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The following projector manual has not been modified or altered in any way.

Philips multimedia projector
bSure 1 / bSure 2

USB
UNIVERSAL SERIAL BUS

English User guide

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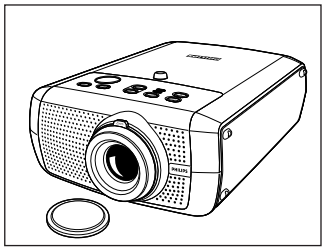
1. Introduction >

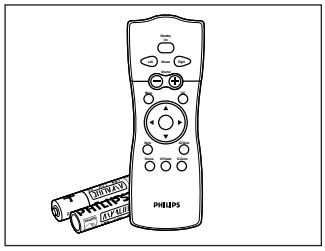
Congratulations on your purchase of one of the most sophisticated and reliable products on the market today. We are sure that, used properly, it will bring you years of enjoyment. You will want to keep this manual handy, as it is a convenient source of information about your projector.
For your own protection and prolonged operation of your projector, please read the enclosed Safety Sheet.

Packaging contents

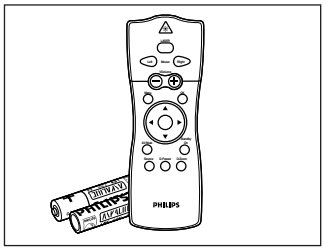
Please confirm that the following items are packed in the projector box. They are provided to help you use or set up your projector.



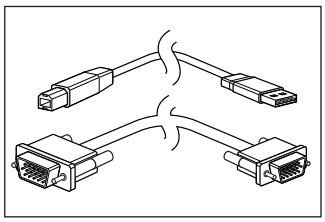
Projector - Lens cap



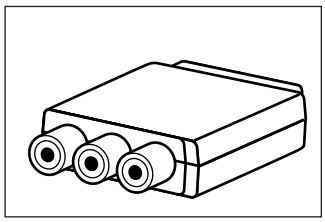
Compact remote control + batteries 2 x AAA Zinc Carbon, 1.5 V



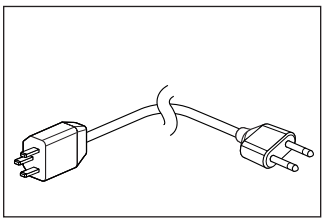
Laser pointer remote control + batteries 2 x AAA Zinc, 1.5 V *(supplied with bSure2 Brilliance version only)*



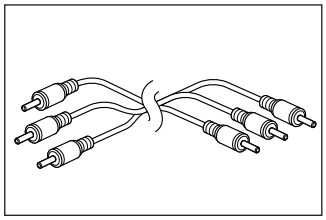
Integrated VGA/USB Cable



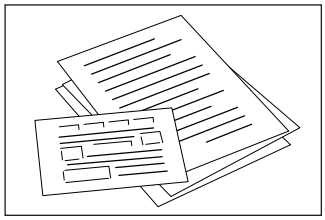
Scart/RCA Audio Video adapter *(not for USA version)*



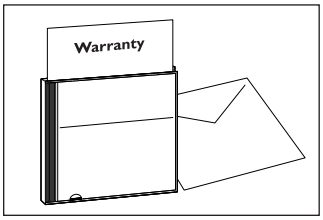
Mains Lead



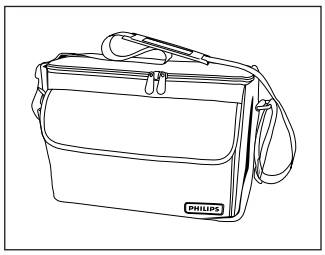
Audio/Video RCA Cable



Quick set up Card and Safety Sheet



Cd-rom *(with Projection Assistant, Warranty card, SecurityMax, User Guide, Data sheet and more.)*



Softbag *(supplied with bSure2 Brilliance only)*

Optional accessories

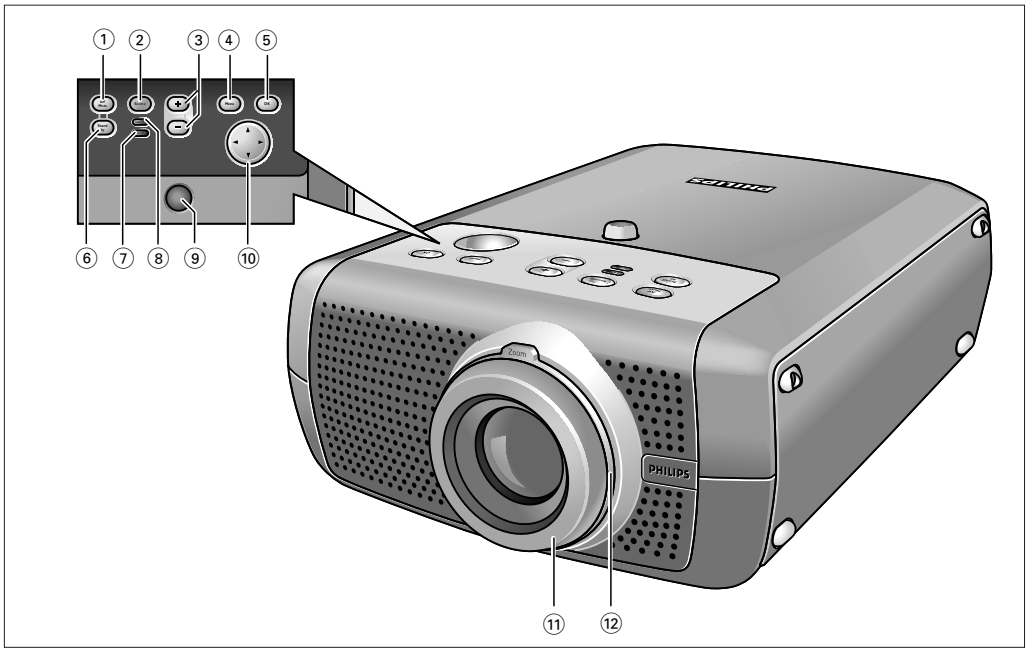
The following accessories are available via he dealer from which you purchased your Philips projector:

- LCA 3116/00 - 132 W replacement lamp - 8670 931 16009
- LCA 3118/00 - 150 W replacement lamp - 8670 931 18009
- LCA 3123/00 - 200 W replacement lamp - 8670 931 23009 *(only for bSure2 Brilliance/LC3136 version)*
- LCA 3124/00 - 200 W replacement lamp - 8670 931 24009 *(only for bSure2 Brilliance/LC3146 version)*
- LCA 2211/00 - Ceiling mount - 8670 922 11009
- LCA 5310/00 - Monitor Y-cable - 8670 953 10009
- LCA 5300/00 - VGA extension cable (15 m) - 8670 953 0009
- LCA 5312/00 - Scart/RCA Component Video adapter - 8670 953 12009

Service accessories

The following accessories are available via our Service organisation only:

- Compact remote Control - 3139 228 60500
- Laser pointer remote Control - 3139 228 60550
- Dust filter - 3122 434 01570
- Mains lead USA - 4822 321 11294
- Mains lead Euro - 4822 321 11399
- Mains lead UK - 4822 321 11431
- Integrated VGA/ USB cable - 3122 438 75120
- MAC adapter (option) - 4822 263 21201
- Audio/Video RCA cable (cinch) - 4822 320 12281
- SCART/RCA Audio Video adapter - 2422 033 00345
- User Guide (Cd- rom) - 3122 438 71130



A(udio)/**V**(ideo) **Mute** ① To mute the sound of the projector and to mute the picture.

Source ② To select the current projection source (Computer, Component, RGBS, S-Video, Video). The button toggles between the five signals.

– / + ③ To adjust the volume.

Menu ④ To activate and deactivate the menu.

OK ⑤ To confirm actions in the menu when the menu is on screen.

Standby/ Standby indicator ⑥ To switch the projector in or out of the Power/Standby mode.
The Standby indicator (text on button/ring around button):
- lights up orange when the projector is warming up;
- lights up red when the projector is in Power/Standby mode;
- lights up green as when the projector is operating;
- slowly blinks orange when the projector is cooling down.

Temperature indicator ⑦
- Lights up red in case of temperature error.
- Flashes in case of fan error.

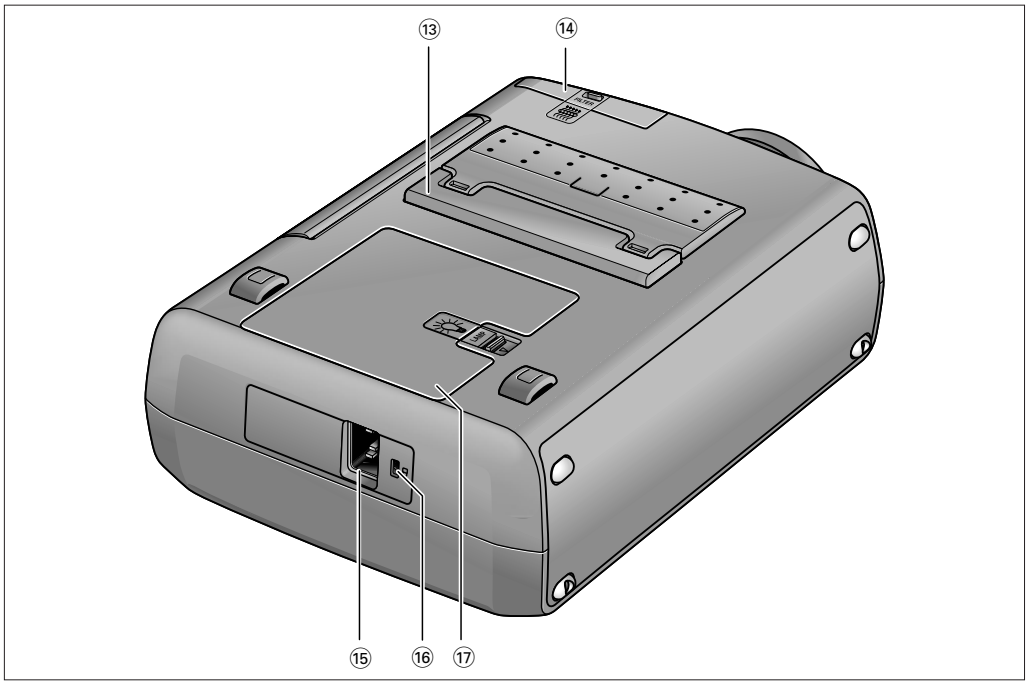
Lamp indicator ⑧
- Lights up green when the lamp is on.
- Lights up orange when lamp life has almost expired.
- Lights up red when lamp life has expired.
- Fast blinks red when lamp start has failed.

IR sensor ⑨ To receive the signals from the remote control.

Cursor Control ⑩ When the menu is active the Cursor Control controls the menu cursor to navigate through the OSD menu. The cursor control works with up/down and left/right button operation.

Focus ring ⑪ To adjust the focus of the projected image.

