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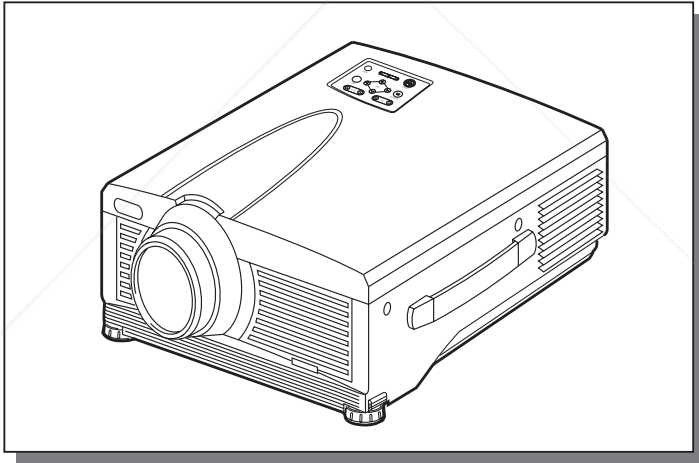
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3M

MP8795 Multimedia Projector

Operator's Guide



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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Liquid Crystal Projector

Operator's Guide

Thank you for purchasing this liquid crystal projector.



WARNING • Please read the “Product Safety Guide” and this “Operator's Guide” thoroughly to ensure correct usage through understanding. After reading, store this instruction manual in a safe place for future reference.

NOTE • The information in this manual is subject to change without notice.

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FEATURES

This liquid crystal projector is used to project various computer signals as well as NTSC / PAL / SECAM video signals onto a screen. Little space is required for installation and large images can easily be realized.

Outstanding Brightness

The UHB lamp and high-efficiency optical system assure a high level of brightness.

Partial Magnification Function

Interesting parts of images can be magnified for closer viewing.

Distortion Correction Function

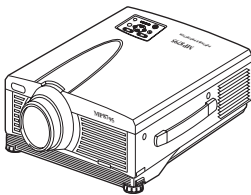
Distortion-free images are quickly available.

BEFORE USE

Contents of package

Make sure all of the following items are included in the package. If anything is missing, please contact your dealer.

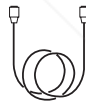
NOTE • Keep the original packing material for future reshipment.



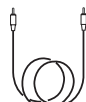
Projector



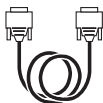
Power Cord x3
(US, UK, Europe)



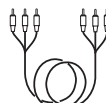
S-Video Cable



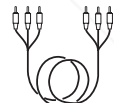
Stereo Mini-Cable



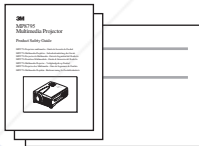
VGA Cable



Video/Audio Cable
(with white lead)



Component Video Cable
(with green lead)



Product Safety Guide
Warranty
Quick Start Guide



Mouse cable x3
(PS/2, ADB, Serial)



Batteries
for Remote Control
Transmitter

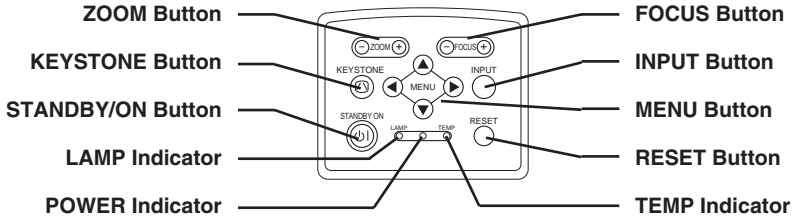


Remote Control Transmitter

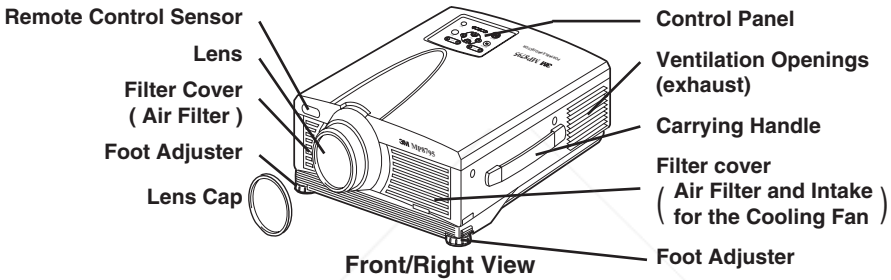
BEFORE USE (continued)

ENGLISH

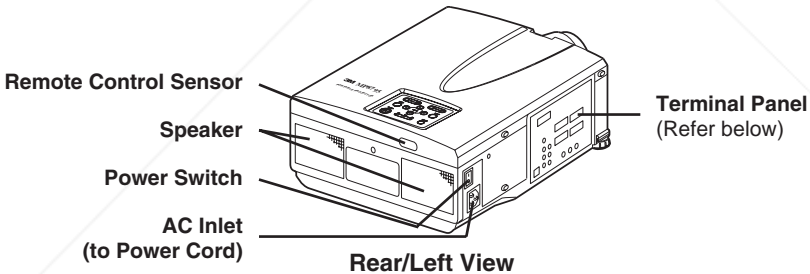
Part Names



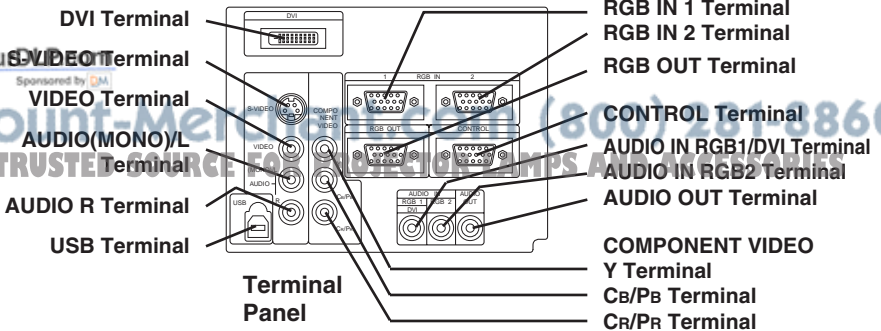
Control Panel
(Refer to P.9 "OPERATIONS")



Front/Right View



Rear/Left View



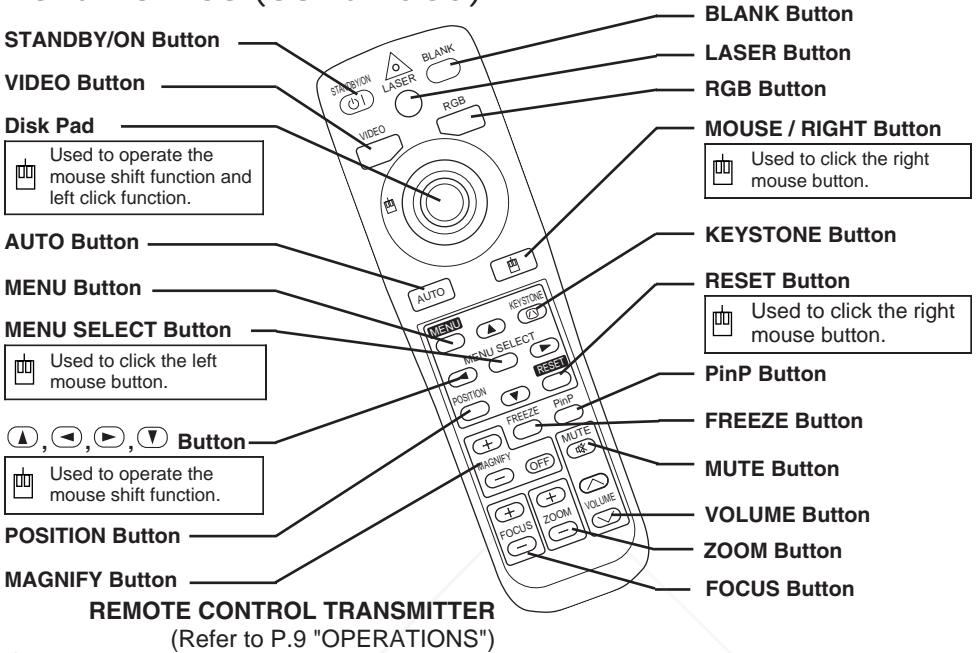
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BEFORE USE (continued)

Part Names (continued)

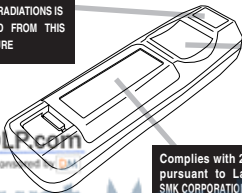


These functions work when the mouse control function is activated. Remember, the POSITION, BLANK ON and MENU ON functions disable the mouse control function.

