3M MP7730 Multimedia Projector

Operator's Guide

MP7730 Projecteur multimédia Guide de l'opérateur MP7730 Multimedia-Projektor Benutzerhandbuch Proyector de Multimedia MP7730 Manual del Usuario MP7730 Proiettore Multimediale Manuale dell'operatore MP7730 Bruksanvisning för multimediaprojektor MP7730 Multimedia Projector Gebruiksaanwijzing

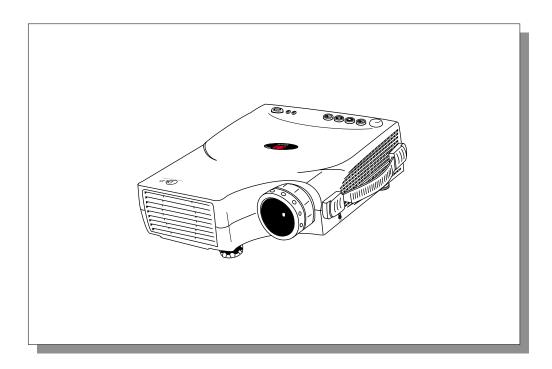


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The Appendix is in English only. Please click here to read it.

Intended Use

Before operating the machine, please read the entire manual thoroughly. The 3M Multimedia Projector MP7730 was designed, built, and tested for use indoors, using 3M lamps, 3M ceiling mount hardware, and nominal local voltages. The use of other replacement lamps, outdoor operation, operation in environments containing heavy cigarette smoke or different voltages has not been tested and could damage the projector or peripheral equipment and/or create a potentially unsafe operating condition.

Important Safeguards

1. Read and understand all instructions before using. Pay particular attention to areas where these symbols are shown:

	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
Caution	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices.

✓ *Note* - Used to emphasize important conditions or details.

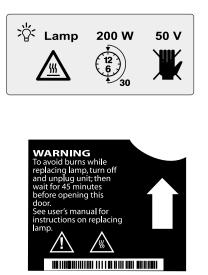
- 2. Close supervision is necessary when any appliance is used by or near children. Do not leave appliance unattended while in use.
- 3. Never look directly into the projector lens when the lamp is on. The high pressure mercury lamp produces a strong light that could damage your eyesight.
- $\triangle 4$. Care must be taken, as burns can occur from touching hot parts.

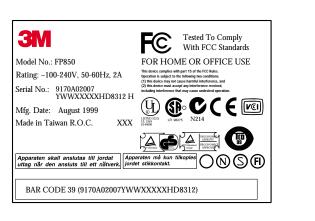
Caution 5. Do not operate appliance with a damaged cord or if the appliance has been dropped or damaged, until it has been examined by a qualified service technician.

- ⚠ 6. Position the cord so that it will not be tripped over, pulled or placed in contact with hot surfaces.
 - 7. If an extension cord is necessary, a cord with a current rating at least equal to that of the appliance should be used. Cords rated for less amperage than the appliance may overheat.
 - 8. Always unplug appliance from electrical outlet before cleaning and servicing and when not in use. Grasp plug and pull to disconnect.
 - 9. To reduce the risk of electric shock, do not immerse this appliance in water or other liquids.
 - 10. To reduce the risk of electric shock, do not disassemble this appliance. Take it to a qualified technician when service or repair work is required. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
 - 11. Connect this appliance to a grounded outlet.
 - 12. Do not expose this projector to direct sunlight or use it outside.
- 13. Keep all ventilation openings free of any obstructions.
 - 14. Always open the lens shutter or remove the lens cap when the projector lamp is on.
 - 15. Do not look directly into light beam of laser pointer. The pointer produces a strong light which could damage your eyesight.
 - 16. The projection lamp contains mercury. Always dispose of it in a proper manner according to local regulations.
 - 17. To prevent lamp from bursting, do not continue to use the same lamp after changing the mounting position of the projector (desktop to ceiling mount or ceiling mount to desktop mount).
 - 18. Always operate machine on a flat, sturdy surface.

Product Safety Labels

The following safety labels are used on or within the MP7730 projector to alert you to items or areas requiring your attention.







Caution

In some countries, the line voltage is NOT stable. This projector is designed to operate safely within a bandwidth of 110 to 230 volts \pm 10 volts, but could fail if power drops or surges of \pm 10 volts occur. In these high-risk areas, it is recommended to install a power stabilizer unit.

Save These Instructions

The information contained in this manual will help you operate and maintain your 3M[™] MP7730 Multimedia Projector.

Introduction

Thank You for Choosing 3M

Thank you for choosing 3M multimedia projection equipment. This product has been produced in accordance with 3M's highest quality and safety standards to ensure smooth and troublefree use in the years to come.

For optimum performance, please follow the operating instructions carefully. We hope you will enjoy using this high performance product in your meetings, presentations, and training sessions.

Warranty

Limited Warranty

3M warrants this product against any defects in material and workmanship, under normal usage and storage, for a period of two years from date of purchase. Exclusion to Warranty: The lamps are considered a consumable item and are warrantied for 90 days or 180 hours, whichever occurs first. Proof of purchase date will be required with any warranty claim. In the event this product is found to be defective within the warranty period, 3M's only obligation and your exclusive remedy shall be replacement of any defective parts (labor included). To obtain warranty service, immediately notify the dealer from which you purchased the product of any defects. In the USA call 1-800-328-1371 for warranty or repair service.

Limitation Of Liability

THE FOREGOING WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND 3M SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTIBILITY AND FITNESS. 3M SHALL NOT BE LIABLE FOR ANY DAMAGES, DIRECT, CONSEQUENTIAL, OR INCIDENTAL, ARISING OUT OF THE USE OR INABILITY TO USE THIS PRODUCT.

Important: The above warranty shall be void if the customer fails to operate product in accordance with 3M's written instructions. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

FCC STATEMENT - CLASS A: This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class "A" computing device pursuant to Subpart B of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his/her own expense will be required to take whatever measures may be required to correct the interference.

FCC STATEMENT - CLASS B: This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can by determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

EEC STATEMENT: This machine was tested against the 89/336/EEC (European Economic Community) for EMC (Electro Magnetic Compatibility) and fulfills these requirements.

Video Signal Cables: Double shielded coaxial cables (FCC shield cable) must be used, and the outer shield must be connected to the ground. If normal coaxial cables are used, the cable must be enclosed in metal pipes or in a similar way to reduce the interference noise radiation.