Zoomring ⑫ To adjust the size of the projected image.



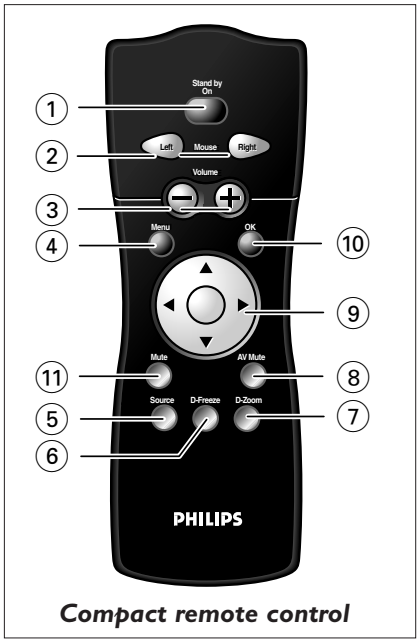
Height/Level adjuster ⑬ To adjust the vertical angle of the projector.

Dust filter ⑭

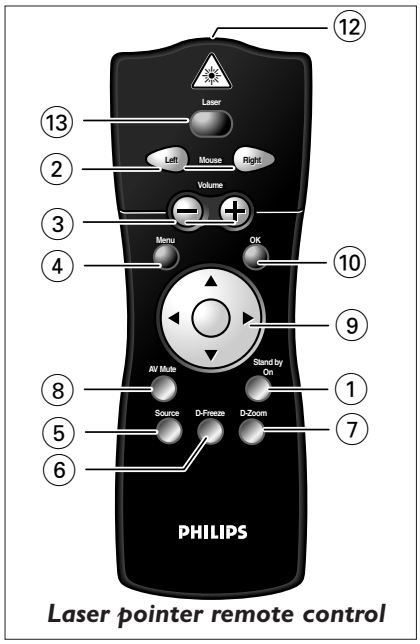
Mains inlet socket ⑮ To connect the projector to the mains.

Lock slit ⑯ To insert an optional locking device (Kensington lock).

Lamp compartment ⑰



Compact remote control



Laser pointer remote control

Stand by On ① To switch the projector in or out of the Power/Standby mode.

Mouse Left/Right ② Function as the Left and Right mouse keys of your pc when USB or PS/2 connection has been made.

– Volume + ③ To adjust the volume.

Menu ④ To activate and de-activate the menu.

Source ⑤ To select the current projection source (Computer, Component, RGBS, S-Video, Video). The button toggles between the five signals.

D(igital)**-Freeze** ⑥ To capture a (moving) picture. The button toggles between the Freeze mode and the display situation.

D(igital)**-Zoom** ⑦ To switch the 'Digital Zoom' function 'On' or 'Off' (toggle button). In 'On' condition, the zoom centre can be selected using Cursor Control and the image is magnified with the zoom factor chosen under 'Magnification'.

A(udio)**/V**(ideo) **Mute** ⑧ To mute the sound of the projector and to mute the picture.

Cursor Control ⑨ To manipulate the mouse cursor on the connected computer as long as the menu is not active. When the menu is active the Cursor Control controls the menu cursor to navigate through the OSD menu. The cursor control works with up/down and left/right button operation.

Note *The Cursor Control can only function as a mouse cursor when projector and computer are connected via the USB or PS/2 connectors. Windows 98, Windows ME, Windows 2000 or Windows XP should be installed on the computer when you make the USB connection.*

OK ⑩ To confirm actions in the menu when the menu is on screen.

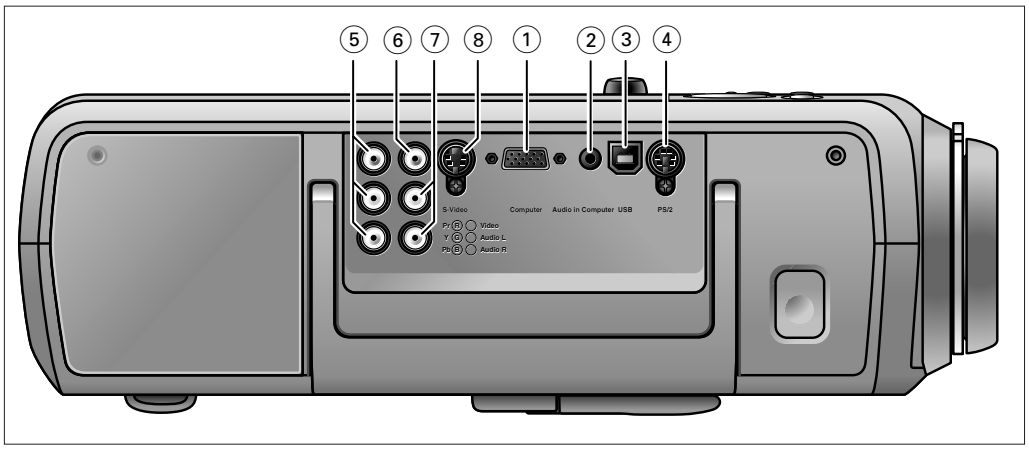
Only on compact remote control

Mute ⑪ To mute the sound of the projector.

Only on laser pointer remote control

Laser ⑫ To activate the laser pointer to indicate items on the screen.
Note: The laser pointer sends out a laser beam. Do not look into this beam!

Laser pointer ⑬ Exit point of laser pointer.



Data source connections

Computer ① Input socket to connect to the Data out terminal of a computer.

Audio in Computer ② Input socket to connect to the Audio out terminal of a computer.

USB (upstream) ③ In-/Output socket to connect a PC or Apple Macintosh computer equipped with a USB downlink connection. When USB connection is used the mouse cursor on the connected computer can be controlled via the projector remote control. Make sure Windows 98, Windows ME, Windows 2000 or Windows XP is installed on the computer.

Note *When the bSure2 Brilliance projector is connected to the computer via the USB socket, audio information from the computer will be heard via the projector speaker.*

PS/2 ④ In-/Output socket to connect a PC or Apple Macintosh computer equipped with a PS/2 connection. When PS/2 connection is used the mouse cursor on the connected computer can be controlled via the projector remote control.

Video source connections

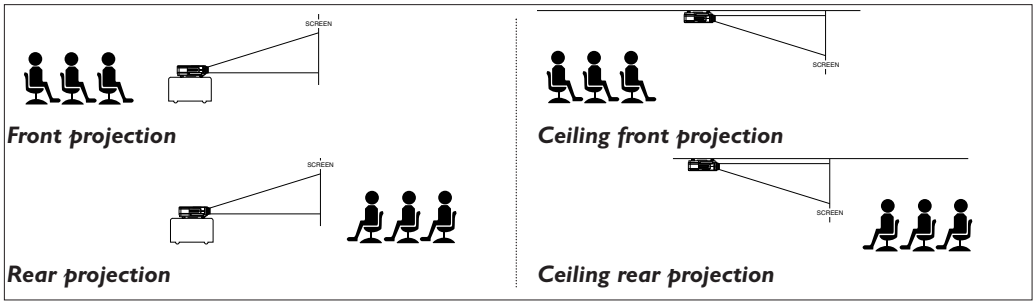
Component in ⑤ Input sockets to connect to DVD- and HDTV-video equipment
These sockets can be connected to the following output sockets: RGB-Y, YCbCr, YPbPr (480p, 720p, 1080 i).

Video ⑥ Input socket to connect to the Video out socket of a video recorder, Laser Disc player, video camera, DVD player, or TV with AV output socket.
This socket can be connected to CVBS output sockets.

Audio L/R ⑦ Input sockets to connect to the Audio out sockets of a video recorder, laser disc player, video camera or TV with A/V output socket.

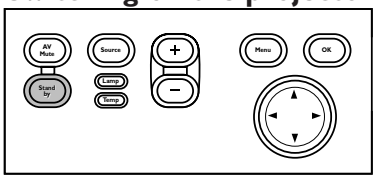
S-Video ⑧ Input socket to connect to the S-Video out socket of a S-VHS video recorder, a VCR, Laser Disc player, DVD player, video camera or TV with AV output socket.
This socket can be connected to a S-Video/S-VHS (Y/C) output socket.

Positioning the projector and screen



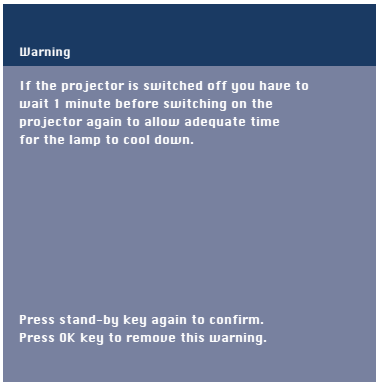
- Place the projector on a stable, level surface, out of direct sunlight and away from sources of excessive dust, dirt, heat, water, moisture, vibration and strong magnetic fields.
- Allow sufficient cooling of the product by keeping all air inlets and outlets clear from obstructions.
- Position the projector in such way that the viewers cannot watch into the projector light beam.
- Choose a screen size suitable for the number of viewers and the size of the room.
- Picture quality is best when you sit directly in front of the projector screen.
- The projector can be used for both front projection, rear projection and ceiling projection applications. As default factory setting, the projector has been set up for front projection. You can change to rear or ceiling projection via the 'Mirror' function in the 'Picture' menu.

Switching on the projector



1 Insert the mains lead into the projectors Mains inlet socket and connect it to the wall socket.
– The Standby indicator lights up red, the projector is now in the Power/Standby mode.
2 Remove the lens cap.
3 Press *any* button on projector or remote control to switch on the projector.
– The Standby indicator lights up orange.

– When the projection lamp is on, the Standby indicator lights up green and the start-up screen appears for several seconds.



4 Press the Standby button to switch the projector back into the Power/Standby mode.
– The Standby Warning screen will appear for 20 seconds.
- The Standby Warning screen can be removed by pressing the OK button.

5 Press the Standby button again to confirm.
– The projector will now go into Power/Standby mode.

You can also press the Standby button twice in succession to switch the projector into Power/Standby mode immediately.

6 To switch off the mains supply completely, disconnect the mains lead.

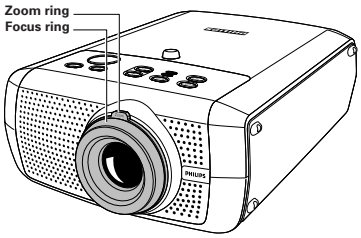
Notes

Save energy! Please put the projector in the Power/Standby position if you are not going to use the projector for more than 15 minutes.

When no signal inputs are detected for 30 minutes, the projector automatically switches to Power/ Standby (Auto Standby). This setting can be changed in the 'Settings' menu

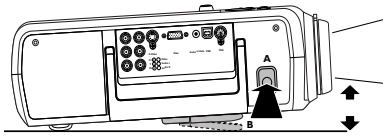
Before disconnecting the mains lead, make sure that the cooling fan has stopped (about 3 minutes after the projector has been switched to Power/Standby).

