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PROJECTOR OWNER'S MANUAL

Dukane

8039B

Need a replacement lamp for this projector?

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All product names used in this manual are the properties of their respective owners and are acknowledged.

Important Safety Information

Congratulations on purchasing the LCD projector!

Important:

It is strongly recommended that you read this section carefully before using the projector. These safety and usage instructions will ensure that you enjoy many years safe use of the projector. Keep this manual for future reference.

Symbols Used

Warning symbols are used on the unit and in this manual to alert you of hazardous situations.

The following boxes are used in this manual to alert you to important information.

NOTE:

PROVIDES ADDITIONAL INFORMATION ON THE TOPIC AT HAND.

IMPORTANT:

PROVIDES ADDITIONAL INFORMATION THAT SHOULD NOT BE OVERLOOKED.

CAUTION:

ALERTS YOU TO SITUATIONS THAT MAY DAMAGE THE UNIT

WARNING:

ALERTS YOU TO SITUATIONS THAT MAY DAMAGE THE UNIT, CREATE A HAZARDOUS ENVIRONMENT, OR CAUSE PERSONAL INJURY.

Throughout this manual, component parts and items in the OSD menus are denoted in **bold** font as in this example:
“Push the **Menu** button on the remote control to open the **Main** menu.”

General Safety Information

- Do not open the unit case. Aside from the projection lamp, there are no user-serviceable parts in the unit. For servicing, contact qualified service personnel.
- Follow all warnings and cautions in this manual and on the unit case.
- The projection lamp is extremely bright by design. To avoid damage to eyes, do not look into the lens when the lamp is on.
- Do not place the unit on an unstable surface, cart, or stand.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- Do not place heavy objects such as books or bags on the unit.

Power Safety

- Only use the supplied power adapter.
- Do not place anything on the power cord. Place the power cord where it will not be in the way of foot traffic.
- Remove the batteries from the remote control when storing or not in use for a prolonged period.

Replacing the Lamp

- Replacing the lamp can be hazardous if done incorrectly. Refer to “Replacing the Projection Lamp” on page 27 for clear and safe instructions for this procedure.
- Unplug the power cord.
- Allow the lamp sufficient time to cool.

Cleaning the Projector

- Disconnect the power plug before cleaning. Refer to “Cleaning the Projector” on page 30.
- Allow the lamp sufficient time to cool.

Regulatory Warnings

- Before installing and using the projector, read the regulatory notices in the “Regulatory Compliance” section on page 40.

About this manual

This manual is intended for end users and describes how to install and operate your LCD projector. This manual includes the following topics:

- Product description and features
- Hardware installation procedure
- Operation
- Maintenance
- Troubleshooting procedures
- Technical Specifications

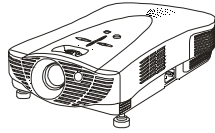
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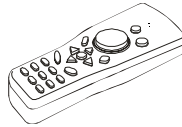
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Packing Checklist

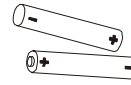
Carefully unpack the projector and check that the following items are included:



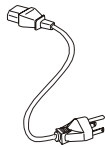
LCD projector



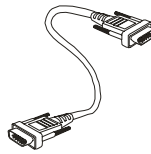
Remote control



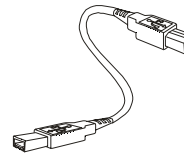
Two AAA batteries



Power cord



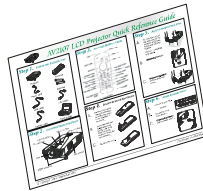
RGB cable



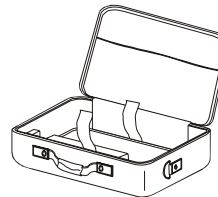
USB cable



CD-ROM (User's manual)



Quick start guide



Carrying case

Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work.

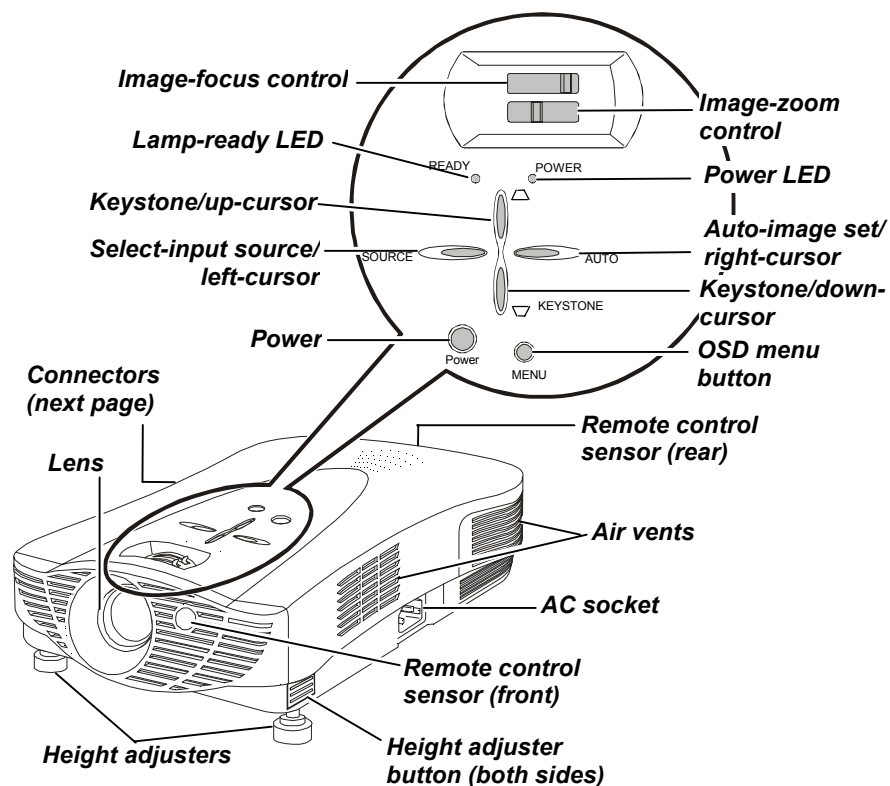
Main Features

- Lightweight unit, easy to pack away and transport
- Sleek easy-to-operate remote control with laser pointer and mouse pad
- Compatible with all major video standards including NTSC, PAL, and SECAM
- An 1200-ANSI lumens brightness rating allows for presentations daylight or in lit rooms
- Supports resolutions up to SXGA at 16.7 million colors to deliver crisp, clear images
- Flexible setup allows for front rear and ceiling projection
- Line-of-vision projections remain square, with advanced keystone correction for angled projections
- Input source automatically detected

CAUTION:

