Table of Contents

Usage Notice

⚠ **Warning-** Do not look into the lens. The bright light may hurt your eyes.

⚠ **Warning-** To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

⚠ **Warning-** Please do not open or disassemble the product as this may cause electric shock.

⚠ **Warning-** When changing the lamp, please allow unit to cool down and follow all changing instruction.

⚠ **Warning-** This product will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.

⚠ **Warning-** After changing a new lamp, please reset the lamp life timer from OSD menu.

⚠ **Warning-** Before switching off the product, please keep the cooling fan running for a few minutes.

Precautions

Follow all warnings, precautions and maintenance as recommended in this user's manual to maximize the life of your unit.

Do:

❑ Turn off the product before cleaning.

❑ Use a soft cloth moistened with mild detergent to clean the display housing.

❑ Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Don't:

❑ Block the slots and openings on the unit provided for ventilation.

❑ Use abrasive cleaners, waxes or solvents for your cleaning.

❑ Use under the following conditions:

- Extremely hot, cold or humid environment.
- In areas susceptible to excessive dust and dirt.
- Near any appliance generating a strong magnetic field.
- Place in direct sunlight.

Introduction

About the Product

This video projection display, designed with a high-powered metal halide lamp, has its outstanding features as follows:

- ❑ 10.34lbs (4.7 kg) lightweight compact design
- ❑ 330-watt user replaceable metal-halide lamp
- ❑ Single panel 6.4" TFT LCD projection system
- ❑ 800 x 600 addressable pixels
- ❑ 16.7M (24-bit) displayable colors
- ❑ NTSC/ NTSC 4.43/ PAL/ SECAM composite video & S-Video
- ❑ Large keystone correction range up to 20 degree
- ❑ Automatically saves adjustments
- ❑ Fan automatic stop after 5 minutes of standby mode
- ❑ Multilingual OSD menu adjustments

Package Overview

This projection display comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if anything is missing.
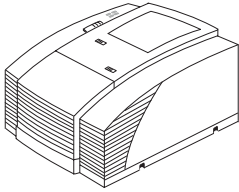
LCD Projection Display
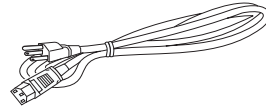
Power Cord

S-Video Cable

Composite Video Cable
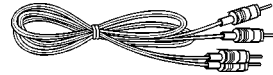
Audio-in Cable
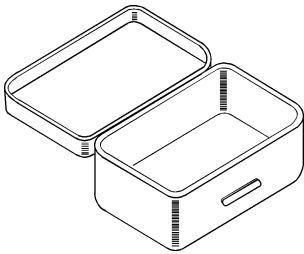
Carrying Case
(Optional)

User's Manual

Warranty Card
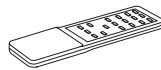
Remote Control

Battery x 2

Installation

Product Overview

♦ **Main Unit**

Lens

Panel Control Buttons

Keystone Correction

Lens Latch

Lamp Door

Carrying Handle

Elevator Foot

Lamp Latch

Rear Connection Ports

Power Switch

Power Connector

Fuse

Audio Outputs

Audio Inputs

S-Video Connector

Composite Video Connector

Composite Video Connector

Audio Inputs

Audio Inputs

◆ **Remote Control**

Reset All

Power on/Standby

Freeze

Color

Sharpness

Brightness

Tint

Contrast

Source selection

Volume

Directional select keys

On-Screen menus

Enter

POWER ON STANDBY   RESETAll   FREEZE

COLOR   SHARPNESS   TINT

CONTRAST   BRIGHTNESS   SOURCE

VOLUME

MUTE

MENU   ENTER

* For more detailed information, please refer to "Function Descriptions" on page 13.

Start Your Installation

◆ **Connecting the Projection Display**

Refer to the installation figure shown below.

Power Cord

Audio Cable

S-Video Cable

Composite Video
Cable

Audio Cable

Audio Output   *Video Output*

Powering On/Off the Projection Display

◆ Powering On the Projection Display.

