This is a visual indicator to check the operation of the remote control)	
22	IR receiver	IR receiver	

Table 4-2



ordernumber RCU: R763794K

4.3 Switching on

How to switch on.

- 1. Press the power switch to switch on the projector.
 - When '0' is pushed in, the projector is switched off.
 - When '1' is pushed in, the projector is switched on

The projector starts in standby mode, LED3 is red.

Starting image projection.

1. Press **Standby** key once on the local keypad or on the remote control. (image 4-3)

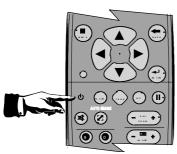


Image 4-3



It may take about 60 seconds before image projection, i.e. no projection until the completion of several operations (software initialization,...).



If the Security mode is enabled, a textbox will be displayed for PIN code entry, see Security setting in the Installation menu

4.4 Setting up the RCU address

What has to be done?

To allow the communication between the RCU and the projector the RCU has to be programmed with the same address as the projector.

This address must be in the range 0-9.

To know the address of the projector, one can visualize it in projection mode (on screen) as well as in standby mode (shown with the LED's on top cover of the projector).



For more info on addresses see the appendix



At this stage the image projected may happen to be upside down or mirrored, this can be set in the *Installation* menu under *Projector orientation* (see further setting up the projector's orientation).

Displaying the Projector Address in Standby mode

1. Press the Address key (recessed key on the RCU) with a pencil. (image 4-4)

All the LED's (3) on the top cover of the projector go out.

Then LED1 starts blinking green the number of hundreds. After that LED2 starts blinking the number of tens. Finally LED3 starts blinking green the number of units. If this is done, the original status of the LED's is restored.

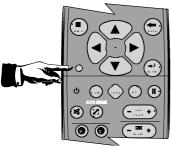


Image 4-4

Displaying the Projector Address in projection mode)

1. Press the Address key (recessed key on the RCU) with a pencil.

The projector's address will be displayed on the screen in a Textbox

Programming the RCU

- 1. Push the address key If the address is not entered within 5 seconds, the RCU returns to its default address (zero address) and controls then all projectors in the room.
- 2. Enter the same address with the digit buttons within 5 seconds after pushing the address key.

The projector can now be controlled with the RCU.



For example : if the projector address is 3, then press "3" on the RCU to set the RCU's address to match the projector's address.



Common address/Projector address: Beside the projector address, the projector disposes also of a Common address which can be set to "0" or "1" (by default "0").

In other words, an RCU set to address "0" will always control a projector regardless of its projector address (since it uses the common address).

4.5 Projector address

What can be done?

The projector is shipped with projector address set to "0"

In some cases the projector address must be changed, for example if an unique RCU is used to control 2 or more projectors (independently).

In the OSD menu Projector Address, the following addresses can be programmed :

- Projector address: address defined by the user, may be from 0 to 255
 0-9 is used for RCU communication, 0–255 being used for RS232 serial communication.
- · Common address: address may be 0 or 1

How to change the projector's RC5 address?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select the Installation
- 3. Press 1 to Pull down the Installation menu
- 4. Use ↑ or ↓ to select *Projector address* (image 4-5)
- 5. Press ENTER

A dialog box appears on the screen. (image 4-6, image 4-7)

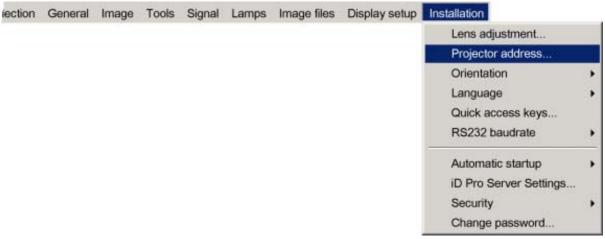


Image 4-5





Ima

Entering the new projector address?

1. Enter the new projector address with the digit keys on the RCU, the local keypad or the cursor keys.



This address must be between 0 and 255.

How to change the common RC5 address?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Installation*
- 3. Press \downarrow to Pull down the *Installation* menu
- 4. Use ↑ or ↓ to select Projector address

5. Press ENTER

A dialog box appears on the screen.

Entering the new common address?

1. Enter the new projector address with the digit keys on the RCU, the local keypad or the cursor keys.



This address must be between 0 or 1.

4.6 Orientation

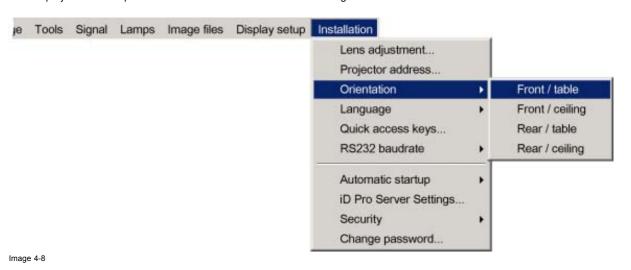
Projector orientations

Depending on how the projector is oriented, the projector's internal settings have to be adapted.

How to change the orientation?

- 1. Press MENU to activate the Toolbar
- 2. Press → to select the Installation item
- 3. Press ↓ to Pull down the Installation menu
- 4. Use ↑ or ↓ to select Orientation
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select the desired orientation (image 4-8)
- 7. Press ENTER

The projection is adapted and a black bullet shows the active configuration.



4.7 Adjusting the lens

What must be done?

Depending on the projection distance and the lens used, the image may not be at the desired size, position and/or may be out of focus

The projector will always allow you to shift your image vertically as well as horizontally (when available) to position it on the screen. In addition, motorized lenses will also allow you to Zoom and focus the image.

All these lens parameters can be adjusted using the RCU, the local keypad or in the Installation menu of the projector's OSD.

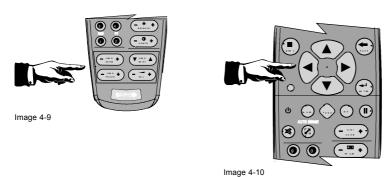
- Zoom (only for motorized lenses)
- · Focus (only for motorized lenses)
- Vertical Shift



The lens can also be adjusted via the dedicated keys on the remote.

How to Zoom/focus or shift via the RCU (or keypad)

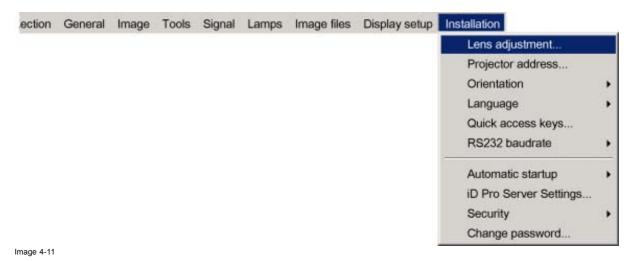
- Press LENS ZOOM or LENS FOCUS or LENS SHIFT on the RCU (image 4-9)
- 2. Use the arrow keys to adjust (image 4-10)

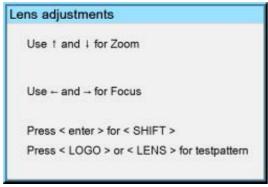


How to Zoom/focus or shift in the OSD?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select the Installation
- 3. Press ↓ to Pull down the *Installation* menu
- 4. Use \uparrow or \downarrow to select Lens adjustments... (image 4-11)
- 5. Press ENTER

A textbox appears on the screen, follow the instructions. (image 4-12, image 4-13)





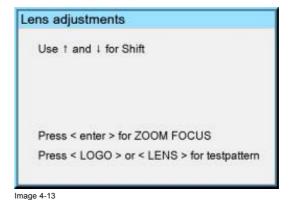


Image 4-12



The use of a sheet of paper held in front of the screen can be useful to determine the focus plane (position for best focus)



Vertical shift range: -120% to 120%

4.8 Preferences

4.8.1 Language

List of languages

The list of selectable languages is depending on the software of the projector.

How to change the Language?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Installation* item
- 3. Press ↓ to Pull down the *Installation* menu
- 4. Use \uparrow or \downarrow to select Language
- 5. Press \rightarrow to pull down the menu
- 6. Use \downarrow or \uparrow to select the desired language (image 4-14)
- 7. Press ENTER

The language is adapted and a black bullet shows the active configuration.

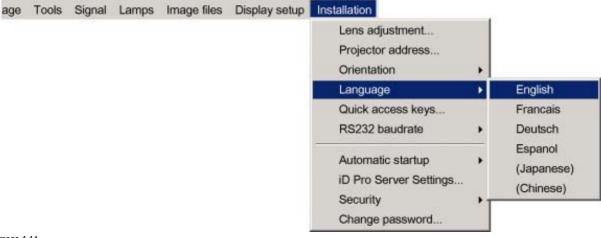


Image 4-14

4.8.2 Quick access keys

What can be done?

The 3 function keys on top of the RCU can be associated with a particular item in one of the menus.

Each function which is not password protected or does not have a key on the RCU can be associated to a function key.

How to get an overview of the quick access keys?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Installation*
- 3. Press ↓ to Pull down the *Installation* menu
- 4. Use ↑ or ↓ to select Quick access keys (image 4-15)
- 5. Press ENTER

A text box appears on the screen.

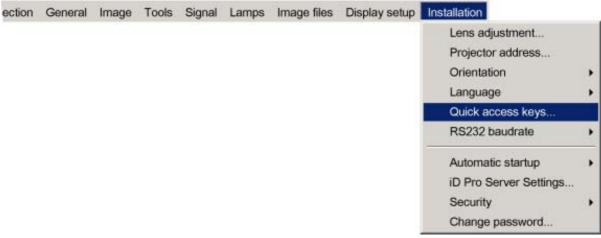


Image 4-15

How to program the quick access keys?

- 1. Scroll through the menus to the desired menu item
- 2. Push the desired function key for 3 seconds (image 4-16)

The menu item is stored in the quick access key



Image 4-16



Factory pre-programmed functions

-F1 : color depth -F2 : noise reduction -F3 : orientation

4.8.3 Automatic startup

What can be done?

The automatic startup allows to bypass the standby state i.e. start up without going in standby state after switching on the projector.

This means that the automatic startup allows immediate restart of the projector after a power failure (breakdown), i.e. without passing through the standby state, by recovering the previous settings (previous source,...).

This function can be disabled if undesired or inadequate for safety reasons, etc.

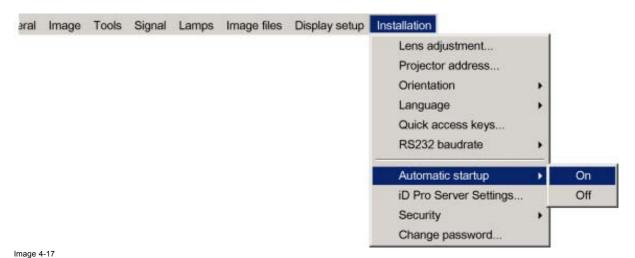


CAUTION: If the Automatic startup function is enabled one must be aware of the fact that it involves safety precautions

Make sure that the projector (or the operators!) will not be affected by altered environmental conditions when restarting at power resume.

How to enable/disable the Automatic startup?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Installation* item
- 3. Press ↓ to Pull down the *Installation* menu
- 4. Use ↑ or ↓ to select Automatic startup
- 5. Press \rightarrow to pull down the menu
- 6. Use \downarrow or \uparrow to enable/disable the automatic startup (image 4-17)
- 7. Press ENTER

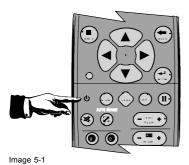


5. GETTING STARTED

5.1 Start up

How to start up the projector?

Press the Standby button on the RCU or the local keypad (image 5-1)
 The last selected source is displayed



5.2 Creating your personal PiP Layout



As an example: the layout to be created must contain:

- one video source : composite video

- one data source : RGBHV

How to create a new layout based on an existing layout?

- 1. Select an existing custom layout (non factory) from the PiP select menu (image 5-2)
- 2. Add the video window from the *PiP add window* menu by selecting the desired composite video source (image 5-3, image 5-4) **Note:** You can only use one (2 in case of an optional video input) video source i.e. if the layout already contains a video source, it will be impossible to add another (different) video input.
- 3. Follow the instruction wizard (size, position, order)
- 4. Repeat the previous steps to add the RGB source
- Save the PiP layout in the PiP layout/Save as menu by typing a new name See image 5-5.

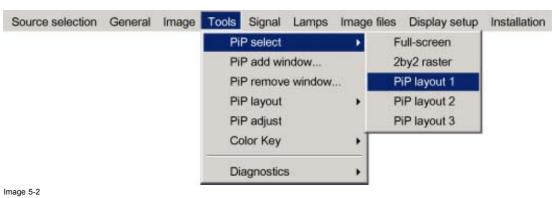




Image 5-3

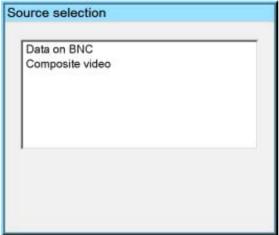


Image 5-4



Image 5-5 Video/Data PiP layout

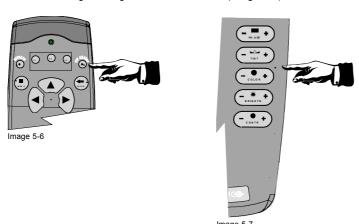


The added source(s) should be displayed with the right settings thanks to AutoImage. If it's not the case (in case of some non standard source specifications) see *Image files* in the Advanced chapter.

5.3 Adjusting the image

How to adjust the image

- 1. Use the PiP adjust button on the RCU to select the desired window (image 5-6)
- 2. Use the Image setting buttons on the RCU (image 5-7)



6. ADVANCED

6.1 Using the Dialog boxes

How to use the dialog boxes?

Some parameters are modified by means of a dialog box, where selections can be made and/or values can be entered.

The values can be entered in several ways:

Entering numeric values using the numeric keys on the remote control

- 1. Press ENTER to activate the input field. (image 6-1)
- 2. Key in the desired value.



Image 6-1

Entering numeric values using the arrow keys on the remote control

- 1. Press ENTER to activate the input field.
- 2. Press \leftarrow or \rightarrow to select the digit to be changed. (image 6-2)
- 3. Press \downarrow or \uparrow to increase or decrease the value.



Image 6-2

Entering numeric values using the arrow keys on the local keypad

- 1. Press ENTER to activate the input field.
- 2. Press \leftarrow or \rightarrow to select the digit to be changed.
- 3. Press \downarrow or \uparrow to increase or decrease the value.



To confirm the changes always press ENTER.

Use \downarrow or \uparrow to browse between the different fields.



In some cases an alphanumeric value (file name, ...) has to be entered. Use \uparrow or \downarrow to scroll through the character values once the input field is activated.

Following characters can be browsed in this particular order:

Decimal scroll list: 0123456789

Signed decimal scroll list: 0123456789-

ASCII scrolllist:ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789+-*/&@#.;.abcdefghijklmnopqrstuvwxyz

6.2 Source Selection

Overview

- Source selection
- · Composite Video
- S-Video

6.2.1 Source selection

Selecting a source

The Source selection menu allows to select one of the different sources. Another method to select an input source is via the remote control using the numeric keys or by using the local keypad.



When selecting a source with a different resolution (and/or aspect ratio) than the projector's resolution (and/or aspect ratio), the source can be shown in its native resolution or can be re-scaled to the projector's resolution, the latter case brings of course some loss of quality.

For more info on resolution match see the Show native resolution function in the Image menu.

How to select a source?

- 1. Press MENU to activate the Tool bar
- 2. Press ↓ to Pull down the Source Selection menu (image 6-3, image 6-4)
- 3. Use \uparrow or \downarrow to select one of the different sources (Press \rightarrow to Pull down if the item has a submenu)
- 4. Press ENTER to confirm your choice

On the screen appears now the selected source.

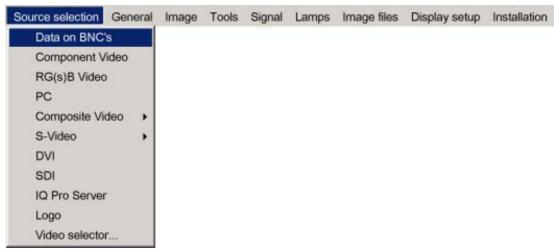
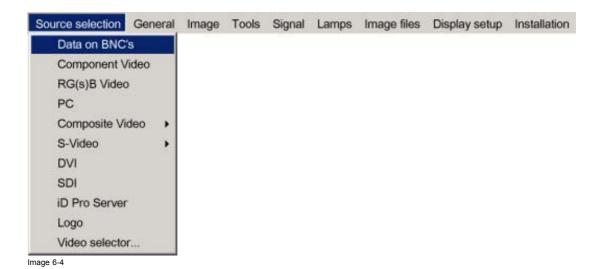


Image 6-3





The Barco logo on the menu indicates the presence of a signal, the digit indicates the shortcut key on the RCU.

The 3 first sources (Data on BNC's, Component Video & RG(s)B) refer to the 5-cable input, the position of the indication "1" will always show which BNC configuration is selected.

When to select "Data on BNC's"

Select Data on BNC's when a data signal is connected to the BNC's

When to select "Component video"?

Select Component video when a video signal of the type (R-Y/Y/B-Y) is connected on the BNC's.

When to select RG_sB Video ?

Select RG_sB Video when an RGB video signal (15 KhZ) with Sync on green or sync on H is presented on the BNC's.

This signal is routed to the video circuit and is projected in a Video Window.

6.2.2 Composite Video

How to select one of the 7 composite video inputs?

- 1. Press MENU to activate the Tool bar
- 2. Press \downarrow to Pull down the Source Selection menu
- 3. Use ↑ or ↓ to select Composite video
- 4. Press \rightarrow to Pull down the submenu
- 5. Use ↑ or ↓ to select one of the different video inputs (image 6-5)

Note: Video2 is an optional Video input and is only displayed in case the optional Video/Audio layer is installed.

If the extended mode is disabled, the submenu contains only 1 selection (2 selections if the Audio & Video option is installed).

6. Press ENTER to confirm your choice

A white bullet indicates the selected composite video source which now appears on the screen.

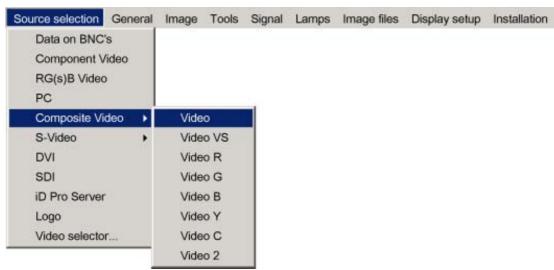


Image 6-5

Adjustments on a Composite video signal

The projectors allows different adjustments on a composite video signal. Depending on the type of signal (NTSC /PAL) the terminology may differ:

- Contrast
- · Brightness
- · Color: adjusts the level of color saturation in a PAL signal
- Tint : adjusts the level of color saturation in an NTSC signal
- · AGC: Automatic Gain Control



The composite video sources can also be selected using the video selector or via the dedicated key 3 on the RCU. Key 3 allows to browse through the active video inputs when the extended mode is checked in Video Selector..

6.2.3 S-Video

When

Select the S-Video input when in presence of a video signal also called S-VHS signal.

An S-Video signal is available on the Mini-Din connector of a camera, VCR or DVD player.

How to select one of the 3 S-Video inputs?

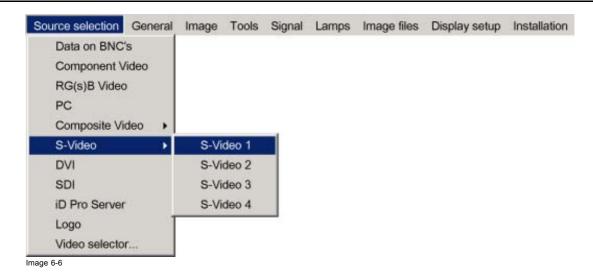
- 1. Press **MENU** to activate the Toolbar
- 2. Press \(\text{to Pull down the Source Selection menu} \)
- 3. Use ↑ or ↓ to select S-Video
- 4. Press \rightarrow to Pull down the submenu
- 5. Use ↑ or ↓ to select one of the different video inputs (image 6-6)

Note: S-Video4 is an optional Video input and is only displayed in case the optional Video/Audio layer is installed

If the extended mode is disabled, the submenu contains only 1 selection (2 selections if the Audio & Video option is installed).

6. Press ENTER to confirm your choice

A white bullet indicates the selected video source which now appears on the screen.





The S-Video sources can also be selected using the video selector or via the dedicated key 4 on the RCU. Key 4 allows to browse through the active S-Video inputs when the extended mode is checked in Video Selector.

6.3 General menu

Overview

- Pause
- Freeze
- Standby Timer
- Audio (Optional)
- Identification

6.3.1 Pause

Interrupting the image projection

With the Pause function, the image projection can be stopped, the projector remains with full power for immediate restart.

How to interrupt the image projection?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select General
- 3. Press ↓ to Pull down the General menu
- 4. Use ↑ or ↓ to select Pause (image 6-7)
- 5. Press ENTER to activate the Pause function

A brief sound indicates that the shutter has been activated.

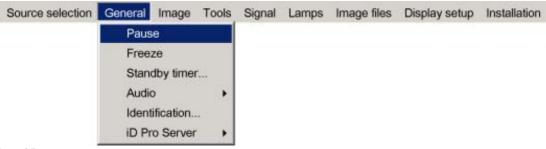


Image 6-7



The image projection can also be interrupted using the PAUSE key on the RCU.

To restart the image: press PAUSE

6.3.2 Freeze

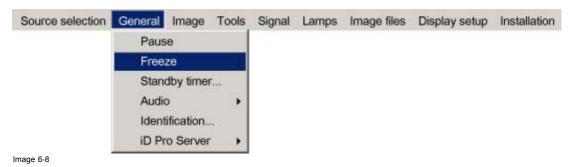
Freezing the image

With the Freeze function, the image can be frozen.

To restart the image, reuse the Freeze function or press the **FREEZE** button on the remote.

How to freeze the image?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select General
- 3. Press ↓ to Pull down the General menu
- 4. Use ↑ or ↓ to select Freeze (image 6-8)
- 5. Press ENTER to activate the Freeze function





The image can also be frozen using the FREEZE key on the RCU

6.3.3 Standby Timer

Purpose of the Standby Timer

If there is no signal, and the standby timer is enabled, a dialogbox is displayed and the projector will shut down after a determined time.

The countdown time can be set in a dialog box in a range from 180 to 3600 seconds (default value = 300). The Timer can also be disabled.

How to enable the timer?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select *General*
- 3. Press \downarrow to Pull down the General menu
- 4. Use ↑ or ↓ to select Standby Timer (image 6-9)
- 5. Press ENTER to activate the function

On the screen appears a dialogbox (image 6-10)

- 6. Use ↑ or ↓ to select *Enabled*, a box surrounds the selected item, press **ENTER** to activate
- 7. Use \uparrow or \downarrow to browse to the input field
- 8. Use \leftarrow or \rightarrow , the numeric keys on the remote or the keypad to change the countdown setting
- 9. Press MENU or BACK to exit or to go back to the previous menu





Image 6-10

6.3.4 Audio (Optional)

Overview

- Audio Setup
- · Audio Settings

6.3.4.1 Audio Setup

What can be done?

Layer 3 allows the input of 4 audio signals, each of them can be linked to the corresponding (video or data) source signal. it is also possible to link multiple audio signals to one video (or data) source signal, this can be useful in case of teleconferencing.

The configuration has to be done in the Audio Setup menu

Starting the Audio Setup menu

- 1. Press MENU to activate the Tool bar
- 2. Press → to select General
- 3. Press ↓ to Pull down the General menu
- 4. Use ↑ or ↓ to select Audio setup (image 6-11)
- 5. Press ENTER

A dialog box is displayed (image 6-12)

- LED is red : audio input is mute
- LED is green: input is active (linked image source is selected)
- LED is orange : image source is not selected

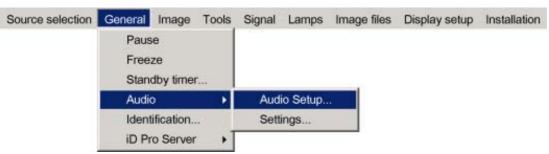


Image 6-11



Image 6-12

How to mute an Audio channel?

- 1. use the arrow keys to select the desired mute box
- 2. Press ENTER

How to link an audio input to a source?

- 1. use the arrows to select the desired scroll box
- 2. Press ENTER to open the scroll box
- 3. use \uparrow or \downarrow to select the source
- 4. Press ENTER



When the source switching mode is the fade in/out mode, the audio switching will also be done using a fade in/out effect.