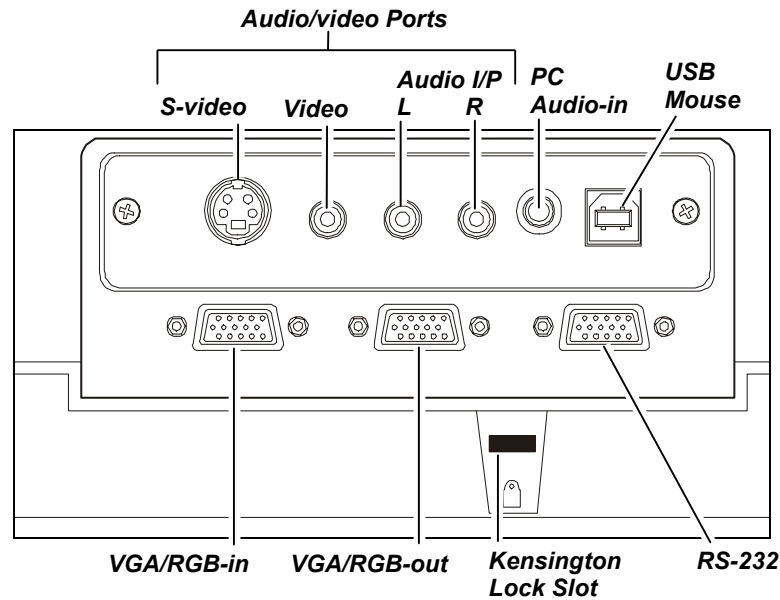
AVOID USING THE PROJECTOR IN DUSTY ENVIRONMENTS.

Projector Parts



LED	Status	Description
Lamp-ready	Orange	Lamp ready—you can safely turn on or off the projector
	Flashing	Lamp not ready—do not press the power button
Power	Green	Unit is powered on and working correctly
	Off	Unit is powered off
	Flashing	Operational error code (refer to “LED Error Messages” on page 33)

Projector Connectors

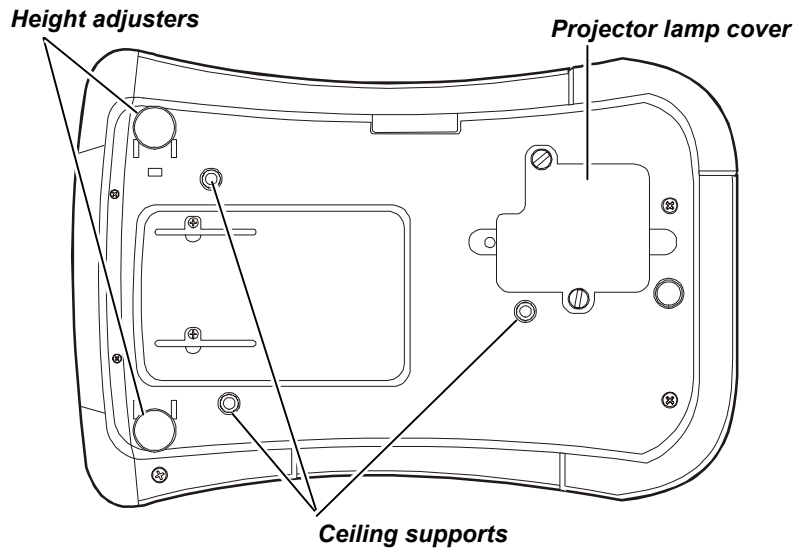


Connector		External device	Refer to:
Audio/ video ports	S-video	Connect to VCR, DVD player, or digital video camera	Page 11
	Video		
	Left audio		
	Right audio		
Stereo mini-jack		Connect to PC	Page 11
USB Mouse			
VGA/RGB-in			
VGA/RGB-out		Connect to 2 nd projector or display	
RS-232		Service port for firmware upgrades	
Kensington Lock		Secure to permanent object with a Kensington lock system	Page 31

NOTE:

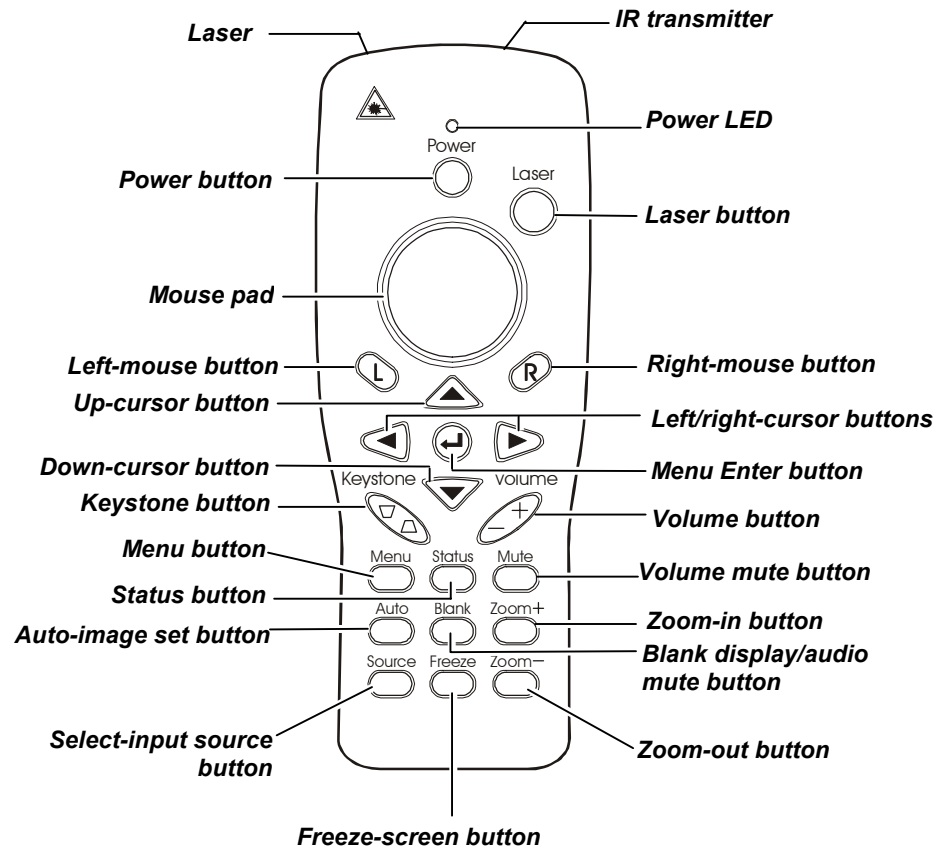
IF YOUR VIDEO EQUIPMENT HAS BOTH S-VIDEO AND RCA JACKS, CONNECT TO THE S-VIDEO CONNECTOR. S-VIDEO PROVIDES A BETTER QUALITY SIGNAL.

Projector Bottom



Item	Description	Page ref.
Height adjusters	Adjust level of the front of the projector	Page 14
Projection lamp cover	Remove when changing lamp	Page 27
Ceiling support holes	Contact your dealer for information on mounting the projector on a ceiling.	