▷ **Switch on the power; then turn on the lamp by pressing "STANDBY" button.**
Press the " I " side of the power switch to turn on the projection display. After a few seconds, press the "Power on/Standby" button to power on the projection lamp. At this time, the "Power on/Standby" indicator (the Green Light, see following figure) will be illuminated.
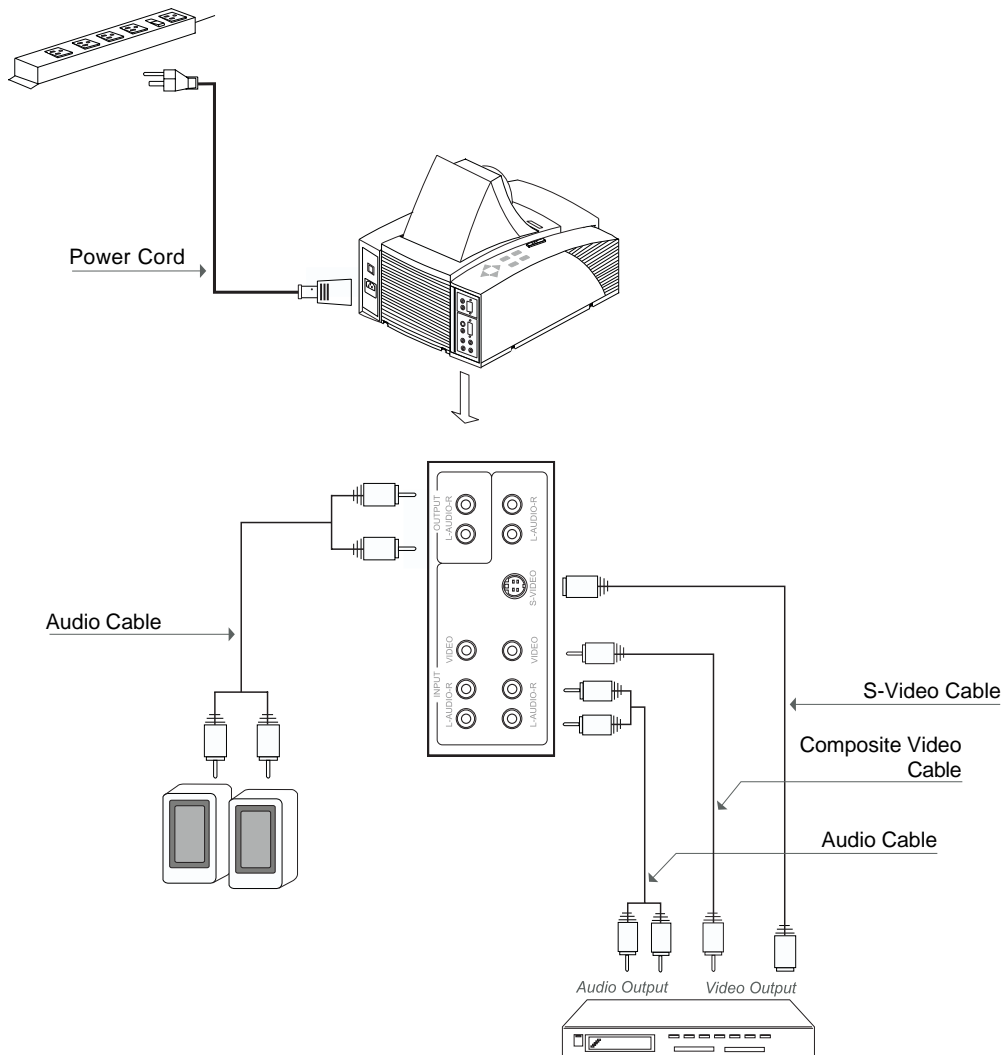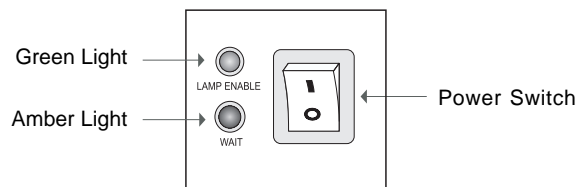
* *If you wish to turn off the projection display for a short period of time, press the "Power on/Standby" button. The Amber Light will illuminate. This indi - cates the projection lamp is powered off and is cooling down.*

* *If you want to turn on the projection lamp again, you must wait at least 1 minute until the Amber Light is OFF. Be sure the Amber Light is in OFF status so that you can press the "Power on/Standby" button to turn on the projection lamp.*

Green Light → LAMP ENABLE
Amber Light → WAIT
Power Switch

◆ Powering Off the Projection Display

▷ **Turn off lamp power first for three minute and then switch off the power.**
Press "Power On/Standby" button to make the display in Standby mode first and wait for three minutes, then you can switch off the power.