WARNING • The laser pointer of the remote control transmitter is used in place of a finger or rod. Never look directly into the laser beam outlet or point the laser beam at other people. The laser beam can cause vision problems.

CAUTION • Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

AVOID EXPOSURE-
LASER RADIATIONS IS
EMITTED FROM THIS
APERTURE



CAUTION
LASER RADIATION.
DO NOT STARE INTO BEAM.
MAX. OUTPUT: 1mW
WAVE LENGTH: 650nm
CLASS2 LASER PRODUCT

LASER RADIATION.
DO NOT STARE INTO BEAM.
CLASS2 LASER PRODUCT
MAX. OUTPUT: 1mW
WAVE LENGTH: 650nm
8220261-1 1993-A1-1197



Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated 2001.7.26
SMK CORPORATION
6-5-5 TogeShi Shingawa-ku, Tokyo, JAPAN 142-8511
MANUFACTURED November 2001
PLACE OF MANUFACTURE: A

NOTE • Keep the remote control transmitter away from children and pets.

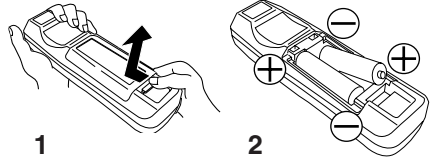
- Do not give the remote control transmitter any physical impact. Take care not to drop.
- Do not place the heavy objects on the remote control transmitter.
- Do not wet the remote control transmitter or place it on any wet object.
- Do not place the remote control transmitter close to the cooling fan of the projector.
- Do not disassemble the remote control transmitter.

BEFORE USE (continued)

Loading the Batteries

Install the AA batteries into the remote control transmitter.

1. Remove the battery cover.
Push the knob while lifting up the battery cover.
2. Load the batteries.
Make sure the plus and minus poles are correctly oriented.
3. Close the battery cover.



CAUTION • Use only the specified batteries with this remote control transmitter. Also, do not mix new and old batteries. This could cause battery cracking or leakage, which could result in fire or personal injury.

- When loading the batteries, make sure the plus and minus terminals are correctly oriented as indicated in the remote control transmitter. Incorrect orientation could cause battery cracking or leakage, which could result in personal injury or pollution of the surrounding environment.
- When you dispose the battery, you should obey the law in the relative area or country.
- Keep the battery away from children and pets.
- When not to be used for an extended period, remove the batteries from the remote control transmitter.

NOTE Replace the batteries when remote control transmitter operation becomes difficult.



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INSTALLATION

Installation of the Projector and Screen

Refer to the drawing and table below for determining the screen size and projection distance.

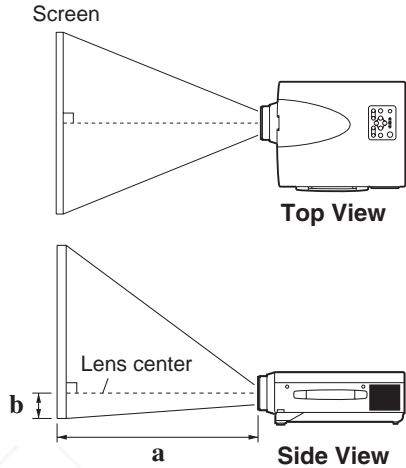
The projection distances shown in the table below are for full size (1024 x 768 dots).

a: Distance from the projector to the screen. ($\pm 10\%$)

b: Distance from the lens center to the bottom of the screen. ($\pm 10\%$)

Table 1. Installation Reference

Screen size [inches (m)]	a [inches (m)]		b [inches (cm)]
	Min.	Max.	
40 (1.0)	55 (1.4)	73 (1.9)	1 (3)
60 (1.5)	85 (2.2)	114 (2.9)	2 (4)
80 (2.0)	114 (2.9)	151 (3.8)	2 (6)
100 (2.5)	144 (3.7)	191 (4.9)	3 (7)
120 (3.0)	176 (4.5)	231 (5.9)	3 (9)
150 (3.8)	220 (5.6)	282 (7.2)	4 (11)
200 (5.0)	291 (7.4)	386 (9.8)	6 (15)



CAUTION • Install the projector in a suitable environment according to instructions of the “Product Safety Guide” and this manual.

• When you fix this unit with a metal tool and the like, you must connect it with ground wire; otherwise, fire or electric shock can result.

Connect the ground terminal of AC inlet of this unit with the ground terminal provided at the building using an optional three-core power-supply cord.

• Please basically use liquid crystal projector at the horizontal position. If you use liquid crystal projector by the lens up position, the lens down position and the side up position, this may cause the heat inside to build up and cause damage. Be especially careful not to install it with ventilation holes blocked.

• Do not install LCD projector in smoke effected environment. Smoke residue may buildup on critical parts (i.e.LCD panel, Lens Assy etc.).

Angle Adjustment

Use the foot adjusters on the bottom of the projector to adjust the projection angle. It is variable within 0° to 9° approximately.

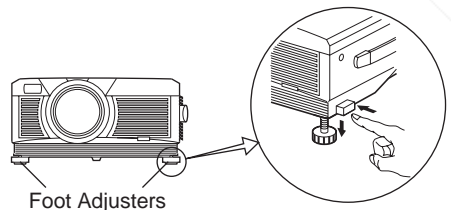
1. Lift up the front side of the projector, and pressing the foot adjuster button, adjust the projection angle.

Release the button to lock at the desired angle.

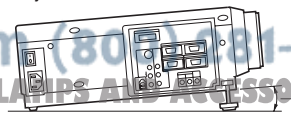
3. Use the foot adjusters for fine adjustment.

Do not force the adjuster screws.

This could damage the adjusters or cause the lock to fail.



Foot Adjusters



Variable within the range of approximately 0° - 9°

CAUTION • Do not release the foot adjuster button unless the projector is being held; otherwise, the projector could overturn or fingers could get caught and cause personal injury.

INSTALLATION (continued)

Cabling

Refer to the table below for connecting each terminal of the projector to a device.

Table 2. Cabling

Function	Terminal	Cable
Analog RGB input	RGB IN 1	VGA cable with D-sub 15-pin jack and inch thread screws
	RGB IN 2	
Analog RGB output	RGB OUT	
Digital RGB input	DVI	DVI cable with inch thread screws
Audio input (from the computer)	AUDIO IN [RGB 1] / [DVI] (interlocked with RGB IN 1 or DVI)	Audio cable with stereo mini jack
	AUDIO IN [RGB 2] (interlocked with RGB IN 2)	
PS/2 mouse control	CONTROL	PS/2 mouse cable
ADB mouse control		ADB mouse cable
Serial mouse control		Serial mouse cable
RS-232C communication		RS-232C cable
USB mouse control	USB	USB cable
S-video input	S-VIDEO	S-video cable with mini DIN 4-pin jack
Video input	VIDEO	Video/audio cable
Component video input	COMPONENT VIDEO Y	Component video cable
	COMPONENT VIDEO Cb/Pb	
	COMPONENT VIDEO Cr/Pr	
Audio input (from video equipment)	AUDIO (MONO)/L	Video/Audio cable or Audio cable with RCA jack
	AUDIO R	
Audio output	AUDIO OUT	Audio cable with stereo mini jack



CAUTION • Incorrect connecting could result in fire or electrical shock.

Please read this manual and the “Product Safety Guide”.

- Before connecting, turn off to all devices to be connected, except for the USB cable.
- The cables may have to be used with the core set to the projector side. Use the cables which are included with the projector or specified.

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NOTE

• Before connecting, read instruction manuals of the devices to be connected, and make sure that the projector is compatible with the device.

- Secure the screws on the connectors and tighten.
- For some RGB input modes, the optional Mac adapter is necessary.
- To select the DVI input, the computer may need some settings. See the manuals of the computer for details.
- Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
- Refer to the “TECHNICAL” section for the pin assignment of connectors and RS-232C communication data.
- When the DVI terminal is used, the RGB OUT terminal may not function.

INSTALLATION (continued)

Power Connection

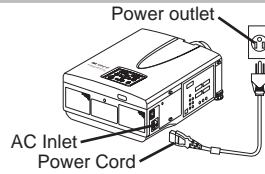
Use the correct power cord depending on the power outlet to be used.

Connect the AC inlet of the projector to the power outlet firmly by the power cord.