6.3.4.2 Audio Settings

Audio Settings

- 1. Press MENU to activate the Tool bar
- 2. Press → to select General
- 3. Press ↓ to Pull down the General menu
- 4. Use ↑ or ↓ to select *Audio setup* (image 6-13)
- 5. Press ENTER

A dialog box is displayed (image 6-14)

6. Use the arrow keys to select and change the settings

Note: The default value for the volume is 43, this corresponds to a gain factor of 1 (volume in = volume out).



Image 6-13

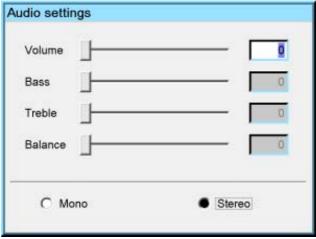


Image 6-14

6.3.5 Identification

The projector's identification screen

The identification screen displays the projector's main characteristics

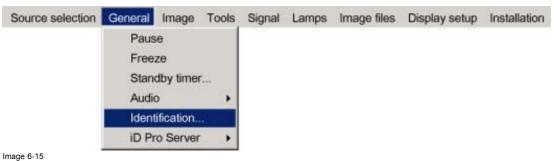
How to display the identification screen?

- 1. Press **MENU** to activate the Tool bar
- 2. Press → to select General
- 3. Press ↓ to Pull down the General menu
- 4. Use ↑ or ↓ to select *Identification* (image 6-15)
- 5. Press **ENTER** to activate the function

On the screen appears a text box.

In this case the projector is an iDR500 (image 6-16)

6. Press MENU or BACK to exit or to go back to the previous menu



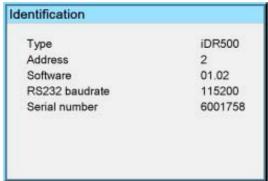


Image 6-16

6.4 Image menu

Overview

- Settings
- Aspect ratio
- Show native resolution
- Keystone
- Color temperature
- Filmmode detection (video only)
- White peaking
- Dynacolor™
- Blanking
- Input balance
- AGC on Video
- Manual Gain Control

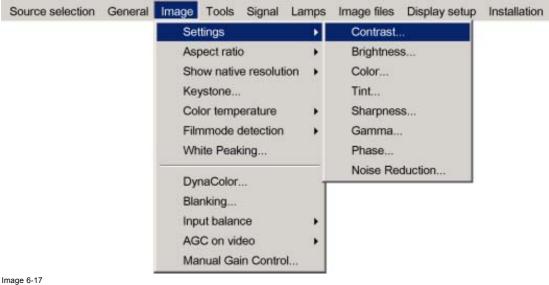
6.4.1 **Settings**

Overview

- Contrast
- Brightness
- Color
- Tint (hue)
- Sharpness
- Gamma
- Phase
- Noise reduction

What can be done?

Correct image settings are important for a good image reproduction. The image settings are made through a dialog box with a scroll bar. Minimal, maximal and actual values are indicated. These settings can also be done directly via the RCU's dedicated buttons, except for the sharpness.



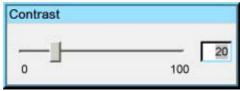


Image 6-18

6.4.1.1 Contrast

Contrast adjustment

Adjust the contrast to "brighten" the white parts of the image.



It is recommended to adjust the brightness before adjusting the contrast.

How to change the contrast

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Image* item
- 3. Press \downarrow to Pull down the *Image* menu
- 4. Use ↑ or ↓ to select settings
- 5. Press \rightarrow to pull down the menu
- 6. Use ↑ or ↓ to select Contrast
- 7. Press ENTER

On the screen appears now a sliderbox (image 6-19)

8. Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to change the contrast



Image 6-19

6.4.1.2 Brightness

Brightness adjustment

Adjusting the brightness will affect the dark areas of the image. Increase the brightness to "lighten" up the parts that are too dark.

How to change the Brightness?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Image* item
- 3. Press \downarrow to Pull down the Image menu
- 4. Use ↑ or ↓ to select settings
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select Brightness
- 7. Press ENTER

On the screen appears now a sliderbox (image 6-20)

8. Use $\leftarrow\!\text{or}\rightarrow$, the numeric keys on the remote, or the keypad to change the Brightness



Image 6-20

6.4.1.3 Color

Color adjustment

Adjust the color to obtain more or less saturated colors.

How to change the Color?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the *Image* menu
- 4. Use ↑ or ↓ to select settings
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select Color
- 7. Press ENTER

On the screen appears now a sliderbox (image 6-21)

8. Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to change the Color



Image 6-21

6.4.1.4 Tint (hue)

How to change the Tint?

- 1. Press **MENU** to activate the Toolbar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the *Image* menu
- 4. Use \uparrow or \downarrow to select settings
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select Tint
- 7. Press ENTER

On the screen appears now a sliderbox

8. Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to change the Tint

6.4.1.5 Sharpness

How to change the sharpness?

- 1. Press MENU to activate the Toolbar
- 2. Press → to select the *Image* item
- 3. Press ↓ to Pull down the *Image* menu
- 4. Use \uparrow or \downarrow to select settings
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select sharpness

7. Press ENTER

On the screen appears now a sliderbox

8. Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to change the sharpness

6.4.1.6 Gamma

How to change the Gamma

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the Image menu
- 4. Use ↑ or ↓ to select settings
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select Gamma
- 7. Press ENTER

On the screen appears now a sliderbox

8. Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to change the Gamma

6.4.1.7 Phase

Phase adjustment

A bad phase adjustment will result in bad transitions and sometimes noise (text can end to be unclear).

How to change the Phase?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the *Image* menu
- 4. Use \uparrow or \downarrow to select settings
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select *Phase*
- 7. Press ENTER

On the screen appears now a sliderbox (image 6-22)

8. Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to change the Phase

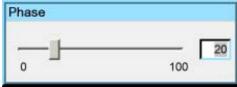


Image 6-22

6.4.1.8 Noise reduction

How to change the Noise reduction?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the Image menu
- 4. Use ↑ or ↓ to select settings
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select Noise reduction
- 7. Press **ENTER**

On the screen appears now a sliderbox

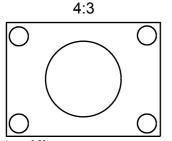
8. Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to change the Noise reduction setting.

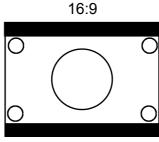
6.4.2 Aspect ratio

Aspect ratios

The standard aspect ratio used in broadcast television is the 4:3 ratio. However, most of the DVD sources use nowadays the widescreen 16:9 or even the cinemascope 2.35:1 aspect ratio.

Some DVD sources may even use the anamorphic 16:9 or anamorphic 2.35:1 to take advantage of the higher vertical resolution offered by the 4:3 ratio. The "anamorphic" term means that the original widescreen image is squeezed in order to fit the 4:3 aspect ratio.





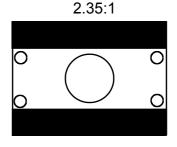
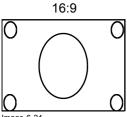


Image 6-23 Common non- anamorphic aspect ratios in DVD sources



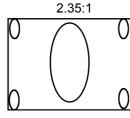


Image 6-24 Anamorphic aspect ratios in DVD sources

What can be done?

The aspect ratio setting forces the projector to project an image using a defined aspect ratio :

- 4:3
- 16:9
- 5:4
- Auto



The settings do not refer to the aspect ratio of the source!

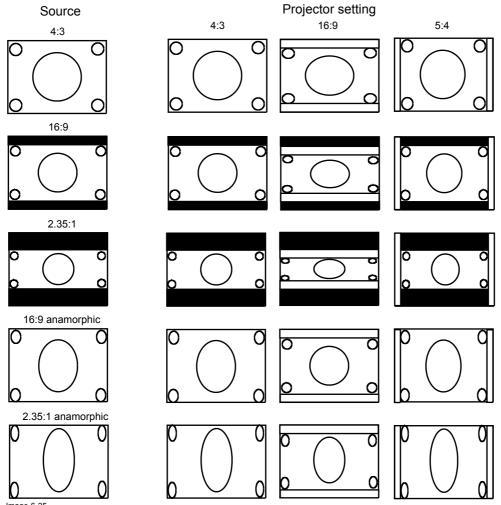


Image 6-25
Possible aspect ratio settings and their effect on different sources in the iQ.

We can conclude that the thumb rule for DVD projection is to always leave the projector in 4:3 format except when dealing with anamorphic sources where the 16:9 setting allows the best reproduction.

The Auto function calculates an aspect ratio based on the information stored in the image files.



Selecting Auto in case of a Video source may shrink the image horizontally

How to change the Aspect ratio?

- 1. Press **MENU** to activate the Tool bar
- 2. Press → to select Image
- 3. Press ↓ to Pull down the *Image* menu (image 6-26)
- 4. Use \uparrow or \downarrow to select Aspect ratio
- 5. Use \rightarrow open the Aspect ratio menu
- 6. Use \uparrow or \downarrow to select the desired ratio
- 7. Press **ENTER** to confirm

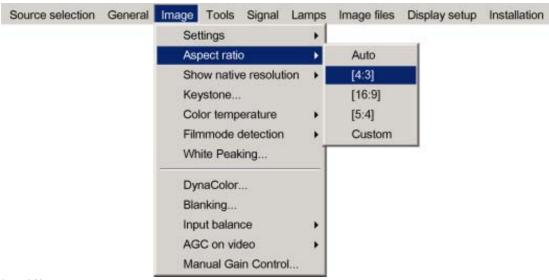


Image 6-26



The aspect ratio settings are greyed out in case the *Show native resolution* or the *Full screen representation* setting is enabled.

How to set a custom Aspect ratio?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select Image
- 3. Press ↓ to Pull down the Image menu
- 4. Use ↑ or ↓ to select Aspect ratio
- 5. Use → open the Aspect ratio menu
- 6. Use ↑ or ↓ to select Custom
- 7. Press ENTER to confirm

A dialog box is displayed (image 6-27)

Enter the values for width and height of the imageThe image aspect ratio is updated.

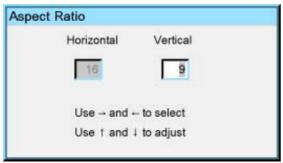


Image 6-27

6.4.3 Show native resolution



Reality(SXGA+)

Native resolution of the LCD panels = 1400 x 1050 pixels (4:3)

What can be done?

The aim here is to always show the resolution of the source independently of the resolution of the LCD panels. This way better image reproduction is obtained since no up or down scaling is done on the source.

Note that native resolution refers here to the source and does thus only have sense when handling data sources (greyed out for video sources).

Depending on the type of projector the "show native resolution" function will handle the sources as follows:

Source			Projected image		
Name	Ratio	Resolution	Ratio	Resolution	Display
xga	4:3	1024x768	4:3	1024x768	image centered +side blanked
sxga	5:4	1280x1024	5:4	1280x1024	image centered +side blanked
sxga+	4:3	1400x1050	4:3	1400x1050	image centered
uxga	4:3	1600x1200	4:3	1600x1200	scroll image

Table 6-1

Show native resolution = ON



The Full screen representation function on the other hand forces to use the complete native resolution of the LCD panels.

How to enable the "Show native resolution" function?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the Image menu
- 4. Use ↑ or ↓ to select Show native resolution (image 6-28)
- 5. Press \rightarrow to pull down the menu
- 6. Use \downarrow or \uparrow to select On
- 7. Press ENTER

A white bullet shows the selection

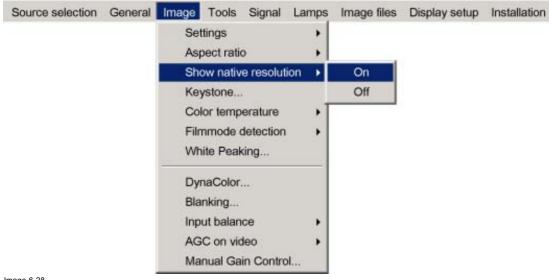


Image 6-28



The default mode is used if the Show native resolution and the Full screen representation are off.

The default mode shows always the native ratio and forces the native resolution of the panels (part of the image blanked where needed)



When show native resolution is ON and the resolution of the source is higher than the panel resolution, use the arrow keys to scroll through the image (pan).

6.4.4 Keystone

What can be done?

The Keystone adjustment is used to align the image, this can be necessary when projecting under a non standard angle

How to perform a Keystone correction?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select *Image*
- 3. Press \downarrow to Pull down the *Image* menu
- 4. Use ↑ or ↓ to select Keystone (image 6-29)
- 5. Press ENTER to confirm

A sliderbox is displayed . (image 6-30)

Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to adjust the keystone.

The Top and bottom adjustments affect the image differently. (image 6-31, image 6-32)

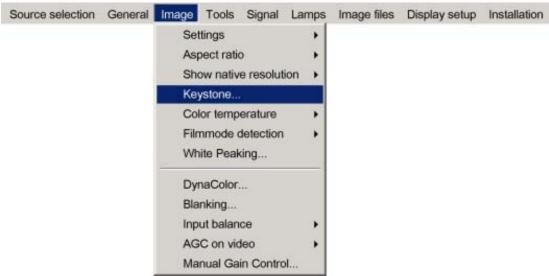


Image 6-29



Image 6-30

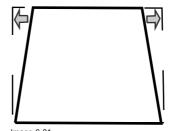
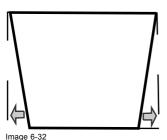


Image 6-31 Top adjustment of the keystone



Bottom adjustment of the keystone

6.4.5 Color temperature

What can be done?

The color temperature can be selected according to the type of source:

There are 4 different preset color temperatures:

Projector white
computer: 9300 K
Video: 6500 K
Film: 5400 K
Broadcast: 3200 K

These calibrated presets can be selected and will provide optimum color tracking, the projector allows however the setting of a personal color temperature, this is done in *custom*

How to select a preset color temperature?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the Image menu
- 4. Use ↑ or ↓ to select Color temperature
- 5. Press \rightarrow to pull down the menu
- 6. Use \downarrow or \uparrow to select the desired preset color temperature
- 7. Press ENTER

The color temperature of the image is adapted and a white bullet shows the active setting.

How to start up the custom color temperature?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the *Image* menu
- 4. Use ↑ or ↓ to select Color temperature
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select custom
- 7. Press ENTER

A slider box for the red custom setting is displayed as well as a wizard text box in the lower part of the screen. (image 6-33) Follow the instructions on the wizard textbox. (image 6-34)



Image 6-33

Change color between Red and Blue with < -COLOR+ >

6.4.6 Filmmode detection (video only)

What can be done?

Some sources like common DVD material are derived from cinema 24 Hz sources (2/2 or 3/2 pull down method).

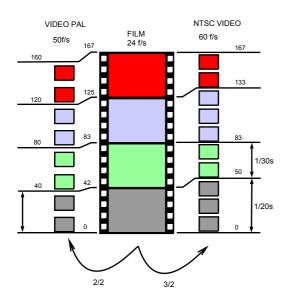
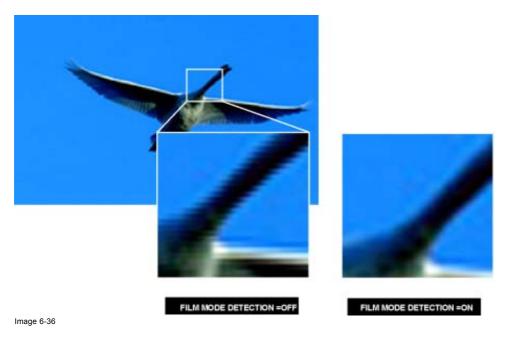


Image 6-35 film to video conversion: 2/2 and 2/3 pull down method



The filmmode detection insures that these converted signals are shown without artefacts, especially motion artefacts due to bad de-interlacing.



This function may cause undesired effects on standard sources, therefore it can be disabled (OFF) at any time

Enabling/disabling the filmmode detection

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image* item
- 3. Press \downarrow to Pull down the *Image* menu
- 4. Use ↑ or ↓ to select Filmmode detection
- 5. Press \rightarrow to pull down the menu
- 6. Use \downarrow or \uparrow to enable or disable the Filmmode detection (image 6-37)
- 7. Press ENTER

A white bullet shows the active setting

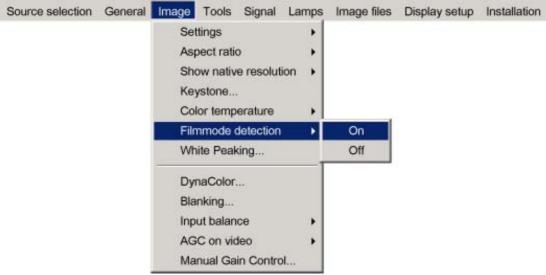


Image 6-37

6.4.7 White peaking

White peaking

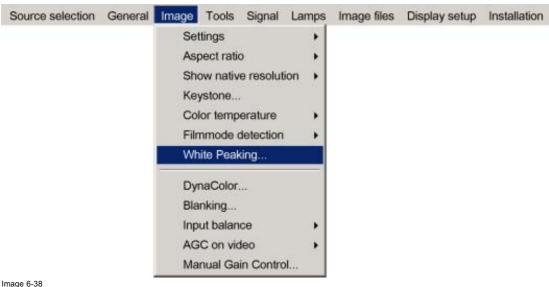
White peaking function will allow you to adjust the "white level" of the colors i.e. increasing the white peaking will increase the overall brightness of the image. Note that increasing the white peaking will decrease the color saturation.

How to adjust the White peaking level?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select the *Image* item
- 3. Press \downarrow to Pull down the *Image* menu
- 4. Use ↑ or ↓ to select White peaking (image 6-38)
- 5. Press ENTER

A slider box is displayed (image 6-39)

6. Adjust the white peaking to the desired value



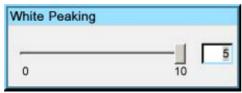


Image 6-39

6.4.8 Dynacolor™

What can be done?

DynaColor™ will eliminate channel-to-channel color variations.

How to define color?

The CIE chromaticity diagram is one way to plot the colors the human eye can see.

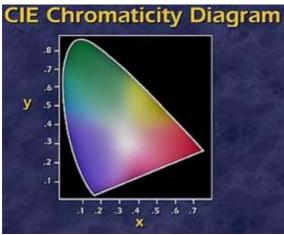


Image 6-40 The CIE chromaticity diagram

A projector can only reproduce a certain color gamut within this diagram. This color gamut is defined by the triangle formed by the x, y coordinates of Red Green and Blue. These parameters are used by the DynaColor™ adjustment.

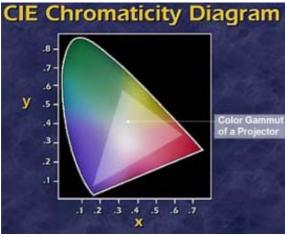


Image 6-41
The projector color gamut is defined by the triangle formed by the x, y coordinates of Red Green and Blue

Due to the tolerance on optical components the x, y values of this color gamut of each projector will differ.

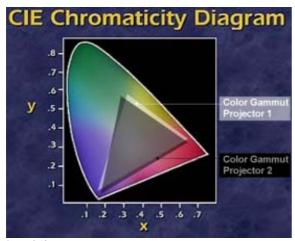


Image 6-42
The color gamut of each projector will differ

When working with a multichannel setup, these color differences between different projectors can be smoothed out by matching the color gamuts of the different projectors to a Common Color Gamut.

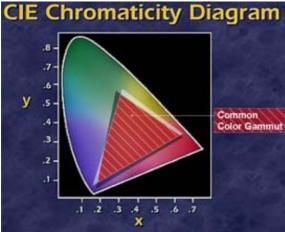


Image 6-43 Common Color Gamut

The Common Color Gamut

In a basic setup with 2 projectors, the perimeter of the Common Color Gamut is described by the 6 points of intersection of the 2 separate color gamuts.

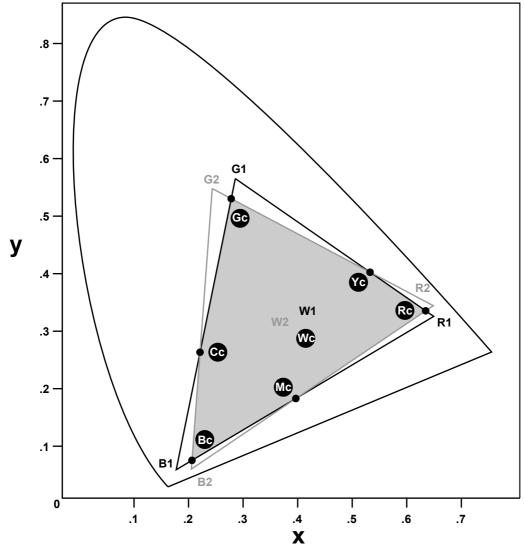


Image 6-44 The Common Color Gamut

R1 Red projector 1

R2 Red projector 2

G1 Green Projector 1

G2 Green Projector 2

B1 Blue Projector 1

B2 Blue Projector 2 W1 White Projector 1

W2 White Projector 2

Rc Red Common Color Gamut

Gc Green Common Color Gamut

Bc Blue Common Color Gamut

Cc Cyan Common Color Gamut

Mc Magenta Common Color Gamut

Yc Yellow Common Color Gamut

Wc White Common Color Gamut

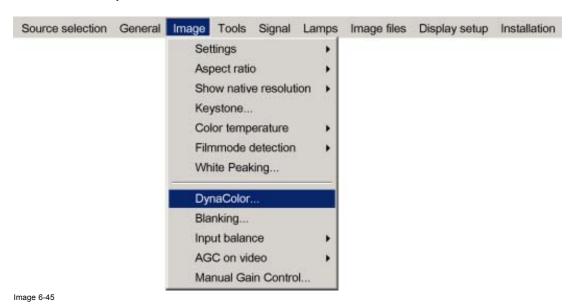
The following parameters can be adjusted within $\mathsf{DynaColor}^{\mathsf{TM}} :$

- the x, y coordinates and g(Light Output) of the 6 Common Color Gamut perimeter points.
- the x, y coordinates and g(Light Output) of the White point of the Common Color Gamut.

How to Start up Dynacolor™?

- 1. Press the **MENU** key to activate the Menu bar.
- 2. Push the cursor key \leftarrow or \rightarrow to highlight *Image* in the menubar.
- 3. Push the ↓ key to pull down the *Image* menu.
- Push the cursor key ↑ or ↓ to highlight *Dynacolor* and press **ENTER** to select. (image 6-45)
 The Dynacolor dialog box will be displayed. (image 6-46)

5. Push the cursor key \leftarrow or \rightarrow select enable/diasable and then **ENTER**.



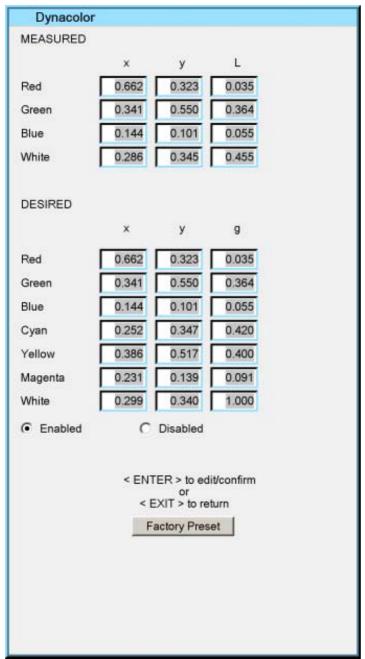


Image 6-46

Dynacolor™ g (Light Output) Value

The value g in the Dyancolor™ interface represents a relative light output. g=1 is the maximum available light output.



Assume we have a projector. L=1 in the Dyancolor™ interface will correspond with a 'maximum full white light' output of x Lumens.



Important! In the projectors iD R600 and iD Pro R600 (R9010340 and R9010350) the measuring is done with white peaking = 0.

In the projectors iD R600+ and iD Pro R600+(R9010341 and R9010351) however, the white peaking must be 10 during the measurement.

The dialogbox shown here are as displayed in the iD R600 and iD Pro R600 (with the field White). The dialogbox displayed in the iD R600+ and iD Pro R600+ contain the field White+ instead of White.