* *After pressing the "Power on/Standby" button , you will see a message-"Power off the lamp?". Press the "Power on/Standby" button again to turn off the lamp. Otherwise the message will disappear itself 5 seconds later.*

* *The projection display will automatically shut down when the lamp is powered off and is not turned back on within 5 minutes. Please switch off the power if this occurs.*

* *Always remember to turn off the projection lamp first and allow it to cool for a few minutes before switching off the power.*

Adjusting the Image Size

❑ Positioning the projection display

Projection Distance	5 ft. (1.5 m)	6.5 ft. (2 m)	9.5 ft. (3 m)	13 ft. (4 m)	20 ft. (6 m)
Image Size (diagonal)	40" (1.01m) (min.)	60" (1.52m)	80" (2.03m)	110" (2.79m)	160" (4.06m) (max.)

(projection distance and image size)

❑ Slide the lens latch and pop up the projection lens. Switch on the power and press the "Power on/Standby" button. See "Powering On/Off the Projection Display" on page 8 for more information.
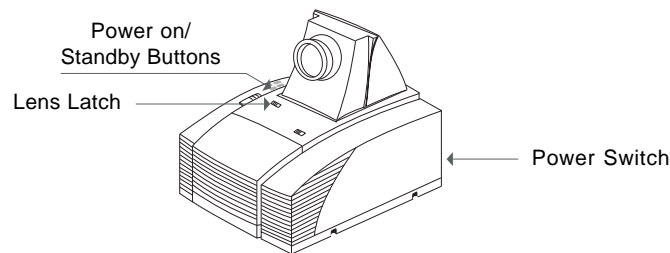
❑ Adjusting the screen image.
1. Rotate the projection lens to focus the image.
2. Slide the keystone correction button to adjust image shape.
3. Adjust the elevation:
    (1) Pull out the carrying handle.
    (2) Lift the projection display to the desired angle.
    (3) Press down on the elevator node to loosen the elevator foot.
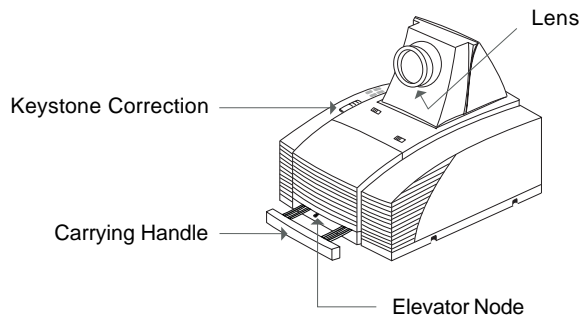
User Controls

User Control Overview

There are two ways for you to control the functions: panel control and remote control.

◆ Panel Control

| POWER ON STANDBY | RESET ALL |
| MENU | ENTER |

4 Directional Keys

◆ Remote Control

Power on/Standby
Color
Brightness
Contrast
Directional select keys
On-Screen menus