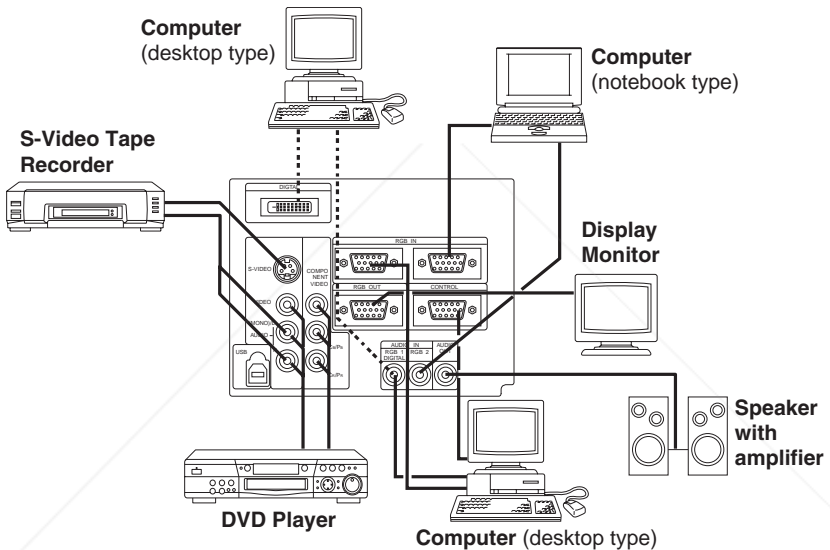


CAUTION • Be careful in handling the power cord according to instructions of the "Product Safety Guide" and this manual.

• Connect the power cord firmly. Avoid using a loose, unsound outlet or failed contact.



Example of System Setup



NOTE • When connecting with a notebook computer, set the proper RGB external image output (setting CRT display or simultaneous display of LCD and CRT). Please read instruction manual of the notebook for more information.

Plug & Play

This projector is VESA DDC 1/2B compatible. Plug & play is possible by connecting to a computer that is VESA DDC (Display Data Channel) compatible.

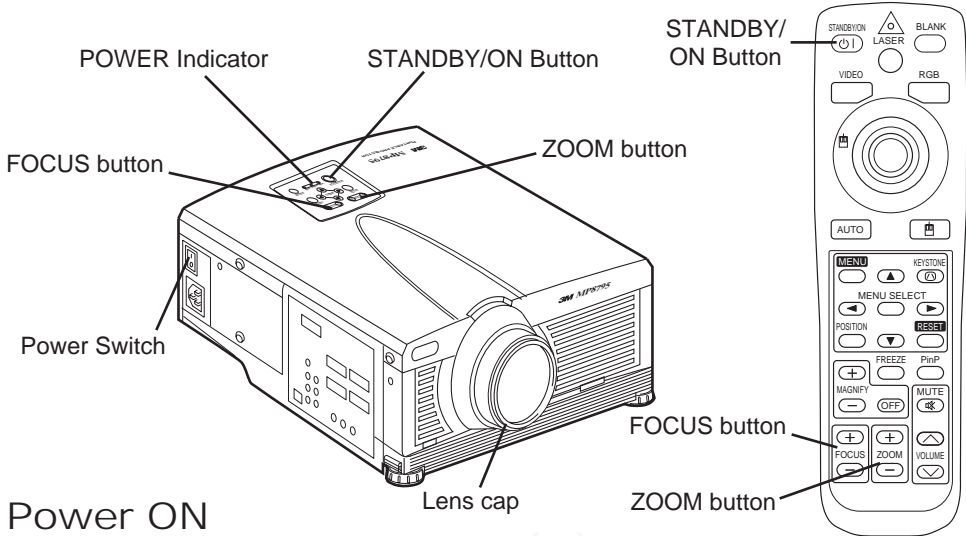
Please use this function by connecting the VGA cable with RGB IN 1 terminal (DDC 1/2B compatible), or by connecting a DVI cable with DVI terminal (DDC 2B compatible).

Plug & play may not operate by other connections.


NOTE • Plug & play is a system configured with peripheral equipment including a computer, display and an operating system.

- This projector is recognized as a plug & play monitor. Use the standard display drivers.
- Plug & play may not operate by the computer to connect. Use the RGB IN 2 terminal if plug & play does not operate correctly.




OPERATIONS



Power ON

1. Check that the power cord is connected correctly.
2. Set the power switch to [|]. The standby mode is selected, and the POWER indicator is turned to orange.
3. Press the STANDBY/ON button  on the control panel or the remote control transmitter. Warm-up begins and the POWER indicator blinks in green.
4. The POWER indicator ceases blinking and turns to green when power is on. Remove the lens cap.
5. Adjust picture size using the ZOOM button.
6. Adjust focus using the FOCUS button .

Power OFF

1. Press the STANDBY/ON button  on the control panel or the remote control transmitter. Then, the message "Power off?" will appear on the screen, and the message will disappear by any operation or no operation for 5 seconds. During this message indication, press the STANDBY/ON  button again. The projector lamp is extinguished and lamp cooling begins. The POWER indicator blinks orange during lamp cooling. Pressing the STANDBY/ON button  has no effect while the POWER indicator is blinking.
2. The system assumes the Standby mode when cooling is complete, and the POWER indicator ceases blinking and changes to orange. Check that the indicator is orange and set the Power switch to [O].

The POWER indicator is extinguished when power is off. Attach the lens cap.

WARNING • Please read this manual, and the "Product Safety Guide" thoroughly before using the equipment. Always ensure that the equipment is used safely.

NOTE • Except in emergencies, follow the above-mentioned procedure for turning power off. Incorrect procedure will reduce the life of the projector lamp and LCD panel.

- To prevent any trouble, turn on/off the projector when the computer or video tape recorder is OFF. Providing a RS-232C cable is connected, turn on the computer before the projector.
- When a projector continues projecting the same image, the image may remain as an afterimage. Please do not project the image same for a long time.

OPERATIONS (continued)

Basic Operation

The basic operations shown in Table 3 is performed from the supplied remote control transmitter or the projector control panel. Items indicated by (*) may be used from the control panel.

Table 3 . Basic Operation

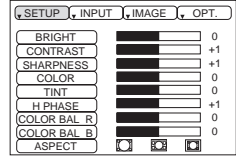
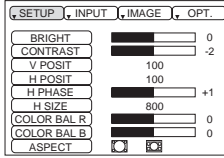
Item	Description
INPUT SELECT	<p>Select Input Signal (*) : Press the INPUT button. RGB IN 1 → RGB IN 2 → DVI → VIDEO → S-VIDEO → COMPONENT VIDEO (→ RGB IN 1)</p> <p>Select RGB Input : Press the RGB button. VIDEO/S-VIDEO/COMPONENT VIDEO → RGB IN 1/RGB IN 2/DVI RGB IN 1 → RGB IN 2 → DVI (→ RGB IN 1)</p> <p>Select Video Input : Press the VIDEO button. RGB IN 1/RGB IN 2/DVI → VIDEO/S-VIDEO/COMPONENT VIDEO VIDEO → S-VIDEO → COMPONENT VIDEO (→ VIDEO)</p> <ul style="list-style-type: none"> The selected signal name is displayed for approximately 3 seconds when the input signal is changed.
POSITION	<p>Set/Clear Position Adjustment Mode : Press the POSITION button. The [] icon is displayed in the POSITION mode.</p> <p>Image Position Adjustment: Press the ←, →, ▲ and ▼ buttons in the POSITION mode.</p> <ul style="list-style-type: none"> Valid only in the MAGNIFY mode with a video signal is input. After approximately 10 seconds of inactivity the [] icon is extinguished and the POSITION mode is cleared automatically. ←, →, ▲ and ▼ buttons may operate as the mouse control button. Refer to page 4.
RESET (*)	<p>Initialize Each Item : Select an item and press the RESET button.</p> <p>Initialize Position Adjustment : Press the RESET button and the POSITION mode. This function is valid only when RGB signal is input.</p> <ul style="list-style-type: none"> Valid except for the VOLUME, LANGUAGE, WHISPER and H PHASE. The RESET button may operate as the mouse control button. Refer to page 4.
MAGNIFY	<p>Set MAGNIFY Mode : Press the MAGNIFY ⊕ button.</p> <p>Move Magnified Area : Run the POSITION in the MAGNIFY mode.</p> <p>Adjust Magnification : Press the MAGNIFY ⊕ / ⊖ button in MAGNIFY mode.</p> <p>Clear MAGNIFY Mode : Press the MAGNIFY ⊖ button.</p> <ul style="list-style-type: none"> The MAGNIFY mode is cleared by running or setting the AUTO, ASPECT, INPUT SELECT or VIDEO, or by changing the input signal.
FREEZE	<p>Set/Clear FREEZE Mode : Press the FREEZE button. The [] icon is displayed, and the image is frozen, in the FREEZE mode.</p> <ul style="list-style-type: none"> The FREEZE mode is cleared by running or setting POSITION, VOLUME, MUTE, Automatic Adjustment, BLANK ON/OFF or MENU ON/OFF, or by changing the input signal. Do not forget to clear frozen static images.