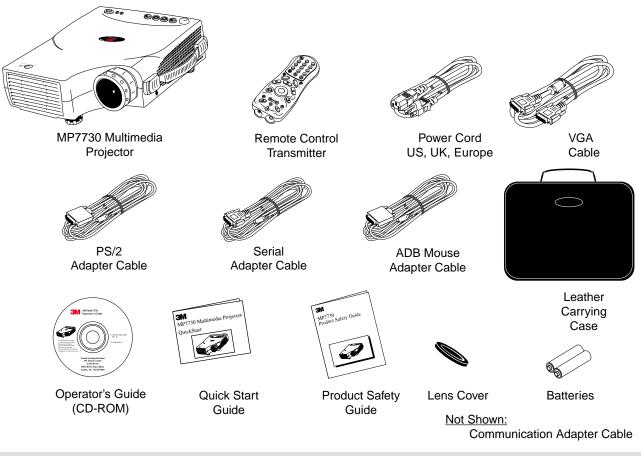
Video Inputs: The input signal amplitude must not exceed the specified level.

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Shipping Box Contents

The $3M^{TM}$ MP7730 Multimedia Projector is shipped with the necessary cables required for standard VCR, PC, MacintoshTM or laptop computer connections. Carefully unpack and verify that you have all of the items shown below. If any of these items are missing, please contact your place of purchase.

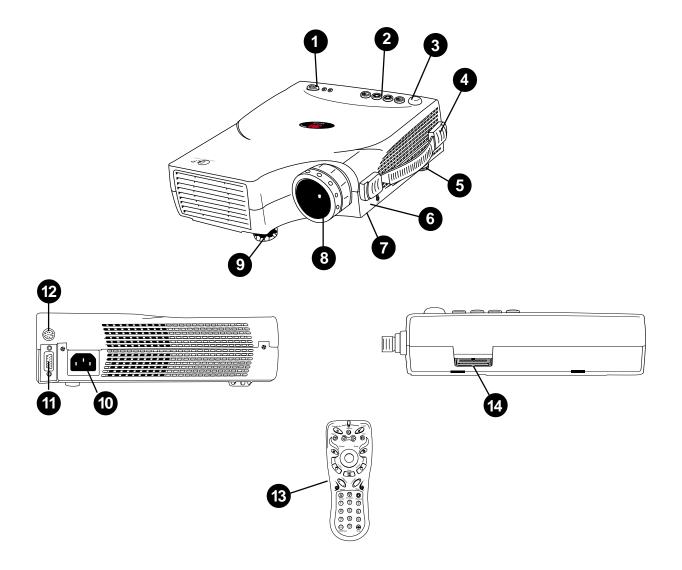


Optional Accessories

Gender Change XGA MAC Monitor Adaptor(1))
Video Module (RCA with tuner))
Video Module (SCART without tuner) (1))

- ✓ Note: For more information on the Optional Video Module and its functions, please see the Optional Video Module section of this manual.
- ✓ Note: Save the shipping box and packing materials in the event the MP7730 should require shipping to a 3M Service Center for repair.

Part Identification



- 1. Standby/On Button
- 2. External Control Pad
- 3. Remote Control Sensor
- 4. Carrying Handle
- 5. Image Tilt Control
- 6. Kensington Lock
- 7. Lamp Access Door (underneath unit)

- 8. Projection Lens
- 9. Height Adjustment Feet
- 10. AC Power Cord Input
- 11. Serial Port Terminal Connection
- 12. Mouse Control Port (Serial PS/2 ADB)
- 13. Remote Control Transmitter
- 14. Video Module Connection

Machine Characteristics

The MP7730 Multimedia Projector integrates ultra-high bright lamp and TI[™] DLP[™] technology into a single unit.

The MP7730 Multimedia Projector offers the following features:

- Small and portable unit
- Easy to set up and use
- XGA resolution and component video compatible
- Horizontal and vertical image inverting
- Horizontal and vertical image position control
- Ultra-high brightness projection lamp
- Ability to display 16.7 million colors

- Full function remote control
- Digital keystone correction
- IR remote control sensor on top
- On screen menus in seven languages
- Color balance control for data/video
- RS-232 control capability
- Optional ceiling mount kit

The MP7730 Multimedia Projector offers the following optional features:

• Attachable video module

• Cable television (CATV) tuner

✓ Note: The brightness of your machine will vary depending on the ambient room conditions and contrast/ brightness settings.

External Control Pad Buttons

The External Control Pad is located on top of the projector, near the back end.

The **Infrared Remote Receiver** allows the projector to accept signals from the remote control. For best results, be sure to aim the control toward this sensor, without any obstructions between the two, and at a distance no greater than 4 meters (13 feet).

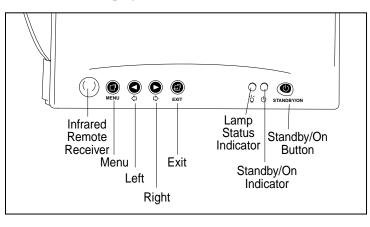
The **Menu** button will display the menu system onscreen. Press **Menu** again to access the sub-menus. The **Left** and **Right** buttons help you navigate among choices and settings in the menus and sub-menus.

Press the Exit button to go back to the Main Menu. Press Exit again to leave the menu system.

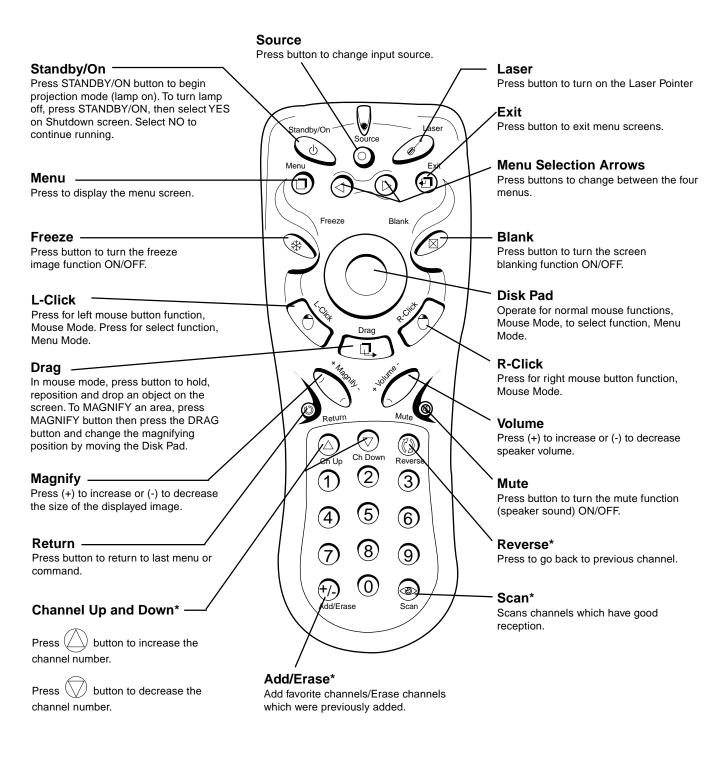
The **Lamp Status Indicator** will blink or light up when the lamp needs service, cooling or replacement. See page 29 for more detailed information.