Reset All
Freeze
Sharpness
Tint
Source selection
Volume
Enter
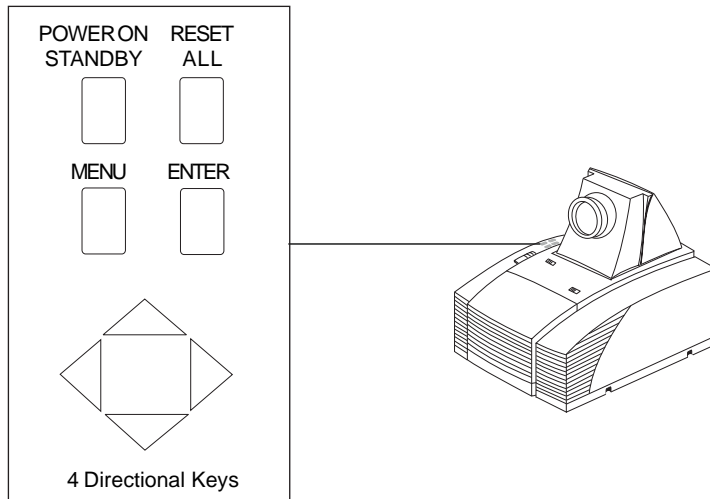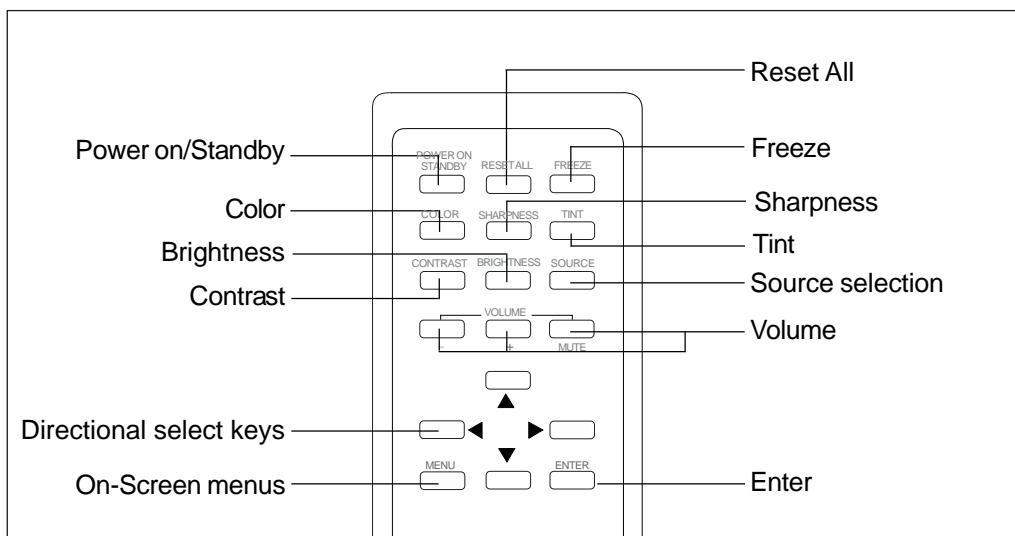
◆ OSD Menus

The OSD (On-Screen Display) menus will allow you to easily adjust the display functions. Refer to the following table to find out the location of your adjusting items.

Main Menu	Sub Menu
Language	English French German Spanish Italian
Source	Video 1, Video 2, S-Video
Picture	Brightness Contrast Color Tint Sharpness Ceiling Projection Rear Projectiotion
Audio	Volume Balance Treble Bass Mode
Lamp	Lamp Warning Lamp Reset
Reset All	Reset, Cancel

◆ **The way to open the OSD menus will be as follows:**

▶ **Main Menu:**
Press "MENU" button to pop up the OSD Main Menu. There will be six sub-
menus of "Language", "Source", "Picture", "Audio", "Lamp" and "Reset All"   for
you to easily adjust the screen images.

Main Menu
Language
Source
Picture
Audio
Lamp
Reset All
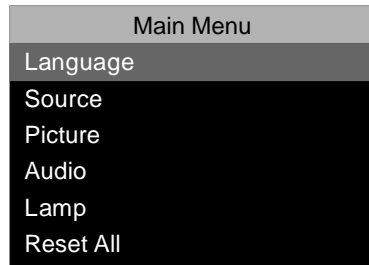
▶ **Sub-menus:**
After entering the Main Menu, use ▲ or ▼ button to select the main item you require.
Then press "ENTER" button to go into its sub-menu. Such as:

Picture
Brightness
Contrast
Color
Tint
Sharpness
Ceiling Projection
Rear Projection

▶ **Adjusting Items:**
Choose the adjusting item by ▲ or ▼ button, and then press "ENTER" button for
confirmation. At this time, use ◀ or ▶ button to adjust your projected image.
Such as:

Contrast
◀ |||||||||||||·················▶

▶ **Press "MENU" button to exit from the OSD menus.**

Function Descriptions

◆ **Basic Functions:**

▶ **Power On/Standby**   Press the "Power On/Standby" button to turn on the projection lamp.

▶ **Menu**   Press "Menu" button to pop up the OSD menu.

▶ **Enter**   "Enter" is used for confirming your selection.

▶ **Four Directional Select Keys**   Use ▲ or ▼ button to select items. Use ◀ or ▶ to make adjustments for your selection.

▶ **Freeze**   Press the "Freeze" button to still the screen image.

▶ **Mute**   Use this function to shut off the sound.

▶ **Language**   Choose "Language" item to select your choice of English, French, German, Spanish or Italian.

▶ **Source**   Choose " Source" function to select between video 1 , video 2, and S-Video source.

▶ **Reset All**   Choose "Reset All" function to return the display parameters of the current mode to its factory default settings.

◆ **Picture Functions**

▶ **Brightness**   To adjust the brightness of the image, select "Brightness" from OSD menus or the remote control.