Adjusting the focus and size of the image



- Use the Zoom ring to adjust the size of the image.
- Use the Focus ring to adjust the focus of the image.

Adjusting the vertical angle of the projector



To raise:

- Keep knob A pressed and lift to raise the projector.
– The Height/Level Adjuster B will come out.

To Lower:

- Keep knob A pressed and gently lower the projector.
- Use the Focus Ring and Zoom Ring to readjust the focus and size of the image.

Keystone correction

If projector and screen are not properly placed, the picture will be distorted, producing a keystoned image (picture top width larger than picture bottom width or vice versa). When a keystoned image occurs the 4:3 ratio will still be guaranteed. This is especially important when the projector is being used together with an 'intelligent whiteboard'.
'Keystone correction' allows you to correct picture distortion of the vertical keystone type by internal scaling. This correction function is accessible through the 'Keystone Correction' option in the 'Settings' menu of the On Screen Display (OSD) menu.

Moving/transporting the projector

Preparation

1 Press the Standby button *twice* to put the projector in Power/Standby.
– The Standby indicator starts blinking orange.
2 Wait until the cooling fan has stopped (about 3 minutes after the projector has been put in Standby) and disconnect the mains lead and all other cables.
3 Put the lens cap back in place to prevent dust, dirt or other contamination from harming or damaging the front of the projector lens when moving the projector.

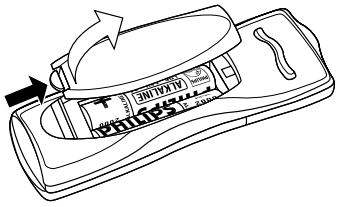
Note *Never place the projector on the side where the connections are located.*

Moving/transporting the projector

The projector contains many glass and precision parts. If you need to transport the projector, please follow these packing instructions to pervent accidental damage to the projector.

- When you are hand-carrying the projector, be sure to use a carrying case like the optional softbag.
- When shipping the projector, use the original packaging material if possible. If you do not have the original packaging, use equivalent materials, placing plenty of cushioning around the projector.
- When transporting the projector as freight or checked luggage, first put it in a carrying case, then pack it in a firm box, using cushioning around the case.

Inserting the batteries in the remote control



1 Push and slide the lid in the direction of the arrow.
2 Install two 'AAA' batteries as indicated inside the battery compartment.
3 Replace the lid and snap it into place.

Note *The maximum range of the remote control is approximately 15 m (± 50 feet).*

General information

Computer input

The computer input is suitable for both Apple Macintosh computers (Power Book and Power Mac) as well as for IBM compatible PCs. The projector is Microsoft (R), Windows (R) 95/98/ME/2000/XP compatible and accepts input signals from all computers that meet following specifications:

- Multi scan VGA-SXGA
- Horizontal scan rate: 15-108 kHz
- Vertical refresh rate: 50-120 Hz
- Bandwith: 140 MHz
- Display Data Channel DDC: 1/2B

The data output of IBM compatible PCs can be connected directly to the projector using standard data cables. When connecting the projector to a Macintosh computer equipped with a 2 row, 15 pin connector a VGA/MAC adaptor (available at your PC store) is required. If your computer is equipped with a 3 row connector no adaptor is needed.

Universal Serial Bus (USB)

The Universal Serial Bus (USB) connector allows you to connect to computers equipped with a USB interface, resulting in real hot plug and play presentation.

Mouse control:

By connecting USB, the mouse function on the Remote Control automatically gets installed.

You can now manipulate the mouse cursor on the computer and on the screen, using Cursor Control on the remote control. The Mouse Left/Right keys on the remote control function as Left and Right mouse keys of your pc.

Audio (only with bSure2 Brilliance version):

Audio information from the computer will be heard via the projector speaker.

Drag and drop facility:

Drag and drop via the remote control works slightly different than via the pc mouse. Here' how:

- Use Cursor Control to select the item to be moved.
- Press and keep pressed Mouse Left.
- Use Cursor Control to move the selected item. Then release Mouse Left.
  – The item will now be moved.
- Press Mouse Left when the item reaches the required location.
  – The item will now be dropped.

Theft deterrence

The SecurityMax™ application, supplied on the CD-ROM, allows you take a number of precautions against unauthorized use of your projector. Once the application is installed, you can, for example, set your own code protected personal start-up screen and shutdown timer which make theft unattractive to any potential thief. You only need to run the Security Max™ software on the pc that is connected to your projector via the Universal Serial Bus. For this see the 'Security Max' user guide on the CD-ROM.

Notes

– *Mouse control and 'drag and drop' is also possible when PS/2 connection has been made.*
– *Based on the specific hardware and software configuration available, Apple Macintosh computer users could experience incomplete or erratic USB -functionality. These problems are not related to the performance of your projector.*

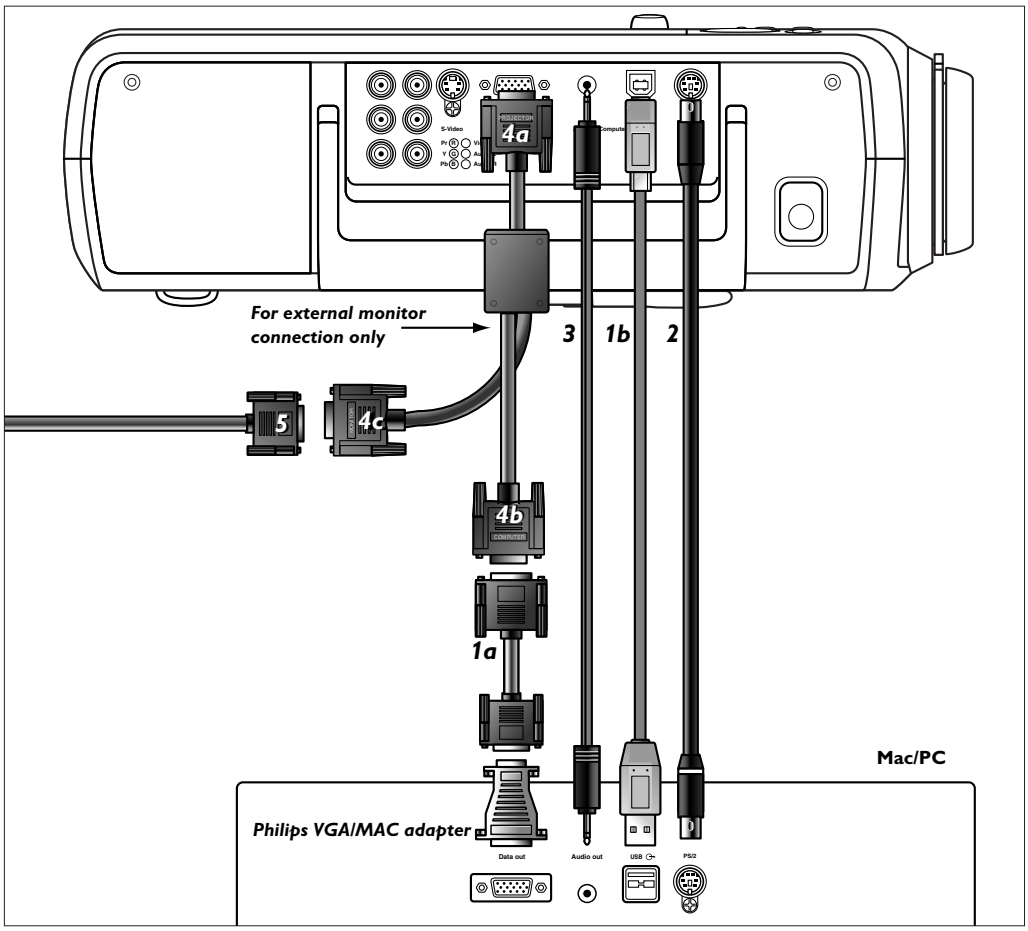
External monitor connection

A separate external monitor (or a second projector) can be connected to the projector. The image projected is simultaneously shown on the monitor, even when the projector is in Power/Standby or Off mode.

Video input

The projector accepts the input signal of all major video formats, including NTSC 3.58, 4.43, PAL B, G, D, H, I, N, M and SECAM signals. The projector will recognize these standards and adapt to them automatically. With the 'Picture format' feature you can select one of five picture format options 4:3, 16:9, 16:9 enlarged, 4:3 on a 16:9 screen or 16:9 on a 4:3 screen.

CAUTION *Always switch off projector and external equipment before making any connections.*



PC/Macintosh

1 Connect the Data (out) socket of the computer to the Computer (in) socket of the projector and secure the plugs by tightening the thumb screws.
For this, use the VGA/USB cable supplied ***(1a)***.

2 Connect the USB (upstream) socket of the projector to the USB downstream port of the computer.
For this, use the VGA/USB cable supplied ***(1b)***.

or:

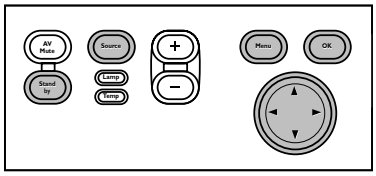
2 Connect the PS/2 (out) socket of the projector to the PS/2 (in) socket of the computer.
For this, use an optional PS/2 cable ***(2)***.

- When switching on, *first* switch on the projector and *then* the PC.

– You can now manipulate the mouse cursor on the computer and on the screen, using Cursor Control on the remote control. When using the USB connection, make sure Windows 98, Windows ME, Windows 2000 or Windows XP is installed on the computer.
– The display settings of the computer will be changed to fit the capability of the projector.
– Audio information from the computer will now be heard via the projector speaker *(only with bSure2 Brilliance version):*

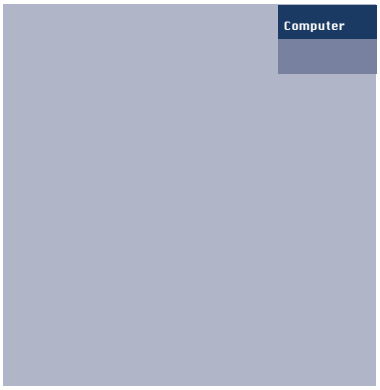
3 If required you can connect the Audio out socket of the computer to the Audio in Computer socket of the projector.
For this use an optional audio cable ***(3)***.

– Audio information from the Computer will then be played via the projector speaker.