Remote Control Parts



WARNING:

THE LIGHT FROM A LASER IS DAMAGING TO THE EYES: NEVER POINT THE REMOTE CONTROL LASER INTO ANYONE'S EYES.

Remote Control Hotkeys

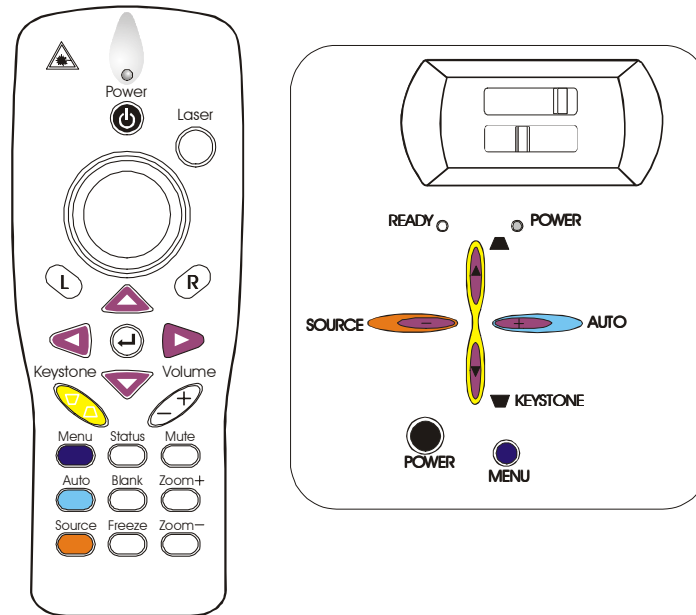
There are a number of hotkeys on the remote, which let you quickly adjust projector settings.

Item	Description
Keystone	Use this button to correct distortion (trapezoid effect) of the projected image.
Volume	Use this button to adjust the volume.
Menu	Use this button to open the On-Screen Display (OSD).
Status	Use this button to check configuration settings.
Auto	Use this button to optimize image size, position, and resolution.
Blank	Press to blank the screen; press again to show the screen.
Zoom+/Zoom-	Use these buttons to zoom in or out on the screen. Press the cursor buttons to pan the zoomed image.
Source	Use this button to select the input source when more than one device is connected.
Freeze	Use this button to freeze the on-screen picture. Press again to resume motion.

Remote Control and Unit Key Pad Comparison

You can use the remote control or the keys on the projector to operate the projector and navigate the On-Screen Display (OSD).

The following illustration shows the remote control buttons and their corresponding buttons (color matched here for identification) on the projector:

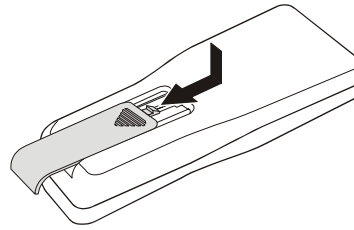


IMPORTANT:

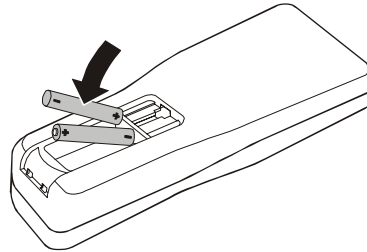
THE BUTTONS AND KEYS ON THE PROJECTOR HAVE THE SAME FUNCTIONS AS THE CORRESPONDING BUTTONS ON THE REMOTE CONTROL AS SHOWN ABOVE. THIS USER'S MANUAL DESCRIBES THE FUNCTIONS BASED ON THE REMOTE CONTROL.

Inserting the Remote Control Batteries

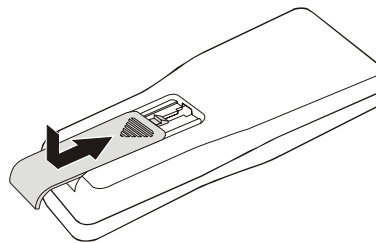
1. Remove the battery compartment cover by sliding the cover in the direction of the arrow.



2. Insert two AAA batteries (supplied) taking note of the battery-polarity markings inside the compartment.



3. Replace the cover.



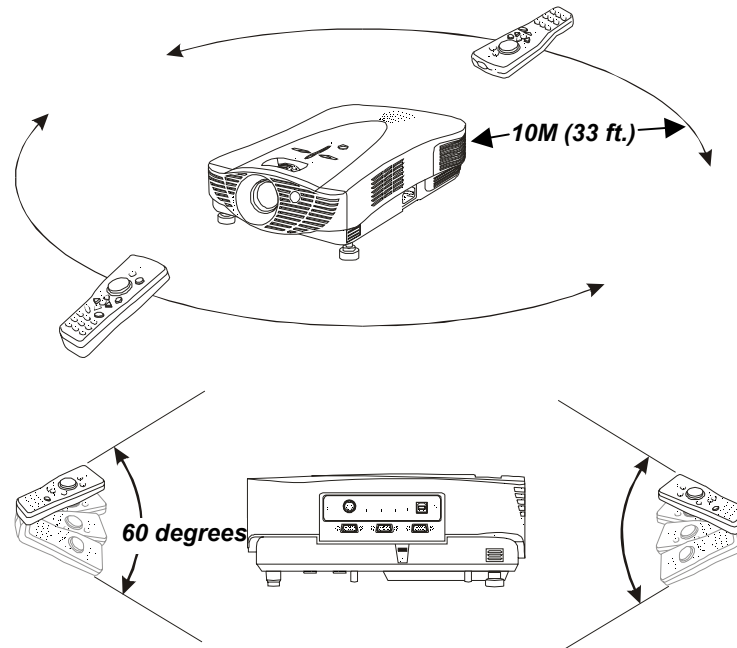
NOTE:

DO NOT MIX BATTERY TYPES.

DISPOSE OF USED BATTERIES ACCORDING TO LOCAL ORDINANCE REGULATIONS.

Remote Control Operating Range

The remote control uses infrared transmission to control the projector. It is not necessary to point the remote directly at the projector. As long as you are not holding the remote perpendicular to the sides, the remote will function well within a radius of about 10 meters (33 feet) and 30 degrees above or below the projector level. If the projector does not respond to the remote control, move a little closer. Refer to the illustrations below:



NOTES:

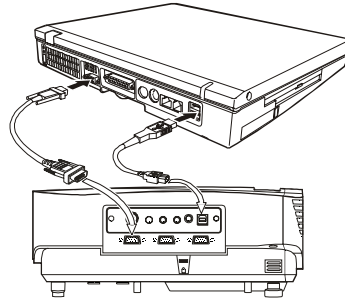
AVOID USING THE PROJECTOR WITH BRIGHT FLUORESCENT LIGHTING TURNED ON. CERTAIN HIGH-FREQUENCY FLUORESCENT LIGHTS CAN DISRUPT REMOTE CONTROL OPERATION. BE SURE NOTHING OBSTRUCTS THE PATH BETWEEN THE REMOTE CONTROL AND THE PROJECTOR. IF THE PATH BETWEEN REMOTE AND PROJECTOR IS OBSTRUCTED, YOU CAN BOUNCE THE REMOTE SIGNAL OFF CERTAIN REFLECTIVE SURFACES SUCH AS PROJECTOR SCREENS.