When the projector is turned on, the **Standby/On Indicator** will blink during warm-up and lamp ignition, then stay green to indicate the projector is ready for use.

Press the **Standby/On Button** to turn the projector on or off.



Remote Control Identification



* Note: These features are for use only with the optional video module.

Introduction

Remote Control Features

The remote control sensor is located near the back of the projector. The distance between the sensor and the remote control unit must be shorter than 4 meters (13 feet).

Freeze

The image will be frozen when the FREEZE button is pressed. A "Pause" icon appears at the lower right of the screen for three seconds during the freeze function. A "Play" icon appears at the lower right of the screen for three seconds when the freeze function is released. To release the freeze function, press the FREEZE button or SOURCE button (when the input source is switched over during display).





Freeze button

"Pause" icon "Play" icon

Mute

Pressing the MUTE button will mute the sound. A text box saying "Mute" appears at the lower right of the screen. Press MUTE button again or VOLUME +/- button to release the function.



Volume

Press the VOLUME + or - buttons to adjust the loudness. The volume slide bar will disappear three seconds after the last adjustment is made.



Magnify

By pressing MAGNIFY +, the center of the picture can be magnified, doubling in size. When the button is pressed again, the picture is further magnified, up to four times the original size. By pressing MAGNIFY -, the size of the image is reduced to half its size. When the button is pressed again, the picture is further reduced until it is restored to the original size. To return to the normal display mode, press the RETURN button. (This function can be used in combination with the FREEZE function.)





Magnify button Magnify icon

Laser

Press this button to generate the laser beam that functions as a red pointer on the screen.



Disk Pad

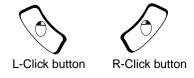
If the PS/2 (ADB) mouse cable is connected with the PC Notebook or Mac Powerbook mouse port, the Disk Pad can take over the Notebook or Powerbook mouse function. When the MAGNIFY function is activated, use the Disk Pad to move around the display areas.

Note: The mouse function is not available when the MAGNIFY function is turned on.



R-Click, L-Click

These two keys are used when the mouse function is activated after the PS/2 port is connected. They act as the right (R) and left (L) buttons of a computer mouse.



Drag

This button toggles between ON and OFF for the drag function of the remote mouse.



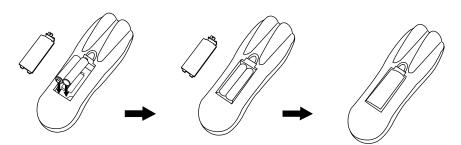
Blank

Press this button to activate or release the BLANK function. BLANK makes the screen go blank.

\bigcirc
Blank button

Installing or Replacing Batteries

- Push and slide the battery compartment lid in the direction shown.
- Install two AA batteries as indicated by the diagram inside the compartment.
- Position the lid over the compartment and snap back into place.

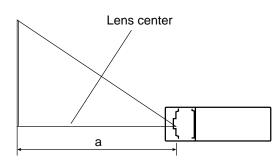


• Avoid excessive heat and humidity.
• Do not mix old and new batteries or different types of batteries.

System Setup

Screen Chart

Place the projector at the required distance from the screen according to the desired picture size (see the table below).

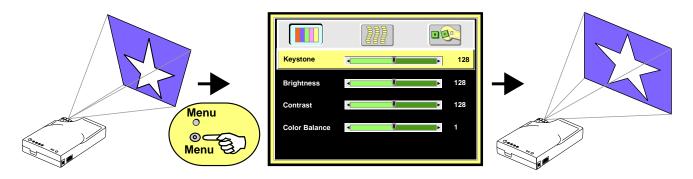


Screen Size			Distance	to Screen
Width	Height	Diagonal	Minimum	Maximum
81 cm	61 cm	102 cm	140 cm	433 cm
(32 in.)	(24 in.)	(40 in.)	(4.6 ft.)	(14.2 ft.)
122 cm	91 cm	152 cm	214 cm	655 cm
(48 in)	(36 in.)	(60 in.)	(7.0 ft.)	(21.5 ft.)
163 cm	122 cm	203 cm	287 cm	384 cm
(64 in.)	(48 in.)	(80 in.)	(9.4 ft.)	(28.7 ft.)
203 cm	152 cm	254 cm	360 cm	1096 cm
(80 in.)	(60 in.)	(100 in.)	(11.8 ft.)	(36 ft.)
244 cm	183 cm	305 cm	381 cm	1317 cm
(96 in.)	(72 in.)	(120 in.)	(12.5 ft.)	(43.2 ft.)
305 cm	229 cm	381 cm	546 cm	1647 cm
(120 in.)	(90 in.)	(150 in.)	(17.9 ft.)	(54.0 ft.)
406 cm	305 cm	508 cm	737 cm	2198 cm
(160 in.)	(120 in.)	(200 in.)	(24.3 ft.)	(72.1 ft.)

Note: These sizes are $\pm 1\%$. This is due to variations in the manufacture of the lens. If you are close to one of the endpoints you should verify with your unit that the image is the proper size at the proper distance.

Digital Keystone Correction

Keystoning is when the projected image is noticeably wider on either the top or bottom. To correct this, press MENU on the remote control or projector, then select the Display menu (first menu bar button on the left), then adjust the sliding bar labeled Keystone, as needed. Pressing the + or \ominus button will correct keystoning at the top of the image. Pressing the - or \ominus button will correct keystoning at the bottom of the image.