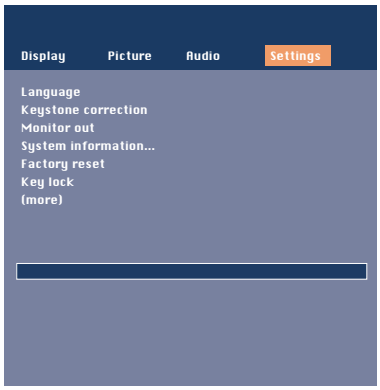


Connecting to an external monitor

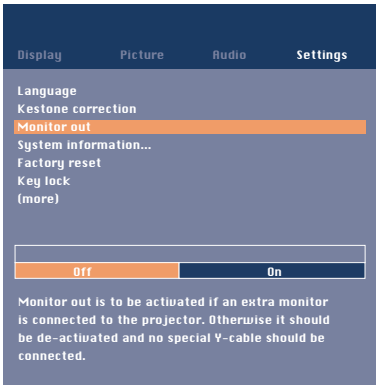
1 Connect the VGA Y connector marked 'Projector' ***(4a)***, of an optional VGA Y-cable, to the Computer (in) socket of your projector.
2 Connect the VGA cable supplied ***(1a)*** between the computer and the VGA Y connector marked 'Computer' ***(4b)***.
3 Connect the VGA Y connector marked 'Monitor' ***(4c)*** to the VGA cable ***(5)*** of the monitor.
4 Switch on your Computer.
5 Switch on the projector.
6 Select 'Computer' input, using the Source button.
– 'Computer' appears on the screen.

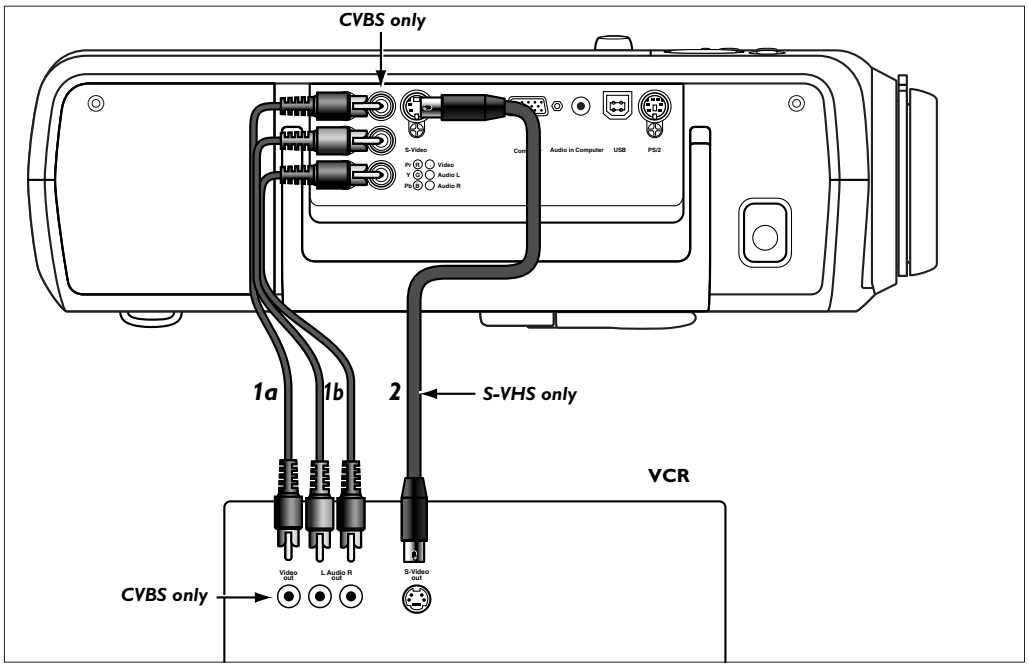


7 Press Menu.
– The menu bar appears on the screen.
8 Use Cursor Control to select 'Settings' in the menu bar.



9 Use Cursor Control to select 'Monitor out'.
10 Use Cursor Control to select 'On'.
– The projector will indicate the necessity to connect the Y-cable.
11 Switch on the external monitor.
– The image projected is simultaneously shown on the monitor.





CVBS

1 Connect the Video (out) socket of a VCR, Laser Disc player, video camera or TV to the Video (in) socket of the projector.
For this, use the video/audio connection cable ***(1a)*** supplied.

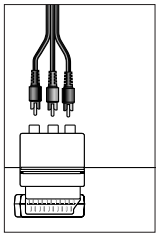
2 Connect the Audio out L/R sockets of the VCR, Laser Disc player, video camera or TV to the Audio (in) L/R sockets of the projector.
For this, use the audio/video connection cable supplied ***(1b)***.

S-VHS

1 Connect the S-Video (out) socket of a S-VHS video recorder, Laser Disc player, video camera or TV to the S-Video (in) socket of the projector.
For this use an optional S-Video connection cable ***(2)***.

2 Connect the Audio out L/R sockets of the S-VHS video recorder, Laser Disc player, video camera or TV to the Audio (in) L/R sockets of the projector.
For this, use audio/video connection cable supplied ***(1b)***.

Scart connection

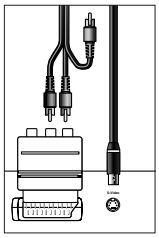


Scart adapter
(not for USA version)

CVBS

1 Connect the Scart/RCA Audio Video adapter supplied to the Scart connector of the VCR, Laser Disc player, video camera or TV.

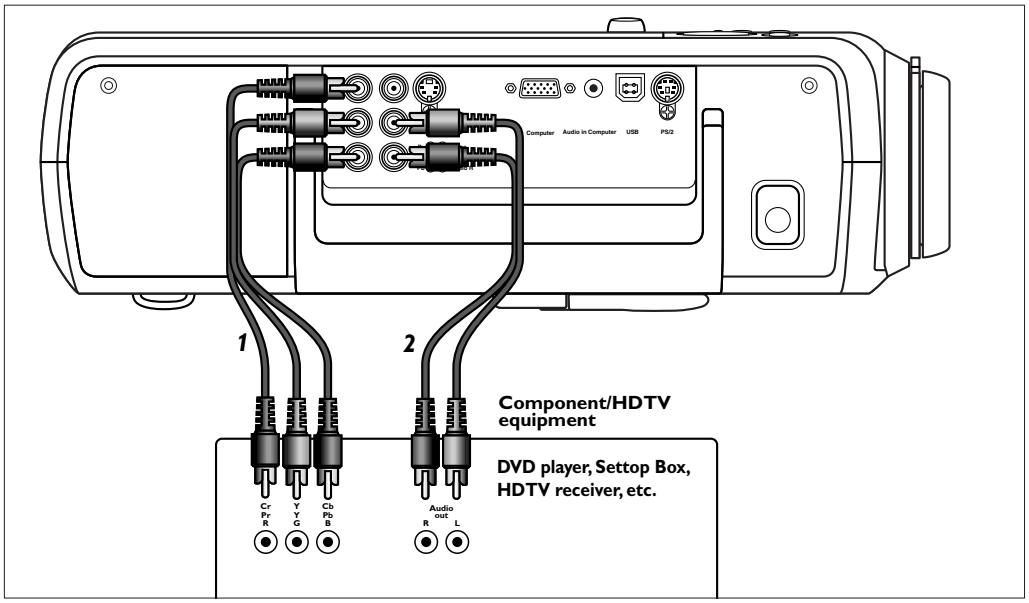
2 Plug the video/audio connection cable supplied into both the adapter and the Video and Audio (in) L/R sockets of the projector.



Scart adapter
(not for USA version)

S-VHS

3 Plug an optional S-Video connection cable into the VCR and the S-Video socket of the projector.



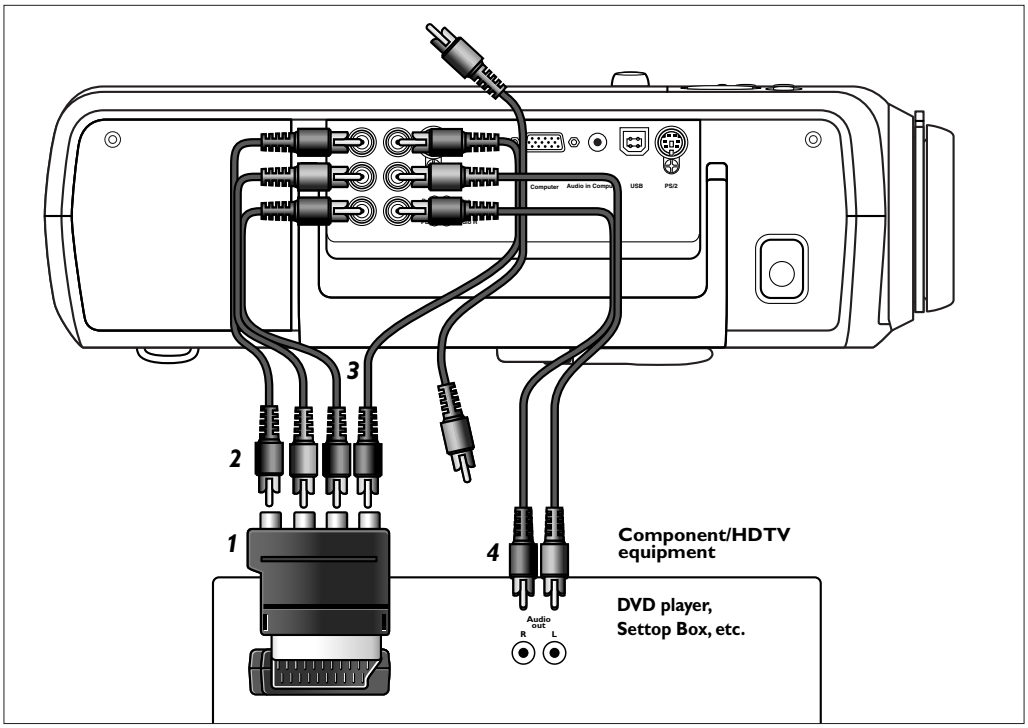
Component/HDTV

Pr, Y, Pb/Cr, Y, Cb

1 Connect the Component in sockets of the projector to the appropriate output sockets of your Component- or HDTV-video equipment (Pr, Y, Pb / Cr, Y, Cb).
For this, use the audio/video connection cable supplied ***(1)***.

2 If required you can connect the Audio out L/R sockets of the Component- or HDTV-video equipment to the Audio (in) L/R sockets of the projector.
For this, use an optional audio connection cable ***(2)***.

– Audio information from the Component- or HDTV-video equipment will be played via the projector speaker.



Scart connection

RGBS

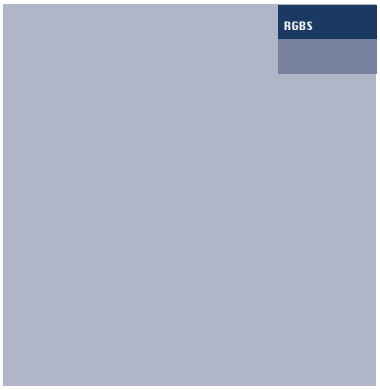
1 Connect an optional Scart/RCA Component Video adapter ***(1)*** to the Scart connector of your Component- or HDTV-video equipment

2 Connect the Component in sockets of the projector to the R, G and B outputs of the adapter.
For this, use the audio/video connection cable supplied ***(2)***.

3 Connect the Video input of the projector to the Y output of the adapter.
For this, use an optional audio/video connection cable ***(3)***.