Connecting Input Devices

You can connect more than one input device to the projector at the same time. The procedure below shows examples of typical input devices.

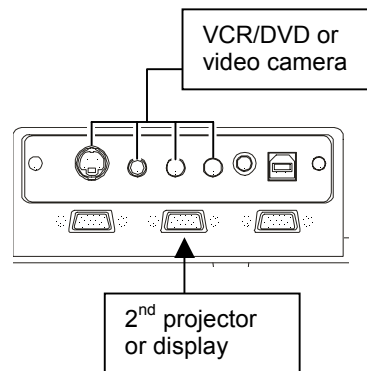
Connect the USB cable to the projector and the PC.

Connect a cable (not supplied) to the projector's VGA/RGB-in connector and the PC's video-out connector. Tighten the securing screws on both connections.



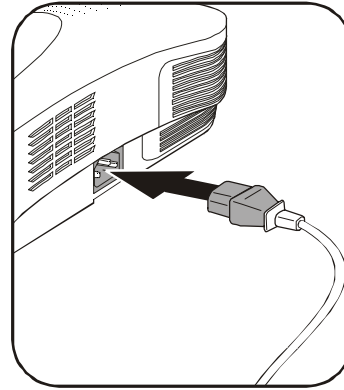
Connect a video device (VCR, DVD or video camera) to the A/V ports. If the device has both S-video and composite video connectors (RCA jacks), use S-video for better quality.

Connect a second projector or display to the RGB-out connector.



Starting and Shutting down the Projector

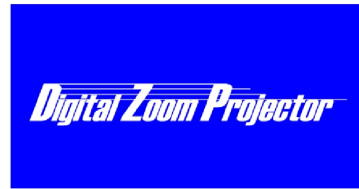
1. Connect the power cord to the projector. Connect the other end to a wall outlet.
The power LED and Lamp-ready LED turn on.



2. Turn on the connected devices.

3. Ensure the Lamp-ready LED is on a steady (not flashing) orange and then press the **Power** button to turn on the projector.

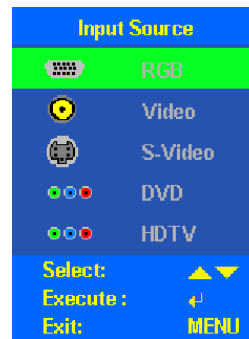
The projector splash screen displays and connected devices are detected.



-
4. Press the **Source** button and then use the cursor ▲▼ button to move up and down in the list of input devices.

Press the ◀ button to change the input device.

(DVD and HDTV are supported through the RGB-in connector and an optional RGB cable.)



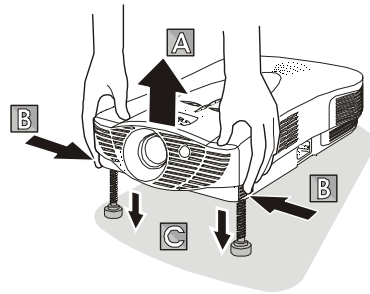
5. To finish your presentation, turn off the projector.

IMPORTANT:

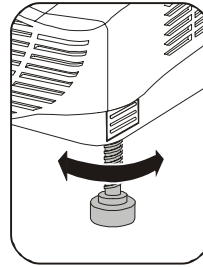
IF YOU HAVE CONNECTED THE USB CABLE TO A PC, THE PROJECTOR IS DETECTED BY THE PC. YOU MAY BE PROMPTED TO INSTALL DRIVERS FOR THE REMOTE CONTROL MOUSE PAD; FOLLOW THE ONSCREEN INSTRUCTIONS FOR YOUR PC'S OPERATING SYSTEM.

Adjusting the Projector Level

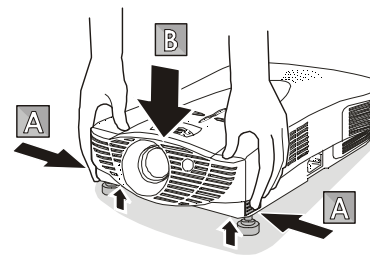
1. To raise the level of the projector, lift the projector [A] and press both Level adjuster buttons [B].
The Level adjusters drop down [C].



2. To make minor adjustments, rotate the adjusters.

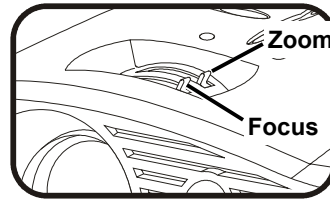
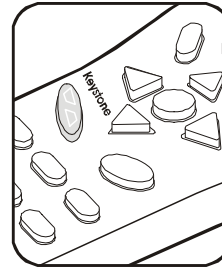


3. To lower the level of the projector, press both Level adjuster buttons [A] and push down [B].



Adjust the Zoom, Focus and Keystone

1. Use the **Image-zoom** control (on projector only) to resize the projected image and screen size.
2. Use the **Image-focus** control (on projector only) to sharpen the projected image.
3. Use the **Keystone** button on the remote control or projector to correct image-trapezoid (wider top or bottom) effect.



ON-SCREEN DISPLAY MENU SETTINGS

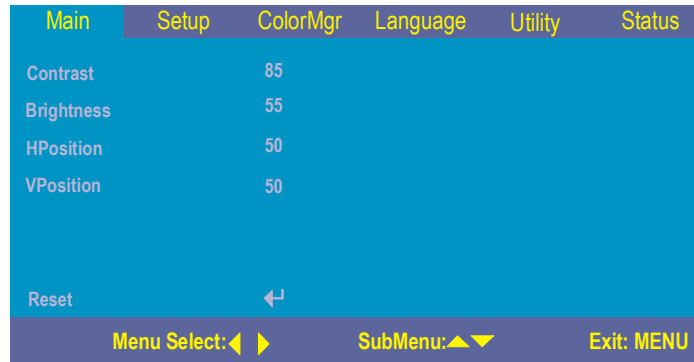
On-Screen Display Menu Controls

The projector has an On-Screen Display (OSD) that lets you make image adjustments and change various settings.

Setting the OSD Language

You may want to reference the OSD on your projector while reading this section. Set the OSD language to your preference before continuing. (The default language is English.)