The Dynacolor™ Interface

Following parameters are available in the Dyancolor™ Interface:

Measured Values	These are the colors the projector displays when no color changes are made
Red x, y	Coördinates for the Red point
Green x, y	Coördinates for the Green point
Blue x, y	Coördinates for the Blue point
White x, y	Coördinates for the White point
Red L	Red Light output
Green L	Green Light output
Blue L	Blue Light output
White L	White Light Output

Desired Values	These are the colors you want the projector to display when the status is enabled	
Red x, y	Coördinates for the Red point	
Green x, y	Coördinates for the Green point	
Blue x, y	Coördinates for the Blue point	
Cyan x, y	Coördinates for the Cyan point	
Yellow x, y	Coördinates for the Yellow point	
Magenta x, y	Coördinates for the Magenta point	
White x, y	Coördinates for the White point	
Red g	Red Light Gain	
Green g	Green Light Gain	
Blue g	Blue Light Gain	
Cyan g	Cyan Light Gain	
Yellow g	Yellow Light Gain	
Magenta g	Magenta Light Gain	
White g	White Light Gain	

Status	Enables or disables Dynacolor™
Factory Preset	Sets the measured parameters back to the factory preset for the current set

Basic Dynacolor™ Adjustment

We assume we have a basic setup with 2 projectors, the Dynacolor™ adjustment is done by using only the Dynacolor™ menu:

- 1. Enable Dynacolor™ on both projectors.
- 2. Assume the first projector has the following measured values. (image 6-47)
- 3. Assume the second projector has the following measured values. (image 6-48)
- 4. We start by setting both projectors to the common red coordinate.

 *Tip: Draw a quick sketch of both gamuts as a graphical help. (image 6-49)
- 5. Display the internal color bar pattern on both projectors.
- 6. In the desired values, adjust the red coordinate to a common value for both projectors.

ip: The color bar of the adjusted coordinate will no longer be displayed in case the coordinate is not present within the gamut of the adjusted projector e.g. with the desired values for red set to x=660 and y= 318. (image 6-50)

Select a coordinate that is present in the common gamut e.g. with the desired values for red set to x=633 and y=328. (image 6-51)

7. Repeat step 5 to 6 for all coordinates on both projectors.

Both projectors will now operate within the same color gamut.

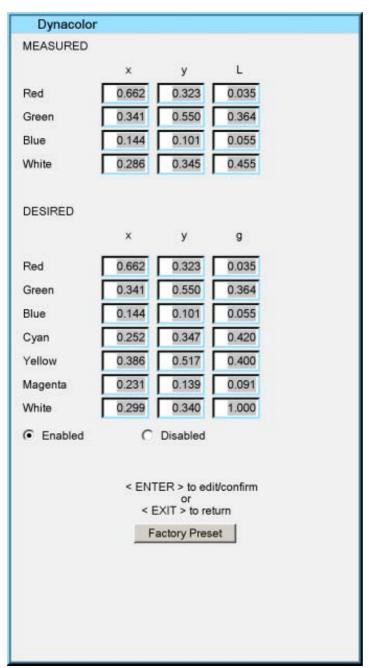


Image 6-47

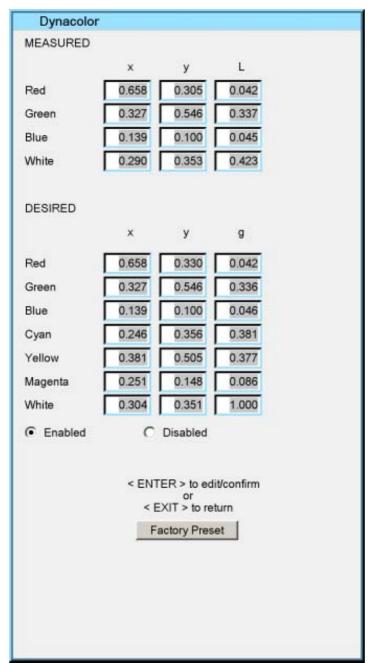


Image 6-48

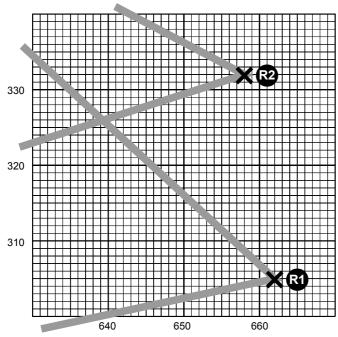


Image 6-49 Red coordinates for both projectors

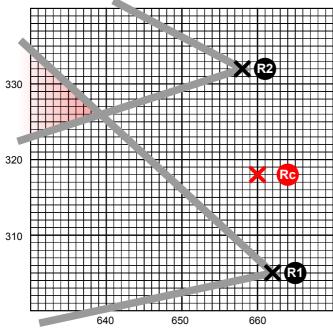


Image 6-50 Coordinate is not present within the gamut of the adjusted projector

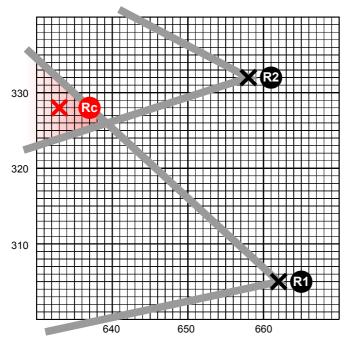


Image 6-51 Select a coordinate that is present in the common gamut



Another way to determine the new coordinates is to use the DynacolorTool (software tool running on a laptop or PC), contact Barco for more information.

6.4.9 Blanking

Blanking in the Image menu

The blanking in general allows to blank unwanted video information (noise in the top or bottom of the image).

The blanking in the image menu is the same as in the Display settings menu except for the fact that here the blanking settings are **stored** in the image files. In other words each custom file or source has its own blanking values.

See the blanking procedure in the Display settings menu.



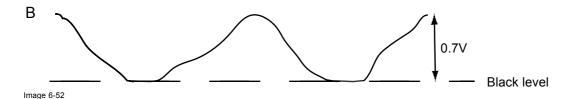
If the selected source is not entirely displayed always check first the blanking settings in the image menu since the active custom file may contains blanking.

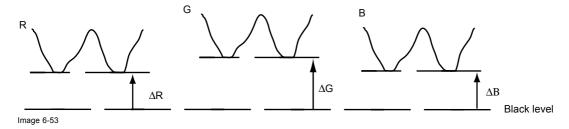
6.4.10 Input balance

Introduction: Unbalanced color signals

When transporting signals, there is always a risk of deterioration of the information contained in the signals.

The alterations of the three color signals will happen independently i.e. the colors will end to be unbalanced,





The objective of input balancing

The objective in input balancing is to "set" the same black level and the same white level for the three colors of a particular input source.



Black level setting : brightness White level setting : contrast

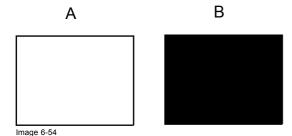
The same absolute black and white level for the three colors allows the same reference for Brightness and contrast control of the picture!

These two references also set the range in which the ADC will work for that particular source (this explains also why each input balance setting is linked to a particular source and thus saved in the image file).

How can it be done?

To balance the three color signals of a particular source there are conditions; in fact we must know the black and the white level of the source i.e. :

- 1. the source in question must be able to generate a white signal, ideally a 100% white (background) full screen pattern
- 2. the source in question must be able to generate a black signal, ideally a 100 % black (background) full screen pattern



White balance: In the projector, we will set the contrast for each color until we get a 100% light output picture when projecting a 100% white image (image A)

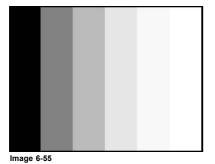
Black balance: In the projector, we will set the brightness for each color until we get a 0% light output picture when projecting a 100% black image (image B).



The changeover from min to max is indicated by the apparition of bright spots also called "digital noise"



An alternative to a full screen White/black pattern is the standard gray scale pattern, the white bar will be used for white balance and the black bar for black balance.



Black balance

- 1. Connect the source you want to project
- 2. Press MENU to activate the Tool bar
- 3. Press \rightarrow to select the *Image* item
- 4. Press ↓ to Pull down the *Image* menu
- 5. Use ↑ or ↓ to select Input balance
- 6. Press \rightarrow to pull down the menu
- 7. Use ↓ or ↑ to select *Black balance* (image 6-56)
- 8. Adjust the red black level on a minimal value (image 6-57)
- 9. Adjust the blue black level on a minimal value

Note: this minimal value is not necessary, provided that the 2 other colors are not influencing too much the color to be adjusted, in fact the aim is to minimize the effect of the two other colors since there is a risk of reaching too soon the 50% transition due to the contribution of these two other colors signals.

- 10. Adjust the green black level until bright spots appear on the black part of the image
- 11. Adjust the Blue black level until bright spots appear on the black part of the image
- 12. Adjust the Red black level until bright spots appear on the black part of the image

 The projected image should know be noisy full black

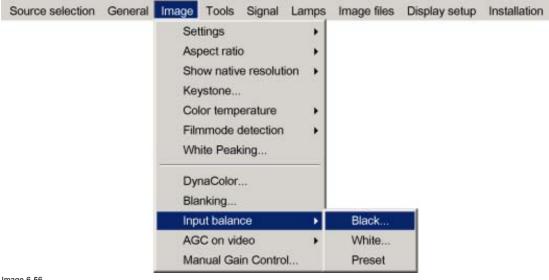


Image 6-56

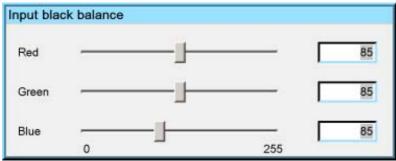


Image 6-57



if one uses a gray scale pattern, the bright spots should appear in the black bar.

Performing White input balance

- 1. Select a black pattern (or gray scale as alternative)
- 2. Press MENU to activate the Toolbar
- 3. Press \rightarrow to select the *Image* item
- 4. Press ↓ to Pull down the Image menu
- 5. Use ↑ or ↓ to select Input balance
- 6. Press \rightarrow to pull down the menu
- 7. Use ↓ or ↑ to select White balance (image 6-58)
- 8. Adjust the red white level (gain) on a minimal value (image 6-59)
- 9. Adjust the blue white level (gain) on a minimal value

Note: this minimal value is not necessary, provided that the 2 other colors are not influencing too much the color to be adjusted, in fact the aim is to minimize the effect of the two other colors since there is a risk of reaching too soon the transition (bright spots) due to the contribution of these two other colors signals.

- 10. Adjust the Green white level (gain) until bright spots appear on the white part of the image
- 11. Adjust the Blue white level (gain) until bright spots appear on the white part of the image
- 12. Adjust the Red white level (gain) until bright spots appear on the white part of the image

 The projected image should now be noisy neutral grey.

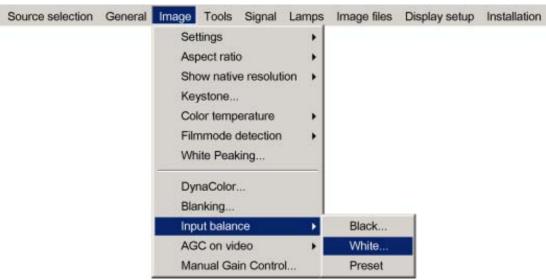


Image 6-58



Image 6-59



if one uses a gray scale pattern, the bright spots should appear in the white bar.



Selecting Preset restores the factory input balance setting



The input balance settings are stored in the image file, each source has its own input balance.

6.4.11 AGC on Video



AGC

Automatic Gain Control: allows an automatic amplitude (gain) control of the incoming video signal

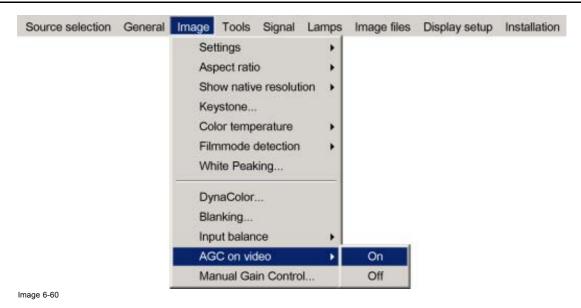


AGC is only for Video signals

Enabling/disabling the AGC

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the *Image* menu
- 4. Use ↑ or ↓ to select AGC on Video
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to enable or disable the AGC
- 7. Press ENTER

A white bullet shows the active setting (image 6-60)



The AGC can be disturbing in case of Macrovision encoded signals, therefore the AGC can be disabled (OFF) at any time

6.4.12 Manual Gain Control

What can be done?

Beside the AGC there is the possibility to manually set the gain of the incoming video signal. When the AGC is enabled (ON), the manual setting does not affect the gain, AGC must therefore be disabled. The manual gain control must be done on an external pattern with white areas (grey scale bar pattern)

How to set the Manual Gain Control?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image* item
- 3. Press ↓ to Pull down the Image menu
- 4. Use \uparrow or \downarrow to select Manual Gain Control (image 6-61)
- 5. Press ENTER

A scroll bar is displayed (image 6-62)

6. Use ← or →, the numeric keys on the remote, or the keypad to change the gain so as to obtain homogene white parts in the image.

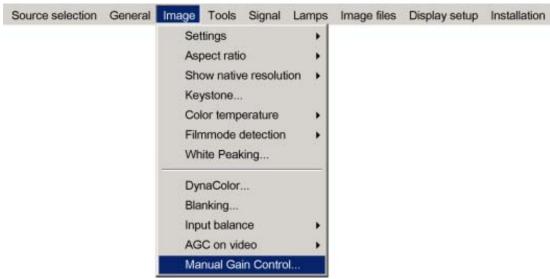


Image 6-61



Image 6-62

6.5 Tools

6.5.1 Introduction to PiP



PiP

PiP stands for "Picture" and allows to display multiple windows containing each of them an image. The windows may be of the video or data type.

What are the different possibilities within the PiP mode?

The input section of the IQ projector allows a multitude of combinations of different input signals which may be projected in the 4 windows of the PiP screen.

The PiP mode allows independent settings for each window:

- Image settings : contrast, brightness, tint, color,...
- Vertical and horizontal shift of each window all over the screen
- · Resizing of the window
- Digital Zoom
- Linking of (an) audio input(s) to a single or multiple windows

What are the different PiP layouts?

Full screen²

The full screen is used to display one of the selected sources. Browsing through the sources is possible with the **PiP Adjust** button on the remote.

2-by-2 raster²

The screen is divided into 4 subscreens containing 2 Video and 2 Data sources.

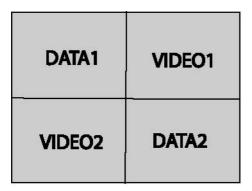


Image 6-63 PiP: 2by2 layout

PiP layout 1–3 ³

These are factory layouts, they can be edited and saved.

· Personal layouts

Beside the 2 fixed layouts and the 3 factory layouts, one can set 5 additional (personal) layouts.

PiP dedicated buttons

• **PiP Adjust :** this button allows to focus on one particular window, this is shown with a white frame surrounding the selected window.

A source identification box is displayed in the right lower corner.

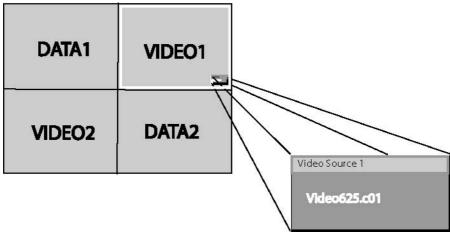


Image 6-64

Pressing the button removes the frame to the next window. This can also be done via PiP Adjust in the Tools menu

• **PiP:** this button allows to browse through the different configurations, it has the same function as *PiP select* in the Tools menu.



Since there is only one decoder (second decoder is optional), when in 2by2 configuration, Video1 and Video2 are derived from the same video source.

^{2.} fixed layout

^{3.} factory layouts

6.5.2 PiP select

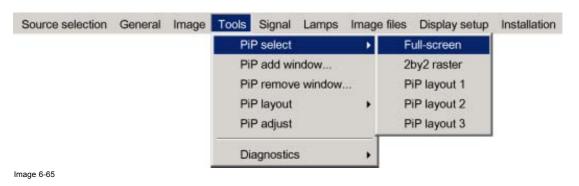
PiP layouts

The different PiP layouts (configurations) can be selected in the PiP select menu.

How to change the PiP configuration?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select the *Tools* item
- 3. Press ↓ to Pull down the *Tools* menu
- 4. Use ↑ or ↓ to select PiP select
- 5. Press \rightarrow to pull down the menu
- 6. Use ↑ or ↓ to select the desired configuration
- 7. Press ENTER

A white bullet shows the active layout (image 6-65)





The PiP configuration can also be selected via the dedicated PiP key on the RCU.

6.5.3 PiP add window

What can be done?

It is possible to add a window to the existing windows (maximum 4), therefore a source must be selected.

Sources which are already used are non selectable. If, for instance, the PiP layout contains a component video then component video will be non selectable.

Once added, the window may be altered in several ways to meet particular needs:

- repositioning
- · re-sizing
- · changing the order

How to add a window?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Tools* item
- 3. Press ↓ to Pull down the *Tools* menu
- 4. Use ↑ or ↓ to select PiP add window
- 5. Press ENTER

The source selection menu is displayed (image 6-66)

In the lower part of the screen appears a wizard in 4 steps (image 6-67)

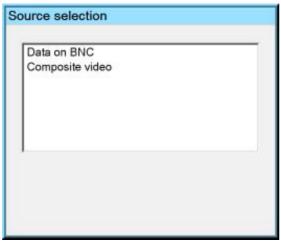


Image 6-66

PiP wizard step 1 Select the source you want to display in this window.

Image 6-67

6.5.4 PiP remove window

How to remove a window?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Tools* item
- 3. Press ↓ to Pull down the *Tools* menu
- 4. Use ↑ or ↓ to select PiP remove window
- 5. Press ENTER

In the lower part of the screen appears a wizard. (image 6-68)

The selected window appears surrounded with a white frame, each hit on **PiP ADJUST** will move the frame along the different windows.

Change color between Red and Blue with < -COLOR+ >

Image 6-68

6.5.5 PiP layout

Overview

- PiP Save
- · PiP rename layout
- PiP delete layout

6.5.5.1 PiP Save

What can be done?

The active layout can be saved or "saved as".

When a new layout is saved it is added to the PiP select menu.



A fixed layout can be edited (re-sizing, re-positioning,...) but it can not be saved under its original name.

How to save a layout?

1. Press MENU to activate the Tool bar

- 2. Press \rightarrow to select the *Tools* item
- 3. Press ↓ to Pull down the *Tools* menu
- 4. Use ↑ or ↓ to select PiP layout
- 5. Press \rightarrow to pull down the menu
- 6. Use ↑ or ↓ to select PiP save or save as
- 7. Press ENTER

If save as has been selected, a dialog box is displayed (image 6-69)

Use ← or →, the numeric keys on the remote, or the keypad to enter the name and exit with **BACK** or **MENU**.

If save as has been selected, a message box is displayed (image 6-70)

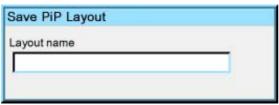




Image 6-69

6.5.5.2 PiP rename layout

What can be done?

The non fixed layouts (factory and personal layouts) can be renamed .

The maximal length of the name is 12 characters.



A fixed layout can not be renamed

How to rename a layout?

- 1. Press **MENU** to activate the Tool bar
- 2. Press → to select the *Tools* item
- 3. Press ↓ to Pull down the *Tools* menu
- 4. Use ↑ or ↓ to select PiP layout
- 5. Press \rightarrow to pull down the menu
- 6. Use ↑ or ↓ to select *Rename*
- 7. Press ENTER

A dialog box is displayed (image 6-71)

- 8. Use \uparrow or \downarrow to select the layout to be renamed
- 9. Press ENTER

A dialog box is displayed (image 6-72)

Use ← or →, the numeric keys on the remote, or the keypad to enter the name and exit with **BACK** or **MENU**.



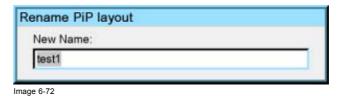


Image 6-71

6.5.5.3 PiP delete layout

What can be done?

The non fixed layouts (factory and personal layouts) can be deleted.



The fixed layouts and the active layout can not be deleted

How to delete a layout?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Tools* item
- 3. Press ↓ to Pull down the *Tools* menu
- 4. Use ↑ or ↓ to select PiP layout
- 5. Press \rightarrow to pull down the menu
- 6. Use ↑ or ↓ to select *Delete*
- 7. Press **ENTER**

A dialog box is displayed (image 6-73)

- 8. Use \uparrow or \downarrow to select the layout to be renamed
- 9. Press ENTER

The layout is deleted and disappears from the dialog box



Image 6-73

6.5.6 PiP Adjust

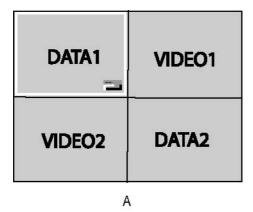
What can be done?

PiP adjust allows to browse through the windows in the active layout, a white frame indicates the window which has the focus.

This way, independent settings (picture settings, ...) are possible for each window.



This can also be done by using the dedicated PiP Adjust key on the RCU



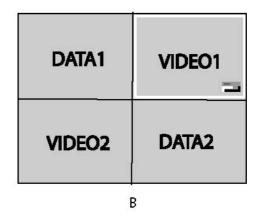


Image 6-74 PiP adjust in case of 2by2 layout

- A Data1 window has the focus, new settings will only affect Data1 window
- B Video1 window has the focus, new settings will only affect Video1 window

PiP adjust

- 1. Press MENU to activate the Toolbar
- 2. Press → to select the *Tools* item
- 3. Press ↓ to Pull down the *Tools* menu
- 4. Use ↑ or ↓ to select PiP Adjust
- 5. Press ENTER

The menu dissapears.

The focus moves to the next window when pressing ENTER (clockwise rotation)

If you press **BACK** or if you wait 5 seconds the menu is displayed.



When using the PiP adjust key on the RCU the corresponding source box is displayed in the bottom right corner.

How to adjust a window in the layout?

- 1. Use the PiP Adjust key or function in the menu to choose the window to be adjusted
- 2. Press ENTER

A wizard bar is displayed in the bottom of the screen

Follow the procedure.

6.5.7 Color keying

Principle of color keying

Take e.g. two image. One taken on a full color background and the other a normal image. The full color background will be replaced by the second image via the principle of color keying.







Image 6-76 Full color image



Image 6-77 Result image after color keying



The color keying function is only relevant when in presence of the Pro version, although present in the standard version.

6.5.8 Diagnostics

Diagnostics

1. See the Troubleshoot section in the appendix

6.6 Signal Menu

Overview

- Switching mode
- Background

6.6.1 Switching mode

Switching from one source to another

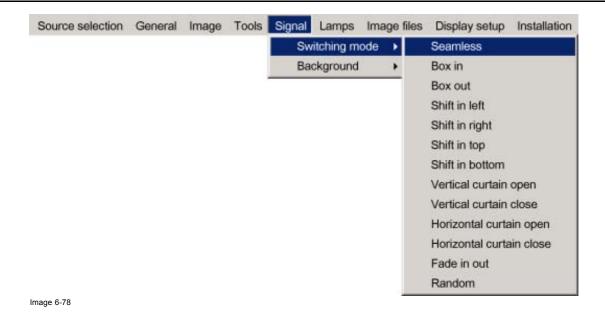
To minimize undesired effects when switching from one source to another, one can use the Seamless switching mode, beside Seamless switching there is a wide choice of several effects which render the source switching transitions more enjoyable.

How to select a switching mode?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the Signal item
- 3. Press ↓ to Pull down the Signal menu
- 4. Use \uparrow or \downarrow to select Switching mode
- 5. Press \rightarrow to pull down the menu
- 6. Use \uparrow or \downarrow to select the desired switching mode (image 6-78)
- 7. Press ENTER

A white bullet shows the active effect.

The next source switching will be done using the selected effect





The Random mode will select a new switching mode at each source switching i.e. there will never be 2 successive source switchings with the same effect.

The Seamless switching mode is not used in the Random mode.



The switching effects are only possible in the full screen mode



When the source switching mode is the fade in/out mode, the audio (when available) switching will also be done using a fade in/out effect.

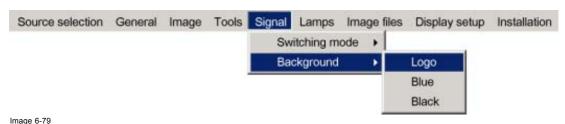
6.6.2 Background

Purpose

If there is no signal connected to the projector, the background will be a logo, a black or a blue screen depending on the background settings.

How to change the background?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the Signal item
- 3. Press ↓ to Pull down the Signal menu
- 4. Use ↑ or ↓ to select Background
- 5. Press \rightarrow to pull down the menu
- 6. Use \uparrow or \downarrow to select the desired background (image 6-79)
- 7. Press ENTER





The logo display is only possible in the full screen mode, a logo can thus not be displayed (rescaled) in a window in the PiP mode.