Connecting to Various Equipment

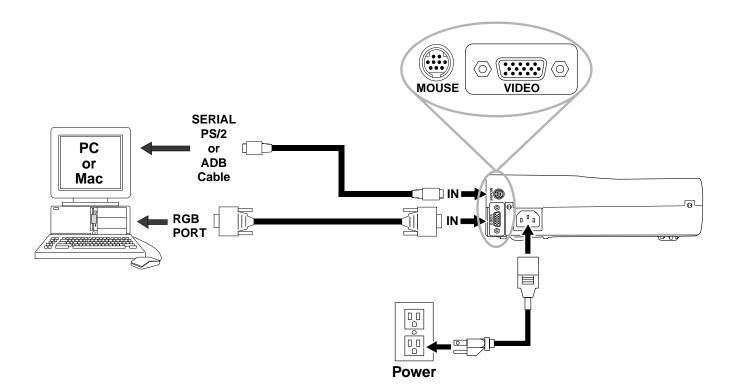
It only takes a few minutes to connect the 3M[™] Multimedia Projector MP7730 to your computer, VCR, or other device.

Caution

Turn off power to all devices before making connections. Never plug anything into the projector or computer while any device is in operation.

The MP7730 must be powered down when making connections. The mouse emulation may not work if the unit is not powered down before the mouse cable connections are made.

Connection Terminals



Apple[™] Desktop Mouse

The Macintosh operating system should recognize the MP7730 as a mouse without any drivers being loaded.

VirtualMouse for PC Computer

For IBM^M compatible computers, set the operating systems to **Serial Mouse** or **PS/2 Mouse** to recognize projector as the mouse pointer device.

To set mouse driver information:

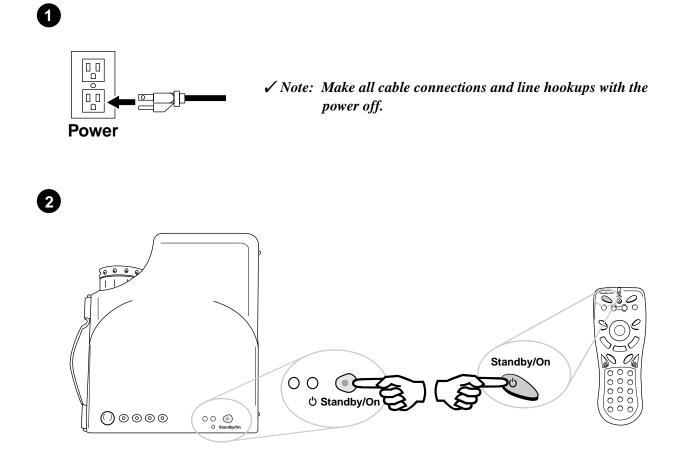
- a) WindowsTM 95/WindowsTM 98/WindowsTM NT
 - 1. Select Start/Settings/Control Panel.
 - 2. Select Add New Hardware.
 - 3. "Windows will now search for any PnP devices..." Click Next.
 - 4. Hardware Types: Scroll down to Mouse. Click Mouse.
 - 5. Select Manufacturer: Standard Mouse Type
 - 6. Select Model: Standard Serial Mouse
 - 7. Click Next, Finish, Start.
 - 8. Restart Windows if prompted.
- b) *Windows*[™] 3.1

From Program Manager

- 1. Click Main
- 2. Click **Windows Setup** (make note of the current mouse driver)
- 3. Click Options
- 4. Then Change Systems Settings
- 5. Choose Mouse
- 6. It should be listed as Microsoft or IBM PS/2
- ✓ Note: For proper mouse operation, always turn the projector power on first and power up the computer. For some laptop computers, you may need to disable the internal pointing device (IPD). This is done through the BIOS level set-up of the particular machine, or it could be listed in a "Utilities" program group, i.e., "Toshiba Utilities[™]," or "Thinkpad Features[™]."

Operation

Startup



- 1. Plug power cord into wall socket.
- 2. Press the STANDBY/ON button
 - The ON indicator blinks green and then stays green.
 - The ON indicator will blink green during warm-up and lamp ignition. (When power is turned off, there is a 90-second reset period before the STANDBY/ON button will function again.)
- 3. Turn on all connected equipment.
- ✓ Note: If you have the Optional Video Module attached to the unit, press the Source button on the remote to select the source of the signal to be projected onto the screen. The selected signal input is displayed at the top right of the screen. The display will show the last selected input source before power was turned off. (For more information, please refer to the Optional Video Module section of this manual.)

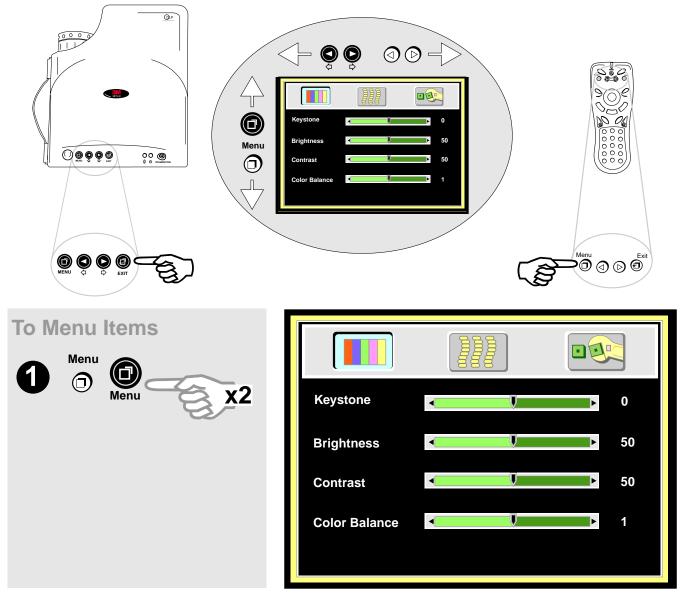
Operation

Main Menu

Press "Menu" key and the main menu will display on the screen. Press "Menu" again to enter page items, and press \Leftrightarrow and \Rightarrow to select sub-menus. The main menu will go off automatically if there is no further action from user for 10 seconds. Press EXIT button to leave the current sub-menu, and press EXIT again to leave the main menu.