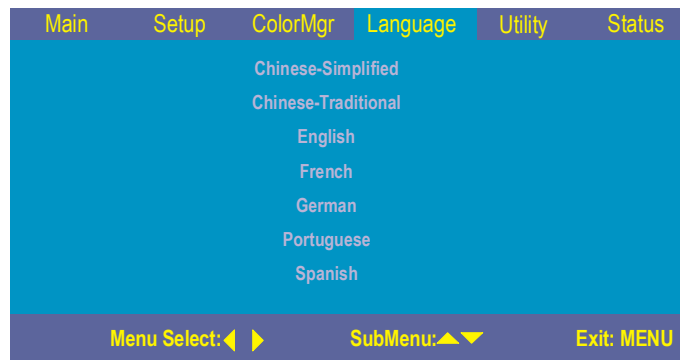
1. Press **Menu**. The **Main** menu appears.



NOTE:

IF YOU ARE IN VIDEO MODE, ONLY CONTRAST AND BRIGHTNESS WILL BE SHOWN IN THE MAIN SCREEN.

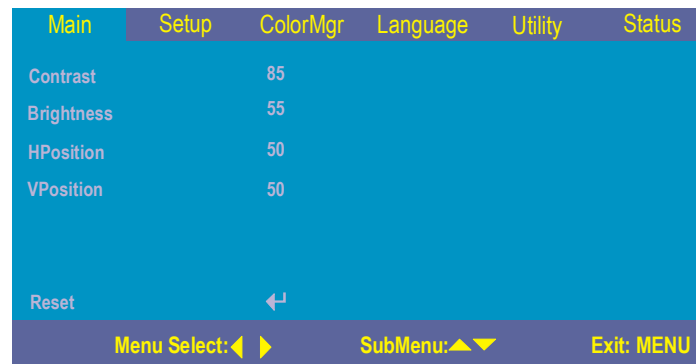
2. Press the cursor ◀▶ button until **Language** is highlighted.



3. Press the cursor ▲▼ button until the language you want is highlighted.
4. Press the cursor ◀▶ or ◀ button to select the language.
5. Press **Menu** twice to close the OSD.

Main Menu

Press the **Menu** button to open the **Main** menu. Press the cursor ▲▼ button to move up and down in the **Main** menu.



NOTE:

HPOSITION AND VPOSITION ARE NOT SHOWN WHEN CONNECTED TO A VIDEO SOURCE. THESE ITEMS ARE SET AUTOMATICALLY BY THE PROJECTOR.

Item	Description	Default
Contrast	Press the cursor ◀▶ button to adjust the contrast. (Range: 0—100)	50
Brightness	Press the cursor ◀▶ button to adjust the brightness. (Range: 0—100)	50
HPosition	Press the cursor ◀▶ button to move the image left or right. (Range: 0—100)	50
VPosition	Press the cursor ◀▶ button to move the image up or down. (Range: 0—100)	50
Reset	Press the cursor ◀▶ or ↶ button to return settings to the factory defaults.	—

Setup Menu

Press the **Menu** button to open the Main menu. Press the cursor ◀▶ button to move to the **Setup** menu. Press the cursor ▲▼ button to move up and down in the **Setup** menu.

NOTE:

WHEN CONNECTED TO A PC, THE FIRST TWO ITEMS IN THE SETUP MENU ARE DIFFERENT FROM WHEN CONNECTED TO A VIDEO SOURCE.

Setup (PC) Menu

Main	Setup	ColorMgr	Language	Utility	Status
Frequency	1				
Tracking	0				
Aspect Ratio	4:3 16:9				
Projection	P 9 d b				
Volume	0				
Keystone	0				
Reset	↶				
Menu Select: ◀▶ SubMenu: ▲▼ Exit: MENU					

Setup (Video) Menu

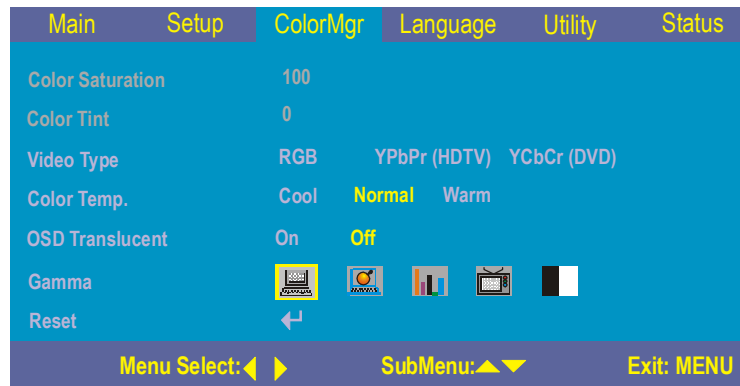
Main	Setup	ColorMgr	Language	Utility	Status
Video AGC	On Off				
Aspect Ratio	4:3 16:9				
Projection	P 9 d b				
Volume	0				
Keystone	0				
Reset	↶				
Menu Select: ◀▶ SubMenu: ▲▼ Exit: MENU					

Item	Description	Default
Frequency	This item eliminates flickering on the screen by adjusting the sampling clock. Press the cursor ◀▶ button to adjust. (Range: 0 —100)	Auto
Tracking	Press the cursor ◀▶ button to adjust the sampling number. (Range: 0—100)	Auto
Video AGC	Press the cursor ◀▶ button to enable/disable video automatic gain control.	Enabled
Aspect Ratio	Press the cursor ◀▶ button to toggle between the 4:3 standard format and 16.9 High Definition TV (HDTV) format.	4:3
Projection	Press the cursor ◀▶ button to choose from four projection methods:  Desktop mount, front of screen  Desktop mount, rear of screen  Ceiling mount, front of screen  Ceiling mount, rear of screen	Desktop front 
Volume	Press the cursor ◀▶ button to adjust the volume. (Range: 0—8)	4
Keystone	Press the cursor ◀▶ button to correct distortion of the projected image. (Range: 0—100)	50
Reset	Press the cursor ◀▶ or ⏮ button to return settings to the factory defaults.	—

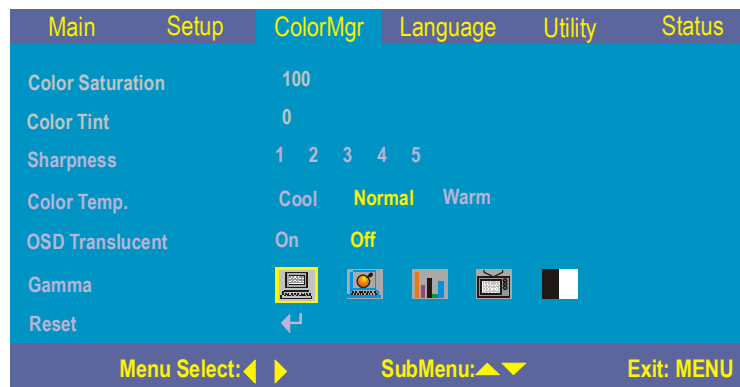
ColorMgr Menu

Press the **Menu** button to open the Main menu. Press the cursor ◀▶ button to move to the **ColorMgr** menu. Press the cursor ▲▼ button to move up and down in the **ColorMgr** menu.