When there is no signal connected, the projector will also start its standby timer countdown (if enabled) and shuts down after the predetermined time.

6.7 Lamp management

6.7.1 Runtimes

How to display the lamp runtimes?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Lamp* item
- 3. Press ↓ to Pull down the Lamp menu
- 4. Use ↑ or ↓ to select *Runtimes* (image 6-80)
- 5. Press **ENTER**

A textbox is displayed (image 6-81)



Image 6-80



Image 6-81

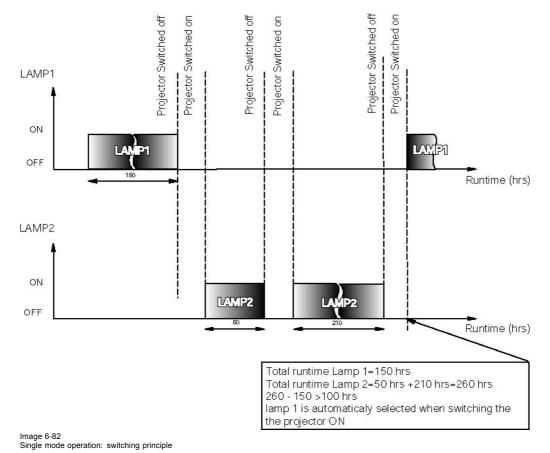
6.7.2 Mode

What are the different lamp modes?

Single mode

The projector will always switch to the lamp with the shortest runtime when the difference between the runtimes of lamp1 and lamp 2 reaches **100 hours**, switching from one lamp to another happens only at switching on of the projector and not during operation.

When the lamp fails or reaches its maximum runtime the projector switches automatically to the other lamp without interrupting the projection. The failure is logged and the lamp will never be initialized in the future.



Dual mode

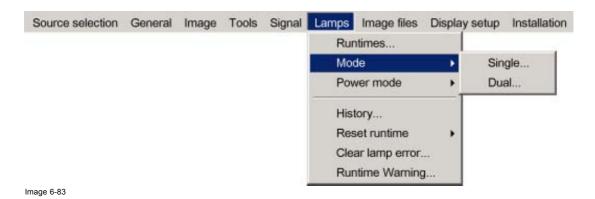
Both lamps are working.

When one lamp fails, the projector continues the projection using the remaining lamp.

How to select the lamp mode?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Lamp* item
- 3. Press ↓ to Pull down the Lamp menu
- 4. Use ↑ or ↓ to select *Mode*
- 5. Press \rightarrow to pull down the menu
- 6. Use ↑ or ↓ to select the desired background (image 6-83)
- 7. Press ENTER

A bullet shows the active mode.





When switching from the dual mode to the single mode the lamp with the longest runtime is switched off.

If the runtimes are equal (if the projector has always been operated in dual mode) then lamp1 is switched out.



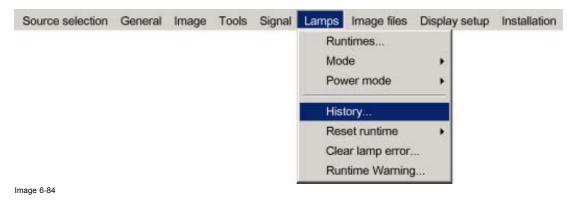
When switching to single mode, returning to the dual mode will not be possible in the first 60 seconds, *Dual* in the menu is greyed out and LED1 is flickering, thereby preventing hot restrike which may damage the lamp.

6.7.3 History

How to view the history?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Lamp* item
- 3. Press ↓ to Pull down the Lamp menu
- 4. Use ↑ or ↓ to select *History* (image 6-84)
- 5. Press ENTER

A textbox is displayed (image 6-85)



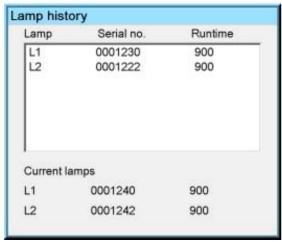


Image 6-85

6.7.4 Reset runtime

When to reset the lamp runtime?

The lamp runtime should only be reset when placing a new lamp.



WARNING: Lamp runtime reset as well as the lamp replacement can only be done by a Barco authorized technician.

How to reset the lamp runtime in the iQ/iD?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Lamp* item
- 3. Press ↓ to Pull down the Lamp menu
- 4. Use \uparrow or \downarrow to select Reset runtime
- 5. Press \rightarrow to pull down the menu
- 6. Use \uparrow or \downarrow to select the lamp to be reset (image 6-86)
- 7. Press ENTER

A dialog box is displayed (image 6-87)

8. Use ←or →, the numeric keys on the remote, or the keypad to change the serial number of the lamp (serial number 0000000 will not be accepted).

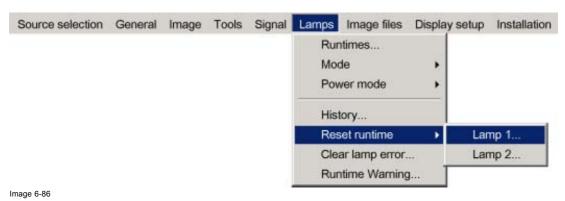




Image 6-87



WARNING: Lamp runtime reset as well as the lamp replacement can only be done by a Barco authorized technician.

How to reset the lamp runtime in the SIM5Plus?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Lamp* item
- 3. Press ↓ to Pull down the Lamp menu
- 4. Use ↑ or ↓ to select Reset runtime
- 5. Press → to pull down the menu
- 6. Use \uparrow or \downarrow to select the lamp to be reset
- 7. Press ENTER

A dialog box is displayed (image 6-88)

8. Use ←or →, the numeric keys on the remote, or the keypad to change the serial number of the lamp (serial number 0000000 will not be accepted).



Image 6-88



WARNING: Lamp runtime reset as well as the lamp replacement can only be done by a Barco authorized technician.

6.7.5 Runtime warning

What can be done?

When the lamp has reached a certain predetermined runtime, a warning message will be displayed on the screen. The lamp runtime warning can be set in a range from 30 to 200 hours. The runtime warning is displayed by default at 30 hours before end of lamp lifetime.

How to set the lamp runtime warning?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Lamp* item
- 3. Press ↓ to Pull down the Lamp menu
- 4. Use ↑ or ↓ to select Runtime warning (image 6-89)
- 5. Press ENTER

A dialogbox is displayed (image 6-90)

6. Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to change the runtime warning setting.

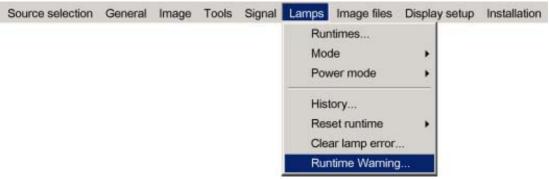


Image 6-89

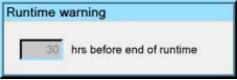


Image 6-90



WARNING: Lamp runtime reset as well as the lamp replacement can only be done by a Barco authorized technician.

6.8 Image files menu

Overview

- · Load file
- Auto Image
- Edit file
- · Rename file
- Copy
- Delete
- Forced file load

6.8.1 Load file

How to load a file?

- 1. Press **MENU** to activate the Tool bar
- 2. Press \rightarrow to select the *Image files* item
- 3. Press ↓ to Pull down the *Image files* menu
- 4. Use ↑ or ↓ to select *Load* (image 6-91)
- 5. Press **ENTER**A dialog box is displayed (image 6-92)

6. Use ↑ or ↓ to select the desired file

Tip: For more info about the available image files and the specifications, see "Standard Image Files", page 157

7. Press ENTER

The file is loaded and the image is adapted.

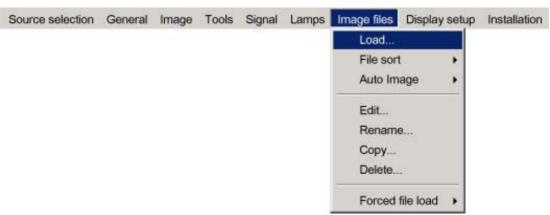


Image 6-91

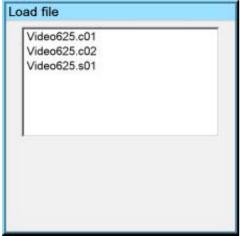


Image 6-92



In PiP mode, the files which may be loaded will be of the data type if the active window is a data window, or they will be of the video type if the active window is a video window.

What to do if the image is not perfect?

If the displayed image is not correct after AutoImage or after selecting the best fitting file, go to the Edit menu, select the active file and change the settings.

6.8.2 Auto Image

What can be done?

Auto Image creates the best suited image file for the connected source.

It calculates/measures several source parameters :

- · Total pixels per line
- Start pixel
- Phase
- Contrast/Brightness levels



Auto Image works only for data images.

The measure of the total number of pixels per line can be done through 2 methods

- Limited scan: a windowing is used to allow fast tracking.
 The operation takes about 20 seconds (depending on file)
- Full scan: tracking is done over the full range.
 The operation takes about 1.5 minutes (depending on file)

How to launch Auto Image?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image files* item
- 3. Press ↓ to Pull down the Image files menu
- 4. Use ↑ or ↓ to select Auto Image
- 5. Press \rightarrow to open the menu
- 6. Use ↑ or ↓ to select the desired file scan method (image 6-93)
- 7. Press ENTER

A text box showing a progress bar is displayed. (image 6-94) *Tip:* Press the *Cancel* button to cancel the operation.

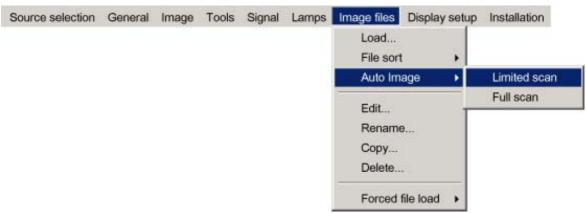


Image 6-93



Image 6-94



The Auto Image setup in the *Display setup* menu affect only Auto Image if it is launched via the RCU key or at automatic file creation.

Launching AutoImage via the menu involves complete checking of all parameters.



Auto Image can also be launched via the RCU with the dedicated AutoImage key.

6.8.3 Edit file

What can be done with the Edit file menu?

The Edit file menu makes it possible to change the settings of the file according to the real settings of the connected source. Consult the source specifications before entering the data.

How to edit a file?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image files* item
- 3. Press ↓ to Pull down the Image files menu
- 4. Use ↑ or ↓ to select *Edit* (image 6-95)
- 5. Press ENTER

A dialog box is displayed

6. Use \uparrow or \downarrow to select the desired file

Note: If in PiP mode the cursor is placed by default on the active file which has the focus.

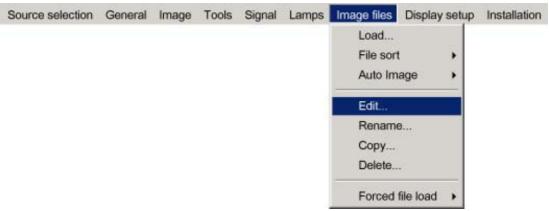
7. Press ENTER

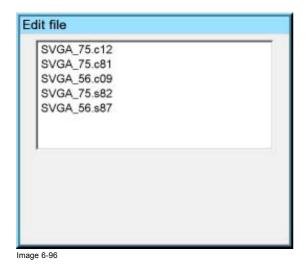
A dialog box is displayed (image 6-96)

8. Press ENTER

A dialog box is displayed (image 6-97)

Use ←or →, the numeric keys on the remote, or the keypad to edit and change the values, confirm with ENTER
 Note: greyed out fields can not be updated (total pixels)





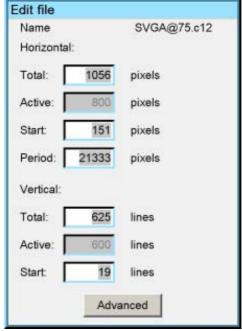


Image 6-97

Which items can be adjusted?

The following items can be adjusted :

- · Active horizontal pixels
- · Horizontal start in pixels
- · Horizontal period in ns
- Active vertical lines
- · Vertical start in lines

Advanced video settings

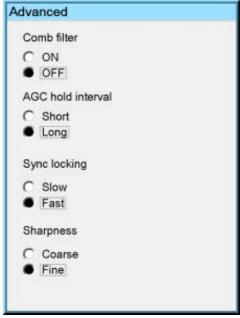


Image 6-98

The advanced button enables the advanced settings for a video source.

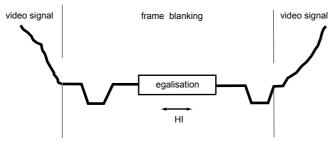


Image 6-99

HI AGC Hold interval

The Comb filter is by default enabled.

The AGC hold interval is the time interval in which the AGC is inhibited (AGC hold = no update in video amplitude measurement), the advanced parameter allows to choose a short or long hold interval.

A long AGC hold interval eliminates Macrovision® disturbances since the AGC is hold during a long interval, thus reducing the probability to encounter a Macrovision® pulse.

The sync locking setting is recommended for poor video signals (ex: poor TV signals).

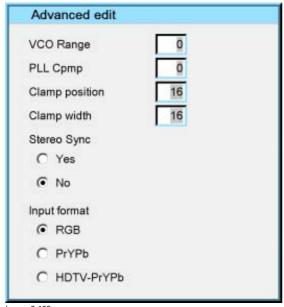
Sharpness adjustment can be chosen to be coarse or fine.

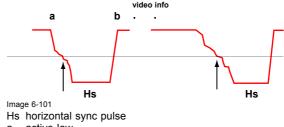


It is recommended to use the default values.

Advanced Data settings

The advanced button enables the advanced settings for a data source.





active low

active high

Image 6-100

The VCO range setting determines the frequency range of the VCO (Voltage Controlled Oscillator).

The Cpmp (Charge pump current) sets the low pass filter current.

Both VCO range & Cpmp are set by the image file, changing these settings is only indicated in for special purposes.

The horizontal sync polarity setting can be useful in case of a bad shaped edge, one can choose between the leading (active low) or trailing (active high) edge.

The input format settings are used to "tell more" about the signals connected on the BNC's, it completes the information in the source selection menu.

- RGB is selected by default and means that an RGB signal is connected to the BNC's
- PR/Y/PB must be selected whenever:

- a progressive signal (32 kHz frequency video signal) is connected to the BNC's (select the source with Data on BNC's in the Source selection menu).
- one wants (in PiP mode) to visualize the component video signal in a Data window hereby adding a video image in the PiP
- -HDTV-PR/Y/PB for high definition component video signals.



It is recommended to use the default values.

6.8.4 Rename file

How to rename a file?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image files* item
- 3. Press ↓ to Pull down the Image files menu
- 4. Use ↑ or ↓ to select *Rename* (image 6-102)
- 5. Press ENTER A dialog box is displayed (image 6-103)
- 6. Use ↑ or ↓ to select the desired file
- 7. Press ENTER

A text box is displayed (image 6-104)

Use \leftarrow or \rightarrow , \downarrow or \uparrow the numeric keys on the remote, or the keypad to edit and change the values, confirm with ENTER.



Image 6-102

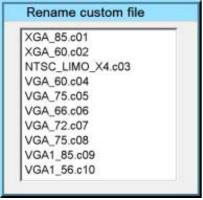


Image 6-103



Image 6-104

6.8.5 Copy

How to copy a file?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image files* item
- 3. Press ↓ to Pull down the Image files menu
- 4. Use ↑ or ↓ to select *copy* (image 6-105)
- Press ENTER A dialogbox is displayed (image 6-106)
- 6. Use \uparrow or \downarrow to select the desired file
- 7. Press ENTER

A text box is displayed (image 6-107)

Use \leftarrow or \rightarrow , \downarrow or \uparrow on the remote, or the keypad to enter the new name, confirm with **ENTER**.

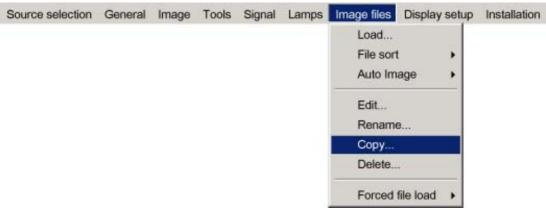


Image 6-105

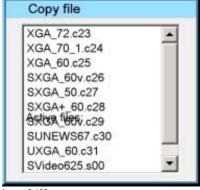




Image 6-106



If the AutoImage function does not succeed in finding a file and no file is loaded (load list is empty), which means that the source is not displayed, then use the *copy* function: Copy a standard file (.std) which is not too different of the source to display, then edit this file to get the best image.

6.8.6 Delete

How to delete a file?

- 1. Press **MENU** to activate the Tool bar
- 2. Press \rightarrow to select the *Image files* item
- 3. Press ↓ to Pull down the *Image files* menu
- 4. Use ↑ or ↓ to select *delete* (image 6-108)
- 5. Press ENTER

A dialog box is displayed (image 6-109)

6. Use ↑ or ↓ to select the desired file

7. Press ENTER

The selected file is deleted and is removed from the list



Image 6-108



Image 6-109

6.8.7 Forced file load

What can be done?

Forced file load allows to force or lock one particular custom file to be loaded for one particular input. This way one can guarantee that the same desired file is always used for a particular source.

For each layer (layer 1, layer 2, layer 3) we can enable or disable the forced file load. The specification for the file to be selected for each input on that layer is done via RS232.

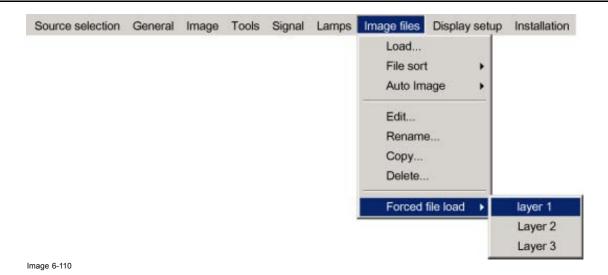


see the RS232 User Guide for more information on the Forced file load command to be sent.

How to set a file to be loaded?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Image files* item
- 3. Press ↓ to Pull down the Image files menu
- 4. Use ↑ or ↓ to select Forced file load
- 5. Press \rightarrow to open the menu (image 6-110)
- 6. Use ↑ or ↓ to select the desired layer
- 7. Press ENTER

Forced file load is activated for this layer (this is shown with a bullet)



6.9 Display Setup

Overview

- · Full screen representation
- Startup screen
- Textbox
- · Take screenshot
- · Menu bar position
- Status bar position
- Sliderbox position
- AutoImage Setup
- Blanking
- Soft Edge

6.9.1 Full screen representation

Purpose of the Full screen representation

The Full screen representation function forces to use the complete native resolution of the LCD panels independently of the native resolution of the source.

Note that the full screen representation does not preserve the aspect ratio of the source, i.e. when the aspect ratio of the active image is not the same as the projector (in this case 1920/1080 or 1.77:1), the image will end to be distorted (stretched or shrinked).

How to enable/disable the full screen representation?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Display setup* item
- 3. Press ↓ to Pull down the Display setup menu
- 4. Use ↑ or ↓ to select Full screen representation
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select ON or OFF
- 7. Press ENTER



The full screen representation will not guarantee the best image quality, therefore the Show native resolution has to be selected

The show native resolution function on the other hand forces to use the native resolution of the source.

The Full screen representation function overrules the show native resolution function.



The aspect ratio setting is greyed out when enabling the full screen representation.

6.9.2 Startup screen

What can be done?

When the startup screen is enabled, the identification screen is displayed for a few seconds at startup. This startup screen can also be disabled

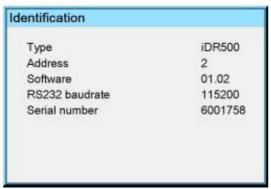


Image 6-111

How to enable/disable the Startup screen?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select the *Display setup* item
- 3. Press ↓ to Pull down the *Display setup* menu
- 4. Use ↑ or ↓ to select Startup screen
- 5. Press \rightarrow to pull down the menu
- 6. Use ↓ or ↑ to select the ON or OFF
- 7. Press ENTER

6.9.3 Textbox

What can be done?

The textbox function allows to display or not the different sliderboxes used for instance for picture settings (contrast,...), it also affects the source information windows (displayed in the right lower corner of the screen).

How to enable/disable the Textbox?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Display setup* item
- 3. Press ↓ to Pull down the *Display setup* menu
- 4. Use \uparrow or \downarrow to select *Textbox*
- 5. Press \rightarrow to pull down the menu
- 6. Use \downarrow or \uparrow to enable/disable the textbox
- 7. Press ENTER

6.9.4 Take screenshot

What can be done?

A screenshot can be taken from an active projected image. This screenshot is then saved in a 4 MB RAM and can be used as background.

Each new screenshot erases the previous logo therefore a warning message is displayed asking the user to confirm.

How to take a screenshot?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Display setup* item
- 3. Press ↓ to Pull down the *Display setup* menu
- 4. Use ↑ or ↓ to select Take screenshot
- 5. Press ENTER

A dialog box is displayed. Press yes to confirm. (image 6-112)

A text box shows the evolution of the operation. (image 6-113, image 6-114)



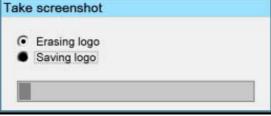


Image 6-112

Image 6-113



Image 6-114

6.9.5 Menu bar position

What can be done?

The menu toolbar can be centered vertically, the range being from top of the screen to the middle of the screen. This can be useful in applications where the top image content is not displayed.

How to center the menu?

- 1. Press MENU to activate the Toolbar
- 2. Press → to select the Display setup item
- 3. Press ↓ to Pull down the *Display setup* menu
- 4. Use ↑ or ↓ to select Menu bar position menu
- 5. Press ENTER
- 6. Use ↑ or ↓ to position the menu toolbar

6.9.6 Status bar position

What can be done?

The status bar (wizard menu) can be centered vertically, the range being from bottom of the screen to the middle of the screen. This can be useful in applications where the bottom image content is not displayed.

How to center the menu?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Display setup* item
- 3. Press ↓ to Pull down the *Display setup* menu
- 4. Use ↑ or ↓ to select Status bar position
- 5. Press ENTER
- 6. Use \uparrow or \downarrow to position the status bar

6.9.7 Sliderbox position

What can be done?

The sliderbox can be displayed anywhere on the screen, the position can be set in this menu.

How to reposition the sliderbox?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select the *Display setup* item
- 3. Press ↓ to Pull down the *Display setup* menu
- 4. Use ↑ or ↓ to select Sliderbox position
- 5. Press ENTER

A sliderbox is displayed. Use the 4 arrow keys to drag the box to the desired position. (image 6-115)



Image 6-115



There is a coarse and a fine adjustment of the position, use ENTER (when sliderbox is displayed) to switch between the two.

6.9.8 AutoImage Setup

What can be done?

Autoimage allows to detect automatically the characteristics of the source (total pixels per line,...) and uses this information to adapt the image to the LCD panels.

Autoimage can adapt the image based on following data:

- Total pixels per line
- · Start pixel
- Phase
- · Contrast/brightness levels



Autoimage works only for data signals.

How to set up AutoImage?

- 1. Press **MENU** to activate the Tool bar
- 2. Press \rightarrow to select the *Display setup* item
- 3. Press \downarrow to Pull down the *Display setup* menu
- 4. Use ↑ or ↓ to select AutoImage setup
- 5. Press ENTER

A dialog box is displayed.

(image 6-116)

6. Use the arrow keys to select the desired item and press **ENTER** to activate or disactivate the item.

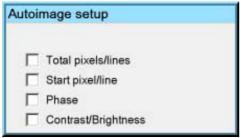


Image 6-116

How to perform AutoImage?

1. Press AutoImage on the RCU

A textbox showing a progress bar is displayed.



During the AUTOIMAGE measuring process the data source disappears temporarily (logo is displayed if background is set to logo)

6.9.9 **Blanking**

What can be done?

The image can be blanked in several ways:

- Top blanking
- Bottom blanking
- Left blanking
- Right blanking



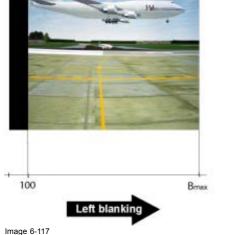




Image 6-117



Note that here the blanking is only done on the display i.e. the setting is not saved in the image file. in other words only one type of blanking (setting) can be done independently of the source.

How to blank the image?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select the *Display setup* item
- 3. Press ↓ to Pull down the menu
- 4. Use ↑ or ↓ to select Blanking
- 5. Press ENTER

A slider box is displayed (image 6-118)

6. Use \leftarrow or \rightarrow , the numeric keys on the remote, or the keypad to change the blanking.

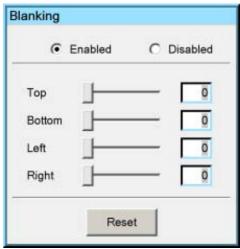


Image 6-118



Use the checkboxes to enable/disable the blanking Use the Reset key to reset the blanking values.