4 Select 'RGBS' input by pressing the Source button.

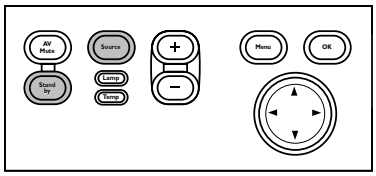
– 'RGBS' appears on the screen.



5 If required you can connect the Audio out L/R sockets of the Component- or HDTV-video equipment to the Audio (in) L/R sockets of the projector.
For this, use an optional audio connection cable ***(4)***.

– Audio information from the Component- or HDTV-video equipment will be played via the projector speaker.

General



1 Press the Standby button to switch on the projector.

– The Standby indicator lights up orange.
– When the projection lamp is on, the Standby indicator lights up green and the start-up screen (when enabled) appears for several seconds.

2 Select the required source (Computer, Component, RGBS, S-Video, Video) by pressing the Source button.

Note *When only one input source is connected, this source will automatically be selected (Auto Source). When more input sources are connected, the source with the highest priority will be selected (Computer, Component, RGBS, S-Video, Video). Source selection can be changed in the 'Settings' menu.*

3 Switch on the computer or start video playback.
– A feedback message appears on the screen, indicating the selected source.

Messages

General explanation

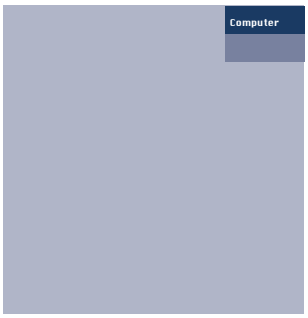
Messages are displayed in the centre of the screen. The problem is described in the header of the message display. Suggestion(s) to solve the problem are displayed in the gray part of the message display.
These messages cannot be suppressed.

Feedback messages

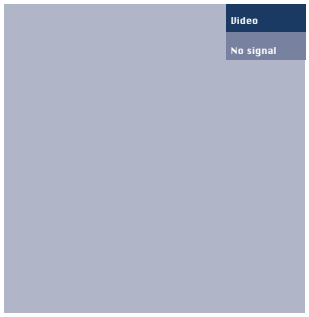
Feedback messages are displayed in the top right corner of the screen. They are displayed when:
– a signal comes up or goes down;
– when an input source is changed;
– when Mute or A/V Mute is activated;
– when the Auto image function is set to On.

Some examples

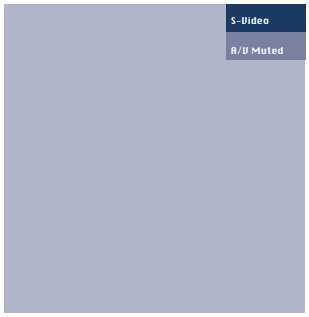
These messages will only be displayed when the menu option 'Feedback' is set to 'On' in the 'Settings' menu. All messages will be removed automatically after 4 seconds.



Computer selected as source



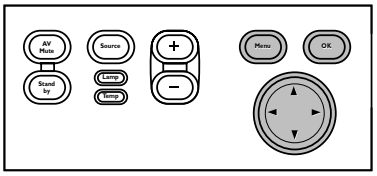
Video selected as source, no input signal



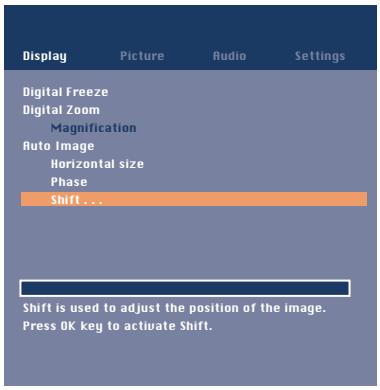
S-Video selected as source, A/V muted

Component selected as source A/V muted

Menu tree



All video and data adjustments and settings (except A/V Mute) are done via *On Screen Displays* and with help of Menu, OK and Cursor Control on the projector or the remote control.
The projector is set to standard settings at the factory. However, you can adjust these settings to suit your own preferences.
The projector menu screens allow you to adjust the various projector settings (for both Computer and Video). For explanation and operation see next pages.

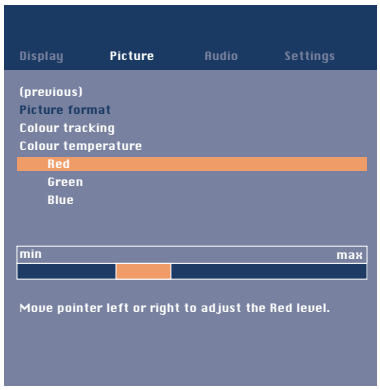


COMPUTER MODE

Main menu	Sub menu		Setting	
Display	Digital Freeze		Off	On
	Digital Zoom		Off	On
		Magnification	min	max
	Auto Image		Off	On
		Horizontal Size	min	max
		Phase	min	max
		Shift	Cursor controlled Shift	
Picture	Brightness		min	max
	Contrast		min	max
	Mirror		AB AB AB AB	
	Colour tracking		vivid	natural
	Colour temperature		warm	cool
		Red	min	max
		Green	min	max
		Blue	min	max

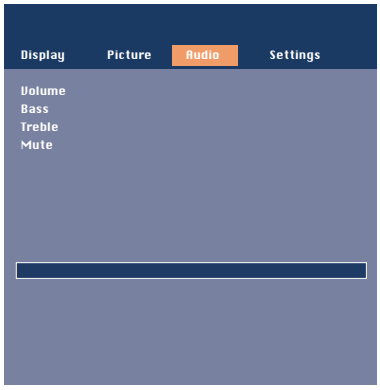
VIDEO/S-VIDEO MODE

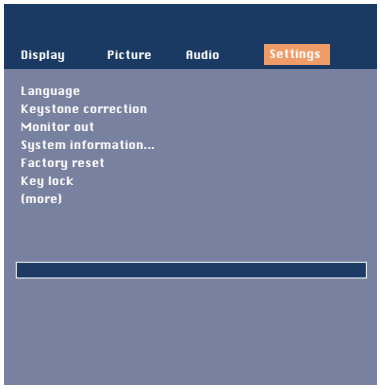
Main menu	Sub menu		Setting	
Display	Digital Freeze		Off	On
	Digital Zoom		Off	On
		Magnification	min	max
Picture	Brightness		min	max
	Contrast		min	max
	Hue (NTSC only)		min	max
	Saturation		min	max
	Sharpness		sharp	soft
	Mirror		AB AB AB AB	
	Picture format		4:3, 16:9, 16:9 enlarged 4:3 on a 16:9 screen 16:9 on a 4:3 screen	
	Colour tracking		vivid	natural
	Colour temperature		warm	cool
		Red	min	max
		Green	min	max
		Blue	min	max

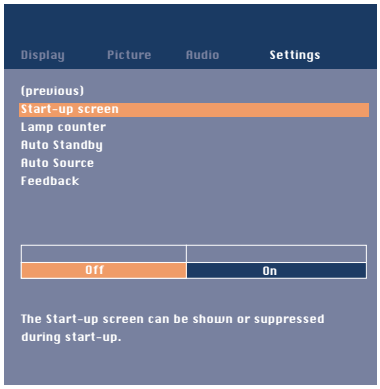


Menu tree

GENERAL ADJUSTMENTS/SETTINGS

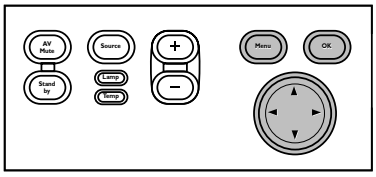




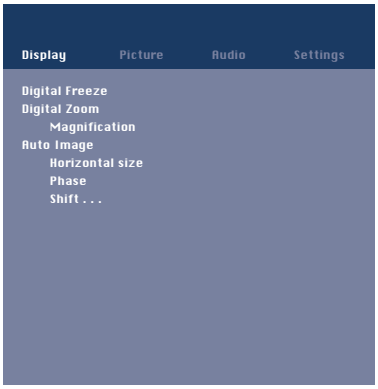


Main menu	Sub menu	Setting	
Audio	Volume	Min	Max
	Bass	Min	Max
	Treble	Min	Max
	Mute	Off	On
Settings	Language		
		Eng.	
		Esp.	
		Deu.	
		Fra.	
		Por.	
		Ita.	
		Chi.	
	Keystone correction		
	Monitor out	Off	On
	System information	OK	
	Factory reset	OK	
	Key lock	OK (3 sec.)	
	Start-up screen	Off	On
	For bSure2 Brilliance projectors only	Default, Off, Custom, Load	
	Lamp counter	OK (3 sec.)	
	Auto Standby	Off 15 30 45 60 120	
	Auto Source	Off	On
	Feedback	Off	On

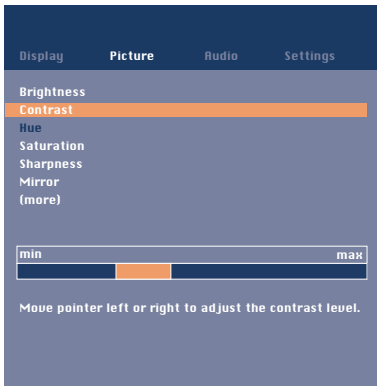
General explanation



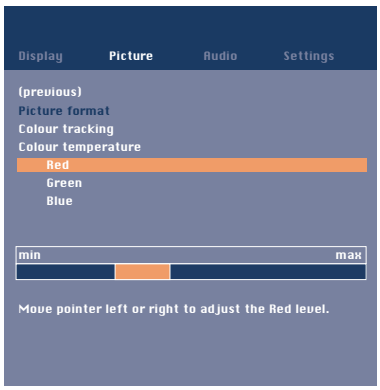
1 Press Menu.



– The menu bar appears on the screen.
The first item is highlighted and its sub menu is shown.



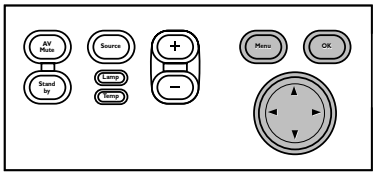
Depending on the selected source (Computer, Component, RGBS, S-Video, Video) some options of the submenu may be greyed out. This indicates that these functions:
– are not available in a certain mode,
– have no function for the selected source.
For example:
– Horizontal size under menu 'Display' when Auto image is switched to ON.
– Hue under menu 'Picture' when signaltype is not NTSC.



2 Use Cursor Control left and/or right to move the cursor to any other item in the menu bar.
3 Select the sub menu item to be adjusted using Cursor Control up and/or down. When more items are available than can be shown in one screen, this will be indicated by 'more' at the bottom of the list. Move the cursor down to go to the next list of items. With 'previous' you can go back to the first list.
4 Adjust the selected item in the action window at the bottom of the screen, using Cursor Control left and/or right.
5 Select the next item to be adjusted in the sub menu and adjust as described above.
6 Press Menu to close the On Screen 'Display'.

Computer adjustments

For computer signal input, the following 'Display' and 'Picture' adjustments can be made.