ColorMgr (PC or HDTV) Menu



ColorMgr (Video) Menu



Item	Description	Default
Color Saturation	Press the cursor ◀▶ button to adjust the video saturation. (Range: 0—100)	50
Color Tint	Press the cursor ◀▶ button to adjust the video tint/hue. (Range: 0—100)	50
Video Type	Press the cursor ◀▶ button to select from three video types. RGB PC YPbPr High Definition TV (HDTV) YCbCr Some DVD component video output	YPbPr (HDTV)
Color Temp.	Press the cursor ◀▶ button to adjust the video tint/hue. (Range: Cool/Normal/Warm)	Normal
OSD Translucent	Press the cursor ◀▶ button to turn On or Off. When “On” the image behind the OSD will be partially visible.	Off
Sharpness	Press the cursor ◀▶ button to adjust the display sharpness. (Range: 1—5)	3
Gamma	Press the cursor ◀▶ button to adjust the gamma correction of the display. (Range: PC—B&W)	PC
Reset	Press the cursor ◀▶ or ⏏ button to return settings to the factory defaults.	—

Language Menu

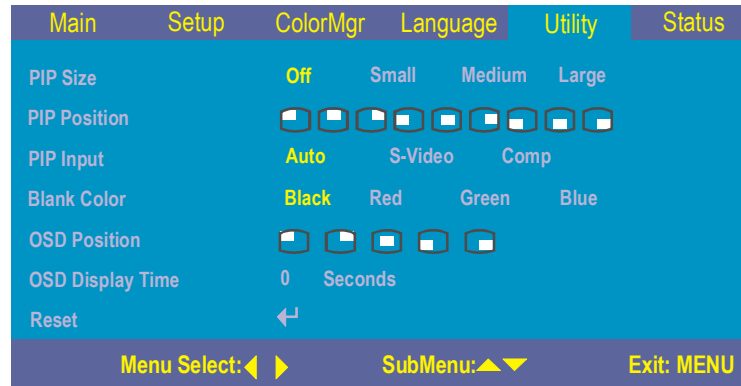
Press the **Menu** button to open the Main menu. Press the cursor ◀▶ button to move to the **Language** menu.



Item	Description	Default
Chinese Simplified	Press the cursor ▲▼ button to move up and down in the menu. Press the cursor ◀▶ or ◀↵ button to select the language.	English
Chinese Traditional		
English		
French		
German		
Portuguese		
Spanish		

Utility Menu

Press the **Menu** button to open the Main menu. Press the cursor ◀▶ button to move to the **Utility** menu. Press the cursor ▲▼ button to move up and down in the **Utility** menu.



Item	Description	Default
PIP Size	Press the cursor ◀▶ button to select the <i>picture in picture</i> size. (Range: Off; Small; Medium; Large)	Off
PIP Position	Press the cursor ◀▶ button to choose where the PIP window appears. (Range: From upper-left to bottom-right)	Upper left
PIP Input	Press the cursor ◀▶ button to select the PIP source. (See “Note” below.) (Range: Auto; S-video; Comp.)	Auto
Blank Color	Press the cursor ◀▶ button to change the blanking color. (Range: Black; Red; Green; Blue)	Black
OSD Position	Press the cursor ◀▶ button to choose where the OSD window appears. (Range: From upper-left to bottom-right)	Center

Item	Description	Default
OSD Display Time	Press the cursor ◀▶ button to choose how long the OSD window appears. (Range: 10—30 seconds)	15
Reset	Press the cursor ◀▶ or ⏏ button to return settings to the factory defaults.	—

NOTE:

PIP MODE ALLOWS YOU TO VIEW A SMALL VIDEO WINDOW IN THE MIDDLE OF A FULL-SCREEN VIDEO DISPLAY. FOR EXAMPLE, WHILE DISPLAYING OUTPUT FROM YOUR PC YOU COULD HAVE A SMALL WINDOW DISPLAYING YOUR VIDEO SOURCE.

Status Menu

Press the **Menu** button to open the Main menu. Press the cursor ◀▶ button to move to the **Utility** menu. Press the cursor ▲▼ button to move up and down in the **Utility** menu.

Main	Setup	ColorMgr	Language	Utility	Status
Digital Zoom	Press "+" key to zoom control				
Auto Source	On	Off			
Auto Power Off	On	Off			
Video Information	1024 x 768 / 60 Hz				
Software Rev.	03A00A1.12				
Lamp Hours	160				
Lamp Hour Reset	↵				
Menu Select: ◀ ▶ SubMenu: ▲ ▼ Exit: MENU					

Item	Description	Default
Digital Zoom	Digital zoom operation.	—
Auto Source	When enabled, the system will automatically check all ports for connected devices. Press the cursor ◀▶ button to toggle between On/Off.	On
Auto Power Off	When enabled, the system will automatically turn off the lamp when no activity is detected for ten minutes. Press the cursor ◀▶ button to toggle between On/Off.	Off
Video Information	Displays the resolution and refresh rate of the connected video device.	These items are display only.
Software Rev.	Information about software revisions.	
Lamp Hours	Amount of hours lamp is in use.	
Lamp Hour Reset	After replacing the lamp, this item should be reset. Refer to "Replacing the Projection Lamp" on page 27.	

Replacing the Projection Lamp

The projection lamp should be replaced when it burns out. It should only be replaced with a certified replacement part, which you can order from your local dealer.

IMPORTANT:

THE LAMP CONTAINS A CERTAIN AMOUNT OF MERCURY AND SHOULD BE DISPOSED OF ACCORDING TO LOCAL ORDINANCE REGULATIONS.

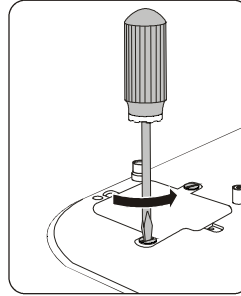
AVOID TOUCHING THE GLASS SURFACE OF THE NEW LAMP: DOING SO MAY SHORTEN ITS OPERATION LIFE.

WARNING:

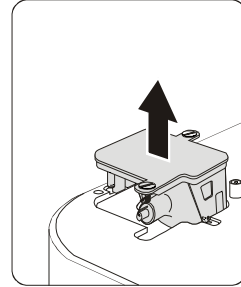
BE SURE TO TURN OFF AND UNPLUG THE PROJECTOR AT LEAST AN HOUR BEFORE ATTEMPTING TO REPLACE THE LAMP. FAILURE TO DO SO COULD RESULT IN A SEVERE BURN.

1. Loosen the two screws on the lamp compartment cover.

(Note: These captive screws remain in the cover.)