The logo is also affected by the blanking

6.9.10 Soft Edge

Overview

- Introduction
- Soft Edge overlap zone (horizontal Soft Edge)
- Soft Edge border adjustment
- · Black level of the images

6.9.10.1 Introduction

Why Soft Edge?

When working in a multichannel setup the projector and its Soft Edge possibilities allow an image blending that gives the appearance of a single view.

Picture with hard edge Picture without soft edge modulation Picture with soft edge modulation

Image 6-119 Why Soft Edge?

What is the Basic Principal of Soft Edge?

The principle of edge blending is achieved by linear modulation of the light output in the overlap zone so that the light output in that zone equals the light output of the rest of the image.

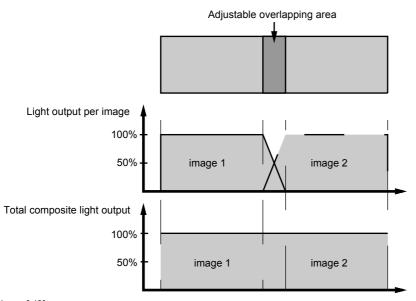
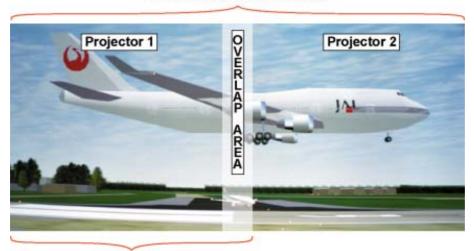


Image 6-120 Light modulation in Soft Edge

6.9.10.2 Soft Edge overlap zone (horizontal Soft Edge)

Definitions

Tot. horz. screen resolution



Horz. resolution projector

Image 6-121 Scenergix set up

Overlap: number of pixels that overlap

Horizontal resolution of 1 projector: 1400 for SXGA+ projectors.

Total horizontal screen resolution : [(horizontal resolution of 1 projector) x 2] minus overlap.

Horizontal Resolution source: number of active pixels of the source.

Adjustment of Active pixels (Pact) of the first projector

- 1. Go to File -> Edit menu of first projector.
- 2. Enter value for horizontal active (= Pact) as follows :
 Pact = [(Horz. resolution of 1 projector)/(Total horz. screen resolution)] x (horz. resolution source)
- 3. Horizontal start (= Pstart) remains the same.

Adjustment of Active pixels (Pact) of second projector

- 1. Go to File -> Edit menu of second projector.
- 2. Enter value for horizontal active (= Pact) as follows:
 Pact = [(Horz. resolution of 1 projector)/(Total horz. screen resolution)] x (horz. resolution source)
- 3. Horizontal start (= Pstart) = original start + [(Horz. resolution source) minus (newly calculated Pact)]

Example

Horizontal resolution source: 1600 pixels

horizontal resolution projector 1 & 2 : 1024 pixels

Overlap: 100 pixels

Total horizontal screen size in pixels: 1948 pixels

Pact projector 1 = [(1024 / 1948)] x 1600 = 841 pixels

Pact projector 2 = [(1024 / 1948)] x 1600 = 841 pixels

Pstart projector 2 = Pstart projector 1 + (1600 - 841)

6.9.10.3 Soft Edge border adjustment

What can be done with the Soft Edge border menu?

Within this menu the width of the blending zone is set up.

How to select a border?

1. Press **MENU** to activate the menu bar.

- 2. Press \rightarrow to select the *Display setup* item. (image 6-122)
- 3. Press ↓ to pull down the *Display setup* menu.
- 4. Use ↑ or ↓ to select Soft Edge.
- 5. Press \rightarrow to select the *Soft Edge* item.
- 6. Use ↑ or ↓ to select *Border*.
- 7. Press ENTER to select.

A dialog box will be displayed. The actual Soft Edge border will be displayed.

8. Use \uparrow or \downarrow to select the desired adjustment.

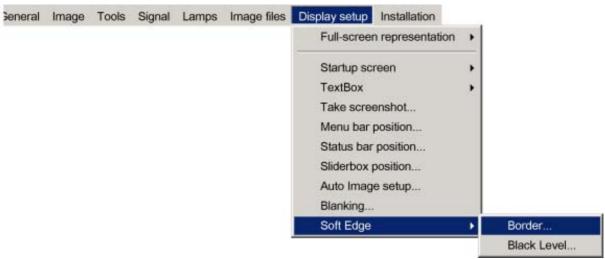


Image 6-122

Adjusting with the arrow keys.

When on an adjustment, use the → or ← key to move the border line to the desired position.
 The border line will move in the desired direction and the light output in the overlap area will be adapted to. (image 6-123)
 Set first the width of the first projector and repeat for the second one. (image 6-124, image 6-125)

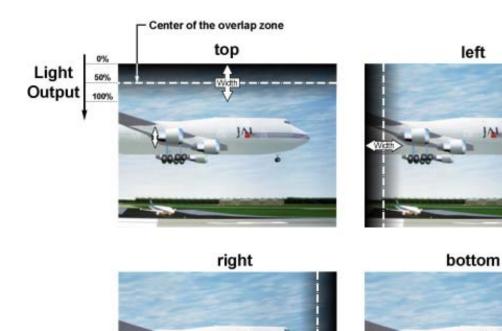


Image 6-123 Width selections

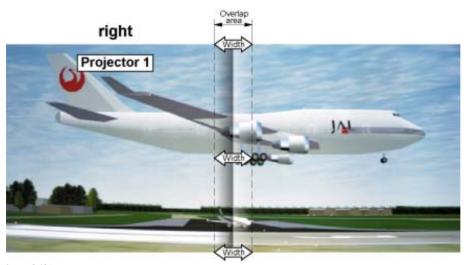


Image 6-124 Width set up for projector 1

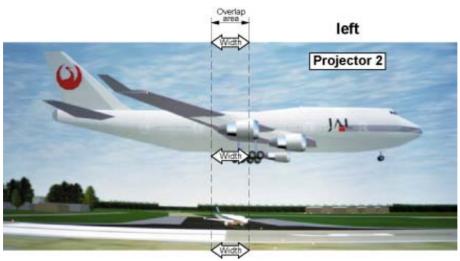


Image 6-125 Width set up for projector 2

Adjusting by entering the exact values.

- 1. When on an adjustable item, the input box background will be colored. Press ENTER.
 - The value will change to a 3 digit value and the first digit is selected.
- 2. Enter a value with the digit keys on the remote control.
 - The cursor jumps automatically to the next digit.
- 3. Press ENTER to activate the new value.



Use reset to return to the default settings.

6.9.10.4 Black level of the images

Why

For dark images, the overlap zone will be brighter than the rest of the images. Therefore we can rise the black level of the remaining image (excluding the overlap zone)

How to adjust

- 1. Press **MENU** to activate the menu bar.
- 2. Press → to select the *Display setup* item. (image 6-126)
- 3. Press \downarrow to pull down the *Display setup* menu.
- 4. Use ↑ or ↓ to select Soft Edge.
- 5. Press \rightarrow to select the Soft Edge item.
- 6. Use ↑ or ↓ to select Black level.
- 7. Press ENTER to select.

A dialog box will be displayed on a black level background.

Adjust the black level of area A until the black level of area A, B and C or equal (area C should be adjusted on the second projector). (image 6-127)

Use the up or down arrow key to select the adjustment (All, Red, Green or Blue)

Use the left or right arrow key to select the adjustment direction and speed.

Press ENTER to increment or decrement the value.

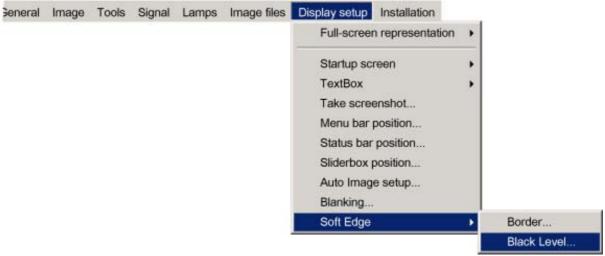
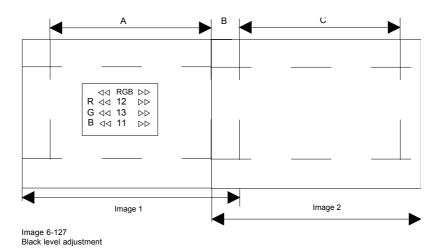


Image 6-126



6.10 Installation

Overview

- · Lens adjustments
- Security
- · Change password

6.10.1 Lens adjustments

What can be done?

Motorized lenses can be adjusted in the installation menu or via the dedicated keys on the remote.

The following parameters can be adjusted:

- Zoom
- Focus
- Shift (also for non motorized lenses)

How to Zoom/focus or shift?

- 1. Press **MENU** to activate the Toolbar
- 2. Press \rightarrow to select the *Installation*
- 3. Press ↓ to Pull down the *Installation* menu
- 4. Use ↑ or ↓ to select *Lens adjustment* (image 6-128)

5. Press ENTER

A textbox appears on the screen, follow the instructions. (image 6-129, image 6-130)

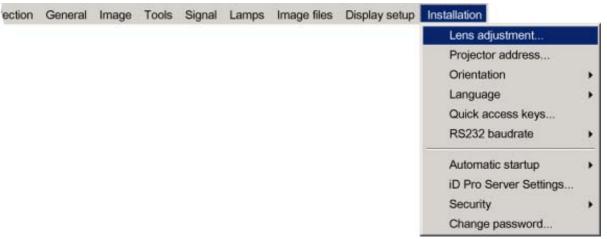
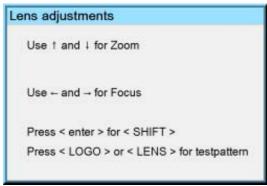


Image 6-128



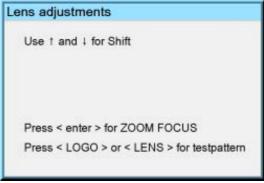


Image 6-129

Image 6-130

6.10.2 Security

What can be done?

A security function is implemented in the projector and allows a protection against theft.

A PIN code allows the user to lock the projector in case of wrong code entry.

The PIN code must be entered at each start up (Power ON), entering three times a wrong number triggers a wait cycle of 15 minutes, the second 3 wrong codes a wait cycle of 30 minutes, 1 hour, ...

The security mode can be enabled or disabled.

How to activate the security mode?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select the *installation* item
- 3. Press \downarrow to Pull down the menu
- 4. Use ↑ or ↓ to select Security (image 6-131)
- 5. Press \rightarrow to open the menu
- 6. Use ↑ or ↓ to select ON
- 7. Press **ENTER**

A dialog box is displayed (image 6-132)

8. Use the arrow keys to select YES and press ENTER to confirm

A dialog box is displayed

Enter your name, company name,... (this information is displayed in the identification menu) (image 6-133)

9. Press ACCEPT

A dialog box is displayed.

Enter the PIN code, and confirm it. (image 6-134)

An informative text box is then displayed. Press ENTER or BACK to escape. (image 6-135)

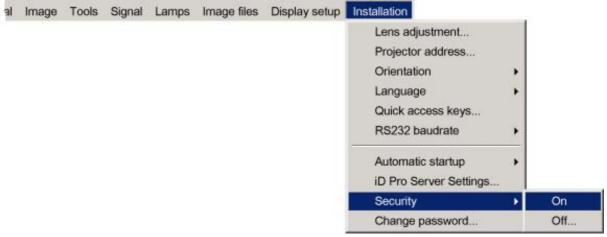


Image 6-131

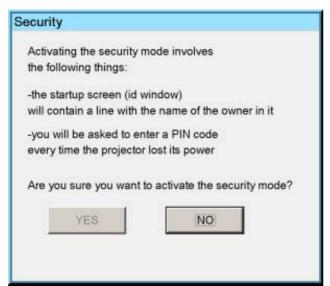


Image 6-132

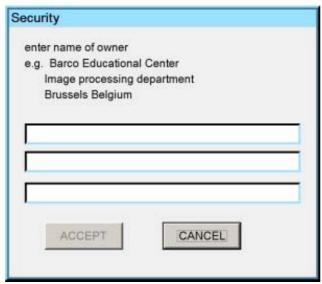




Image 6-134

Image 6-133

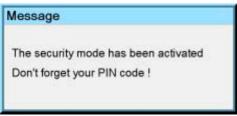


Image 6-135

How to disable the security mode?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the installation item
- 3. Press \downarrow to Pull down the menu
- 4. Use \uparrow or \downarrow to select Security
- 5. Press \rightarrow to open the menu
- 6. Use ↑ or ↓ to select OFF
- 7. Press ENTER

A dialog box is displayed

8. Enter your PIN code

The security mode is now disabled

6.10.3 Change password

How to change the password?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Installation* item
- 3. Press ↓ to Pull down the *Installation* menu
- 4. Use ↑ or ↓ to select *Change password* (image 6-136)
- 5. Press ENTER

A dialog box is displayed.

(image 6-137)

Use ← or → , the numeric keys on the remote , or the keypad to enter and confirm the new password.
 Each character is displayed as an asterisk.

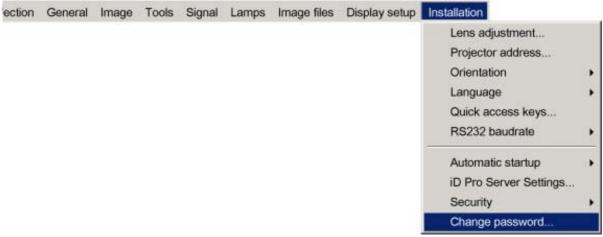


Image 6-136



Image 6-137



The new password is accepted if the new password and the confirmed password coincide.



If the password is forgotten contact a Barco authorized technician.

7. IQ NETWORK



LAN

Local Area Network



WAN

Wide Area Network

Overview

- · Network architecture
- Network functionality
- iQ Pro Server specifications
- Getting started
- Control
- Management & diagnostics
- Configuration
- DropZone
- The Web client

7.1 Network architecture



SBC

Single Board Computer,



GUI

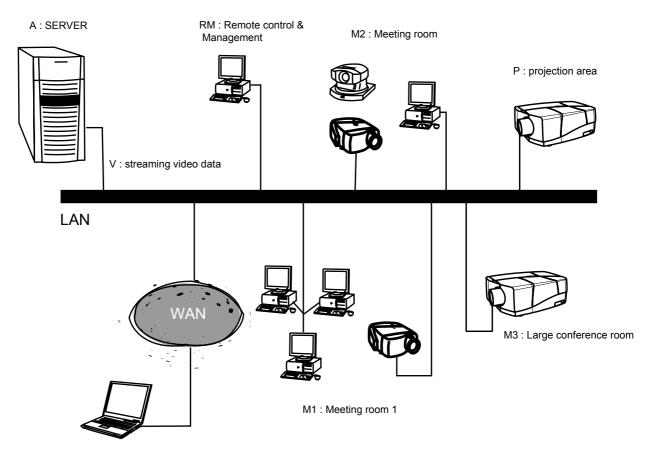
Graphic User Interface

Topology

The network centric projector (iCon and iQPro) uses an integrated PC (SBC) and can be connected to a LAN.

The projector performs the role of Server while each PC is declared as a Client within the system.

Each client PC has to be configured (projector IP address, ...), see "Configuring the client software"



R: remote meeting attendee

Image 7-1 Typical iQ Pro network architecture

A server

RM Remote Control and Management

M1 Meeting room 1

M2 Meeting room 2

M3 Large screen conference room

P Projection area

R Remote meeting attendee

V Streaming Video data



Wireless LAN (point-to-point) is also possible (using the PCMCIA connection on the projector) and complements the functionality of direct cabling.

7.2 Network functionality

What can be done?

The network functionality allows the projector to perform several network functions thanks to network features which are required in most corporate environments:

- Control & Management : wireless/wired (remote) control and monitoring of the projector(s) thanks to a user-friendly GUI (the Client software).
- Diagnostics: diagnostics through a user-friendly GUI and automatic E-mail sending.
- Easy file (MS PowerPoint,...) manipulation and projection using the DropZone interface.
- Remote control of the projector by allowing the desktop to be shared over the network (the DropZone interface).
- Streaming media: The projector's onboard computer is streaming video data ready, i.e. allowing the decoding of video streaming data coming from a server via the LAN.



The network centric projector may be configured in the same way as a standard PC to support :

- SNMP service : provides diagnostics, basic control via SNMP messaging
- Microsoft Exchange services: for scheduling of projector tasks.
- Web client : offers an alternative to the Client software through a user-friendly internet based interface (includes almost the same features as the Client software)

See the Appendix "General guidelines on Network configuration" for general guidelines on how to enable these services.

7.3 iQ Pro Server specifications

Specifications of the iQ Pro Server platform

- 1.2 GHz Pentium III processor ⁴
- 256 MB RAM
- 40 GB Hard Disk storage
- Microsoft XP Operating System
- · Barco Server Software for network communication between iQ Pro Server and clients

7.4 Getting started

Overview

- Connections
- · Installing the software
- · Start up of the BarcoReality SIM 5plus Server
- · Configuring the client software
- · Configuring the Server software



The installation of the iQ Pro in a Local Area Network must be done in the same way as the installation of a standard PC in that particular network meaning that the same rules and accepted practice should be respected.

The assistance of qualified IT personnel is advised.



CAUTION: Important!

A Virus protection program should be installed and kept up to date to prevent virus infections.



CAUTION: The maintenance of the Server must be done in the same way as a PC meaning that the same rules and accepted practice should be respected.

Backups should be taken on a regular basis.

In the same way virus updates should be done regularly.

Barco will not be held responsible for destroyed information in case of a hard disk breakdown or virus infection and has no obligation to pay for or reimburse for the cost of recovering data.

^{4.} the pentium III socket is upgradeable

7.4.1 Connections

Front plate (Layer 3) layout

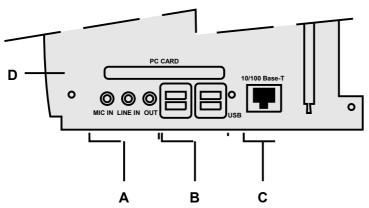


Image 7-2 iQ Pro front plate (network layer)

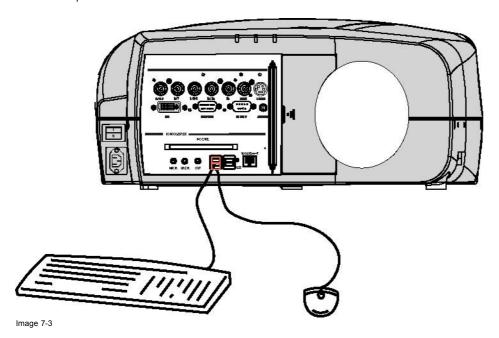
- A audio connections: mic input, line input, output
- B 4 x USB connection
- C RJ45 connector for network connection
- D PCMCIA slot

How to connect the Single Board Computer?

- 1. Use the RJ45 connector to connect the SBC to the installed network
- Use the USB ports to connect peripherals such as mouse, keyboard,... (image 7-3)
 Note: Keyboard access during pre-operating system boot (to access BIOS or F8 key to get operating system select menu) is only supported on the bottom USB input connector next to the Ethernet connector
- 3. Use the PCMCIA slot to connect a Wireless LAN card or other optional inputs like Bluetooth, Modem cards,... The slot is protected from dust by a slot door, open the slot door to insert a card.

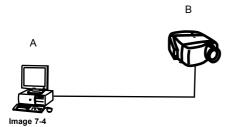
Note: recommended card type:

- -The card should be a type II card.
- -The card should be Windows™ XP compatible
- 4. Use the Audio connectors to connect an audio source or microphone, the output allows to use an external audio peripheral such as an amplifier etc.





Point to point configuration



In case of a temporary configuration (demo purposes) one can use the point to point configuration, the connection being done via RJ45 connections using a crossed UTP cable.

7.4.2 Installing the software



An Administrator password has been installed for security reasons (worm and virus protection):

Password: Barco (case sensitive!)

Necessary parts

- installation CD (delivered)
- PC

How to install the client software?

1. Install the client software from the CD (Setup file)

How to install the server software?

1. The server software is by default installed on the projector. if necessary, reinstall it from the CD.



The CD containing the server software and the client tools are delivered with the projector. They can always be downloaded from the secured PartnerZone Web site: https://secure.barco.com/presentation/

7.4.3 Start up of the BarcoReality SIM 5plus Server

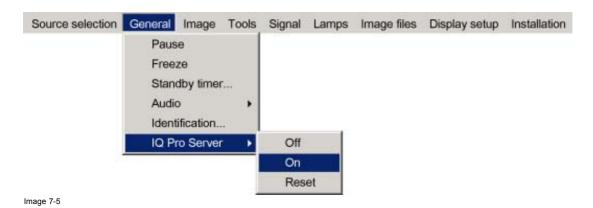
Starting up

There are 2 methods to start up the BarcoReality SIM 5plus Server

- Manual start up (via the General menu)
- Automatic startup at projector startup: this is done by defining the state of the BarcoReality SIM 5plus Server during a "Projector ON state" and a "Projector standby state".

Manual start up: How to start up/shut down/reset the BarcoReality SIM 5plus Server?

- 1. Press MENU to activate the Toolbar
- 2. Press → to select General
- 3. Press ↓ to Pull down the General menu
- 4. Use ↑ or ↓ to select iQ Pro Server
- 5. Press \rightarrow to open the menu
- 6. Use ↑ or ↓ to select *ON/OFF/Reset* (image 7-5)
- 7. Press ENTER





When resetting the PC the menuitems in the BarcoReality SIM 5plus Server menu are greyed out during a short period.

Projector Standby state setting

This setting defines what should happen with the BarcoReality SIM 5plus Server when the projector is switched to standby.

The BarcoReality SIM 5plus Server can stay in the ON state or it can be switched OFF

Projector On state setting

This setting defines what should happen with the BarcoReality SIM 5plus Server when the projector is switched on.

The BarcoReality SIM 5plus Server can stay OFF (switching on can then happen manually in the general menu) or it can be switched on (at the same time as the projector)

Automatic start up: How to set the automatic startup?

- 1. Press MENU to activate the Toolbar
- 2. Press \rightarrow to select Installation
- 3. Press ↓ to Pull down the menu
- 4. Use \uparrow or \downarrow to select BarcoReality SIM 5plus Server settings
- 5. Press ENTER
- 6. A dialogbox is displayed (image 7-6)
- 7. Select ON for the "Projector On state" setting

The BarcoReality SIM 5plus Server will now be automatically switched on at the next startup of the projector



Image 7-6



The BarcoReality SIM 5plus Server will be switched on but not necessarily selected by default, go to Source selection in the menu to select the iQ PC.

7.4.4 Configuring the client software



The same universal client interface is used for different network centric projectors (iQ, iD, iCon). The layout of the interface (position of the controls,...) is adapted after detection of the projector type. Some screenshots may not fully coincide with the reality.

How to start up the client software?

1. Start up the previously installed client program

The interface shows 3 tabs (upper tab control): Control, Diagnosis and Configuration

The active sub interface is the control sub screen (image 7-7)

2. Click on the upper menubar to select the desired sub interface



Image 7-7 Control interface



ΙP

Internet Protocol. The network layer of TCP/IP. Required for communication with the internet.

How to add a projector to the projector list

1. Click on the white arrow (image 7-8)

A menu is dropped down (image 7-9)

2. click on the + sign of the projector list

A dialog box is displayed (image 7-10)

3. Fill in the Name, the IP address (optional) and the Port number of TCP/IP connection **Note:** default port number = 9999

4. Fill in the alias

Tip: "Alias" is a custom name whereas "Name" is the name by which the projector is identified on the (corporate) network

5. Click OK to confirm or Cancel

The projector is now added to the list of projectors



Projector List 🗱 Network Projectors → mcad018 😟 😚 reawxpalmi 🗓 📦 reawxpjmor 😽 iqproxpe4 Ok Cancel Image 7-10 **Group List** + × 🗱 Projector Groups ⊕ 33 group 1 ⊕ 33 group 2

Image 7-9 projector list: contains a projector and a projector group sub list



Depending on the installed network (use of DHCP server or not), the IP address may be needed to be entered or not.

9999



For a point to point installation the projector's IP address must be entered manually. Check the operating system on the for the IP address, or contact your IT administrator.

How to add a projector group to the projector group list?