Tip for Windows users

To adjust size and phase correctly

1 *Select 'Start' and then 'Shut down' from the Windows Taskbar.*

2 *Adjust the projectors size control, so that no vertical bars are visible.*

3 *Now adjust the projectors phase control for maximum brightness of the projected image.*

4 *Press 'No' in the Windows shutdown screen to cancel the shutdown action.*

Display adjustments

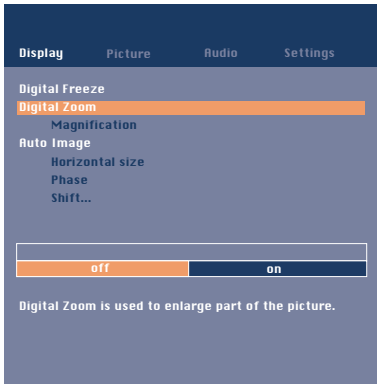
- Press Menu and select 'Display' in the menu bar. The following 'Display' adjustments can now be made according to the instructions under 'General explanation':
  - *Digital Freeze*
    captures a moving picture (still picture);
  - *Digital Zoom*
    enlarges a part of the picture;
  - *Magnification*
    adjusts the zoom factor;
  - *Auto image*
    automatically sizes and positions the image to fit optimally in the screen picture;
  - *Horizontal size*
    adjusts the computer image in a horizontal direction to make the image completely fill the screen;
  - *Phase*
    minimises picture imperfections. When connecting the projector to your PC for the first time, be sure to adjust the phase control for optimal readability of the projected text;
  - *Shift*
    adjusts the computer image in horizontal and vertical direction to centre it on the screen.

Some examples

The following 'Display' adjustment procedures, follow a slightly different sequence of actions, or may need some further explanation.

Digital Zoom/Magnification

'Digital Zoom' is used to enlarge a part of the picture.



1 Press Menu.

– The menu bar will appear.
'Display' is highlighted and its sub menu is shown.

2 Use Cursor Control to move the cursor to 'Digital Zoom'.

3 Select 'On' to switch 'Digital Zoom' on.
- Press OK to continue, or
- Press Menu to exit and continue with the previous Zoom settings.

4 Use the zoom target to select centre of the screen area you wish to enlarge.
- Press OK to confirm.

5 Use the Magnification slider to adjust the Zoom factor.
- Press OK to confirm and exit the menu.

6 Use Cursor Control to select another section of the enlarged area ('Panning').

Note

By pressing the D(igital) Zoom button on the remote control you enter directly into the zoom centre selection screen (step 4). When Digital Zoom is already active, pressing the D(igital) Zoom button will show the Magnification slider; pressing the D(igital) Zoom button twice will turn off Digital Zoom.

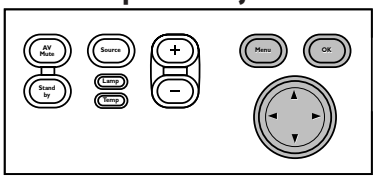
Auto image

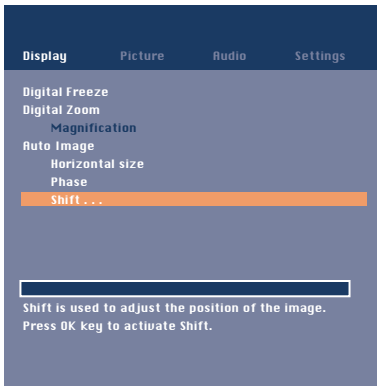
The Auto Image function automatically sizes and positions the image to fit optimally in the screen picture. In addition it takes care for phase adjustment. It does not affect the selected picture format. When Auto Image is set to On, the Horizontal size, Shift and Phase options are greyed out.

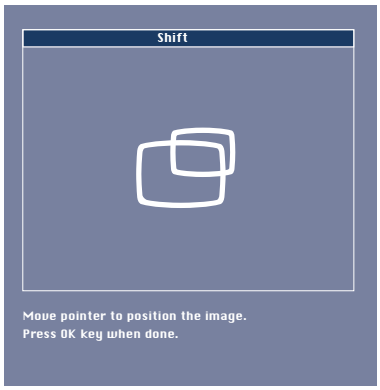
Horizontal size

The Horizontal size function is used to size a computer image to make it fit the projected picture. When the OSD menu is active and the horizontal size option is selected, the level will be indicated graphically on a linear scale (slider).

Computer adjustments







Shift

The Shift function adjusts the computer image in horizontal and vertical direction to centre it on the screen. This function is only active when 'Auto image' is set to 'Off'.

1 Press Menu.

– The menu bar appears on the screen.
– 'Display' is highlighted and its sub menu is shown.

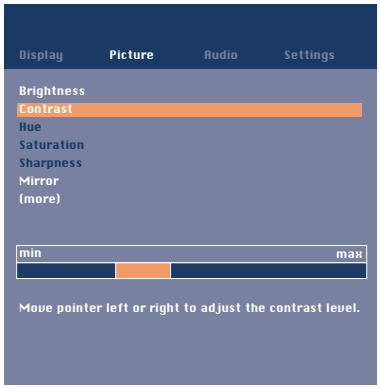
2 Use Cursor Control to move the cursor to 'Shift'.

3 Press OK to activate Shift.

4 Use Cursor Control to position the computer image.

5 Press OK to confirm and store the adjustment.

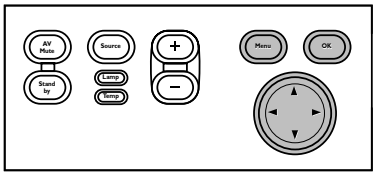
6 If required, select the next item to be adjusted or press Menu to exit.

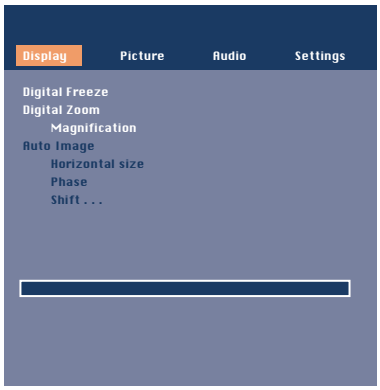


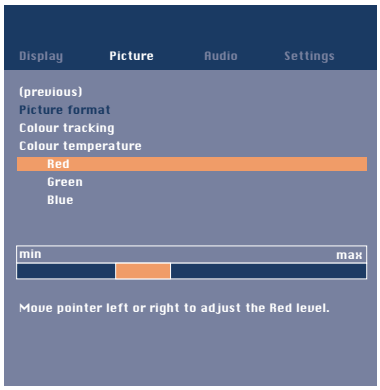
Picture adjustments

- Press Menu and select 'Picture' in the menu bar. The following 'Picture' adjustments can now be made according to the instructions under 'General explanation':
  – *Brightness*
  adjusts brightness of the displayed picture;
  – *Contrast*
  adjusts the overall contrast intensity;
  – *Mirror*
  mirrors the picture for use of the projector in various positions with respect to the user(s) and the projection screen;
  – *Colour tracking*
  selects between 'Vivid' and 'Natural' representation of colours in the picture.
  'Vivid' is automatically set when computer input is used;
  'Natural' is automatically set when video input is used.
  – *Colour Temperature*
  adjusts the overall colour impression from warm to cool.
  The various colours (red, green and blue) can also be adjusted individually.

Video/S-Video adjustments







For Video/S-Video signal input, the following 'Display' and 'Picture' adjustments can be made:

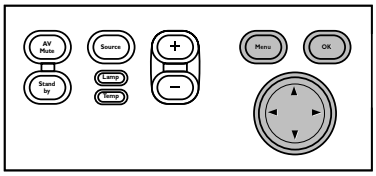
Display adjustments

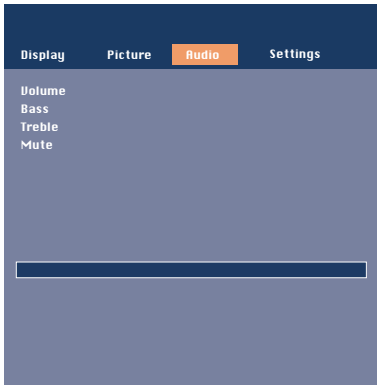
- Press Menu and select 'Display' in the menu bar. The following 'Display' adjustments can now be made according to the instructions under 'General explanation'.
  For adjustment of 'Digital Zoom/Magnification', see explanation under 'Data adjustments'.
  – *Digital Freeze*
  captures a moving picture (still picture);
  – *Digital Zoom*
  enlarges a part of the picture;
  – *Magnification*
  adjusts the zoom factor.

Picture adjustments

- Press Menu and select 'Picture' in the menu bar. The following 'Picture' adjustments can now be made according to the instructions under 'General explanation':
  – *Brightness*
  adjusts brightness of the displayed picture;
  – *Contrast*
  adjusts the overall contrast intensity;
  – *Hue (only for NTSC)*
  adjusts the tint of the projected image;
  – *Saturation*
  adjusts the colour saturation of the projected image;
  – *Sharpness*
  controls the contour impression of the picture;
  – *Mirror*
  mirrors the picture for use of the projector in various positions with respect to the user(s) and the projection screen;
  – *Picture Format*
  selects one of five picture format options (4:3, 16:9, 16:9 enlarged, 4:3 on a 16:9 screen or 16:9 on a 4:3 screen);
  – *Colour tracking*
  selects between 'Vivid' and 'Natural' representation of colours in the picture.
  'Vivid' is automatically set when computer input is used;
  'Natural' is automatically set when video input is used.
  – *Colour Temperature*
  adjusts the overall colour impression from warm to cool.
  The various colours (red, green and blue) can also be adjusted individually.

General adjustments



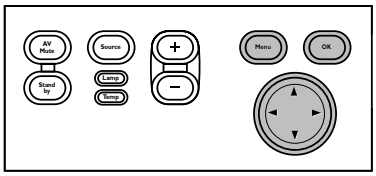


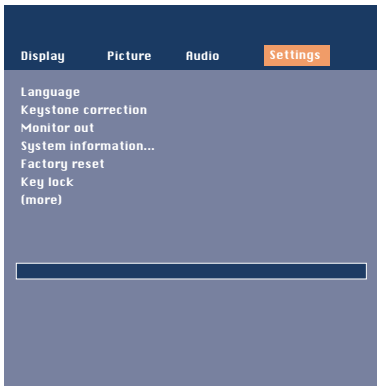
Audio adjustments

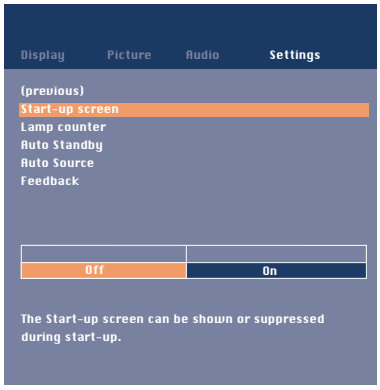
- Press Menu and select Audio in the menu bar. The following Audio adjustments can now be made for both Computer, Component and Video/S-video input, according to the instructions under 'General explanation':
  - *Volume*
    adjusts the sound level;
  - *Bass*
    adjusts the bass tones;
  - *Treble*
    adjusts the high tones;
  - *Mute*
    mutes the sound of the projector.