2. Carefully lift the lamp housing straight up and remove it.



3. Insert the new lamp.
Note: After securing the screws, the lamp cover and projector bottom should be flush.

Resetting the Lamp

After replacing the lamp, you should reset the lamp hour counter to zero.
Refer to the following:

1. Press the **Menu** button to open the Main menu.
2. Press the cursor ◀▶ button to move to the **Status** menu.
3. Press the cursor ▲▼ button to move down to **Lamp Hour Reset**.

Main	Setup	ColorMgr	Language
Auto Source	On	Off	
Auto Power Off	On	Off	
Video Information	1024 x 768 / 60 Hz		
Software Rev.	VCDO.30A		
Lamp Hours	2020		
Lamp Hour Reset	↵		
Menu Select: ◀▶		SubMenu: ▲▼	

4. Press the ⏏ button.
A message screen appears.



5. Press the cursor buttons in this order: ▼; ▲; ◀; ▶.
The **Status** menu appears again showing the **Lamp Hours** reset to zero.

Main	Setup	ColorMgr	Language
Auto Source	On	Off	
Auto Power Off	On	Off	
Video Information	1024 x 768 / 60 Hz		
Software Rev.	VCDO.30A		
Lamp Hours	0		
Lamp Hour Reset	↵		
Menu Select: ◀▶		SubMenu: ▲▼	

Cleaning the Projector

Cleaning the projector to remove dust and grime will help ensure trouble-free operation.

WARNING:

BE SURE TO TURN OFF AND UNPLUG THE PROJECTOR AT LEAST AN HOUR BEFORE CLEANING. FAILURE TO DO SO COULD RESULT IN A SEVERE BURN.

USE ONLY A DAMPENED CLOTH WHEN CLEANING. DO NOT ALLOW WATER TO ENTER THE VENTILATION OPENINGS ON THE PROJECTOR.

IF A LITTLE WATER GETS INTO THE PROJECTOR INTERIOR WHILE CLEANING, LEAVE UNPLUGGED IN A WELL-VENTILATED ROOM FOR SEVERAL HOURS BEFORE USING.

IF A LOT OF WATER GETS INTO THE PROJECTOR INTERIOR WHEN CLEANING, HAVE THE PROJECTOR SERVICED.

Cleaning the Lens

You can purchase lens cleaner from most camera stores. Refer to the following to clean the projector lens.

1. Apply a little optic lens cleaner to a clean soft cloth. (Do not apply the cleaner directly to the lens.)
2. Lightly wipe the lens in a circular motion.

CAUTION:

DO NOT USE ABRASIVE CLEANERS OR SOLVENTS.

TO PREVENT DISCOLORATION OR FADING, AVOID GETTING CLEANER ON THE PROJECTOR CASE.

Cleaning the Case

Refer to the following to clean the projector case.

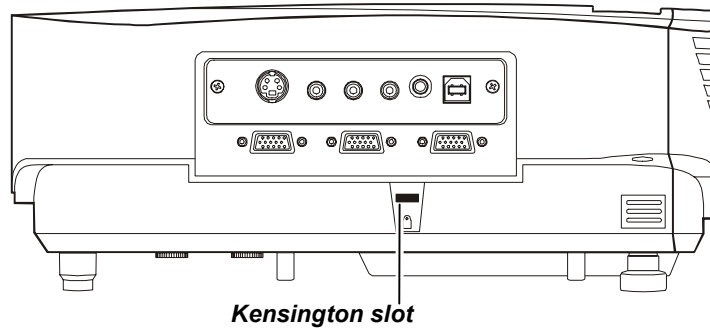
1. Wipe off dust with a clean dampened cloth.
2. Moisten the cloth with warm water and mild detergent (such as used to wash dishes), and wipe the case.
3. Rinse all detergent from the cloth and wipe the projector again.

CAUTION:

TO PREVENT DISCOLORATION OR FADING OF THE CASE, DO NOT USE ABRASIVE ALCOHOL-BASED CLEANERS.

Using the Kensington Lock

If you are concerned about security, attach the projector to a permanent object with the Kensington slot and a security cable.



NOTE:

CONTACT YOUR VENDOR FOR DETAILS ON PURCHASING A SUITABLE KENSINGTON SECURITY CABLE.

Common problems and solutions

These guidelines give you tips to deal with problems you may encounter while using the projector. If the problem remains unsolved, contact your dealer for assistance.

Often after time spent troubleshooting, the problem is traced to something as simple as a loose connection. Check the following before proceeding to the problem-specific solutions.

- Use some other electrical device to confirm that the electrical outlet is working.
- Ensure the projector is turned on.
- Ensure all connections are securely attached.
- Ensure the attached device is turned on.
- Ensure a connected PC is not in suspend mode.
- Ensure a connected notebook computer is configured for an external display (this is usually done by pressing an Fn-key combination on the notebook).

Tips for Troubleshooting

In each problem-specific section, try the steps in the order suggested. This may help you to solve the problem more quickly.

Try to pin point the problem and thus avoid replacing non-defective parts. For example, if you replace batteries and the problem remains, put the original batteries back and go to the next step.

Keep a record of the steps you take when troubleshooting: The information may be useful when calling for technical support or for passing on to service personnel.

LED Error Messages

LED	Status/ number of flashes	Description
Lamp- ready	Flashing	Lamp not ready—do not press the power button
	1	LCD fan2 error
	2	LCD fan1 error
	3	Power fan error
	4	Lamp reflector fan error
	5	Lamp burner fan error
Power	3	System overheating
	4	System interface error
	5	Lamp error
	6	Fan error (refer to Lamp ready status to determine which fan)
	7	Lamp cover open
	8	LCD driver error

Image Problems

Problem: No image appears on the screen

1. If the **Blank** screen is shown, press the **Blank** button on the remote control.
2. Verify the settings on your notebook or desktop PC.
3. Turn off all equipment and power up again in the correct order.

Problem: The image is blurred

1. Adjust the Focus on the projector.
2. Press the **Auto** button on the remote control or projector.

3. Ensure the projector-to-screen distance is within the range specified.
4. Check that the projector lens is clean.

Problem: The image is wider at the top or bottom (trapezoid effect)

1. Position the projector so it is as perpendicular to the screen as possible.
2. Use the Keystone button on the remote control or projector to correct the problem.

Problem: The image is reversed or upside down

1. Check the **Projection** setting on the **Setup** menu of the OSD.

Problem: The image is streaked

1. Set the **Frequency** and **Tracking** settings on the **Setup** menu of the OSD to the default settings.
2. To ensure the problem is not caused by connected PC's video card, connect to another computer.

Problem: The image is flat with no contrast

1. Adjust the **Contrast** setting on the **Main** menu of the OSD.

Problem: The color of the projected image does not match the source image.