NOTE • Use the remote control transmitter at a distance of approximately 5m from the sensor on the front of the projector, and within a range of 30° left-right. Strong light and obstacles will interfere with operation of the remote control transmitter.

OPERATIONS (continued)

Setup Menu

The following adjustments and settings are possible when SETUP is selected at the top of the menu. Part of the Setup menu differs between RGB input and video input. Select an item with the **▲** and **▼** buttons, and start operation. Use the Single menu to reduce menu size (see Table 3, MENU SELECT).



RGB IN 1
RGB IN 2
DVI

VIDEO
S-VIDEO
COMPONENT VIDEO

Table 4. Setup Menu

Item	Description	RGB IN 1 RGB IN 2	DVI	VIDEO S-VIDEO COMPONENT
BRIGHT	Adjustment: Dark ◀ ↔ Light ▶	✓	✓	✓
CONTRAST	Adjustment: Weak ◀ ↔ Strong ▶	✓	✓	✓
V POSIT	Adjustment: Down ◀ ↔ Up ▶	✓	-	-
H POSIT	Adjustment: Left ◀ ↔ Right ▶	✓	-	-
H PHASE	Adjustment: Left ◀ ↔ Right ▶ • Adjust to eliminate flicker.	✓	-	✓
H SIZE	Adjustment: Small ◀ ↔ Large ▶ • The image may not be displayed correctly if the horizontal size is excessive. In such cases, press the RESET button, and initialize the horizontal size.	✓	-	-
SHARPNESS	Adjustment: Soft ◀ ↔ Clear ▶	-	-	✓
COLOR	Adjustment: Light ◀ ↔ Dark ▶	-	-	✓
TINT	Adjustment: Red ◀ ↔ Green ▶ • Valid only when NTSC or NTSC 4.43 signal is received.	-	-	✓
COLOR BAL R	Adjustment: Light ◀ ↔ Dark ▶	✓	✓	✓
COLOR BAL B	Adjustment: Light ◀ ↔ Dark ▶	✓	✓	✓
	Select Image Aspect Ratio : 4:3[] ◀ ↔ ▶ 16:9[] Select Position of Image: Press the ▼ button while 16:9[] is selected. Center → ▼ Down → ▼ Up (→ Center ▼)	✓	✓	-
ASPECT	Select Image Aspect Ratio: 4:3[] ◀ ↔ ▶ 16:9[] ◀ ↔ ▶ 4:3 small[] Select Position of Image : Press the ▼ button while 16:9[] / 4:3 small[] is selected. Center → ▼ Down → ▼ Up (→ Center ▼) • 4:3 small cannot be selected with the input of 720P or 1080i component. • 4:3 small may not be displayed correctly with some input signals.	-	-	✓

OPERATIONS (continued)

Input Menu

The following functions are available when INPUT is selected on the menu. Select an item with the **▲** and **▼** buttons, and start or stop operation with the **▶** and **◀** buttons. The function indicated (***) are effective on video input mode only, not on RGB input mode, except in the P.IN P. window on RGB input mode.

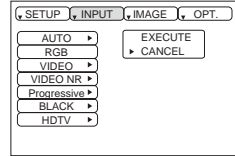


Table 5. Input Menu

Item	Description
AUTO	<p>Automatic Adjustment at RGB Input: Select the EXECUTE with the ▶ button. Horizontal position (H.POSIT), vertical position (V.POSIT), clock phase (H.PHASE), and horizontal size (H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display.</p> <p>Automatic Adjustment at Video Input: Select the EXECUTE with the ▶ button. A signal type appropriate for the input signal is selected automatically when EXECUTE is selected automatically. Valid only when AUTO is set for VIDEO on the menu.</p> <ul style="list-style-type: none"> • This operation requires approximately 10 seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem. • This function is the same as for the AUTO function in Basic operation.
RGB	<p>Displays RGB Input Frequency: Displays the horizontal and vertical sync signal frequencies for RGB input.</p> <ul style="list-style-type: none"> • Valid only at RGB input.
VIDEO (**)	<p>Select Video Signal Type: Select the signal type with the ▲ and ▼ buttons. Select NTSC, PAL, SECAM, NTSC4.43, M-PAL, or N-PAL as appropriate for the input signal. The selection of AUTO enables and executes the function AUTO (Automatic Adjustment at Video Input), except for the N-PAL input.</p> <ul style="list-style-type: none"> • Use this function when the image becomes unstable (eg. the image becomes irregular, or lacks color) at VIDEO/S-VIDEO input. • Automatic Adjustment requires approximately 10 seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem except for the N-PAL input. • For the COMPONENT VIDEO input, this function is not effective and the signal type is distinguished automatically. Refer to the item HDTV of the OPT. Menu for the signal of HDTV.
VIDEO NR (**)	<p>Set/Clear Noise Reduction Mode: Select the TURN ON / TURN OFF with the ▶ / ◀ button. When the TURN ON is selected, the NR mode is active and the noise on screen of the video input will be reduced.</p> <ul style="list-style-type: none"> • Valid except for the HDTV.
Progressive (**)	<p>Select Progressive Mode: Select the mode suitable for the input signal with the ▲ and ▼ buttons. The TV mode and the FILM mode convert the interlaced video signal into the progressive signal. The FILM mode is adaptable 2-3 Pull-Down system to the conversion.</p> <ul style="list-style-type: none"> • Use this function to raise resolution, at the interlaced video input except HDTV signal.
BLACK (***)	<p>Set/Clear Black Enhancement Mode: Select the TURN ON / TURN OFF with the ▶ / ◀ button. When the TURN ON is selected, the black enhancement mode is active and the contrast ratio of the screen for the video input will be raised by making black level darker.</p>
HDTV (***)	<p>Select HDTV mode: Select the 1035i mode or 1080i mode suitable for the input signal with the ▲ / ▼ button.</p>

OPERATIONS (continued)

Image Menu

The following adjustments and settings are available when IMAGE is selected on the menu. Select an item with the \blacktriangle and \blacktriangledown buttons, and start or stop operation with the \blacktriangleright and \blacktriangleleft buttons.