The volume can also be adjusted with the – Volume + keys on the remote control and local keyboard.

General settings







The projector is equipped with the following functions to optimize its use and handling:

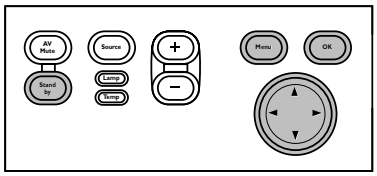
- Press Menu and select Settings in the menu bar. The following settings/adjustments can now be made for both Computer, Component and Video/S-video input, according to the instructions under 'General explanation':
  - *Language*
    To select the required menu language;
  - *Keystone correction*
    To correct picture distortion of the vertical keystone type by internal scaling;
  - *Monitor out*
    Enables image on second monitor connected;
  - *System information*
    The System Information sub menu contains an overview of the most relevant projector settings, including information on the hardware and software configuration;
  - *Factory reset*
    To reset all user settings to the default factory settings;
  - *Key lock*
    To de-activate all remote and local controls. To disable the keylock function keep the OK button pressed for 10 seconds;
  - *Start-up screen*
    To display (On) or suppress (Off) the default Philips start-up screen upon the projector's start up.
    For bSure2 Brilliance projectors only: To display (Default) or suppress (Off) the default Philips start-up screen upon the projector's start up and to select (Custom) and store (Load) a start-up screen of your own choice.
  - *Lamp counter*
    To show the operating time of the lamp, which can be reset after a new lamp has been installed;
  - *Auto Standby*
    To switch off Auto Standby mode or to select the delay time after which the projector automatically switches to Standby;
  - *Auto Source*
    To switch automatic source selection on or off;
  - *Feedback*
    To suppress OSD messages. Warning or error messages however are never suppressed.

Loading your own personal start-up screen

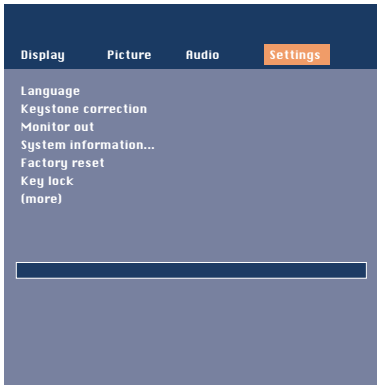
(for bSure2 Brilliance projectors only)

All settings described under 'Other settings' can be made according to the instructions under 'On Screen Display Menu - General explanation'. Loading your own personal start-up screen however follows a slightly deviant procedure which we will describe hereafter.

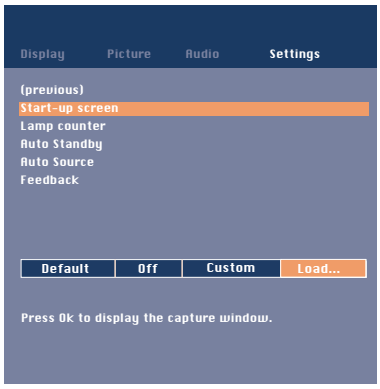
You can load any image as long as the size of the image does not exceed 128 Kb. The more detailed the image is the larger its size will be. The image must be projected on the screen.



1 Press Menu.



– The menu bar appears on the screen.



2 Use Cursor Control to move the cursor to Settings.

3 Select Start-up screen by using Cursor Control.

4 Select Load if you wish to load the currently shown image and store it as start-up screen.

– The menu bar disappears and the image is shown.

5 Press OK to display the capture window.
The capture window (red oblong) shows you what part of the image will be loaded.

6 With Cursor Control you can move the window to select the part of the image you wish to load.

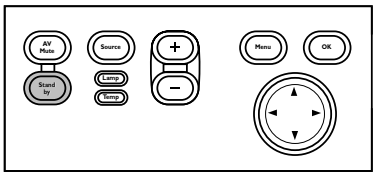
• Press OK if you wish to resize the capture window in order to make the image fit in the window. You can use Cursor Control to adjust the size of the window.

7 Keep OK pressed for 3 seconds to confirm.

– 'Capturing' appears on the screen and the image will now be loaded. The loading time is dependent on the size of the image and may take up to a few minutes.

– When the image is loaded 'Capture complete' and 'Please reset projector' appear on the screen.

8 You will now have to reset the projector. For this see 'Resetting the projector' hereafter.



Resetting the projector

1 Press the Standby button *twice* in succession to switch the projector into the Power/Standby mode.

2 Wait until the cooling fan has stopped (about 3 minutes after the projector has been switched to Power/Standby). Then disconnect the mains lead to switch off the mains supply.

3 Connect the mains lead again and press the Standby button to switch the projector back into Power/Standby mode.

– The Standby indicator lights up red, the projector is now in the Power/Standby mode.

4 Press *any* button on projector or remote control to switch on the projector.

– The Standby indicator lights up orange.

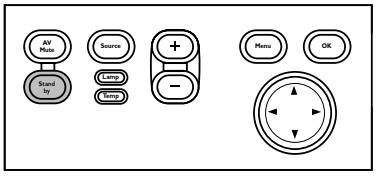
– When the projection lamp is on, the Standby indicator lights up green and your personal start-up screen appears.

Note *Your personal start-up screen will appear each time the projector is switched on exept when the SecurityMax™ application has been activated. The SecurityMax™ start-up screen will then appear.*

6. Maintenance

Cleaning

Caution



Switch off and disconnect the projector before cleaning.

1 Press the Standby button *twice* to switch off the projector.

– The Standby indicator starts blinking orange.

2 Wait until the cooling fan has stopped (about 3 minutes after the projector has been put in Standby) and disconnect the mains lead and all other cables.

Cleaning the cabinet

- When the cabinet is dusty, clean it by gently wiping with a soft cloth.
- A chamois leather slightly moistened with water is sufficient for cleaning the housing.
- Do not use cleaning agents as they may harm the housing.

Cleaning the lens

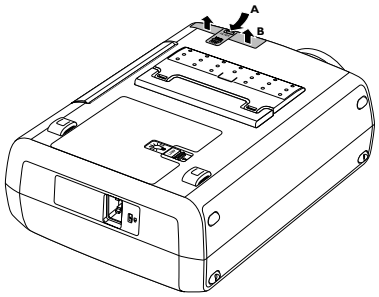
- When the lens is dirty or dusty, first blow the dust off and then gently wipe with a soft brush or lens cleaning paper. Never touch the lens with your fingers.

– The lens is likely to become mouldy if left dirty.

Cleaning the dust filter

Important

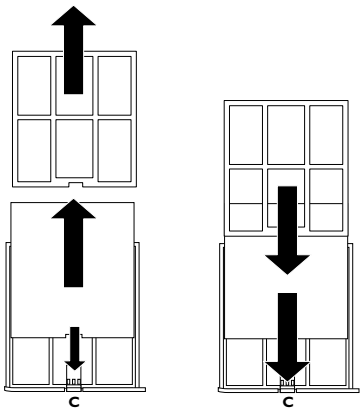
Make sure to clean the dust filter regularly.



1 Switch off the projector and wait until the cooling fan has stopped before disconnecting the projector.

2 Turn the projector over. *Never place the projector on the side where the connections are located!*

3 Press tab A and remove filter holder B from the projector.

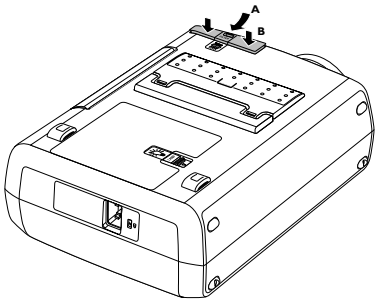


4 Press clamp C, open the holder and remove the filter.

5 While firmly holding the filter, gently remove any accumulated dust, from the dusty side, with a vacuum cleaner.

6 Press clamp C, put the filter back in place and release clamp C. Firmly press the filter edges in place.

7 Close the filter holder.



8 Press tab A and insert the filter B into the projector.

Notes

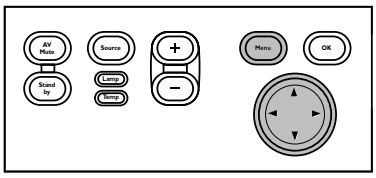
We advise you to clean the filter every 100 hours. Operating the projector without filter or with a torn or damaged filter may seriously damage the projector.

When the filter is damaged replace it with a filter of the same type (12 nc: 3122 434 0157 0).

The projector power cannot be switched on again unless the filter holder is installed correctly.

Lamp

When operation time reaches the last 100 hours of the average lamplife, the message 'Warning: lamplife has almost expired' will be displayed on the screen, each time the projector is switched on. The lamp indicator lights up orange.



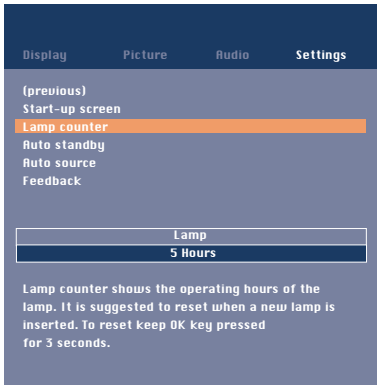
The lamplife remaining can be checked using the OSD menu.

1 Press Menu.

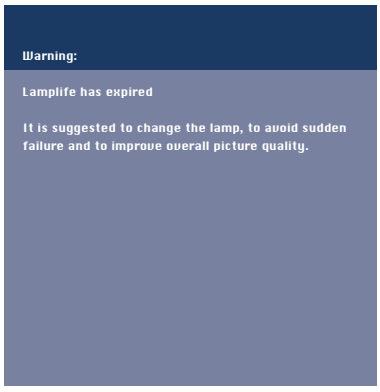
– The menu bar appears on the screen.

2 Use Cursor Control to move the cursor to 'Settings'.

3 Use Cursor Control to select 'Lamp counter'.

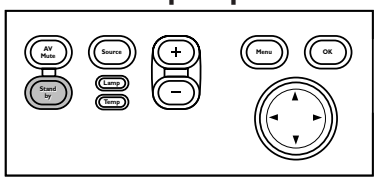


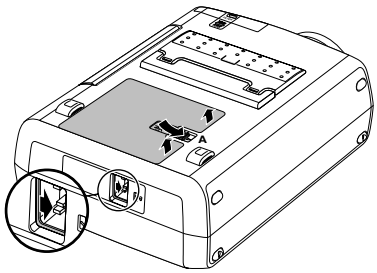
– The remaining lamplife hours are displayed in the action window at the bottom of the screen.



– When the lamplife has expired, the lamp indicator lights up red and the message 'Warning: lamplife has expired' is displayed on the screen.