1. Adjust the **Color Temp.** and **Gamma** settings on the **ColorMgr** menu of the OSD.

Lamp Problems

Problem: There is no light from the projector

1. Check that the power cable is securely connected.
2. Ensure the power source is good by testing with another electrical device.
3. Restart the projector in the correct order and check that the power LED is green.

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4. If you have replaced the lamp recently, try resetting the lamp connections. Make sure the lamp cover is flush with the projector case when closed.
 5. Replace the lamp module.
 6. Put the old lamp back in the projector and have the projector serviced.

Problem: The lamp goes off

1. Power surges can cause the lamp to turn off. Press the power button twice to turn off the projector. When the Lamp Ready LED is on, press the power button.
2. Replace the lamp module.
3. Put the old lamp back in the projector and have the projector serviced.

Remote Control Problems

Problem: The projector does not respond to the remote control

1. Direct the remote control towards the front or rear remote sensors on the projector.
2. Ensure the path between remote and sensor is not obstructed.
3. Turn off any fluorescent lights in the room.
4. Check the battery polarity.
5. Replace the batteries.
6. Turn off other Infrared-enabled devices in the vicinity.
7. Have the remote control serviced.

Problem: The on-screen cursor does not respond to the Mouse pad

1. Direct the remote control towards the front or rear remote sensors on the projector.
2. Check the cable.
3. Disable the mouse pad on the PC.
4. Reboot the PC with the USB cable attached.

5. Some notebook computer touchpads and tracking devices are not compatible with external tracking devices. Try a different computer.

Audio Problems

Problem: There is no sound

1. Adjust the volume on the remote control.
2. Adjust the volume of the audio source.
3. Check the audio cable connection.
4. Test the source audio output with other speakers.
5. Have the projector serviced.

Problem: The sound is distorted

1. Check the audio cable connection.
2. Test the source audio output with other speakers
3. Have the projector serviced.

Having the Projector Serviced

If you are unable to solve the problem, you should have the projector serviced. Pack the projector in the original carton. Include a description of the problem and a checklist of the steps you tried to fix the problem. The information may be useful to the service personnel. Return the projector to the place you purchased it.

SPECIFICATIONS AND WARRANTY

Specifications

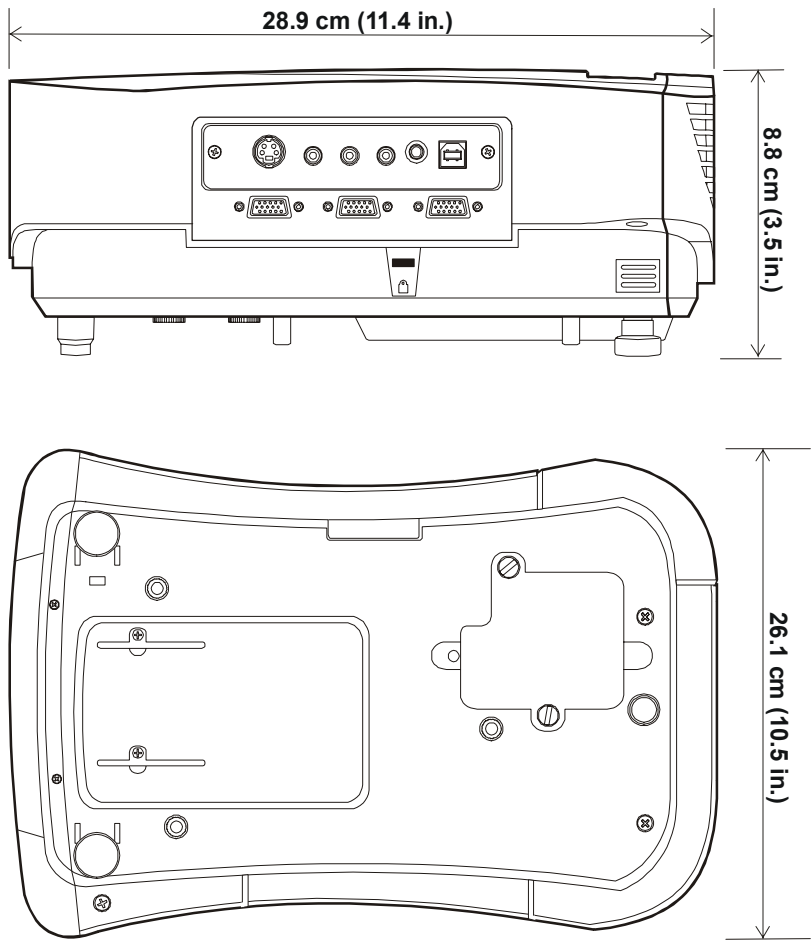
Display type	0.7-inch Poly-silicon LCD projection
Resolution	SVGA 800 x 600 Native
Color	16.7 Million (24-bits/Pixel)
Bandwidth	Up to SXGA 1280x1024 @60 Hz
Weight	3.17 kg (7 lbs.)
Projection distance	1 to 10 meters (3.3 to 33 feet)
Projection screen size	.85 to 8.5 meters (33 inches to 333 inches)
Brightness (typical)	1200 ANSI lumens
Brightness uniformity (lowest of 9 point/9 point)	> 80%
Projection lens	Manual zoom and focus
Zoom ratio	1.3
Horizontal keystone correction	No
Vertical keystone correction	+/- 15
Projection methods	Desktop front/rear; ceiling front/rear
Image distortion	< 1% (+/- 1% max.)
Contrast ratio	400:1 (typical)
Data compatibility	IBM PC or compatibles (VGA, SVGA, XGA, SXGA), Mac
HDTV	480i, 480p, 720p, 1080i
Video compatibility	NTSC/NTSC 4.43, PAL (B/G/H/I/M/N 60), SECAM
H-Sync	30 - 70 kHz
V-Sync	56 - 85 Hz

Safety certification	FCC Class B, UL, CUL, CE, CB, TUV-GS, CCC
Operation temperature	0° ~ 35°
Dimensions	28.9 x 26.1 x 8.8 cm (11.4 x 10.5 x 3.5 inches)
Power consumption	< 220 watts
Stand By	< 20 watts
Noise	< 34 dB
Lamp	150W
Audio speaker	1W mono speaker
Remote keys	Power, Auto, Menu, Source, Keystone

Input/output connectors

PC	D-SUB 15-pin x 2 , (RGB in/RGB out)
	USB connector x1 (output)
Video	Composite video (RCAx1)
	S-Video (Mini-DIN)
YpbPr	Component video (RCA x 3)
Audio	Audio (RCAx2) for Video
	Audio (RCAx2) for YPbPr
	Stereo mini-jack
	RS-232
Security	Kensington slot

Dimensions



FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the parties responsible for compliance could void the user's authority to operate the equipment.

Safety Certifications

UL, CUL, TUV

EN 55022 Warning

This is a Class B product. In a domestic environment, it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, meeting room, or auditorium.

Taiwan BSMI