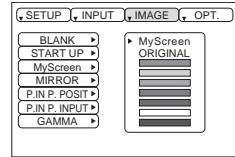


Table 6. Image Menu

Item	Description
BLANK	<p>Select Blank Screen: Select the screen in case of the BLANK mode with the \blacktriangle / \blacktriangledown button. The selected one (MyScreen, ORIGINAL or one colors) is displayed when the BLANK mode is ON.</p> <p>MyScreen is a mode that the customer-customized screen is displayed. This is the blue screen at the factory setting. Refer to the description of MyScreen below.</p> <p>ORIGINAL is a mode that the factory fixed screen is displayed.</p> <ul style="list-style-type: none"> • When MyScreen or ORIGINAL is selected, the screen is going to the black after several minutes.
START UP	<p>Select Start Up Screen: Select the screen in case of no signal input with the \blacktriangle / \blacktriangledown button. The selected one (MyScreen, ORIGINAL or TURN OFF) is displayed when no signal is input</p> <p>MyScreen is a mode that the customer-customized screen is displayed. This is the blue screen at the factory setting. Refer to the description of MyScreen below.</p> <p>ORIGINAL is a mode that the factory fixed screen is displayed.</p> <p>TURN OFF displays the blue screen.</p> <ul style="list-style-type: none"> • When MyScreen or ORIGINAL is selected, the screen is going to the black after several minutes.
MyScreen	<p>Set MyScreen Mode: Select the EXECUTE with the \blacktriangle button to display the MyScreen menu and set the MyScreen mode for BLANK and START UP functions. ESC clears and closes the menu box.</p> <p>NORM. is default of the MyScreen menu.</p> <p>FREEZE freezes the image and displays the frame to capture. Press the \blacktriangledown button after freeze to go to the MyScreen Capture Position mode. <u>In the MyScreen Capture Position mode</u>, the buttons \blacktriangledown, \blacktriangle, \blacktriangleleft and \blacktriangleright allow to move the frame to capture. After adjusting the position, press the KEYSTONE button to go to the MyScreen Display Size mode. To cancel freezing and return to the NORM. of the MyScreen menu, press the RESET button. <u>In the MyScreen Display Size mode</u>, select the magnification x1, x2 or FULL with the button \blacktriangleleft / \blacktriangleright. After selecting the magnification, press the KEYSTONE button to go to the CAPT. mode and start capturing. To return to the MyScreen Capture Position mode, press the RESET button. CAPT. executes a capturing the image. It requires about 20 seconds. After capturing, the captured image will be displayed for about 10 seconds.</p>
MIRROR	<p>Select Mirror Status: Select mirror status with \blacktriangle / \blacktriangledown button.</p>
P. IN P. POSIT	<p>Select Position of P. in P. Display : Press the \blacktriangle / \blacktriangledown button.</p> <p>\blacksquare \blacktriangle \leftrightarrow \blacktriangledown \blacksquare \blacktriangle \leftrightarrow \blacktriangledown \blacksquare \blacktriangle \leftrightarrow \blacktriangledown \blacksquare</p> <ul style="list-style-type: none"> • P.IN P. function superimposes a video image over RGB or DVI signals.
P. IN P. INPUT	<p>Select signal of P. in P. Display : Press the \blacktriangle / \blacktriangledown button.</p> <p>VIDEO \blacktriangle \leftrightarrow \blacktriangledown S-VIDEO \blacktriangle \leftrightarrow \blacktriangledown COMPONENT</p>
GAMMA	<p>Select Gamma Mode: Select the gamma mode with the \blacktriangle / \blacktriangledown button.</p> <p>NORMAL \blacktriangle \leftrightarrow \blacktriangledown CINEMA \blacktriangle \leftrightarrow \blacktriangledown DYNAMIC</p>

OPERATIONS (continued)

Options Menu

The following adjustments and settings are available when OPT. is selected on the menu. Select an item with the **▲** and **▼** buttons, and start operation.

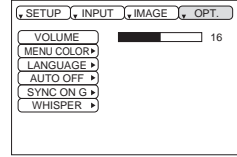


Table 7. Options Menu

Item	Description
VOLUME	Volume Adjustment: Reduce VOLUME ◀ ↔ Increase VOLUME ▶
MENU COLOR	Select Menu Background Color: Select with the ▶ and ◀ buttons.
LANGUAGE	Operation Start/Stop: Press the ▶ / ◀ button. Select Menu Display Language: Select with the ▲ and ▼ buttons.
AUTO OFF	Operation Start/Stop: Press the ▶ / ◀ button. Set AUTO OFF: Set 1~99 minutes with the ▲ and ▼ buttons. The system automatically enters the standby mode when a signal is not received for the set time. Clear AUTO OFF: Select STOP (0 min.) with the ▼ button. When STOP is selected the system does not enter the standby mode even if no signal is received.
SYNC ON G	Operation Start/Stop: Press the ▶ / ◀ button. SYNC ON G Valid: Select TURN ON with the ▲ button. SYNC ON G Invalid: Select TURN OFF with the ▼ button. • May not be displayed correctly with some input signals when SYNC ON G is valid. In such cases, remove the signal connector so that no signal is received, set SYNC ON G to invalid, and reconnect the signal.
WHISPER	Set / Crear WHISPER Mode: Press the ▲ / ▼ button. When the WHISPER is selected, the WHISPER mode is active. In the WHISPER mode, acoustic noise level from the unit is reduced, and brightness level on screen is a little lower.

OPERATIONS (continued)

No Signal Menu

The same adjustments and settings are available with the Image and Options menus when the MENU button is pressed during display of the “NO INPUT IS DETECTED ON ***” or “SYNC IS OUT OF RANGE ON ***” message while no signal is received.

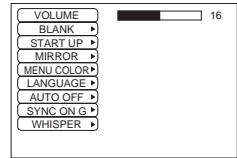


Table 8. No Signal Menu

Item	Description
VOLUME	<p>Volume Adjustment: Reduce VOLUME ◀ ↔ Increase VOLUME ▶</p> <ul style="list-style-type: none"> When this function is used, audio input is automatically switched to video. The audio input can be switched by moving the DISK PAD left and right during the display of the volume adjustment bar. The volume adjustment bar is displayed by pressing VOLUME ◀ or VOLUME ▶ button.
BLANK	<p>Select Blank Screen: Select the screen in case of the BLANK mode with the ▲ / ▼ button. The selected one (MyScreen, ORIGINAL or one colors) is displayed when the BLANK mode is ON.</p> <p>MyScreen is a mode that the customer-customized screen is displayed. This is the blue screen at the factory setting. Refer to the description of MyScreen below.</p> <p>ORIGINAL is a mode that the factory fixed screen is displayed.</p> <ul style="list-style-type: none"> When MyScreen or ORIGINAL is selected, the screen is going to the black after several minutes.
START UP	<p>Select Start Up Screen: Select the screen in case of no signal input with the ▲ / ▼ button. The selected one (MyScreen, ORIGINAL or TURN OFF) is displayed when no signal is input</p> <p>MyScreen is a mode that the customer-customized screen is displayed. This is the blue screen at the factory setting. Refer to the description of MyScreen below.</p> <p>ORIGINAL is a mode that the factory fixed screen is displayed.</p> <p>TURN OFF displays the blue screen.</p> <ul style="list-style-type: none"> When MyScreen or ORIGINAL is selected, the screen is going to the black after several minutes.
MIRROR	<p>Operation Start/Stop: Press the ▶ / ◀ button.</p> <p>Select Mirror Status: Select the mirror status with the ▲ and ▼ buttons.</p>
MENU COLOR	<p>Select Menu Background Color: Select the color with the ▶ and ◀ buttons.</p>
LANGUAGE	<p>Operation Start/Stop: Press the ▶ / ◀ button.</p> <p>Select Menu Display Language: Select the language with the ▲ and ▼ buttons.</p>
AUTO OFF	<p>Operation start/stop: Press the ▶ / ◀ button.</p> <p>Set AUTO OFF: Set 1~99 minutes with the ▲ and ▼ buttons. The system automatically enters the standby mode when a signal is not received for the set time.</p> <p>Clear AUTO OFF: Select the STOP (0 min.) with the ▼ button. When the STOP is selected the system does not enter the standby mode even if no signal is received.</p>
SYNC ON G	<p>Operation Start/Stop: Press the ▶ / ◀ button.</p> <p>SYNC ON G Valid: Select the TURN ON with the ▲ button.</p> <p>SYNC ON G Invalid: Select the TURN OFF with the ▼ button.</p> <ul style="list-style-type: none"> May not be displayed correctly with some input signals when the SYNC ON G is valid. In such cases, remove the signal connector so that no signal is received, set the SYNC ON G to invalid, and reconnect the signal.
WHISPER	<p>Set / Crear WHISPER Mode: Press the ▲ / ▼ button. When the WHISPER is selected, the WHISPER mode is active. In the WHISPER mode, acoustic noise level from the unit is reduced, and brightness level on screen is a little lower.</p>

MAINTENANCE

Lamp



**HIGH VOLTAGE
HIGH TEMPERATURE
HIGH PRESSURE**

Contact your dealer before replacing the lamp.

For the optional lamp, see the item “ACCESSORIES” of P.24.

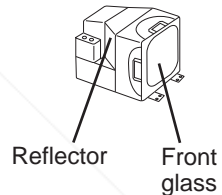
Before replacing the lamp, switch power OFF, remove the power cord from the power outlet, and wait approximately 45 minutes until the lamp has cooled. The lamp may explode if handled at high temperatures.



WARNING • For disposal of used lamp, treat according to the instruction of community authorities.

- Since the lamp is made of glass, do not apply shock to it and do not scratch it.
- Also, do not use old lamp. This could also cause explosion of the lamp.
- Premature lamp failure MAY be caused by an electronic component in the projector and not necessarily the lamp. If unsure contact your local service center.
- If it is probable that the lamp has exploded (explosive sound is heard), disconnect the power plug from the power outlet and ask your dealer to replace lamp. The lamp is covered by front glass, but, in rare cases, the reflector and the inside of the projector may be damaged by scattered broken pieces of glass, and broken pieces could cause injury when being handled.
- Do not use the projector with the lamp cover removed.