Menu Pages

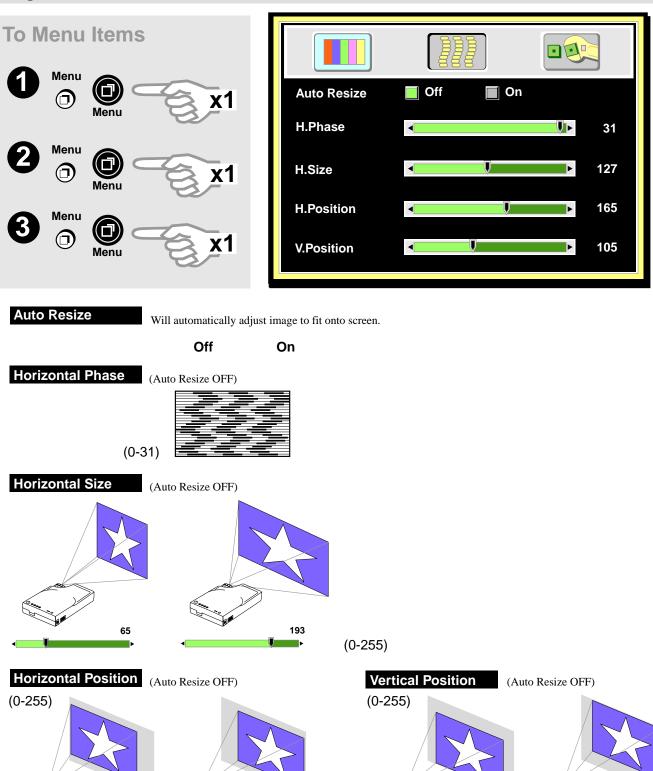
MENU BAR				
MENU LAYOUT	Display Menus	Image Menus	Control Menus	Source Menus
Without Optional Video Module	Keystone Brightness Contrast Color Balance	Auto Size Horizontal Phase Horizontal Sync Horizontal Position Vertical Position	Language Mirror Blank Auto Off Reset	(not applicable)
PC or Mac with Optional Video Module	Keystone Brightness Contrast Sharpness	Auto Size Horizontal Phase Horizontal Sync Horizontal Position Vertical Position	Language Mirror Blank Auto Off Reset	Source Volume Treble Bass Mute
Video Input with Optional Video Module	Keystone Brightness Contrast Color Balance	Tint Sharpness Image Ratio System	Language Mirror Blank Auto Off Reset	Source Volume Treble Bass Mute



Display Menu

Operation Display Menu Keystone (0-255) 128 160 128 96 Brightness (0-255) 128 65 193 Contrast (0-255) 128 193 65 . **Color Balance** (0-2) 0

Image Menu



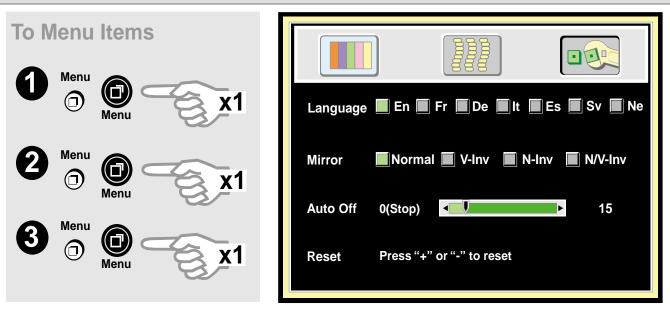
193

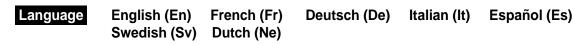
193

65

65

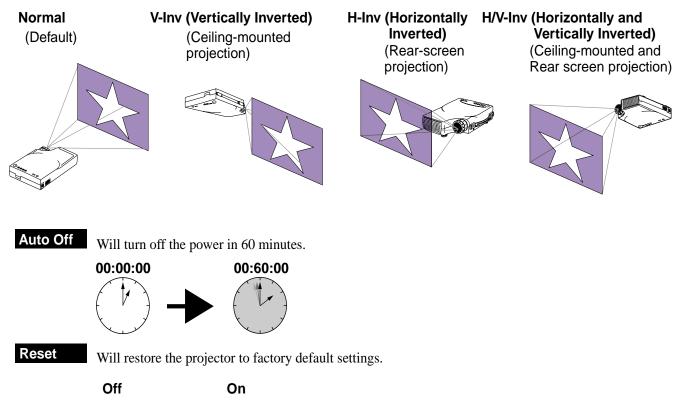
Operation Menu





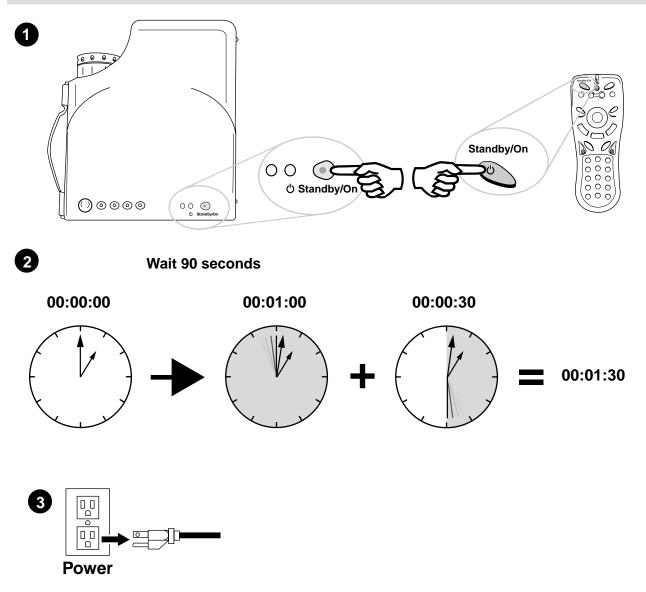


Will invert image to display properly according to position of projector.



Operation

Shutdown



- 1. Press the STANDBY/ON button. The Shutdown screen will display. Select the YES option (press arrow button or mini-joystick) to turn off.
- **2.** The fan will continue to run for approximately 90 seconds.
- 3. Disconnect power cord from wall socket.
- 4. Disconnect cables if moving projector to new location.