1. Click on the white arrow

A menu is displayed, image 7-9

2. Click on the + sign of the projector group list

A dialog box is displayed (image 7-11)

- 3. Fill in the group name
- 4. Click OK to confirm or Cancel

The group is now added to the list of groups



Image 7-11

How to add projectors to a group?

- 1. Click on the projector to be added in the projector list
- 2. Drag the projector down to the projector group.

The projector is added to the group.



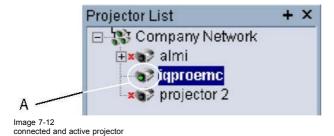
Adding a projector to a group can also be done by using the "Copy + Paste" method on the right mouse button menu

How to connect to a projector or group of projectors?

1. Double click on the projector or group of projectors

A green dot appears, indicating that the projector is present on the network and working properly (image 7-12)

The name of the projector or group is now displayed in the upper part of the screen and indicates that the communication has been set (image 7-13)



A connected and active projector



A connected and active projector



When connected to a group of projectors, some controls may be disabled.

In general, controls will only be selected if this is the status of all projectors in the group.

Sliders will be set to a particular value only if this is the same on all projectors in the group, otherwise they will be positioned centrally with a dash in the value box. When the slider is moved the box will show the new value and this value will be sent to all projectors in the group.

Labels such as Current Source in the general page will only be shown if the string value is the same on all projectors, otherwise a dash will be shown

The Target information block

The target information block displays the main characteristics of the connected projector or group of projectors.

This gives also an indication whether the communication setting has been successful or not.



Image 7-14

7.4.5 Configuring the Server software

Internal network connection

The internal connection (firmware connection) between the projector controller and the single board computer uses fixed IP addresses.

The IP address of the SBC can be found in control panel

• SBC: IP address = 192.168.42.51, subnet mask = 255.255.255.248



Projector Controller's IP address = 192.168.42.50



Image 7-15

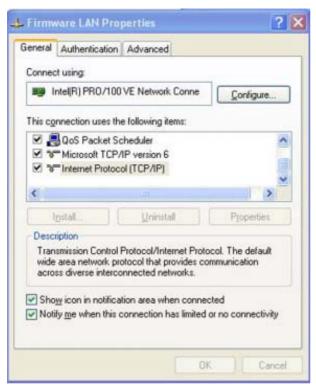


Image 7-16

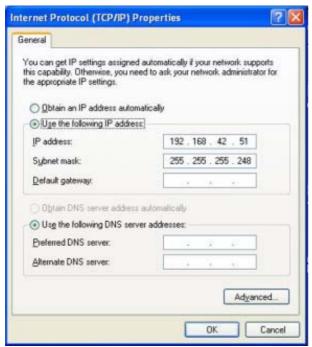


Image 7-17



CAUTION: Leave these IP addresses unchanged!

The server menu

The server menu can be opened by right clicking from the server tray icon

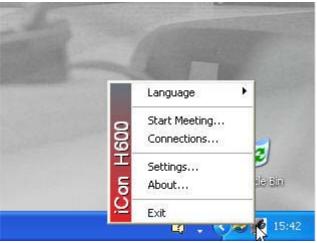


Image 7-18

Start Meetings control

The meeting control is started and positioned on the desktop, through out the meeting it will allow to:

- Accept requests interactively: a request for a desktop sharing from a client PC must be accepted on the iCon server, a dialog box is displayed on the iCon asking to accept or decline the desktop sharing request
- · Deny all requests : all request are denied
- · Accept all requests automatically: desktop sharing is always accepted at the iCon (server) without prompting for confirmation
- · Notify end of meeting at : allows to set a reminder at expected end time of the meeting



Image 7-19

How to configure the Server settings?

- 1. Go to the server icon in the lower task bar of the desktop and click the right mouse button.
 - A menu is displayed
- 2. Select Settings

A dialog box is displayed allowing to select different tabs

- Networking
- Dropzone, see Dropzone chapter
- Exchange

Networking settings

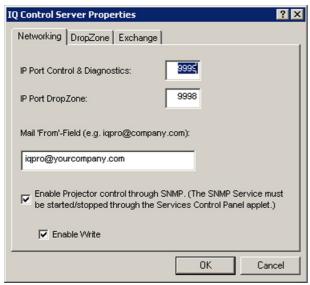


Image 7-20

- · Port settings: it is advised to leave these settings in their default value.
- Mail to field : see mail configuration in the client software
- SNMP enable: allows to enable the SNMP control of the projector.
 The Enable write option allows to enable the client to overwrite projector settings via SNMP.

Unchecking this option means that projector settings will only be read.

Exchange settings

This tab allows to fill in the exchange parameters to allow scheduling of projector tasks.

These parameters should be configured by your local IT administrator



Image 7-21

Miscellaneous settings

This tab allows following settings :

- · Enable password protection: when using a password, one must enter it when starting up the client interface
- Automatically open sole document ... : when using a USB stick, the document is automatically opened (only when one document present).



When using a password, the control via the previous V1.1 client version will not be possible therefore disable password protection. Note that using a previous client version in combination with V1.2 server is indicated with following text box:



Image 7-22 client-server soft incompatibility



Image 7-23



To check the server version open the about menu from the tray



Image 7-24

7.5 Control

Overview

- Description
- · How to use the control manager?
- General
- The source selection screen
- · The PiP screen
- · Image settings
- Advanced control

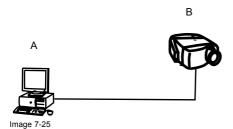
7.5.1 Description

What can be done?

The projector allows a software client (client PC) to communicate locally with the server and hereby control the projector's settings, in this case one has a **point to point** communication, image 7-25. The client PC or laptop communicating with the projector may be locally installed or may be remote, communication may then happen over a LAN, image 7-26

The projector performs the role of Server while the PC acts as a Client within the system.

The control and management client software incudes the possibility to create groups of projectors and that way control a whole fleet of projectors.



point to point iQ Pro network communication

A facility manager's desk B projector area

A: facility manager's desk

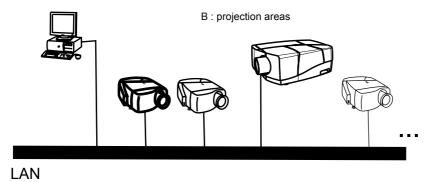


Image 7-26 control & management of network centric projector(s)

- A facility manager's desk
- B projector area

What can be controlled?

Almost every menu item can be controlled through the control manager

- standby on/off
- lamp mode
- · source selection
- switching effects
- · background setting
- · all PiP settings (layout, window)
- · Image settings
- · lens adjustments

The control manager

The control interface in the client software is divided into 5 subscreens, image 7-27:

- General
- · source selection
- PiP
- · image settings
- advanced



Image 7-27

The control interface: the general sub screen is active (see tool bar)

7.5.2 How to use the control manager?

How to use the control manager?

Choose the sub screen by clicking on the desired item on the tool bar in the upper part of the control interface.
 The active sub screen is indicated with a blue spot.

7.5.3 General

What can be done?

Basic controlling, monitoring and general parameter setting of the projector can be done in this screen, image 7-27.

- 3 buttons ON, STANDBY and PAUSE
- The target information part gives the main characteristics of the projector
- 2 buttons allow to switch between dual and the single lamp mode

How to change the general settings?

Click on the lamp mode button to select the desired mode
 A blue spot indicates the active mode

2. Click on one of the three buttons to start up, pause or put in standby the projector A green led indicates the status of the projector.

7.5.4 The source selection screen

What can be done?

- A source selection dialog box allows to visualize all the sources or only the detected sources.
- · 3 buttons to activate, freeze, pause and logo
- · selection of 12 different switching effects
- selection of 3 different backgrounds: logo, Blue, Black

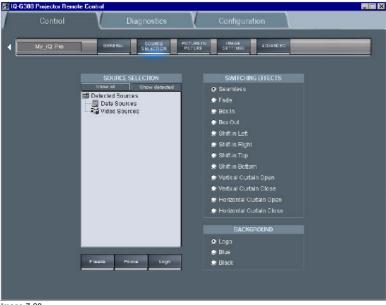


Image 7-28 The source selection screen

How to select a source?

1. Click on show all or show detected

Depending on the option (show all/detected) selected, a list is displayed.

In case $\mathit{show}\ \mathit{all}\ \mathit{is}\ \mathit{selected},\ \mathit{a}\ \mathit{list}\ \mathit{of}\ \mathit{all}\ \mathit{possible}\ \mathit{sources}\ \mathit{is}\ \mathit{displayed},\ \mathit{signal}$

presence is indicated with an orange dot.

When show detected is selected, all the detected sources are displayed with an orange dot.

2. Double click on the desired source

The selected source is now projected



In group mode there are only grey or green nodes, no orange (detected).

On start up, a green node will be shown when all projectors are playing the same source type.

Grey will be shown when some of the projectors are not showing the same source type.

If we double click on a grey node, it should go green as long as at least one of the projectors in the group can show the source.

7.5.5 The PiP screen



Following screenshots are taken for an iQPro projector. The layouts may be slightly different for an iCon (layout automatically adapted after projector type detection by the client).

What can be done?

The PiP tool allows to manage the PiP of the projector in a more user friendly way:

- a check box list allows to choose between 10 PiP layout (5 preset layouts and 5 personal layouts)
- several buttons allow operations on windows (add, remove) as well as on the PiP layouts (save, ...)
- a graphical screen allows easy altering of the PiP layout : re sizing, positioning of the different windows.

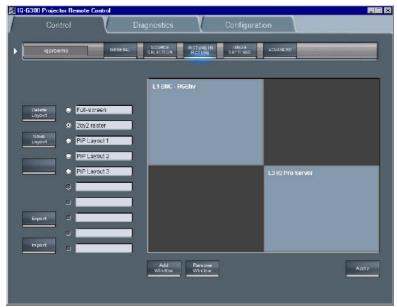


Image 7-29 PiP screen

How to perform operations on a PiP layout

As an example, let us choose a personal (non preset) layout, add a window, reposition the windows, and save the layout under a different name.

1. Click on one of the check boxes to choose a layout

Choose a personal layout (image 7-30)

The PiP screen (as well as the projected layout) is updated (image 7-31)

This layout contains one window being an RGBHV Data source

2. Click on the Add window button

Note: if the layout already contains 4 window, it will be impossible to add a new one. In that case a window is displayed, image 7-32

A dialog box is displayed showing the possible sources to be added. (image 7-33)

3. Select the source to be linked to the new window.

The window is added to the layout. (image 7-34)

4. When entering the PiP screen the cursor is replaced by a hand, Click on the window to be repositioned.

The window is surrounded by a white frame.

- 5. Drag the window to the desired position.
- 6. Place the cursor on one of the corners of the window to be re sized.

A double arrow is displayed.

7. Drag to re size.

Note: the window is re sized by keeping the same aspect ratio.





Image 7-31







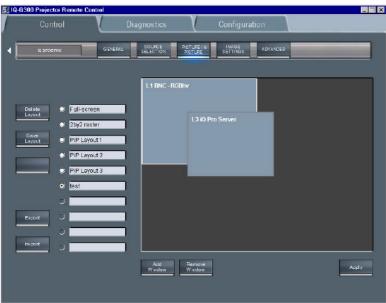


Image 7-34

Importing/exporting a layout

Every PiP layout can be exported and saved as backup on the network or on the hard disk of the Client PC. It can then be imported at any time.

How to import/export a layout?

- 1. Click on the Export button.
 - A dialog box is displayed. (image 7-35)
- 2. Browse to the desired location and fill in the filename.

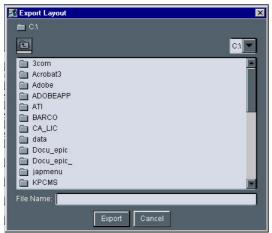


Image 7-35

How to import a layout?

- Click on the import button.
 A dialog box is displayed. (image 7-36)
- 2. Select the layout to be imported.



Image 7-36



For more information on Picture in Picture see the PiP chapter.

7.5.6 Image settings

What can be done?

- General settings
- Color temperature
- Geometry

General image settings

- 1. Click on Image settings menu in the tool bar to drop down the submenu (image 7-37)
- 2. Click on General

3. Slide the cursors to set the corresponding value (image 7-38)



Use the checkbox to define a coarse or a fine setting.



Click on the Filmmode button to enable or disable the filmmode.

Color temperature preset settings

- 1. Click on *Image settings* menu in the tool bar to drop down the submenu.
- 2. Click on color temp, image 7-37
- 3. Click on the desired preset color temperature. (image 7-39)



1. Click on the Custom button.

- **Custom color temperature setting**
 - A dialog box is displayed. (image 7-40)
- 2. Use the sliders to set the red and the blue color temperature.



Image 7-40

Geometry settings

- 1. Click on Image settings menu in the tool bar to drop down the submenu. (image 7-41)
- 2. Click on Geometry.

a dialog box is displayed. (image 7-42)

3. Use the buttons to zoom or pan.

Tip: Use the buttons to choose small, medium or large adjustment steps.

Each click changes the setting.

4. Click on the desired aspect ratio and resolution handling mode.



Image 7-41



Image 7-42

7.5.7 Advanced control

Overview

- Lens adjustments
- Options

7.5.7.1 Lens adjustments

How to adjust the lens?

- 1. Click on the Advanced menu in the tool bar to drop down the submenu
- 2. Click on lens adjustments (image 7-43)
- 3. Use the buttons to shift/zoom/focus the lens (image 7-44)

Tip: Use the buttons to choose small, medium or large adjustment steps.

Each click changes the setting.



Image 7-43 the Advanced control submenu



Image 7-44

7.5.7.2 Options

How to start up the options menu?

- 1. Click on the Advanced menu in the tool bar to drop down the submenu.
- 2. Click on Options .

See image 7-45.

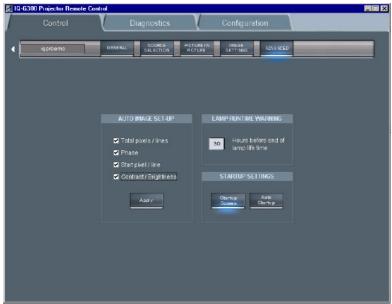


Image 7-45 The advanced Options screen

How to set up and perform AutoImage?

- 1. Check the boxes corresponding to the desired setting of AutoImage. (image 7-46)
- 2. Click on Apply to perform AutoImage.



Image 7-46

Lamp runtime warnings startup settings

- 1. Fill in the lamp runtime warning time. (image 7-47)
- 2. Click on startup screen to enable the startup screen.
- 3. Click on Auto Startup to enable automatic startup.



Image 7-47



A blue spot indicates that the function is enabled.

7.6 Management & diagnostics

7.6.1 Description

What can be done?

Diagnosis of a projector or a group of projectors is possible through on line monitoring. Mail services are also available and allow the client to be periodically informed about status errors and warnings concerning the different components of the projector.

What can be diagnosed/checked?

- · projector's general parameters as type, serial number, embedded SW version,...
- advanced diagnostics of the projector on board/component level: fpga, decoder,...
- user defined critical components (by E-mail feedback, see **E-mail configuration**)

7.6.2 Diagnostics manager

How to start up?

1. Click on diagnostics in the main tool bar

How to check the general diagnostics?

Click on *general* to view the general diagnostics
 See image 7-48.



Image 7-48 general diagnostics screen

How to check the advanced diagnostics?

 Click on advanced to view the advanced diagnostics See image 7-49.

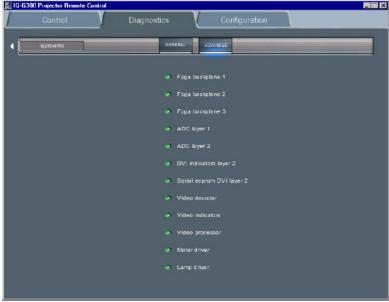


Image 7-49 advanced diagnostics screen: green = OK; red = error

7.7 Configuration

7.7.1 E-mail messaging

What can be done?

E-mail messaging allows the projector to generate automatically E-mail and send them to three configurable recipients.

The mail can be sent on a regular basis i.e. daily, weekly or monthly or can be triggered by warnings.

Basically two different configurations must be done:

- content
- timing

Content configuration

The content configuration allows to define the content of the E-mail

- general content
- advanced content

Timing configuration

E-mail sending can be set to be time dependent or status dependent

- daily: E-mail is sent every day, the time can be set
- · weekly: the day can be set with a calendar
- on warning : a E-mail is sent whenever a warning is generated by the projector

7.7.2 E-mail configuration

How to configure the E-mail?

- 1. Click on Configuration in the toolbar
- Click on *Mail Config* to open the mail configuration screen See image 7-50.
- 3. set the content by clicking the desired content (image 7-51)
- 4. set the timing by clicking the desired time interval **Note:** if the timing is chosen to be monthly, a calendar is displayed, click the days on which the E-mail should be sent



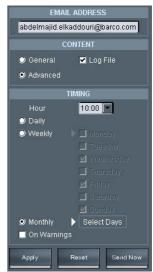


Image 7-51

Image 7-50 mail configuration screen

Mail "from" configuration

The "from" field of the received mails i.e. the name of the sender (in this case the iQ Pro server) can be configured in the server software

Therefore the E-mail address has to be filled in the Networking tab of the iQ Control Server properties dialogbox



Image 7-52

7.7.3 Projector Firmware Upgrade

What can be done?

The client software allows to do an upgrade of the projector's firmware.

The upgrade is done with a binary file (extension = ".bin") which is sent to the projector using the LAN connection.

Single projector as well as multiple projector (group) upgrade is possible

How to upgrade the firmware?

- 1. Click on Configuration in the toolbar
- Click on *Upgrade* to open the firmware upgrade screen See image 7-53.
- 3. Use the **Browse** key to select the desired **bin** file.

- 4. Press the **Upgrade** button on the browser to select the file to start the operation (image 7-54)
- 5. Press the **Upgrade** button on the upgrade screen to start the operation.

 The information screen will show the progress of the operation.

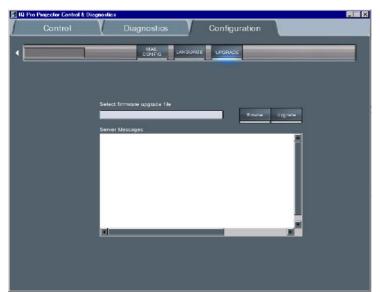


Image 7-53 upgrade interface

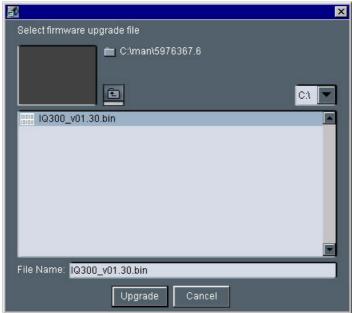


Image 7-54



If the download doesn't succeed please contact Barco

7.8 DropZone

7.8.1 Dropzone tools

What can be done?

The dropzone interface allows the user to manage (launch, store,...) presentation files from a local desktop.



Image 7-55 the DropZone interface

7.8.2 Start up

Start up

To start using the DropZone one must define the server (projector/display) to connect to. Several situations are possible.

- The projector/display to connect to has not yet been declared in the DropZone interface, in that case the projector/display has
 to be added to the DropZone list using the Add function.
- 2. The projector/display to connect to has already been declared in the DropZone, one must then just selected it from the list. In case the projector/display name is not known, there is a possibility to select the projector. by its location (only if the location has been specified).

How to open the installation menu?

Click on the arrow to pull down the installation menu. (image 7-56)
 See image 7-57.

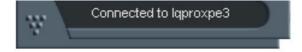


Image 7-56



Image 7-57 installation menu

How to add a projector to the list?

- 1. Click on the three suspension points to open the projector selection dialog box. (image 7-58)
- 2. Click on the Add button.
 - A dialogbox is displayed. (image 7-59)
- 3. Enter the projector name or browse the network.
- 4. Click on OK.
- 5. Enter the Location (optional).
- 6. Click on Connect.

Following message is displayed: "Connected to ctorname..."



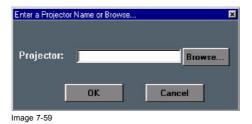


Image 7-58

How to select an existing projector by its name?

- 1. Click on the three suspension points to open the projector selection dialog box, image 7-58
- Open the listbox and select the projector. (image 7-60) the location will also be filled (if it has been entered previously).
- 3. Click on Connect.

Following message is displayed: "Connected to ctorname..."

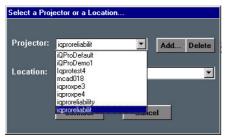


Image 7-60

How to select an existing projector by its location?

Can be useful when the projector name is not known.

- 1. Click on the three suspension points to open the projector selection dialog box, image 7-58
- 2. Open the listbox and select the location. (image 7-61)

The projector name is filled in.

3. Click on Connect.

Following message is displayed: "Connected to ctorname..."



Image 7-61



This is only possible if the location has been filled, the default value for location being "<New Location>"



If the projector is not found following message will be displayed : "Host not found" $\,$

If the projector is found but unable to respond (projector disconnected from the network, server software not running, ...) following message will be displayed: "Host found, but server inactive"

7.8.3 File dropping/launching



Only the Microsoft viewers (PPT, Word, Excel,...) are installed on the projector.

File dropping

Dropping a file means sending it to the projector using the DropZone interface.

The projector can then react in different ways depending on the drop mode selected :

- launch file
- · launch file and share
- · store file on the projector

File launching

Launch files: a file stored on the projector (server) or on the network can be accessed from a local PC (via the network) or from the projector itself. Launching a file means "sending and starting up" a file (using the required software).

A PowerPoint file can be launched on your PC and projected in another place (by default only the PPT viewer is installed on the projector).



for iQ only: The file will only be projected if the "iQ PC" is selected in the source selection.

How to set the drop mode?

- 1. Open the DropZone interface.
- 2. Click on the arrow to pull down the installation menu.
- Click on the three suspension points access the drop mode dialog box,image 7-57 See image 7-62.
- 4. Click on one of the three modes.

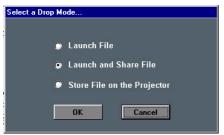


Image 7-62

How to drop a file using the drag method?

- 1. Drag the file into the drop window. (image 7-63)
 - The window opens and shows now the projector. (image 7-64)
- release the mouse button.The projector will then process the file according to the setting of the drop mode.





Image 7-63

Image 7-64

How to drop a file using the Open dialog box ?



1. Click on the upper button.

A browser is displayed. Choose a file to send to the projector.

The projector will then process the file according to the setting of the drop mode.

What to do with the launched files once disconnected?

The previously dropped files are placed in a local directly on the server, one may choose to delete them or not.

- 1. Click on the arrow to pull down the installation menu.
- 2. Click on the Options button.

A dialog box is displayed. (image 7-65)

3. Check the box to destroy the launched files once disconnected.

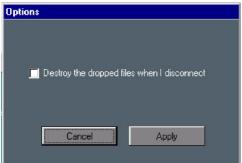


Image 7-65

7.8.4 Open remotely a file on the projector

How to open a file on the projector?



1. Click on the lower button of the $\ensuremath{\mathsf{DropZone}}$ interface

A browser is displayed. Select the file to be projected.



for iQ only: The file will only be projected if the "iQ PC" is selected in the source selection.

7.8.5 Remote desktop sharing (virtual meeting)

What can be done?

The remote desktop sharing in the DropZone allows to visualize the projected image i.e. the desktop of the projector PC on a local PC.

Besides **Desktop sharing** one can take the **Control** (mouse and keyboard control) over a presentation (using NetmeetingTM). The control over the presentation can be taken or passed at any time.

The configuration consisting of several remote or local meeting participants sharing the same information content is called a **virtual meeting**.

In this **virtual meeting** each meeting participant can participate to the meeting either in a passive way, by following the meeting on his local desktop (remote desktop sharing), or in an active way by controlling the server's desktop (mouse and keyboard).

Control over the desktop can be requested, forwarded or released.

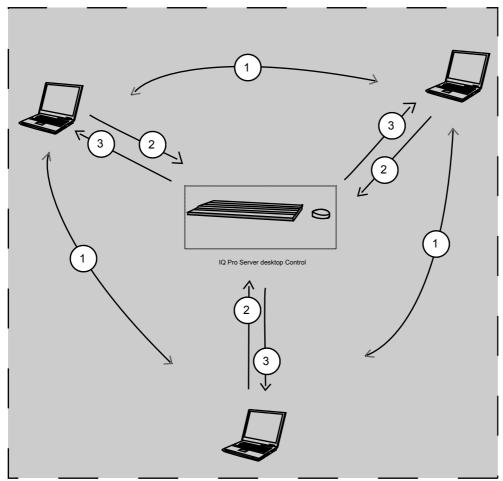


Image 7-66 Virtual Meeting

- forward control
- 2 release control 3 request control

How to perform remote desktop sharing?