Lamp



Lamp Life

Projector lamps have a finite life. The image will become darker, and hues will become weaker, after a lamp has been used for a long period of time.

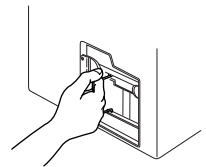
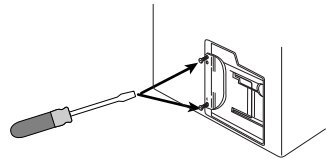
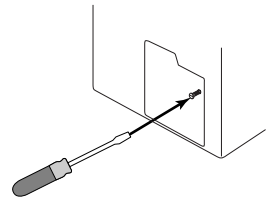
Replace the lamp if the LAMP indicator is red, or the CHANGE THE LAMP message appears when the projector is switched ON. See Table 9 of P.20 and Table 10 of P.21.

NOTE • The LAMP indicator is also red when the lamp unit reaches high temperature. Before replacing the lamp, switch power OFF, wait approximately 20 minutes, and switch power ON again. If the LAMP indicator is still red, replace the lamp.

MAINTENANCE (continued)

Replacing the Lamp


1. Switch the projector OFF, remove the power cord from the power outlet, and wait at least 45 minutes for the unit to cool.
2. Prepare a new lamp.
3. Check that the projector has cooled sufficiently, and gently turn it upside down.
4. Loosen the screw as shown in the diagram, and remove the lamp cover.
5. Loosen the two screws, and gently remove the lamp while holding the grips. Touching the inside of the lamp case may result in uneven coloring.
6. Install the new lamp and tighten the two screws firmly. Also steadily push the opposite side of the screwed lamp into the unit.
7. Replace the lamp cover in position and tighten the screw firmly.
8. Gently turn the projector right-side up.



CAUTION • Ensure that screws are tightened properly. Screws not tightened fully may result in injury or accidents.
• Do not use the projector with the lamp cover removed.

Resetting the Lamp Timer

Reset the lamp timer after replacing the lamp. When the lamp has been replaced after the LAMP indicator is red, or the CHANGE THE LAMP message is displayed, complete the following operation within ten minutes of switching power ON. The power will be turned off automatically in over 10 minutes.

1. Switch power ON, and press the RESET button, for approximately three seconds. The 'LAMP xxxx hr' message will appear on the lamp timer on the bottom of the screen.
2. Press the MENU button on the remote control transmitter, or the RESET button on the control panel, while the lamp timer is displayed. The 'LAMP xxxx □ → 0 ■ CANCEL' message will then appear.
3. Press the  and select 0, and wait until the timer display is cleared.

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NOTE • Do not reset the lamp timer without replacing the lamp. Reset the lamp timer always when replacing the lamp. The message functions will not operate properly if the lamp timer is not reset correctly.

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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

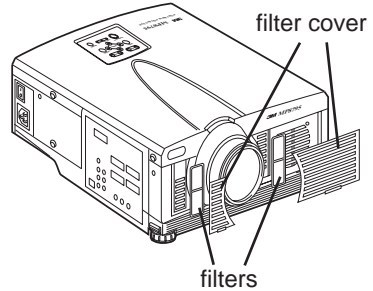
MAINTENANCE (continued)

Air Filters

Cleaning Air Filters

This projector uses 2 air filters. These air filters should be cleaned as described below at intervals of approximately 100 hours.

1. Switch the projector power supply OFF, and remove the power cord from the power outlet.
2. Remove the filter cover and the air filter.
3. Clean the air filter with a vacuum cleaner.
4. Set the air filter and the filter cover.



Replacing the Air Filter

Replace the air filter if contamination cannot be removed, or if it is damaged.

1. Switch the projector power supply OFF, and remove the power cord from the power outlet.
2. Remove the filter cover and the old filter.
3. Set the new filter and the filter cover.



CAUTION • Switch power OFF and remove the power cord from the power outlet before beginning maintenance work. Please read the “Product Safety Guide” thoroughly to ensure that maintenance is performed correctly.

• Replace the air filter if contamination cannot be removed, or if it is damaged. Contact your dealer in such case. For the optional air filter, see the item “ACCESSORIES” of P.24.

• Do not use the equipment with the air filter removed.

• When the air filter is clogged with dust etc. the power supply is switched OFF automatically to prevent the temperature rising inside the projector.

Other Maintenance

Maintenance Inside the Equipment

For safety reasons, ensure that the equipment is cleaned and checked by the dealer once every two years. Maintaining the equipment by yourself is dangerous.

Cleaning the Lens

Gently wipe the lens with lens cleaning paper. Do not touch the lens with your hands.

Cleaning the Cabinet and Remote control transmitter

Gently wipe with a soft cloth. If dirt and stains etc. are not easily removed, use a soft cloth dampened with water, or water and a neutral detergent, and wipe dry with a soft, dry cloth.



CAUTION • Switch power OFF and remove the power cord from the power outlet before beginning maintenance work. Please read the “Product Safety Guide” thoroughly to ensure that maintenance is performed correctly.

• Do not use detergents or chemicals other than those noted above (e.g. benzene or thinners).

• Do not use cleaning sprays.

• Do not rub with hard materials, or tap the equipment.

TROUBLESHOOTING

Service Information

For product information, product assistance, service information, or to order accessories, please call:

In U.S. or Canada : 1-800-328-1371

In other locations, contact your local 3M sales office.

OSD Message

The messages as described below may appear on the screen at power ON. Take the appropriate measures when such messages appear.

Table 9. OSD Message

Message	Contents
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. (*1)	The usage time of lamp will be reaching 2000 hr shortly. (*2) It is recommended to replace the lamp soon. Prepare a new lamp as a replacement.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER ** hr. (*1)	The usage time of lamp will be reaching 2000 hr shortly. It is recommended to replace the lamp within ** hours. (*2) It might be happened that the lamp is cut off before ** hr by any chance. Power will be switched OFF automatically in ** hours. Replace the lamp as shown in P.17~18 "Lamp". Always reset the lamp timer after replacing the lamp.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER 0 hr.	The usage time of lamp is about to reach. Power will be switched OFF in a few minutes. (*2) Switch power OFF immediately and replace the lamp as shown in P.17 ~18 "Lamp". Always reset the lamp timer after replacing the lamp.
NO INPUT IS DETECTED ON ***	No input signal found. Check signal input connections and signal sources.
SYNC IS OUT OF RANGE ON ***	The horizontal or vertical frequency of the input signal is not within the specified range. Check the specifications of the equipment and the signal source.
CHECK THE AIR FLOW FixYourDLP.com Sponsored by 3M	The internal temperature has risen. Switch power OFF, and wait 20 minutes until the equipment cools. Check the following and Switch power ON again. * Are the ventilation openings blocked. * Is the air filter dirty. * Is the ambient temperature in excess of 35°C.

NOTE (*1) This message is cleared automatically after approximately three minutes, and appears every time power is switched ON.

(*2) The unit has a function to turn the power off which will be active when the usage time reaches 2000 hr. However the life of lamp might be much different among lamps, so that it might be happened that a lamp is cut off before the function is active.

TROUBLESHOOTING (continued)

Indicators Message

The POWER indicator, LAMP indicator, and TEMP indicator are lit and blank as follows. Take the appropriate measures.

Table 10. Indicators Message

POWER indicator	LAMP indicator	TEMP indicator	Contents
Lights orange	Turns off	Turns off	The Standby mode has been set.
Blinks green	Turns off	Turns off	Warming up. Please wait.
Lights green	Turns off	Turns off	ON. Normal operation possible.
Blinks orange	Turns off	Turns off	Cooling. Please wait.
Lights red	Lights red	Turns off	Lamp is not lit. The interior of the equipment may be too hot. Switch power OFF, wait 20 minutes until the equipment cools, and check whether the ventilation openings are blocked, whether the air filter is dirty, or whether the ambient temperature exceeds 35 °C. And switch power ON again. Replace the lamp if the same problem occurs.
Lights red	Blinks red	Turns off	Lamp or lamp cover is not found, or hasn't been fitted in correctly. Switch power OFF, and wait for 45 minutes until the equipment cools. Check fitting of the lamp and lamp cover, and switch power ON again. Contact your dealer if the same problem occurs again.
Lights red	Turns off	Blinks red	The cooling fan is not operating. Switch power OFF, and wait for 20 minutes until the equipment cools. Check for foreign matters in the fan, and switch power ON again. Contact your dealer if the same problem occurs again.
Lights red	Turns off	Lights red	The interior of the equipment is too hot. Switch power OFF, and wait for 20 minutes until the equipment cools. Check whether the ventilation openings are blocked, whether the air filter is dirty, or whether the ambient temperature exceeds 35 °C. Then switch power ON again. Contact your dealer if the same problem occurs again.