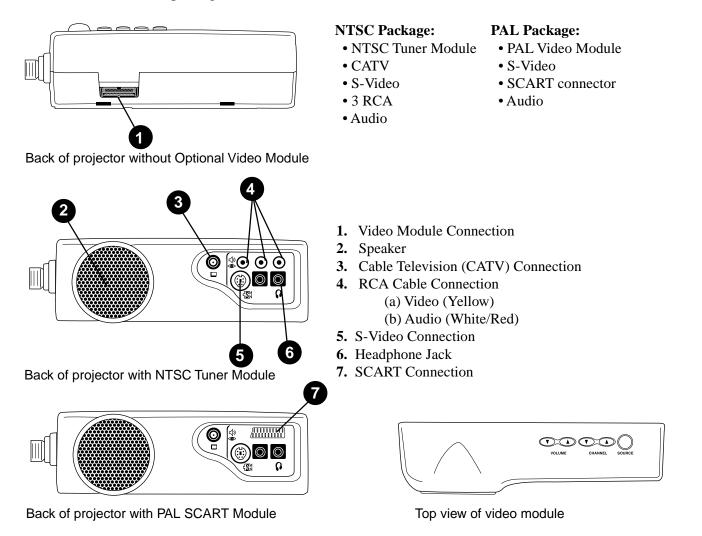
Do not unplug power cord before pressing the STANDBY/ON button. After the STANDBY/ON button is pressed, the fan rotates for about 90 seconds to cool the projector.

Caution

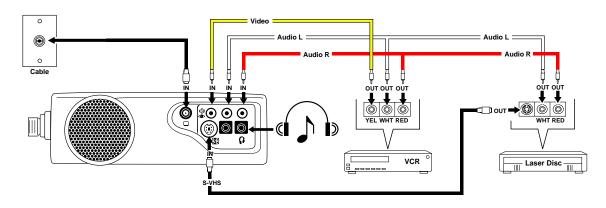
Optional Video Module

Features

The Optional Video Module makes it possible to hook the MP7730 to a laser disc, VCR, or other video devices. Two versions will be available: an NTSC Package (with RCA connectors and television tuner), and a PAL package (with a SCART connector and no television tuner).



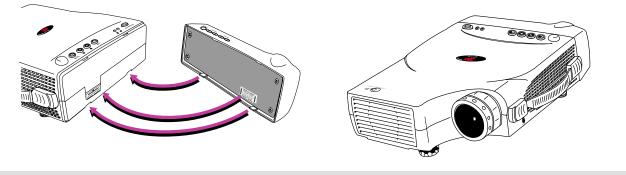
Optional Video Module Connections



Attaching the Optional Video Module to the MP7730

Caution Power down the projector before connecting the Optional Video Module or any other device. Failure to do so may cause serious damage.

- 1. Precisely align the two metal tabs on the bottom of the module and insert into the corresponding slots on the back of the projector.
- 2. Slowly push the module to fit with the unit. Make sure that the module plugs into the AV con nection on the projector.
- 3. Plug the correct cable into the corresponding jack or port in the back of the unit.
- 4. Select inputs by pressing SOURCE key, and select the appropriate source channel by pressing CHANNEL UP/DOWN.



Switching Input Signals

Pressing the Source button on the remote control or the projector will cycle between these choices of input signals: RGB (computer), Video (composite video from a VCR), S-Video, and Tuner. The projector will then search for the selected type of signal until it is found or switched to another type.



Scanning Channels

The MP7730 can receive over 100 television channels. In Tuner mode (TV and CATV), press the Scan button on the remote control to view all available television channels. The message "DO YOU REALLY WANT TO SCAN? YES NO" will appear onscreen. Press either the left or right arrow buttons on the remote to reach Yes or No, then press the Menu button to enter the selected answer. The message "TUNER IS SCANNING NOW" will display for a few seconds, and then the scanned channels will appear for a few seconds each.







Image Sub-Menu

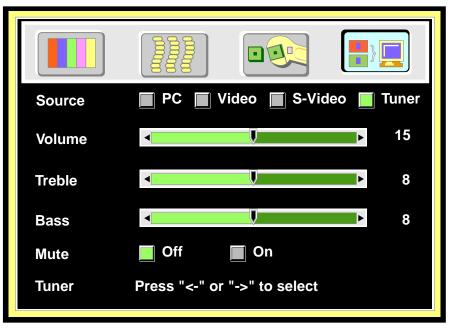
4:9 (Normal) 16:9 (Video) **Image Ratio** Auto PAL-M PAL-N SECAM System U Color • ► -123-V Tint • ► -123-Color Less More Tint Red (Source is video or S-video) Green Image Ratio 4:9 (Normal) 16:9 (Video) System PAL-N SECAM Auto PAL-M

This menu is only available when the input signal is from Video, S-Video, TV or CATV.

Operation

 Go into the menu system and move to the Source sub-menu. Use the Menu key on the control pad or remote control unit to scroll through items in the sub-menu. Select the Tuner items and press

 ¬ or ▷ keys to prompt out of the tuner menu.



- 2. Use the Menu key on the control pad or remote control unit to scroll through the Tuner sub-menu.
 - **TV/CATV:** Please select the TV signal source. If the source is from CATV, please choose CATV. Otherwise, select TV.
 - Nationality: Please select the corresponding number representing the user's country. (See reference chart.)
- ✓ Note: The item "NONE Tuner" is only for the user's information and is not a function. For example, if current A Box is NTSC Tuner box, then "NTSC Tuner" will appear in this section.

NONE	Tuner
TV/CATV	
Nationality	

Optional Video Module

3. After leaving the menu system, press the Scan button to scan all existing channels in that region.

✓ Note: Scan function must be done for the first use in certain regions to catch all the channels in the local CATV system.

START SCANN	ING?
Yes	No

After the "Start scanning" dialog box prompt, use the channel up/down key to select "Yes" or "No." Press Return key to set.

	unction	ust be performed with remote control unit)
--	---------	--

Channel Select Press the channel number button user wants to select (for example, 12), then press Return key to set.

Channel Up/Down Go up and down through channels by pressing the Up/Down buttons. The channel number will appear in the lower right corner of the screen. If there is no further action for three seconds, the channel number display will disappear automatically.

Scan Press the Scan button for two seconds to begin scanning TV channels.

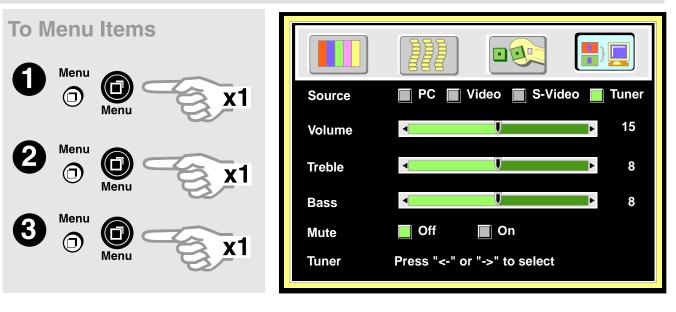
Add/ErasePress the Add/Erase button for two seconds to add or erase the channel. To
delete channels from memory, press the button to erase the channel. A
"Channel Erased" message will display. Users can also add channels to
memory by pressing the button after selecting it. A "Channel Added" message
will display.