1. Click on the middle button



The middle button indicates the activation of the remote

The desktop is displayed on the local PC monitor. (image 7-67)

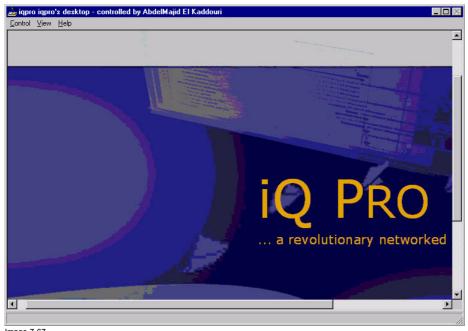


Image 7-67 remote desktop sharing in case of a PowerPoint™ presentation

How to take (mouse and keyboard)Control over the desktop?

Click on the Control menu
 The Control menu is displayed (image 7-68)

2. Select the Request Control item

The desktop can now be remote controlled.

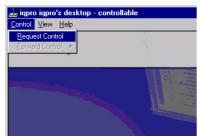


Image 7-68



The control over the desktop is now done by the local PC. However, the user can at any time decide to release or forward the control to someone else.

How to release control over the desktop?

1. Click on the Control menu

The Control menu is displayed (image 7-69)

2. Select the Release Control item

The desktop remote control can now be requested by someone else.

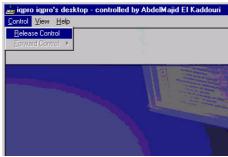


Image 7-69

How to forward control over the desktop?

1. Click on the Control menu

The Control menu is displayed (image 7-70)

2. Select the Forward Control item

A pop up menu shows the meeting participants i.e. the users which are connected to the server and which participate to the **Remote sharing** of the desktop.

3. Select the meeting participant

The control is transferred and the user which has the control is know indicated in the title bar.

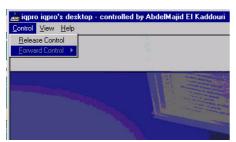


Image 7-70

7.8.6 DropZone settings

What can be done?

The Server settings on the Projector allow to configure the DropZone in several ways:

- Disallow new meeting participants: New meeting participants will not be able to request desktop sharing or desktop control.
- Disallow Launch file: Launching a file with the DropZone will be impossible when activating this setting, hereby preventing undesired content to be projected during a meeting.
- · Enable/disable desktop sharing at startup or logon.

How to setup the DropZone?

- Go to the server icon in the lower task bar of the server desktop and Click the right mouse button.
 A menu is displayed (image 7-71)
- 2. Select Settings
- 3. Select the DropZone tab (image 7-72)
- 4. Check the desired settings



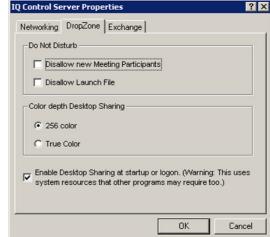


Image 7-72



Choosing True color as color depth setting will slow down the communication.



It is advised to leave the other Server properties as they are. If necessary Contact your IT administrator.

7.9 The Web client

Web based functionality

The aim of the web services is to allow each network client within the LAN environment to browse via its internet browser to the web client.

This may be seen as an alternative to the client software since the main control & diagnostic tools are also present. Its advantage resides in the fact that no software has to be installed on the local PC, the internet takes while the html page generation is done locally on the server.

How to access the web client via the internet browser?

To access the web client, the http link has to be filled in on the client's internet browser.

This http link contains the name of the projector/display i.e. the name under which it is identified within the LAN.

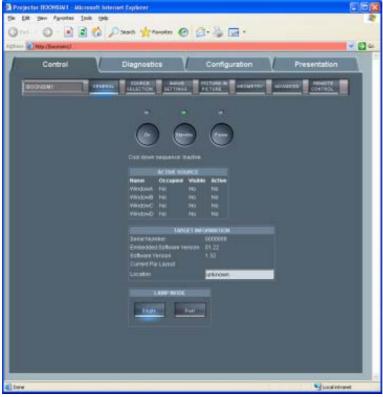


Image 7-73 Web interface

What can be done?

The possibilities are mainly the same as on the client software.

The web interface allows a user friendly way to manage the projector/display, its use being straightforward and similar to the client interface (ref).

Requirements for the use of the Web client



Some components have to be installed or enabled on your local (client) operating system to allow access to the Web client.

See the Appendix " General guidelines on network configuration" for general guidelines on how to enable these services. .



The minimal server software version should be V1.10 to allow the use of the Web client.

8. GENERAL GUIDELINES ON NETWORK CONFIGURATION

Overview

- General Network
- · The Internet and Web services



The installation of the iQ Pro in a Local Area Network must be done in the same way as the installation of a standard PC in that particular network meaning that the same rules and accepted practice should be respected.

The assistance of qualified IT personnel is advised.

8.1 General Network



An Administrator password has been installed for security reasons (worm and virus protection):

Password: Barco (case sensitive!)

Microsoft NT Domain

To enable access to your network resources, the iQ Pro must be a member of your NT Domain.

This can be configured in the Control Panel, under "System", in the "Computer Name" tab, under the button "Network ID". You'll need some help from the Network Administrator, since you need special rights to do this.

TCP/IP

The iQ Pro uses TCP/IP networking, so it needs the IP address, network mask, broadcast address, gateway, dns, wins, etc. to be configured. This can be done in the Control Panel, under "Network Connections". This can however be configured automatically, if your network uses DHCP.

8.2 The Internet and Web services

Internet access

If you want to access the Internet from the iQ Pro, and the projector is located behind a firewall, you will also need to configure the proxy to use. This can be done in the Control Panel, under "Internet Options", in the tab "Connections", under the button "LAN Settings".

iQ Pro Web services

To use the iQ Pro web client, you might need to change the "LAN Settings" on your local computer

If the client thinks the projector is on the Internet, and tries to connect to it through the proxy, you can turn on the "Bypass proxy server for local addresses" feature, or add the projector to the Exceptions list under the "Advanced" button.

The "Internet Information Services(IIS)" component has to be installed on the operating system.

SNMP

To enable management via the IQProSNMP Agent, you must enable the SNMP system service, and configure the communities accordingly

This can be done in the Control Panel, under Administrative Tools, in the Services, under the entry "Management and Monitoring tools". You may also need to enable SNMP in the iQ Pro Control Server in de suystem tray, see image below.





Image 8-2 server settings dialog box



For more info, see "SNMP services", page 155

Microsoft Exchange and Outlook

To enable control via the Microsoft Exchange integration, you need to install, enable and configure the IQProEXCH module.

To enable control from Microsoft Outlook, you need to install, enable and configure the IQProEXCH module, and install an Outlook Form on the Exchange Server in your network.



For more info, see "Exchange", page 147

9. EXCHANGE

Introduction

Some parameters values are installation dependent, and are shown here as an example.

You may need assistance from you network administrator, IT Manager or MIS helpdesk to obtain the settings or to configure the projector for you, since this is a task description targeted to 'Administrators' and needs knowledge and/or permissions normally held by those persons.

It is advised that you first try to follow the procedure to obtain a working setup, before changing the settings for conforming to your local security requirements.

Use of this software requires a working Microsoft Exchange server installed somewhere in your corporate network.

9.1 Exchange Installation

9.1.1 Installation procedure

Creating a user account and mailbox

1. Create a user account in your NT Domain (on the projector).

The service will use this account to log on to the domain, and as credentials to authenticate to Microsoft

Exchange to read the entries in the Calendar folder of the Mailbox.

Username: iqpro Domain: BARCO Password: pwiqpro

2. Create a Mailbox for the projector's account on the Microsoft Exchange Server (on your LAN).

The NT Domain user created in step 1 should have read access to this Mailbox.

Server: "BARCOEXCHSRV" Mailbox: "Projector, IQPRO" User: BARCO\iqpro

Installing and configuring Microsoft Outlook (on the projector)

1. Install Microsoft Outlook on the Projector.

Note: To be able to access Microsoft Exchange, you need a Client Access License.

Once you have one of those, you also have a license to Microsoft Outlook.

Refer to the following URL for more information: http://www.microsoft.com/resources/sam/licensing/cal_guide/exchange.asp

Tip: Outlook can be installed from the Microsoft Exchange Server CDROM or from a Microsoft Office Suite Installation

CDROM.

Since the IQ Pro has no CDROM drive, you may need to use a CDROM drive shared from a PC in the network.

Alternatively, you could use a USB CDROM drive.

2. Make sure the projector is part of the domain

Tip: This can be done in Control Panel->System->Computer Name->Change

3. Log in on the projector as the user

User: iqpro Domain: BARCO Password: pwiqpro

Tip: If the user cannot log on, the Local Administrator should add the right "Log on locally" for the user.

This must be configured in Start->Control Panel->Administrative Tools->Local Security Policy

4. Configure Outlook

Profile Name: "MS Exchange Settings"

This is what the wizard proposes by default, and what is used in this document.

Default Mail Client: ves

Note: Make sure that MS Outlook is the default Mail Client for this account.

You can do this afterwards from this configuration page: Start->Control Panel->Internet

Options->Programs->Email For more information, refer to :

http://www.microsoft.com/mspress/troubleshooting/outlook/LS/101801.asp

Enabling the account

1. Log on to the projector as an Administrator for the next steps.

For security reasons, you will probably not want to make the projector account part of one of the administrator groups.

- 2. Enable the account to be used by the "iQ Pro Exchange Integration" service
- In the Tree of the "Local Security Settings" application, navigate to Security Settings->Local Policies->User Right Assignment.
- 4. In the List, edit the "Log on as a service", and add the account, in the example "BARCO\iqpro".

Installing and configuring the iQProEXCH service

Step 1,2,3 refers to the manual installation. One can use the SETUP.EXE program instead.

- 1. Copy the file IQProEXCH.EXE to (eg.) C:\Program Files\BARCO\iQ Pro Server
- 2. Open a command line, and go to the that directory
- 3. Type the following command IQProEXCH /Service
- To configure, right click the "IQ Pro Server" tray icon, and go to the tab "Exchange" Enter the credentials (image 9-1, image 9-2)
- 5. To enable the "IQProEXCH" service go to Control Panel->Administrative Tools->Services->IQPro Exchange go to the TAB "General Startup" and Type: Automatic Make the service use the correct account TAB Log On Select "Local System Account" Check "Allow service to interact with desktop"
- 6. Start the service, or reboot the projector.

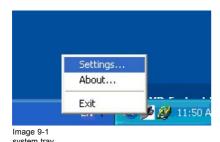




Image 9-2 server exchange tab



You should now be able to schedule commands from a Microsoft Exchange client such as Outlook running on any computer on the local network, provided you have the necessary permissions on the Calendar in the projector mailbox.

9.1.2 Troubleshooting



The file C:\Program Files\BARCO\IQ Pro Server\IQProEXCH.log and the "Event Log" may contain helpful information to diagnose what's going wrong

What can go wrong and what to do?

- The log file contains "Logon failure: unknown user name or bad password" Check Username, Password and Domain in Control Server/Exchange
- The log file contains "Logon failure: the user has not been granted the requested logon type at this computer."
 The user account must be given the "Log on as a service" permission. This is done in Start/Control Panel/Administrative Tools/ Local Security Settings/Security Settings/Local Policies/User Right

Assignment. In the list, add the user to the entry "Log on as a service"

- 3. The log file contains "Could not log on with Profile 'MS Exchange Settings'" Make sure the profile exists. To check this, log in to the projector as the user (BARCO\iqpro), as the profile should be owned by the projector account, and Outlook-profiles are per-account. Start/Control Panel/Mail
- 4. The user cannot log on to the projector. The Administrator should add the right "Log on locally" for the user. This must be configured in the Start/Control Panel/Administrative Tools/Local Security Policy In the list, add the user to the entry "Log on as a service"
- 5. When trying to start the service, the projector beeps, and the service stays in the 'starting' state
 This happens when the service tries to display an error in a popup, but cannot access the desktop. Control
 Panel/Administrative Tools/Services/IQPro Exchange
 Check "Allow service to interact with desktop"
 You may need to end the process 'IQProEXCH' from the task manager.
- 6. The commands are not executed at the right time Check the time of the computer and the timezone Start/Control Panel/Date and Time/Timezone
- 7. An Outlook dialog box is displayed stating that there is no default mail client. Make sure that MS Outlook is the default Mail Client for this account. You can do this from this configuration page: Start/Control Panel/Internet Options/Programs/Email You may need to do this as administrator, since the service is started as 'Local System' account. Tip: For more information, refer to http://www.microsoft.com/mspress/troubleshooting/outlook/LS/101801.asp

9.2 Exchange Integration

Introduction

The projector must be configured to connect to a mailbox on a Microsoft Exchange server in the network, which is dedicated to the projector, and to which of course the projector has rights to connect to.

The commands should be put in the SUBJECT of an appointment in the Exchange Calendar of the projector. The Start Time and End Time of the appointments are used for timing info. The other fields (location, categories, body, ...) are not used by the software, and thus can be used to store extra information for the USERS of the projector mailbox.

9.2.1 Command

How are the commands build up?

· Command filename/filepath

The parameter **filename** is a filename relative to the "Receive" directory of the iQ Pro Control Server, which, in a default installation, would typically be the local folder "C:\Documents and Settings\All Users\Received" The parameter **filepath** is an absolute path to a file

The commands should be put in the SUBJECT of an appointment in the Exchange Calendar of the projector. This is a mailbox on a Microsoft Exchange server in the network, which is dedicated to the projector, and to which of course the projector has rights to connect to.



The command and the filename are separated by a space.

Overview of the commands

- ON
- STANDBY
- PAUSE
- PAUSE ON
- PAUSE OFF
- LOGO
- LOGO ON
- LOGO OFF
- SWITCH SOURCE
- SWITCH LAYOUT
- LAUNCH ATTACHMENT
- STORE ATTACHMENT
- STORE filename
- STORE FILE filepath
- · LAUNCH filename
- · LAUNCH FILE filepath
- DELETE filename
- DELETE FILE filepath

ON, STANDBY

The projector is put in the specified state at the beginning of this event. Beware that if the SBC (Single Board Computer) is to be powered-down during STANDBY, that further events will not be processed, since the integration runs on that SBC.

PAUSE, LOGO

The projector is put in the specified state at the beginning of this event, and the state is undone at the end of this event. o A parameter ON or OFF can be specified to choose between the actions. This action will then be executed at the beginning. So "PAUSE from 12:00 to 13:00" is equivalent to "PAUSE ON at 12:00" + "PAUSE OFF at 13:00"

SWITCH SOURCE, SWITCH LAYOUT

The projector switches source or layout at the beginning of this event.

LAUNCH ATTACHMENT

The attachment is saved at the beginning of this event. Then the associated application is started. o At the end of the event, the application is killed. This can not be guaranteed if the application was already running on the projector. For example, if a web page is being displayed, and a second one is launched, the application is not started, but the original browser displays the page. In this case the second event can not control the browser. This is a limitation of the Windows platform.

STORE ATTACHMENT

The attachment is saved at the beginning of this event. The name of the attachment is used and the file is placed in the Receive folder.

STORE filename

The attachment is saved at the beginning of this event. The name filename is used and the file is placed in the Receive folder. For example "STORE MYFILE.PPS" will save the attached file to "C:\Documents and Settings\All Users\Received\MYFILE.PPS"

STORE FILE filepath

The attachment is saved at the beginning of this event. The path filepath is used as absolute filename. For example, the command "STORE FILE C:\My Videos\MYFILE.AVI" will store the attachment as C:\My Videos\MYFILE.AVI. This of course if permissions are correct and the directory C:\My Videos exists

DELETE filename

The file with name filename is deleted from the receive folder. For example "DELETE MYFILE.PPS" will delete "C:\Documents and Settings\All Users\Received\MYFILE.PPS"

DELETE FILE filepath

The file with absolute name filepath is deleted. For example, the command "DELETE FILE C:\My Videos\MYFILE.AVI" will store the attachment as C:\My Videos\MYFILE.AVI.

Drop down list

Besides the above commands some predefined commands can be selected from a drop down list in the iQPro tab.



Image 9-3

9.2.2 Example

Schedule projector tasks in Microsoft Outlook 2000

following tasks are scheduled:

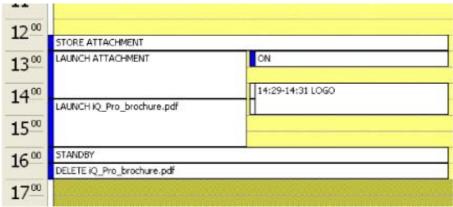


Image 9-4

- 1. store attachment at 12:30 (The attached file is iQ_Pro_brochure.pdf)
- 2. turn the projector on at 13:00 and launch a different attached file
- 3. show the logo from 14:29 to 14:31 to hide the killing of the application and the starting of the PDF Viewer
- 4. at 14:30, lauch the PDF file that was stored in step 1 5
- 5. kill the application and put the projector in standby at 16:00
- 6. delete the PDF file that was stored in step 1

9.2.3 Microsoft Outlook Integration

Adding Outlook forms

To make things easier for users, you can install an Outlook Form that adds a tab called "iQ Pro" to the appointment. The form contains the most-used commands in easy-to use drop-down lists. It looks as follows:

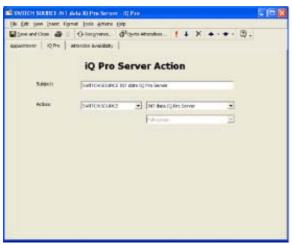


Image 9-5

The form contains the functionality that a normal user should be able to use without consulting the documentation.

The attachments, date and time fields must be edited in the "Appointment" tab.

Choosing items from the drop-down boxes fills in the subject.

By default, the layouts "Full-screen" and "2by2 raster" are defined in the form.

If you add layouts on the projector(s) or change the defaults, the user must type the name of the layout in the subject.

The form can be modified to make things easier for users, one can also add the defined layouts to the drop-down list. This must be done from Outlook, in the menu "Tools->Forms->Design This Form"

Organizational Forms



The administrator should install Organizational Forms on the Exchange Server in the "Organizational Forms" library.

Default form

Now the form still needs to be set as a default for creating new items. When returning to the "Forms" tab in the "Calendar Properties" you should now see the "iQ Pro" template installed. Now go to the "General" tab and select the template as default for posting to the folder.

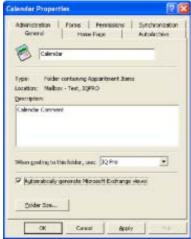


Image 9-6

If the form was installed as an "Organizational Form", you need to select the "Forms..." entry, which will display the "Choose Form" dialog,

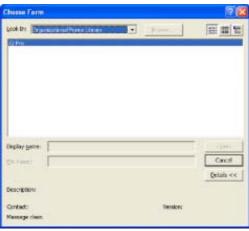


Image 9-7

9.2.4 Folder form

Folder form

Alternatively, the form can be installed for the Calendar folder only, by following the procedure described below

How to configure a folder form

- 1. In outlook, right-click on the "Calendar" icon in the "Outlook Shortcuts" tab in the "Outlook Bar" to open the "Properties" page, while logged-on as the projector (Or display the "Folder List", and right-click the "Calendar" folder to open the "Properties" page).
- 2. In the "Calendar Properties" dialog, go to the "Forms" tab, and click the "Manage..." button. (image 9-8)
- 3. On the "Forms Manager" dialog, click the "Install..." button and select the file "iQ Pro.fdm". (image 9-9)
- 4. When returning to the "Forms" tab in the "Calendar Properties" you should now see the "iQ Pro" template installed. Now go to the "General" tab and select the template as default for posting to the folder. (image 9-10)





Image 9-8

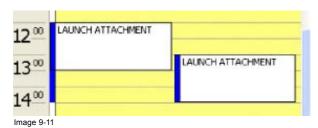


Image 9-10

9.2.5 Limitations and known "problems"

Overlapping tasks

When launching 2 attachments with overlapping times it is possible for the application to exit at the end of the first period. For example, let's say we try to display PRES1.PPT from 12:00 to 13:30, and PRES2.PPT from 13:00 to 14:30, it is possible for BOTH presentations to exit at 13:30. This is because Windows uses the same process to display both files, and activates them via DDE.





This is a limitation in the Microsoft Windows ShellExecuteEx API



Avoid overlapping schedules in this case, or change the associations in: My Computer->Tools->Folder Options->File Types->(extension)

Try to disable DDE (under Edit with the default action, eg 'open', selected) and/or disable 'Browse in same window' or using a different viewer/player for the file type.

10. SNMP SERVICES

Introduction

Some parameters values are installation dependent, and are shown here as an example.

You may need assistance from you network administrator, IT Manager or MIS helpdesk to obtain the settings or to configure the projector for you, since this is a task description targeted to 'Administrators' and needs knowledge and/or permissions normally held by those persons.

It is advised that you first try to follow the procedure to obtain a working setup, before changing the settings for conforming to your local security requirements.

10.1 SNMP installation

Introduction



The Control Server version should be at least version 1.10.

To check the version, open the about box from the server tray:



Software updates can be obtained from the BARCO support website: ftp://ftp.barco.com/pub/iq_pro_software/ or from secured website PartnerZone

How to install SNMP (only if necessary)

- The Microsoft SNMP service must be installed You may need to install this service from the Windows XP CDROM.
- Install the SNMP Agent Extension dll regsvr32 IQProSNMP.dll
 The agent should now be registered as "iqpro" under
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SNMP\Parameters\ExtensionAgents

How to configure SNMP (only if necessary)

- 1. Go to the Control panel, under the Administrative Tools, in the Services, in the "SNMP" entry.
- 2. In the "General" tab, you can enable the service, and make it start automatically.
- In the "Security" tab, the default Community is called 'public' and is read-only.
 You may want to give read-write permission to 'public' (not recommended) or create a 'private' community with read-write permissions.
- 4. In the Control Server, enable the SNMP support, and optionally, enable read-write support.
- 5. The SNMP service should be restarted, to take the changed settings into account.



To uninstall the snmp agent: regsvr32 /u IQProSNMP.dll

10.2 SNMP integration

Commands

Following commands are provided stored in the MIB:

Command	Туре
PROJECTORTYPE	READ
SERIALNUMBER	READ

Command	Туре
LAMPPRODUCTNUMBER	READ
LAMPSERIALNUMBER	READ
SERVERTYPE	READ
SERVERVERSION	READ
EMBEDDEDSOFTWAREVERSION	READ
PROJECTORLANGUAGE	READ
PROJECTORNAME	READ
LOCATION	READ
ORIENTATION	READ
RESOLUTION	READ
DESKTOPRESOLUTION	READ
PROJECTORSTATE-cooldown	READ
PROJECTORSTATE-textbox	READ
PROJECTORSTATE-projector	READ/WRITE
PAUSE	READ/WRITE
FREEZE	READ/WRITE
PROJECTORRUNTIME	READ
LAMPWARNINGSTATUS	READ
LAMPALERTSTATUS	READ
LAMPMODE	READ/WRITE
LAMPRUNTIME	READ
LAMPSTATUS	READ
LAMPWARNINGTIME	READ/WRITE
I2CDIAGNOSTICS	READ
POWERSUPPLYERROR	READ
LAMPERROR	READ
PCSTATEPROJECTORON	READ/WRITE
PCSTATEPROJECTORSTANDBY	READ/WRITE
PCSTATE	READ/WRITE

11. STANDARD IMAGE FILES

11.1 Table overview

Table overview

The following standard image files are pre-programmed in the projector.