▶ **Contrast**   To adjust the contrast of the image, select "Contrast" from
                        OSD menus or the remote control.

▶ **Color**   To adjust the color of the image, select "Color" from OSD
                        menus or the remote control.

▶ **Tint**   To adjust the tint of the image, select "Tint" from OSD
                        menus or the remote control.

▶ **Sharpness**   To adjust the sharpness of the image, select "Sharpness"
                        from OSD menus or the remote control.

▶ **Ceiling Projection**   Choose this funtion from OSD menus for a ceiling
                        mounted projection.

▶ **Rear Projection**   Choose this function from OSD menus for a rear
                        projection.

◆ Audio Functions

▶ **Volume**   Choose this function from OSD menus or the remote
                        control to adjust volume.

▶ **Balance**   Choose this function from OSD menus to balance the
                        sound of left & right channel.

▶ **Treble**　　　　　Use this function to control the treble level.

▶ **Bass**　　　　　Use this function to control the bass level.

▶ **Mode**　　　　　There are four modes for your choices: Spatial Stereo, Pseudo Stereo, Linear Stereo, and Forced Mono.

◆ Lamp Functions

▶ **Lamp Warning**　　Choose this function to show or hide the warning message.

▶ **Lamp Reset**　　　After changing a new lamp, reset the lamp life timer from OSD menus.

Appendices

Troubleshooting

If you are experiencing trouble with the projection display, refer to the follows. If the problem persists, please contact your local dealer or our service center.

Problem: No image appears on screen.

▸ Press "Power on/Standby" button.

▸ Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.

▸ Ensure the pins of connectors are not crooked or broken.

▸ Check if the projection lamp has securely installed. Please refer to the "Changing the lamp" section.

▸ Ensure the cooling fan is on. If not, you may need to change the fuse. Please refer to the "Changing the fuse" section.

Problem: Unclear image or incorrectly displayed the image.

▸ Ensure the displayed video source is good.

▸ Adjust the items of picture from OSD menus to obtain an optimum image.

Problem: Sound does not come out from the speakers.

▸ Adjust volume from OSD menus.

▸ Make sure all audio cables are correctly connected as described in the "Installation" section.

Maintenance

◆ Changing the Lamp

The projection display will detect the lamp life itself. It will show you a warning message when the lamp is used over working hours. When you see this message, change the lamp as soon as possible.

Make sure the projection display has cooled for at least 30 minutes before change the lamp.

⚠ **Warning: Lamp compartment is hot! Allow it to cool before changing lamps!**

 * We suggest you a Professional Engineer or to contact our local dealer for changing the projection lamp module.
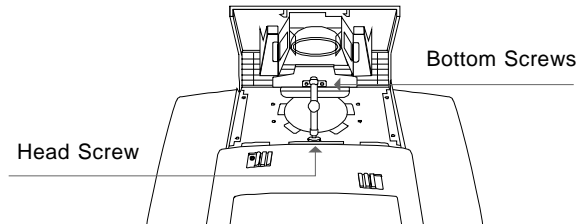
Lamp Changing Directions:

1. Use a cross screwdriver to remove the screw of the lamp latch.
   Open the lamp door.

Lamp Door

Lamp Latch Screw
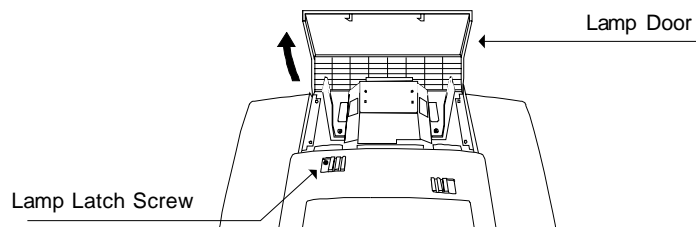
2. Remove the screws on the metal protection cover and then open this metal cover.

Lamp Metal Cover

Metal Cover Screws
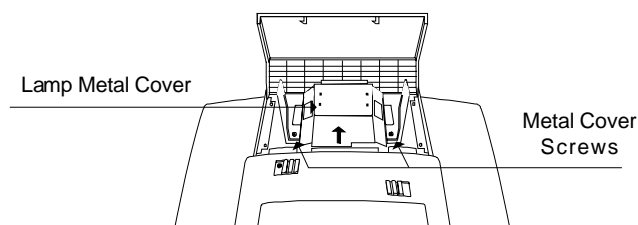
3. Unscrew the two screws on the bottom of the lamp module.
Then release the head screw of the lamp module.