Channel Erased

Channel Added

Reverse Press the Reverse button to toggle between the previous and current channels.

Source Menu



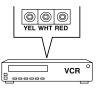
Source

S-Video

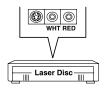
Tuner



PC

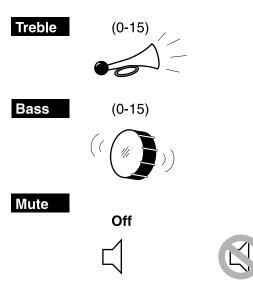


Video





Volume (0-29)



On

Lamp

Use and Replacement of Lamp

The projector lamp has a normal operating time of approximately 1200 to 1500 hours, called the lamp life. During the normal lamp life, the picture will be bright and the colors clear. If the lamp is used beyond the normal lamp life, the picture will become dark and the colors poor. Always replace lamps with new ones. Using an old lamp in the projector could cause a malfunction. When the power is turned on, the LAMP indicator will light up red or a message will be displayed to indicate when it is time to replace the lamp. Consult your dealer.

Lamp/Temperature Status LED Indicators

Lamp Exceed Service Hours — When this LED lights red continuously, it is warning you that the lamp has exceeded 1500 service hours. Replace the projection lamp immediately.

CHANGE THE LAMP, AND RESET THE LAMP TIMER — The lamp has been operated for 1200 hours.

CHANGE THE LAMP, THE POWER WILL TURN OFF AFTER 20 HOURS — The lamp has been operated for 1479 hours, and the power will turn off after 20 more hours.

CHANGE THE LAMP! — The lamp has been operated for more than 1500 hours, and the power will turn off automatically in 10 minutes.

All of these messages will not display for more than 3 minutes, but each message will be displayed whenever you turn on the lamp again.

Lamp is not well attached — When the LED blinks rapidly, it indicates that the lamp is not attached properly.

Temperature is too high — When the projector's internal temperature is too hot to operate safely, the LED blinks slowly for one minute and the lamp goes off automatically.

If the LED light is off, it means that the projector's lamp and temperature are operating under normal conditions.

Caution

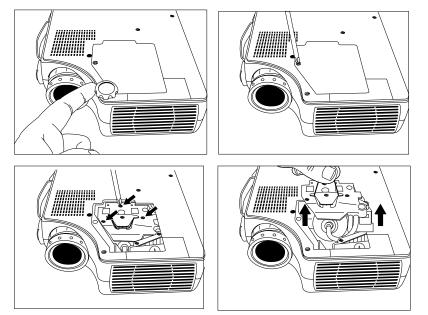
The LAMP indicator will light if the lamp becomes too hot. Turn off the power and let the projector cool for 45 minutes. Turn on. If the LAMP indicator still lights up red, please contact your dealer.

Lamp Replacement

 \bigwedge

WARNING To reduce the risk of electrical shock, always turn off projector and disconnect power cord before changing lamp.

- 1. Turn the main power switch off and disconnect the power cord from the outlet.
- 2. Loosen screw and remove the lamp cover. If the lamp is hot, avoid burns by waiting 45 minutes until lamp has cooled.
- 3. Loosen three screws designated by arrows below. (It is strongly recommended to use a magneticheaded screwdriver, if possible. Pull the handle to remove lamp housing. If the screws are not loosened completely, they could damage your fingers. Do not insert your hand into the box after the lamp is removed. If the optical parts inside are touched by hand, it could cause color unevenness, etc.
- 4. Replace the lamp with the new one, insert into projector, and tighten the screws. Firmly tighten the lamp screws. Loose screws may cause a bad connection, which may result in a malfunction.
- 5. Re-install the lamp cover and tighten the screw. Do not turn on the power with lamp cover removed. Whenever the lamp has been replaced, reset the total operation time of the lamp. Do not reset if the lamp was not replaced, as this could cause breakage.



✓ Note: For maximum lamp life, do not shock, handle or scratch the lamp glass when it is hot. Also, do not use an old or previously used lamp as a replacement lamp.

Caution

To reduce the risk of cuts to fingers and/or decreasing image quality by touching the lens, do not insert hand into the empty lamp compartment when the lamp has been removed.

This lamp contains mercury. Consult your local hazardous waste regulations and dispose of this lamp in a proper manner.

To reduce the risk of severe burns, allow the projector to cool for at least 45 minutes before replacing the lamp.

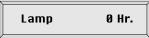
To reduce the risk of cuts to fingers and damage to internal components, use caution when removing lamp glass that has failed and shattered into sharp pieces.

Maintenance

Resetting the Lamp Hours

Please do the following within 10 minutes from turning power on if you replace the lamp after 1500 hours.

1. Press the Exit button on projector or remote control for three seconds to display the total used lamp time.



2, Press MENU button on projector or remote control during the lamp hour message. Then an adjustment message will appear.

Lamp	0 Hr.	Reset	Cancel

- 3. Press \triangleleft or \triangleleft to select the setting. To select the default setting, select "Reset" (or "Cancel" to return to the default setting).
- 4. Press EXIT to leave.

PROBLEMS	SOLUTIONS
NO POWER	 ✓ Plug the power cord into the AC inlet. ✓ Plug the power cord into the power inlet. ✓ Wait 2 minutes after turning off the projector before turning it back on.
NO PICTURE	 ✓ Check that you have selected the proper input source to project. ✓ Ensure that all cables are connected properly. ✓ Adjust the brightness and contrast. ✓ Remove the lens cap.
IMAGE ISN'T SQUARE ON SCREEN	 ✓ Reposition the unit to improve its angle to the screen. ✓ Is the vertical offset properly corrected using the keystone function?
POOR COLOR	 ✓ Select the correct video system. ✓ Adjust the brightness, contrast, and saturation.
IMAGE IS BLURRED	 Adjust the focus. Reposition the unit to improve its angle to the screen. Ensure that the distance between the unit and the screen is within the adjustment range of the lens.
REMOTE CONTROL DOESN'T WORK	 ✓ Replace the batteries with new ones. ✓ Make sure there are no obstacles between the remote control and the unit. ✓ Operate remote control within 4 meters (13 feet) of the unit. ✓ Make sure nothing blocks the receiver on the control pad.
NO SOUND	 ✓ Check the audio cable connection from audio input source. ✓ Adjust the audio source. ✓ Press VOLUME (+) button. ✓ Press MUTE button.