Name ⁵	Resolution ⁶	Fvert Hz ⁷	FHor kHz ⁸	Fpix MHz ⁹	Ptot ¹⁰	Pact ¹¹	Ltot ¹²	Lact ¹³
1600_48V	1600x600i	48,040	62,500	135,000	2160	1600	651	600
CGA	640x200i	59,924	15.700	14.318	912	640	262	200
COMPUSC4	1024x480i	29,945	30,694	39,779	1296	1024	512	480
	720x400	70		28,350	900	720	449	400
DOS1_70			31,500	<u> </u>				
DOS3_56	640x400	56	24,800	21,030	848	640	440	400
DOS4_85	640x400	85	37,860	31,500	832	640	445	400
ED	735x480	59,943	31,470	28,638	910	735	525	480
EGA	640x350	59,702	21,851	16,257	744	640	366	350
ESVGA_75	832x624	73	47,900	53,648	1120	832	660	624
EXGA_60	1152x864	60	54,900	79,934	1456	1152	916	864
EXGA_80	1152x864	80,000	76,499	110,159	1140	1152	958	864
EXGA_85	1152x864	85	77,202	121,671	1576	1152	907	864
		,000						
EXGA1_70	1152x864	70	63,800	94,424	1480	1152	912	864
EXGA1_75	1152x864	75	67,499	107,999	1600	1152	900	864
EXGA2_70	1152x864	70	66,098	99,941	1512	1152	945	864
EXGA2_75	1152x864	75	75,199	110,092	1464	1152	1002	864
FMR	640x400i	42,323	36,440	28,570	784	640	431	400
GE_50	640x400	50	31,200	44,928	1440	1163	625	522
GE_60	1085x480	60	30,700	41,261	1344	1085	512	480
hd_1080i	1920x540	60	33,750	74,249	2200	1920	563	540
hd_24p	1920x1080	24,000	27,000	74,000	2750	1920	1125	1080
hd_24sf	1950x540	48,000	27,000	74,000	2750	1950	562	540
hd_25i	1920x540	50,000	28,125	74,000	2640	1920	562	540
hd_25p	1920x1080	25,000	28,125	74,000	2640	1920	1125	1080

^{5.} Name: name of file, contains the settings.
6. Resolution: image resolution, when followed by ..i means interlaced.
7. Fvert Hz: vertical frame frequency of the source
8. FHor kHz: horizontal frequency of the source
9. Fpix MHz: pixel frequency
10. Ptot: total pixels on one horizontal line.
11. Pact: active pixels on one horizontal line.
12. Ltot: total lines in one field
13. Lact: active lines in one field.

Name ⁵	Resolution ⁶	Fvert Hz ⁷	FHor kHz ⁸	Fpix MHz ⁹	Ptot ¹⁰	Pact ¹¹	Ltot ¹²	Lact ¹³
hd_30p	1920x1080	30,000	33,750	74,000	2200	1920	1125	1080
hd_60p	1280x720	60,000	45,000	74,000	1650	1280	750	720
INTER_GR	1184x886	67,170	61,796	92,941	1504	1184	920	886
IQPC_SXGA_2	1366x1024	59	62,933	106,230	1688	1366	1067	1024
IQPC_SXGA_D	1280x1024	60	63,857	107,791	1688	1280	1063	1024
IQPC_XGA_1	1024x768	61	49,005	65,863	1344	1024	807	768
IQPC_XGA_2	1024x768	60	48,485	65,164	1344	1024	807	768
IQPC_XGA_D	1024x768	61	49,005	65,863	1344	1024	806	768
MAC_3	512x384	60,147	24,480	15,667	640	512	407	384
MAC_4	560_384	60,147	24,480	17,234	704	560	407	384
MAC_5	512x342	60,158	22,259	16,670	704	512	370	342
MAC_6	832x624	74,546	49,722	57,280	1152	832	667	624
MAC_7	1024x768	74,907	60,150	80,000	1330	1024	803	768
MAC_LC	640x480	66,619	34,975	31,338	896	640	525	480
MAC_POR	640x870	74,996	68,846	57,280	932	640	918	870
METH_BOOT1	720x400	70	31,500	28,350	900	720	448	400
METH_BOOT2	640x480	59	31,000	24,800	800	640	524	480
MXGA_100	1152x864	100	92,997	145,820	1568	1152	930	864
NTSC	675x240	60	15,748	13,512	858	675	263	240
NTSC_LIMO_x2	834x482	60	31,496	32,252	1024	834	525	482
NTSC_LIMO_x3	834x715	60	46,646	47,766	1024	834	778	715
NTSC_LIMO_x4	834x961	60	62,992	64,504	1024	834	1050	961
PAL	675x286	50	15,625	13,500	864	675	313	286
PAL_LIMO_x2	834x574	50	31,250	32,000	1024	834	626	574
PAL_LIMO_x3	834x850	50	46,296	47,407	1024	834	926	850
PAL_LIMO_x4	834x1146	50	62,500	64,000	1024	834	1250	1146
PAM500	640x400	60,000	26,400	22,810	864	640	440	400
PAM800	1120x375i	44,936	36,443	50,000	1372	1120	406	375
PC98_2	1120x375i	39,994	32,835	47,840	1457	1120	411	375
PC98_3	1120x750	60,000	50,000	78,569	1571	1120	833	750
S1152_66	1152x900	66,004	61,846	94,500	1528	1152	937	900
S1152_76	1152x900	76,637	71,809	108,000	1504	1152	937	900

Name ⁵	Resolution ⁶	Fvert Hz ⁷	FHor kHz ⁸	Fpix MHz ⁹	Ptot ¹⁰	Pact ¹¹	Ltot ¹²	Lact ¹³
S1600_67	1600x1280	67	89,286	200,000	2240	1600	1334	1280
SDI_625	675x278i	25,000	15,625	13,500	864	720	313	278
SDI_525	675x240i	29,970	15,734	13,500	858	720	263	240
SG_50	1600x1200	50,000	62,500	130,313	2085	1600	1250	1200
SG_60_1	1280x1024	60,000	63,900	107,352	1680	1280	1065	1024
SG_60_2	1024x768	60,000	48,780	64,390	1320	1024	813	768
SG_60_3	960x680	60,000	43,200	54,432	1260	960	720	680
SG_60_4	1600x1200	60,000	75,000	156,375	2085	1600	1250	1200
STOR_100	764x287	100	31,300	30,361	970	764	313	287
STOR_120	810x247	119	31,300	30,361	970	810	263	247
STOR_50	1024x512	50	31,300	40,064	1280	1024	625	512
STOR_60	1024x512	60	31,300	40,064	1280	1024	525	512
SUNEWS67	1280x1024	67,189	71,691	117,000	1632	1280	1067	1024
SUNEWS76	1280x1024	76,107	81,130	135,000	1664	1280	1066	1024
SUNXGA60	1024x768	59,984	48,287	64,125	1328	1024	805	768
SUNXGA70	1024x768	70,041	56,596	74,250	1312	1024	808	768
SUNXGA77	1024x768	77,069	62,040	84,375	1360	1024	805	768
SUP_MAC	1024x768	60,000	48,780	63,999	1312	1024	813	768
SVGA_56V	800x600	56,250	35,156	36,000	1024	800	625	600
SVGA_60V	800x600	60,317	37,879	40,000	1056	800	628	600
SVGA_72_1	800x600	72,084	48,080	50,003	1040	800	666	600
SVGA_72_2	800x600	72,084	48,080	50,003	1040	800	667	600
SVGA_75	800x600	75,000	46,875	75,000	1056	800	625	600
SVGA_85	800x600	85,000	53,635	56,250	1048	800	631	600
SXGA_72_1	1280x1024	72	76,699	128,854	1680	1280	1061	1024
SXGA_72_2	1280x1024	72	76,970	130,080	1690	1280	1069	1024
SXGA_75	1280x1024	75	79,974	134,997	1688	1280	1066	1024
SXGA_76	1280x1024	76	81,103	134,955	1664	1280	1066	1024
SXGA_85	1280x1024	85	91,149	157,506	1728	1280	1072	1024
SXGA_L	1280x1024	60	62,500	84,000	1344	1280	1041	1024

Name ⁵	Resolution ⁶	Fvert Hz ⁷	FHor kHz ⁸	Fpix MHz ⁹	Ptot ¹⁰	Pact ¹¹	Ltot ¹²	Lact ¹³
SXGA+_60	1280x1024	60	63,980	107,997	1688	1280	1066	1024
SXGA2_60	1280x960	60	59,999	107,998	1800	1280	1000	960
SXGA2_85	1280x960	85	85,940	148,505	1728	1280	1011	960
SXGA50	1280x1024	50	52,351	88,368	1688	1280	1047	1024
SXGA60v	1280x1024	60	63,658	110,001	1728	1280	1056	1024
SXGAP_70	1024x1280	70	92,902	133,779	1440	1024	1326	1280
SXGAP1_60	1024x1280	60	77,700	83,916	1080	1024	1297	1280
SXGAP2_60	1024x1280	60	79,498	110,661	1392	1024	1325	1280
UXGA_60	1600x1200	60	75,002	162,004	2160	1600	1250	1200
UXGA_65	1600x1200	65	81,248	175,496	2160	1600	1250	1200
UXGA_70	1600x1200	70	87,497	188,993	2160	1600	1250	1200
UXGA_75	1600x1200	75	93,747	202,494	2160	1600	1250	1200
UXGA_85	1600x1200	85	106,247	229,494	2160	1600	1250	1200
UXGA_L	1600x1200	60	72,801	119,977	1648	1600	1216	1200
UXGAP1_60	1200x1600	59	95,804	119,946	1252	1200	1620	1600
UXGAP2_60	1200x1600	60	99,404	163,817	1648	1200	1656	1600
VGA_60	640x480	60	31,326	25,061	800	640	525	480
VGA_66	640x480	67	35,100	30,326	864	640	525	480
VGA_72	640x480	73	37,860	31,500	832	640	520	480
VGA_75	640x480	75,000	37,500	31, 500	840	640	500	480
VGA1_85	640x480	85,000	43,369	36,000	832	640	509	480
VGA2_85	720x400	85,000	37,900	35,475	936	720	446	400
VGA75ISO	640x480	75,000	39,375	31,500	800	640	525	480
VIDEO525	1302x239i	29,970	15,734	32,207	1302	1024	263	239
VIDEO625	1024x278i	25,000	15,625	31,984	1310	1024	313	278
XGA_43	1024x384	87	35,500	44,872	1264	1024	409	384
XGA_60	1024x768	60,000	48,360	64,996	1344	1024	806	768
XGA_70_1	1024x768	70,000	56,475	74,999	1328	1024	806	768
XGA_70_2	1024x768	70,000	57,052	78,047	1368	1024	815	768
XGA_72	1024x768	71,955	58,140	80,000	1376	1024	808	768

Name ⁵	Resolution ⁶	Fvert Hz ⁷	FHor kHz ⁸	Fpix MHz ⁹	Ptot ¹⁰	Pact ¹¹	Ltot ¹²	Lact ¹³
XGA_75_1	1024x768	75	60,024	78,752	1312	1024	800	768
XGA_75_2	1024x768	76	61,080	86,000	1408	1024	806	768
XGA_85	1024x768	85,000	68,680	94,500	1376	1024	808	768
XGA_EOS	1024x768	63,000	50,000	67,200	1344	1024	796	768
XGA75_GS	1024x768	74,534	59,701	79,284	1328	1024	801	768
SXGA_60	1280x1024	60	63,980	107.997	1688	1280	1066	1024
SXGA+_60_2	1400x1050	60	65,574	122,230	1864	1400	1089	1050
SXGA+_60_3	1400x1050	60	65,104	122,396	1880	1400	1085	1050

Table 11-1

12. TROUBLESHOOT

12.1 Using the OSD

What can be done?

The projector bus allows the diagnostic of different hardware components divided in two main groups.

- · I2C diagnostics: a number of internal electronic boards can be diagnosed and a graphical interface shows whether an error is
- · Lamps and power supply: lamp temperature and power related failures are logged and can be checked at any time.

How to display the I2C diagnostics menu?

- 1. Press MENU to activate the Tool bar
- 2. Press → to select the *Tools* item
- 3. Press ↓ to Pull down the *Tools* menu
- 4. Use ↑ or ↓ to select *Diagnostics*
- 5. Press \rightarrow to pull down the menu
- 6. Press ENTER to select I2C (image 12-1)

A text box is displayed

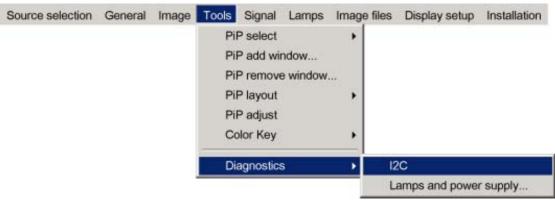


Image 12-1

How to display the Lamps and power supply diagnostic menu?

- 1. Press MENU to activate the Tool bar
- 2. Press \rightarrow to select the *Tools* item
- 3. Press ↓ to Pull down the *Tools* menu
- 4. Use ↑ or ↓ to select *Diagnostics*
- 5. Press \rightarrow to pull down the menu
- 6. Press ENTER to select Lamps and power supply (image 12-2)

A text box is displayed (image 12-3)

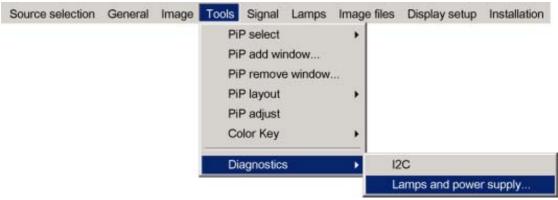


Image 12-2

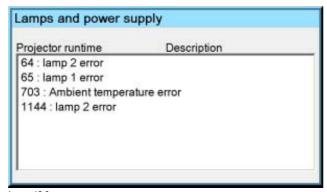


Image 12-3



For Barco certified service technicians only: For more information on possible hardware failures refer to the Service Manual.

12.2 FAQ table

What to do when... ?

Symptom	Possible cause	Check	References
The projector is working (operational mode) but Server is not running	The Projector ON state setting (in the "iQ Pro Server settings" menu)	The setting should be "ON"	
The projector is in standby mode and the Server is not running	The Projector Standby state setting (in the "iQ Pro Server settings" menu)	The setting should be "ON"	
No client/server communication in case of a point to point communication	IP address is not filled in correctly	IP address	
No client/server communication over the LAN	Client configuration	Client configuration: projector name	IT administrator
When using the DropZone, the iQ Pro server does not accept calls from client(s)	Netmeeting™ settings are incorrect	 Netmeeting™ settings 	IT administrator

Symptom	Possible cause	Check	References
When using the DropZone it is impossible to launch/store files	No access the shared folder "Received"	check guest account settings in Windows™	IT administrator
PC card is not working or influences the good working of the SBC	incompatible PC card	Check if the PC card driver is compatible with Windows™ XP	IT administrator

13. MAINTENANCE

Overview

- · Cleaning the lens
- · Cleaning the dustfilters

13.1 Cleaning the lens



To minimize the possibility of damage to optical coatings, or scratches to lens surfaces, we have developed recommendations for clean. FIRST, we recommend you try to remove any material from the lens by blowing it off with clean, dry deionized air. DO NOT use any liquid to clean the lenses.

Necessary tools

Toraysee™ cloth (delivered together with the lens kit). Order number: R379058.

How to clean the lens?

Proceed as follow:

- 1. Always wipe lenses with a CLEAN Toraysee $^{\text{TM}}$ cloth.
- 2. Always wipe lenses in a single direction.

Warning: Do not wipe back and forwards across the lens surface as this tends to grind dirt into the coating.

- 3. Do not leave cleaning cloth in either an open room or lab coat pocket, as doing so can contaminate the cloth.
- 4. If smears occur when cleaning lenses, replace the cloth. Smears are the first indication of a dirty cloth.



CAUTION: Do not use fabric softener when washing the cleaning cloth or softener sheets when drying the cloth

Do not use liquid cleaners on the cloth as doing so will contaminate the cloth.



Other lenses can also be cleaned safely with this Toraysee™ cloth.

13.2 Cleaning the dustfilters

Overview

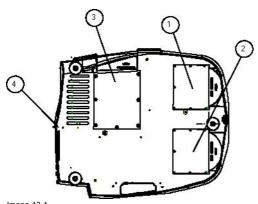
- Dustfilters
- Cleaning

13.2.1 Dustfilters

Location of the filters

There are 4 filters located at different positions

Filter1: Lamp 1
 Filter2: Lamp 2
 Filter 3: X-Cube filter
 Filter 4: Input filter



- Image 13-1 location of the filters
- 1 lamp filter 1
- 2 lamp filter 2
- 3 x-cube filter4 input filter

13.2.2 Cleaning

How to clean the dustfilters?

- 1. Place the projector so as to access easily the filter to be cleaned
- 2. Push the handle downwards to unlock the filter. (image 13-2)
- 3. Slide out the filter (image 13-3, image 13-4, image 13-5) See image 13-6.
- 4. Clean the dust filter with a dry cloth.
- 5. Re-insert the dust filter by sliding it back in the filter housing.

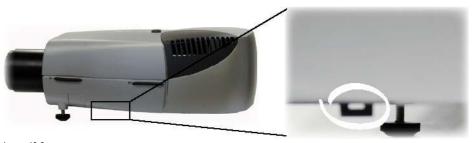


Image 13-2 Location of the x-cube filter and its handle



Image 13-3 Lamp filter removal



Image 13-4 lamp & X-Cube filters removed





Image 13-5 Input filter removal



If the airflow is falling under a predetermined treshold value a warning will be displayed on the screen.

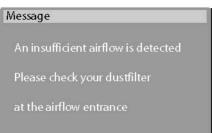


Image 13-7

At that time it is strongly recommended to replace or clean the dustfilter under the X-cube. Failing to do so, will strongly reduce the lifetime of the LCD's and the analyzers.

The manufacturer reserves itself the right to refuse warranty repair if the projector was working with dirty dustfilters.

INDEX

A	Г
address 19	FAQ 164
RCU 19	File 81, 84, 87–88
Address 20	copy 88
Projector address 20	delete 88
Adjustments 101	edit 84
lens 101	load 81
advanced 32	rename 87
source selection 32	Filters 167–168
Advanced 31	cleaning 167–168
AGC 65	location 167
Auto Image 82	firmware 133
Autolmage 93	upgrade 133
Setup 93	Full screen representation 90
automatic startup 24	•
	_
_	G
В	Gain 65–66
Packground 75	automatic control 65
Background 75	
blanking 61	manual control 66
Blanking 94	General 35–39
	audio 37
	Audio 37–38
C	settings 38
Cleaning 167	setup 37
	identification 39
dustfilters 167	Standby Timer 36
Lens 167	General menu 35–36
color keying 73	freeze 36
configuration 116	
server 116	pause 35
connections 9	getting started 29
input 9	adjust 29
Connections 9, 14	Getting started 27
Communication 14	guidelines 145
Communications 14	general network config 145
Odminanioations 14	
RS232 IN 14	Network 145
RS232 IN 14	Network 145
Input source connections 9	Network 145
Input source connections 9 facilities 9	Network 145
Input source connections 9 facilities 9 layers 9	I
Input source connections 9 facilities 9	Network 145
Input source connections 9 facilities 9 layers 9	I
Input source connections 9 facilities 9 layers 9 power connection 9	I Identification screen 39
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121	I Identification screen 39 Image 40, 46, 52
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121	l Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121	l Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 10–13
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 10–13 5-Cable input 10
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 10–13 5-Cable input 10 Composite Video input 11
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 10–13 5-Cable input 10
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 10–13 5-Cable input 10 Composite Video input 11
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 10–13 5-Cable input 10 Composite Video input 11 computer input 13
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 10–13 S-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57 L (Light Output) 56	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56-57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56-57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 lens adjustments 21
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56-57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 10–13 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 Iens adjustments 21 procedure 147
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56-57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 10–13 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 lens adjustments 21 procedure 147 Installation 9, 101
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56-57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 lens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7
Input source connections 9 facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56-57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 lens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7 guidelines 7
Input source connections facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57 Start up 54	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 Iens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7 guidelines 7 Safety 7
Input source connections facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57 Start up 54	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 lens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7 guidelines 7
Input source connections facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57 Start up 54 E exchange 147–148, 151	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 Iens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7 guidelines 7 Safety 7
Input source connections facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57 Start up 54 E exchange 147–148, 151 example 151	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 Iens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7 guidelines 7 Safety 7
Input source connections facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57 Start up 54 E exchange 147–148, 151 example 151 installation 147	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 Iens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7 guidelines 7 Safety 7
Input source connections facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57 Start up 54 E exchange 147–148, 151 example 151 installation 147 troubleschooting 148	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 lens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7 guidelines 7 Safety 7 safety warnings 7
Input source connections facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57 Start up 54 E exchange 147–148, 151 example 151 installation 147	I Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 lens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7 guidelines 7 safety 7 safety warnings 7
Input source connections facilities 9 layers 9 power connection 9 Control 121 description 121 D diagnostics 131 description 131 Diagnostics 74 Digital 13 DVI 13 Display Setup 90 dropzone 135, 137 dropping 137 tools 135 Dyancolor™ 56–57 Interface 57 L (Light Output) 56 Dynacolor™ 52, 54, 57 Basic 57 Adjustment 57 Start up 54 E exchange 147–148, 151 example 151 installation 147 troubleschooting 148	Identification screen 39 Image 40, 46, 52 Dynacolor™ 52 resolution 46 image files 89 forced file load 89 Image files 157 standard 157 Input 10–13 Input source connection 5-Cable input 10 Composite Video input 11 computer input 13 DVI 13 S-Video input 12 input balance 61 installation 7, 19, 21, 147 address 19 guidelines 7 lens adjustments 21 procedure 147 Installation 9, 101 Installation guidelines 7 guidelines 7 Safety 7 safety warnings 7

Language 23	N
Layers 9	Native resolution 46
input 9 Lens 101, 167	network 111, 113, 122–123, 128, 135, 139, 142–143, 145
Cleaning 167	additional config info 145
lens adjustments 101	configuration 113 control 122–123, 128
Local keypad 15	advanced 128
•	general 122
	interface 122
M	source selection 123
Maintenance 167	dropzone 135, 139
Menu 20–21, 23–24, 31, 40–44, 48–49, 65–67, 69–76, 78–81,	remote desktop sharing 139
84, 87–88, 90–91, 93, 101, 104	Dropzone 139
Image files menu 81, 84, 87–88 copy file 88	file manager 139 DropZone 135, 142
delete file 88	settings 142
edit file 84	start up 135
load file 81	Server 111
rename file 87	start up 111
Image menu 40–44, 48–49, 65–66	web 143
AGC on video 65	Network 107–111, 121, 123, 126, 129, 131–132
aspect ratio 44 Brightness 41	architecture 107 configuration 132
color 42	E-mail 132
color temperature 49	Connections 110
contrast 41	control 129
filmmode detection 49	advanced lens adjustments 129
Gamma 43	advanced options 129
Keystone 48	Control manager 123, 126
manual gain control 66 noise reduction 43	image settings 126 PiP 123
phase 43	diagnostics manager 131
settings 40	functionality 108
sharpness 42	Getting started 109
Tint 42	installing 111
Installation menu 20–21, 23–24, 90–91, 93, 101, 104	software 111
AutoImage Setup 93	Projector 121
change password 104	control 121 No signal 75
Full screen representation 90 language 23	background 75
lens adjustments 101	basing round in
projector address 20	_
projector orientation 21	0
Quick access keys 24	Orientation 21
Sliderbox position 93	projector orientation 21
Startup screen 91 Take screenshot 91	oulook integration 154
textbox 91	limitations 154
Lamp menu 76, 78–80	outlook intagration 151
history 78	
Mode 76	P
reset runtime 79	Packaging 5
Runtime warning 80 runtimes 76	parameter 149
Signal menu 74–75	list 149
background 75	Password 104
switching mode 74	change password 104
Tools 67	PiP 69–73
PiP 67	add window 69 adjust 73
Tools menu 69–73	layout 70
PiP add window 69	Layout 70–72
PiP Adjust 73 PiP delete layout 72	delete 72
PiP layout 70	rename 71
PiP remove window 70	save 70
PiP rename layout 71	remove window 70
PiP Save 70	select 69 PiP layout 27
PiP select 69	Preferences 23
Using the dialog boxes 31 menu bar 92	Projector 18
Menu structure 31	Switch on 18
Using the dialog boxes 31	
- -	0
	Q
	Quick access keys 24

RCU 15–16 Terminology 16 Overview 16 Runtime 79–80 reset 79 warning 80	S-Video 34 specifications 109 Start up 27 Startup screen 91 status bar 92 Switching 74 switching mode 74
S	Т
Scenergix 100 Black level 100 Screenshot 91 security 102 setup 24 automatic startup 24 Setup 15 Sliderbox position 93	Textbox 91 Timer 36 Tools 67 advanced 67 tools 67 troubleshoot 163 OSD 163
SNMP 155 installation 155	U
integration 155	Unpacking 5
Soft Edge 95, 97 Border adjustment 97	
Horz. overlap zone 97	V
Introduction 95 Softedge 97 horizontal 97 overlap zone 97 Source 32, 74 Source selection 32 switching mode 74	Video 11–12, 65–66 AGC 65 Composite Video 11 manual gain control 66 S-Video 12
source files 157	W
standard 157 Source selection 33–34 composite video 33	White peaking 51