Lamp Replacement





1 Switch off the projector and wait until the lamp has cooled down (about 5 minutes) before disconnecting the projector. Remove the mains lead from both projector and wall socket. ***The mains lead must be disconnected from the projector otherwise the lamp door cannot be removed.***

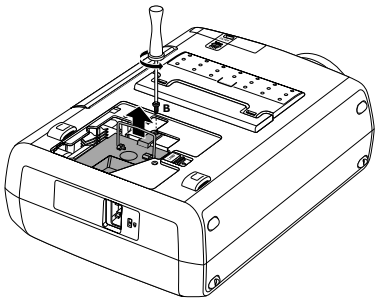
2 Turn the projector over. *Never place the projector on the side where the connections are located!*

3 Push tab A to the right and remove the lamp door.

– When tab A is pressed the mains inlet socket will be partly closed. *The lamp door therefore cannot be removed if the mains lead is not disconnected from the projector.*

4 Read the caution and warning labels on the lamp holder.

Lamp replacement



5 Unscrew screw B.

6 Grasp the lamp holder handle and carefully pull the lamp holder out of the projector.

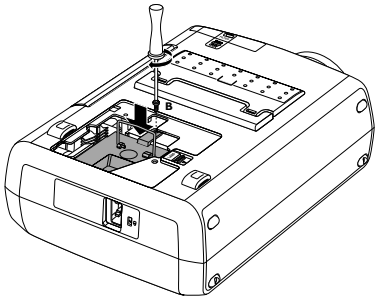
- Do not tilt. If the inner tube is broken glass particles may fall out.
- Keep lamp holder opening to your right. Do not touch lamp or point lamp holder opening at anyone.

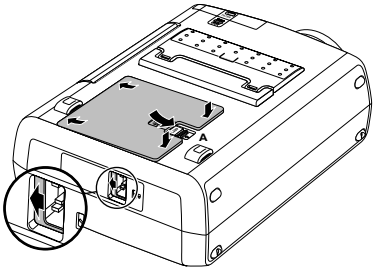
7 Carefully remove the new lamp housing from its package.

- Always use the same type of lamp: See 'Optional accessories' for the correct type of lamp for your projector.
- Do not touch lamp or point lamp housing opening at anyone.
- Do not drop, as the impact may cause the lamp to break.

8 Place the lamp holder in the guiding slots and insert into the lamp compartment.

9 Tighten screw B again.





10 Put the lamp door back in place and press tab A back in its original position.

– The Mains inlet socket will open again.

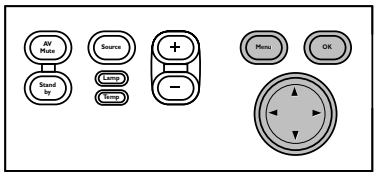
11 Insert the mains lead into both the projector Mains inlet socket and the wall socket.

12 Press the Standby button to switch on the projector.

13 Reset the lamp life time (see 'Resetting the lamplife time').

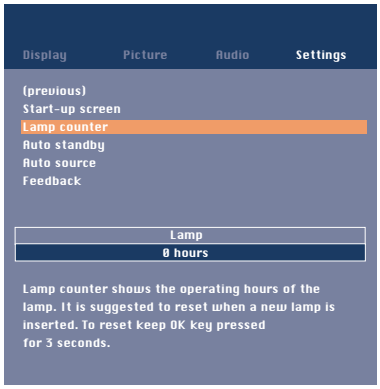
14 Dispose of the old lamp in special chemical disposal bins.

Resetting the lamplife time



1 Press Menu.

– The menu bar appears on the screen.



2 Use cursor control to select 'Settings' in the menu bar.

3 Use cursor control to select 'Lamp counter' in the sub menu.

4 Press OK for 3 seconds to reset the lamp counter.

5 If required, select another item you wish to adjust or press Menu to exit.

7. Troubleshooting >

If a fault occurs, first check the points listed below before taking the projector for repair.
If you are unable to remedy a problem by following these hints, consult your dealer or service organisation.

Warning *Under no circumstances should you try to repair the projector yourself as this could invalidate the guarantee.*

Read as follows

Problem	– *Possible cause* • Solution
Image is not or incorrectly displayed	***General*** – *Mains lead is not correctly connected.* • Correctly connect mains lead. – *The filter holder is not installed correctly or is damaged.* • Install the filter holder correctly (see 'Cleaning the dust filter' under 'Maintenance'). – *Lamp holder cover is not closed correctly or the lamp holder is damaged.* • Close the cover correctly (see 'Lamp replacement' under 'Maintenance'). – *Signal cable not correctly connected.* • Connect signal cable correctly. – *The projector is in Off position.* • Press Standby to switch on the projector. – *A/V Mute active.* • Cancel A/V Mute. – *'Shift' and/or 'Horizontal size' are not adjusted correctly.* • Adjust 'Shift' or 'Horizontal size' (see 'Display adjustment' under 'Operation' - 'On Screen Display Menu'). • Activate the 'Auto-image' function via the On Screen Display menu. ***In Component Video mode*** – *'Auto Image' has not selected the correct settings for 'Shift' and/or 'Horizontal Size'.* • Adjust 'Shift' or 'Horizontal size' (see 'Display adjustment' under 'Operation' - 'On Screen Display Menu'). • Activate the 'Auto-image' function via the On Screen Display menu. • Reset all settings to the default factory settings with the 'Factory reset' option in the 'Settings' menu. – *Keystoning is applied on a high resolution component signal.* • Decrease keystoning until the image is correctly displayed. For this use the 'Keystone correction' option in the 'Settings' menu.

In Data mode

– *Input resolution is too high (and keystoning is applied).*
- If you wish to keep the keystone correction, decrease the input resolution until the image is correctly displayed. For this, refer to the User Guide or support information of the computer.
- If you wish to keep the input resolution as it is, decrease keystoning until the image is correctly displayed. For this, use 'Keystone correction' option in the 'Settings' menu.

– *Input resolution is too high (and no keystoning is applied).*
- Decrease the input resolution until the image is correctly displayed. For this, refer to the User Guide or support information of the computer.

In case of RGBS (Scart) connection:

– *RGBS is not selected or Auto Source is activated (does not recognize RGBS).*
- Select RGBS as projection source with the Source button on the projector or the remote control.

Poor colour

- Adjust 'Brightness', 'Contrast', 'Saturation' or 'Hue' (see 'Picture adjustment' under 'Operation' - 'On Screen Display Menu').
- Reset all projector settings in the 'Settings' menu ('Factory reset').

Image is blurred

– *Image is not focused.*
- Adjust focus ring.

– *Distance between projector and screen is not correct.*
- Adjust the distance between the projector and the screen.

– *Signal cable is not correctly connected.*
- Connect signal cable correctly.

Picture rolls

– *Signal cable is not correctly connected.*
- Connect signal cable correctly.

No sound

– *Audio cable is not correctly connected.*
- Connect audio cable correctly.

– *Volume is not adjusted properly.*
- Adjust volume.

– *(A/V-)Mute active.*
- Cancel (A/V-)Mute.

The projector does not react to commands from the remote control

– *Distance is too great.*
- Reduce distance.

– *Batteries are exhausted.*
- Replace batteries (see 'Inserting the batteries in the remote control').

– *IR sensor is obstructed.*
- Remove obstacle.

Indicators

Lamp indicator

– green: normal lamp condition.
– orange: lamp life has almost expired (less than 100 hours to go).
  • See warning messages on the start up screen for details.
– red: lamp life has expired.
  • Replace lamp. See 'Maintenance'.
– red (fast blinking): lamp start has failed.
  • Disconnect projector from the mains. Reconnect and restart. If this does not resolve the problem, replace the lamp. See 'Maintenance'.

Temperature indicator

– red: temperature error.
  • The projector will go into Power/Standby mode. Allow the projector to cool down; this may take up to 30 minutes. When the LED goes out press any button to activate the projector again.
– fast blinking red: fan error.
  • The projector will go into Power Standby mode. Make sure the filter cover is closed properly; clean air inlets or dust filter and allow the projector to cool down; this may take up to 30 minutes. When the LED stops flashing press any button to activate the projector again.

Standby indicator *(text on Standby button/ring around Standby button)*

– red: standby mode.
– green: operation mode.
– orange: warming up.
– slow blinking (orange): cooling down.
  • Do not switch the projector off; it will restart the lamp automatically within a few seconds.

Picture too dark or bright with external monitor connected

– *'Monitor out' has been enabled, but the external monitor is not correctly connected (the picture on both displays is too bright).*

• Connect the (optional) VGA Y-cable (See 'Connecting to an external monitor' under 'Installation').
• If the VGA Y-cable is correctly connected, verify whether the input impedance of the monitor is correctly set on 75 Ohm.

– *'Monitor out' has not been enabled, but the external monitor is connected (the picture on both displays is too dark).*

• Enable the 'Monitor out' option. Press Menu and use cursor control to go to 'Settings' in the menu bar. Select 'Monitor out' and select 'On'.

No reaction when pressing keys on local keyboard or remote control

– *'Keylock' active.*

• Press OK for 10 seconds to cancel 'Keylock.'

The mouse cursor does not react when using the cursor control on the remote control

General:

- Check that the batteries are installed properly in the remote control and/or replace the batteries.
- Check that the projector receives the signals from the remote control.
- Check that the USB cable or PS/2 cable has been properly connected.
- Check that both projector and computer are switched on.
- Unplug the USB cable or PS/2 cable and then reconnect.

In case of PS/2 connection:

– *The PS/2 mouse of the connected laptop has priority over the projector mouse loop through connection.*

- Disable the PS/2 mouse of the laptop by selecting 'Disable in hardware profile' in the 'Windows Mouse Properties' of the laptop. Then restart 'Windows' on the laptop.
  The projector mouse loop through connection now has priority while the laptop mouse can still be used.

- Switch off all devices and then reconnect while you make sure that you:
  - connect the PS/2 cable to PC and projector *before* switching on the PC;
  - switch on the projector *before* switching on the PC;
  - *do not* connect the USB cable when making the PS/2 connection.

- Also refer to the User Guide or support information of your computer.

In case of USB connection:

- Connect another USB device (mouse, scanner, webcam, etc.) and see if it works.
  If it does not work there is a problem with the computer.
- Also refer to the User Guide or support information of the computer.

– *'Windows' did not manage to install the driver correctly. In this case the 'Device manager' will contain a catagory 'Other devices.*
  - Disconnect the projector.
  - Remove all items listed under 'Other devices' in the 'Device manager'.
  - Restart the computer.
  - Reconnect the projector.

Computer asks for drivers

- In case the computer asks for monitor drivers, install the drivers on the CD-ROM supplied with the projector.
- In case the computer asks for a USB-device driver, install the required drivers on the CD-ROM supplied with the computer.

Image for personal start-up screen cannot be loaded

– *The size of the image exceeds 128 Kb.*

- Reduce the size of the capture window.
- Select another image.