4. Take out the used lamp from the usage position. Take out the head of the lamp first
and then the bottom. Be careful of the hot lamp.
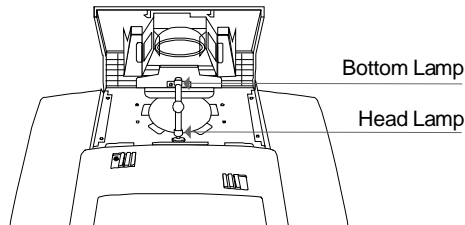

5. Replace a new lamp.
Hold the new lamp by its base (we suggest you to put gloves on) and then push it
firmly into the usage position. Remember to push the bottom of the lamp back to its
position first and then the head. Tighten the screws.
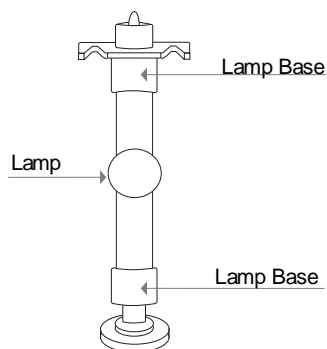
⚠ **Warning: Never touch the glass or white powder of the lamp as finger
oil, dust or water will damage the lamp.**

6. Close the metal cover and then tighten the screws.
Close the lamp door and then tighten the screw beside the lamp latch.

◆ Changing the Fuse

Fuse Holder
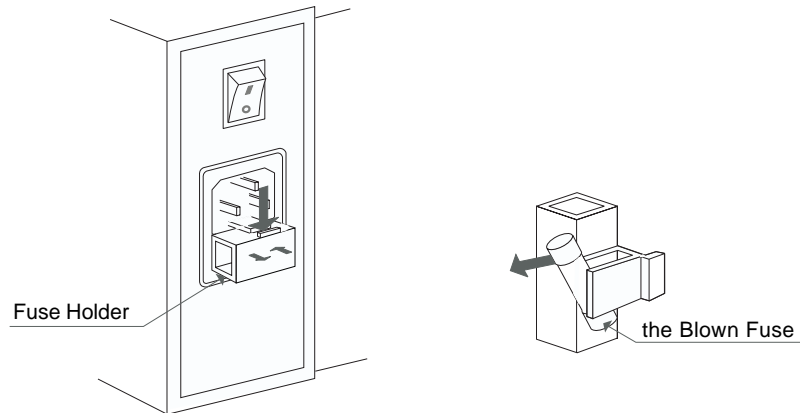
the Blown Fuse

▶ **Fuse Changing Procedure:**

    1. Switch off the power and unplug the power cord.

    2. Pull out the fuse holder.

    3. Remove the blown fuse and then insert a new fuse.

    4. Put the fuse holder back in position.

Specifications

LCD Panel	- active matrix TFT color LCD
	- 6.4" panel x 1
	- tr=30ms, tf=50ms response time
	- 200:1 contrast ratio
Lamp	- 330-watt metal halide
Display Resolution	- 800 pixels(H) x 600 lines(V)
Displayable Color	- 16.7M colors
Image Size	- 40" to 160" diagonal
Projection Distance	- 5 ft. to 20 ft./ 1.5 m to 6 m
Video Compatibility	- NTSC/ NTSC 4.43/ PAL/ SECAM compatible
	- composite video & S-Video capability
Multimedia Audio	- two internal speakers with 3 watt output
	- built-in amplifier with 3 watt x 2 output
Power Supply	- auto switch
	- AC input 100~120V/ 200~240V, 50/60Hz
I/O Connectors	- power: AC power input socket
	- video input: composite video RCA jack x 2/ S-Video jack x 1
	- audio input: 3 pairs of L/R RCA jacks
	- audio output: 1 pair of L/R RCA jacks
Weight	- 10.34 lbs/ 4.7 kg
Dimensions (W x H x D)	- 10.2 x 6.4 x 12.5"/ 259 x 162 x 317 mm
Environmental	- operating temperature: 10°~35^oC/ 50°~95^oF
	humidity: 80% maximum
	storage temperature: -20°~60^oC/ -40°~140^oF
	humidity: 80% maximum
Safety Regulation	- FCC class A, CE Mark, VCCI-I, UL, CUL, T?V