Status Indicator Lights and Messages

Message Displayed	Meaning (and Solution, if applicable)
SEARCHING	Projector cannot identify input signal.
INPUT SIGNAL DETECTED, ACTIVATING AUTO IMAGE	Projector has identified input signal.
SYNC IS OUT OF RANGE	The input signal's horizontal frequency exceeds the range of the projector's.
CHANGE THE LAMP AND RESET THE LAMP TIMER	The lamp has been operated for over 1200 hours and needs to be replaced soon.
CHANGE THE LAMP, THE POWER WILL TURN OFF AFTER 20 HOURS.	The lamp has been operated for 1479 hours and the power will shut off after 20 more hours. Replace the lamp as soon as possible.
CHANGE THE LAMP! (blinking, with LED lighting red)	The lamp has been operated for over 1500 hours. Power will automatically shut off in 10 minutes. Replace the lamp immediately.

Accessories

Description

Part Number

Power Cord (EU)	DY-0205-1354-4
Power Cord (US)	
Power Cord (UK)	
Adapter, PS/2 Mouse	
Adapter, ADB (Apple Desktop Bus) Mouse	
Adapter, Serial Mouse	
Communication Cable	
VGA Cable	
Mac Adapter (switchable)	
150W Lamp	
Remote Control	
Soft-side Carrying Case	
Lens Cover	

Not Included with Basic Packet

Description

Part Number

NTSC Optional Video Module (RCA with Tuner)	
PAL Optional Video Module (SCART)	
3-Conductor Video/Audio Cable	
Ceiling Mount	
Stereo Mini-Jack Cable	
S-Video Cable	
SCART-RCA Adapter	DY-0205-1011-0
_	

Ordering Parts or Getting Information

For product information, product assistance, service information, or to order accessories, please contact 3M Customer Service at the following number:

- In U.S. or Canada: 1-800-328-1371
- In other locations, contact your 3M Sales office.

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Appendix

Technical Specifications

✓ Note: All specifications are subject to change without notice.

General

Product name	Multimedia Projector
Model name	MP7730

Optical

Display system	1-CHIP DMD	
Lens	F/Number: F/2.7 - F/3.4	Focal Length: F = 72 – 108 mm (2.8 in. – 4.3 in.)
Lamp	150 W UHP lamp	

Electrical

Power supply	AC100 ~ 240V, 6.5A ~ 2.9A, 50/60 Hz (Automatic)
Power consumption	200 W (Max)

Mechanical

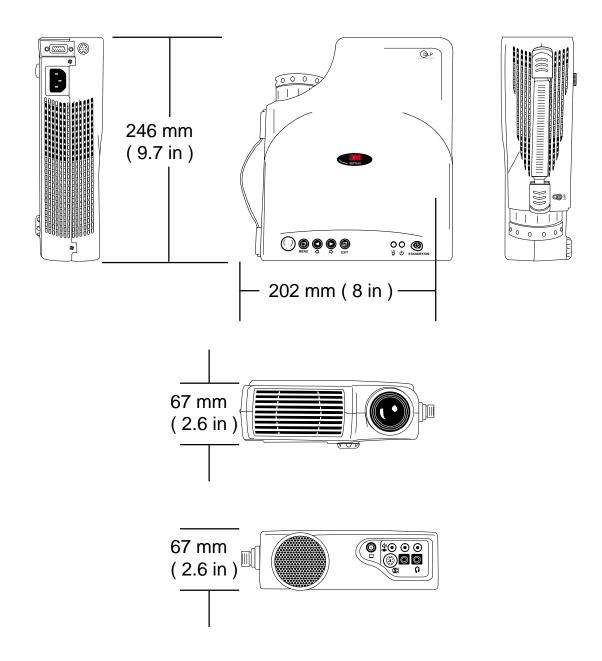
Dimensions	8 in. (W) x 2.6 in. (H) x 9.7 in. (D)
	202 mm (W) x 67 mm (H) x 264 mm (D)
Operating	
temperature range	32° ~ 95°F (0° ~ 35°C)
Weight	2.27 kg (5 lbs.)

Input/Output terminal

Video signal	
input terminal	S VIDEO : Mini DIN 4-pin terminal
	VIDEO : RCA Jack terminal + BNC
	AUDIO : RCA Jack terminal
RGB input/output	
signal terminal	RGB signal : D-sub 15-pin (Female)
	AUDIO : RCA Jack + BNC
Control terminal	D-sub 9-pin (Male)
Mouse	MD 9-pin (serial/PS2/ADB)

Appendix

Dimensions



Appendix

Preset Display Resolution Table

Resolution	H Sync (kHz)	V Sync (kHz)	Remark	
640 x 350	31.5	70.1		
640 x 400	37.9	85.1	VESA	
720 x 400	31.5	70.0		
720 x 400	37.9	85.1	VESA	
640 x 480	31.5	60.0	VESA	
640 x 480	37.9	72.8	VESA	
640 x 480	35	66.7	Macintosh	
640 x 480	43.3	85.0	VESA	
800 x 600	35.2	56.3	VESA	
800 x 600	37.9	60.3	VESA	
800 x 600	46.9	75.0	VESA	
800 x 600	48.1	72.2	VESA	
800 x 600	53.7	85.1	VESA	
832 x 624	49.7	74.5	Macintosh	
1024 x 768	48.4	60.0	VESA	
1024 x 768	56.5	70.1	VESA	
1024 x 768	60.0	75.0	VESA	
1024 x 768	1024 x 768 68.7		VESA	
1280 x 1024	64.0	60.0	VESA	

Nationality Codes

APITV System Code Definition

NTSC Tuner Box

	Area	Channel		
NTSC	USA	1 (STD)	2 (HRC)	2 (IRC)
NTSC	Taiwan	1		
NTSC	Canada	1		
NTSC	Chile	1		
NTSC	Columbia	1		
NTSC	Mexico	1		
NTSC	Peru	1		
NTSC	South Korea	1		
NTSC	Venezuela	1		
NTSC	Japan	4		
PAL-N	Argentina	5		
PAL-N	Paraguay	5		
PAL-N	Uruguay	5		
PAL-M	Brazil	6		

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