NOTE When the internal temperature becomes excessive power is switched OFF automatically for safety reasons, and the indicator is extinguished. Set the power switch to [O] and wait for 20 minutes until the equipment has cooled sufficiently.

TROUBLESHOOTING (continued)

Symptom

Before requesting repair, check in accordance with the following chart. If the situation cannot be corrected, then contact your dealer.

Table 11. Symptom

Symptom	Possible cause	Remedy	Page
The power is not turned on.	The main power switch is not turned on.	Turn on the main power switch.	8,9
	The power cord is disconnected.	Plug the power cord into an AC power outlet.	
No video or audio.	The input is not correctly set.	Use the projector or remote control transmitter to set.	10
	No signal input.	Connect correctly.	7,8
Video is present but no audio.	The projector is not correctly connected.	Connect correctly.	7,8
	The volume is set to minimum.	Press VOLUME  on the remote control or display the menu screen and adjust the volume.	11,15
	Mute is turned on.	Press the MUTE  button.	11
Audio is present but no video.	The projector is not correctly connected.	Connect correctly.	7,8
	The brightness adjustment knob is rotated fully clockwise.	Select BRIGHT with the MENU button and the press the  button.	12
	The lens cap is still attached.	Remove the lens cap.	9
Colors are pale and color matching is poor.	Color density and color matching are not correctly adjusted.	Adjust the video.	12
Images are dark.	Brightness and contrast are not correctly adjusted.	Adjust the video.	12
	The lamp is nearing the end of its service life.	Replace with a new lamp.	17
	WHISPER mode is set.	Clear WHISPER mode.	15
Video is blurred.	Focus or H PHASE is out of adjustment.	Adjust the focus or H PHASE.	9,12

SPECIFICATIONS

Table 12. Specifications

Item		Specification	
Product name		Liquid crystal projector	
Liquid crystal panel	Panel size	3.3 cm (1.3 type)	
	Drive system	TFT active matrix	
	Pixels	786,432 pixels (1024 horizontal x 768 vertical)	
Lens		Zoom lens F=1.7 ~ 2.3 f=49.0 ~ 64.0 mm	
Lamp		275 W UHB	
Speaker		1.2 W + 1.2W (Stereo)	
Power supply		AC100 ~ 120V, 4.7A / AC220 ~ 240V, 2.0A	
Power consumption		440W	
Temperature range		0 ~ 35°C (Operating)	
Size		289 (W) x 144 (H) x 350 (D) mm	
Weight (mass)		6.5 kg	
RGB signal input	RGB IN	1	Video: Analog 0.7Vp-p, 75Ω terminator (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack
		2	
	DVI		TMDS, DC: 150~1200 mV / AC: 1.56 Vp-p TTL Level (Positive/Negative)
	AUDIO IN	RGB1	200mVrms, 50 kΩ (max. 3.0Vp-p) Stereo mini jack
DVI			
RGB2			
Video signal input	VIDEO		1.0Vp-p, 75Ω terminator RCA jack
	S-VIDEO		Brightness signal: 1.0Vp-p, 75Ω terminator Color signal: 0.3Vp-p (burst signal), 75Ω terminator Mini DIN 4-pin jack
	COMPONENT VIDEO	Y	1.0 Vp-p, 75 Ω Terminator (Positive)
		CB/CR	0.7 Vp-p, 75 Ω Terminator (Positive)
		PB/PR	0.7 Vp-p, 75 Ω Terminator (Positive)
	AUDIO	L/MONO	200mVrms, 50 kΩ (max. 3.0Vp-p) RCA jack
R			
Signal output	RGB OUT		Video: Analog 0.7Vp-p, 75Ω output impedance (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack
	AUDIO OUT		200mVrms, output impedance 1 kΩ (max. 3.0Vp-p) Stereo mini jack
Control functions	CONTROL		D-sub 15-pin shrink plug
	USB		USB jack (B type)

NOTE • This specifications are subject to change without notice.

ACCESSORIES

Accessories.....	Part Number
UHB Lamp, 275W	78-6969-9548-5
Air Filter	78-8118-8967-0
Power Cord (US).....	78-8118-8102-4
Power Cord (UK).....	78-8118-8101-6
Power Cord (Europe)	78-8118-8103-2
VGA Cable	78-8118-8708-8
RCA Component Cable	78-8118-8843-3
RCA Video/Audio Cable.....	78-8118-3234-0
S-Video Cable	78-8118-3238-1
Stereo Mini-Cable	78-8118-8846-6
Mouse Cable (PS/2)	78-8118-8105-7
Mouse Cable (ADB)	78-8118-8106-5
Mouse Cable (Serial)	78-8118-8107-3
Remote Control Transmitter	78-8118-8966-2

Not Included with Basic Packet.....	Part Number
Ceiling mount	78-6969-8924-9
Adjustable Height Suspension	78-6969-8312-7
Shipping Case	78-6969-8925-6
Carry Case	78-6969-8926-4
Mouse Cable (USB)	78-8118-8186-7
RS-232C Control Cable	78-8118-3312-4
Mac Adapter	78-8118-3308-2

How to Order

Please order these parts through your dealer, or contact 3M Customer Service at the following number :

In U.S. or Canada : **1-800-328-1371**

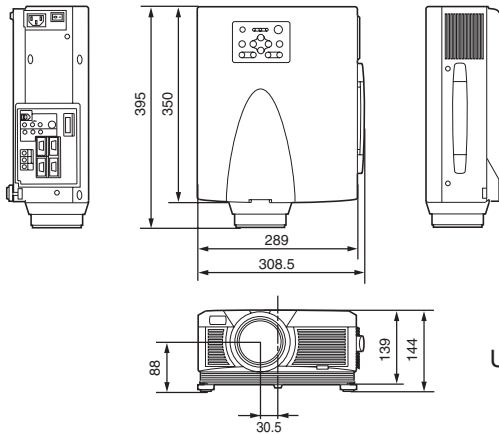
In other locations, contact your local 3M sales office.



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TECHNICAL

Dimension Diagram



Unit : mm

Signal Connector Pin Assignment

1. D-sub 15-pin Shrink Connector (RGB IN 1/RGB IN 2/RGB OUT)

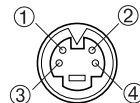
Pin No	Signal	Pin No	Signal	Pin No	Signal
1	Video input Red	9	-	15	RGB IN 1: SCL(DDC)
2	Video input Green	10	Ground		RGB IN 2: -
3	Video input Blue	11	-		RGB OUT: -
4	-	12	RGB IN 1: SDA(DDC)		
5	Ground		RGB IN 2: -		
6	Ground Red		RGB OUT: -		
7	Ground Green	13	H. sync./ Composite sync.		
8	Ground Blue	14	Vertical sync		

2. Digital Receptacle Connector (DVI)

Pin No	Signal	Pin No	Signal	Pin No	Signal
1	T.M.D.S. Data 2 -	11	T.M.D.S. Data 1 / 3 Shield	21	-
2	T.M.D.S. Data 2 +	12	-	22	T.M.D.S. Clock Shield
3	T.M.D.S. Data 2 / 4 Shield	13	-	23	T.M.D.S. Clock +
4	-	14	+5V Power	24	T.M.D.S. Clock -
5	-	15	Ground (+5V, Analog H/V Sync.)		
6	DDC Clock	16	Hot-Plug Sense		
7	DDC Data	17	T.M.D.S. Data 0 -		
8	Analog V. Sync.	18	T.M.D.S. Data 0 +		
9	T.M.D.S. Data 1 -	19	T.M.D.S. Data 0 / 5 Shield		
10	T.M.D.S. Data 1 +	20	-		

3. Mini Din 4-pin Connector (S-VIDEO)

Pin No	Signal
1	Color:0.286Vp-p (NTSC, burst signal),75Ω terminator 0.3Vp-p (PAL/SECAM, burst signal),75Ω terminator
2	Brightness:1.0Vp-p, 75Ω terminator
3	Ground
4	Ground



TECHNICAL (continued)

Example of computer signal

Resolution H × V	fH (kHz)	fV (Hz)	Rating	Signal mode	Display mode
720 × 400	37.9	85.0	VESA	TEXT	Zoom in
640 × 480	31.5	59.9	VESA	VGA (60Hz)	Zoom in
640 × 480	35.0	66.7		Mac13"mode	Zoom in
640 × 480	37.9	72.8	VESA	VGA (72Hz)	Zoom in
640 × 480	37.5	75.0	VESA	VGA (75Hz)	Zoom in
640 × 480	43.3	85.0	VESA	VGA (85Hz)	Zoom in
800 × 600	35.2	56.3	VESA	SVGA (56Hz)	Zoom in
800 × 600	37.9	60.3	VESA	SVGA (60Hz)	Zoom in
800 × 600	48.1	72.2	VESA	SVGA (72Hz)	Zoom in
800 × 600	46.9	75.0	VESA	SVGA (75Hz)	Zoom in
800 × 600	53.7	85.1	VESA	SVGA (85Hz)	Zoom in
832 × 624	49.7	74.5		Mac16"mode	Zoom in
1024 × 768	48.4	60.0	VESA	XGA (60Hz)	
1024 × 768	56.5	70.1	VESA	XGA (70Hz)	
1024 × 768	60.0	75.0	VESA	XGA (75Hz)	
1024 × 768	68.7	85.0	VESA	XGA (85Hz)	
1152 × 864	67.5	75.0	VESA	SXGA (75Hz)	Zoom out
1280 × 960	60.0	60.0	VESA	SXGA (60Hz)	Zoom out
1280 × 1024	64.0	60.0	VESA	SXGA (60Hz)	Zoom out
1280 × 1024	80.0	75.0	VESA	SXGA (75Hz)	Zoom out
1600 × 1200	75.0	60.0	VESA	VXGA (60Hz)	Zoom out

NOTE • Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.

- Be sure to check jack type, signal level, timing and resolution before connecting this projector to a computer.

- Depending on the input signal, full-size display may not be possible in some cases. Refer to the number of display pixels above.

- The image may not be displayed correctly when the input sync. signal is "Composite Sync." or Sync. on G.

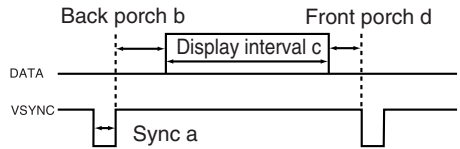
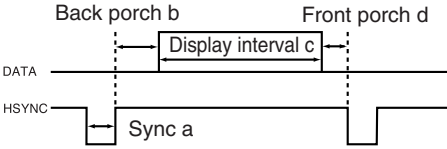
- The image might be something wrong with computer by computer on the DVI mode. In this case, it is recommended to reduce the resolution and / or refresh rate.

TECHNICAL (continued)

Instial set signals

The following signals are used for the instial settings.

The signal timing of some computer models may be different. In such case, refer to adjust the V.POSIT and H.POSIT of the menu.



Computer / Signal	Horizontal signal timing (µs)			
	a	b	c	d
TEXT	2.0	3.0	20.3	1.0
VGA (60Hz)	3.8	1.9	25.4	0.6
Mac 13"mode	2.1	3.2	21.2	2.1
VGA (72Hz)	1.3	3.8	20.3	1.0
VGA (75Hz)	2.0	3.8	20.3	0.5
VGA (85Hz)	1.6	2.2	17.8	1.6
SVGA (56Hz)	2.0	3.6	22.2	0.7
SVGA (60Hz)	3.2	2.2	20.0	1.0
SVGA (72Hz)	2.4	1.3	16.0	1.1
SVGA (75Hz)	1.6	3.2	16.2	0.3
SVGA (85Hz)	1.1	2.7	14.2	0.6
Mac 16"mode	1.1	3.9	14.5	0.6
XGA (60Hz)	2.1	2.5	15.8	0.4
XGA (70Hz)	1.8	1.9	13.7	0.3
XGA (75Hz)	1.2	2.2	13.0	0.2
XGA (85Hz)	1.0	2.2	10.8	0.5
1152x864 (75Hz)	1.2	2.4	10.7	0.6
1280x960 (60Hz)	1.0	2.9	11.9	0.9
1280x1024 (60Hz)	1.0	2.3	11.9	0.4
1280x1024 (75Hz)	1.1	1.8	9.5	0.1
1600x1200 (60Hz)	1.2	1.9	9.9	0.4

Computer / Signal	Vertical signal timing (lines)			
	a	b	c	d
TEXT	3	42	400	1
VGA (60Hz)	2	33	480	10
Mac 13"mode	3	39	480	3
VGA (72Hz)	3	28	480	9
VGA (75Hz)	3	16	480	1
VGA (85Hz)	3	25	480	1
SVGA (56Hz)	2	22	600	1
SVGA (60Hz)	4	23	600	1
SVGA (72Hz)	6	23	600	37
SVGA (75Hz)	3	21	600	1
SVGA (85Hz)	3	27	600	1
Mac 16"mode	3	39	624	1
XGA (60Hz)	6	29	768	3
XGA (70Hz)	6	29	768	3
XGA (75Hz)	3	28	768	1
XGA (85Hz)	3	36	768	1
1152x864 (75Hz)	3	32	864	1
1280x960 (60Hz)	3	36	960	1
1280x1024 (60Hz)	3	38	1024	1
1280x1024 (75Hz)	3	38	1024	1
1600x1200 (60Hz)	3	46	1200	1

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TECHNICAL

TECHNICAL (continued)

Connection to the Mouse Control

1. PS/2, ADB or Serial Mouse

- (1) Turn off the projector and computer, and connect the two units with the appropriate cable. For PS/2 mouse control (for IBM and compatible), use the enclosed mouse cable. For others, consult your dealer.
- (2) Disconnect the USB cable from the projector if it is connected. Then turn on the projector.
- (3) Turn on the computer.
- (4) Start the mouse function. If the mouse has not been started, reboot the computer (soft reboot or reboot buttons). Refer to the descriptions of “DISC PAD” and “MOUSE/RIGHT button” of page 4.

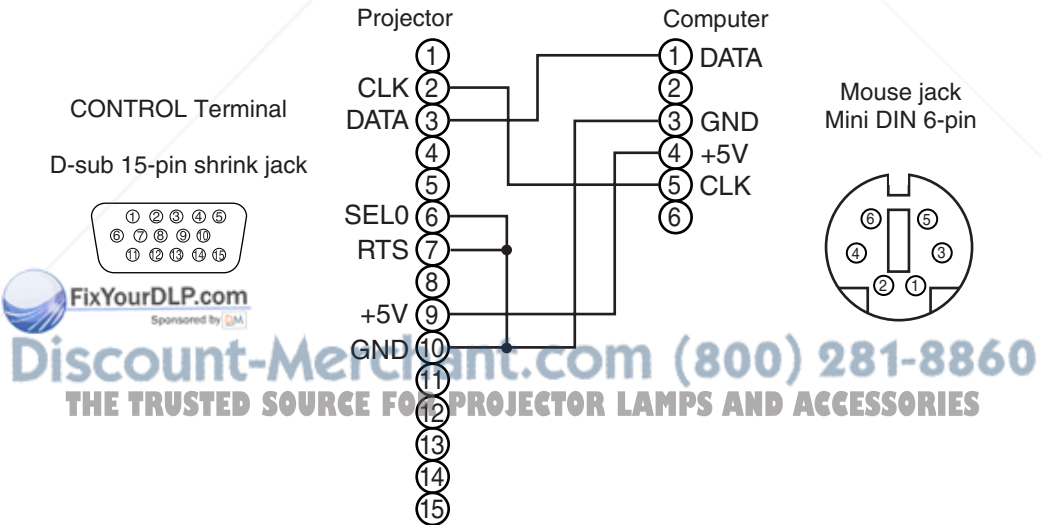
2. USB Mouse

- (1) Connect the projector and computer with a suitable commercially available USB cable. Consult your dealer to get the cable, if you need.
- (2) Start the mouse function. Refer to the descriptions of “DISC PAD” and “MOUSE/RIGHT button” of page 4.

NOTE • Before connecting, read the instruction manuals of the devices to be connected.
 • In the case of notebook type computers with an internal pointing device, the mouse control function will not work unless the internal pointing device is disabled. In such case, disable the internal pointing device and change the BIOS setting to select an external mouse before the operations described in (1) to (4) above.

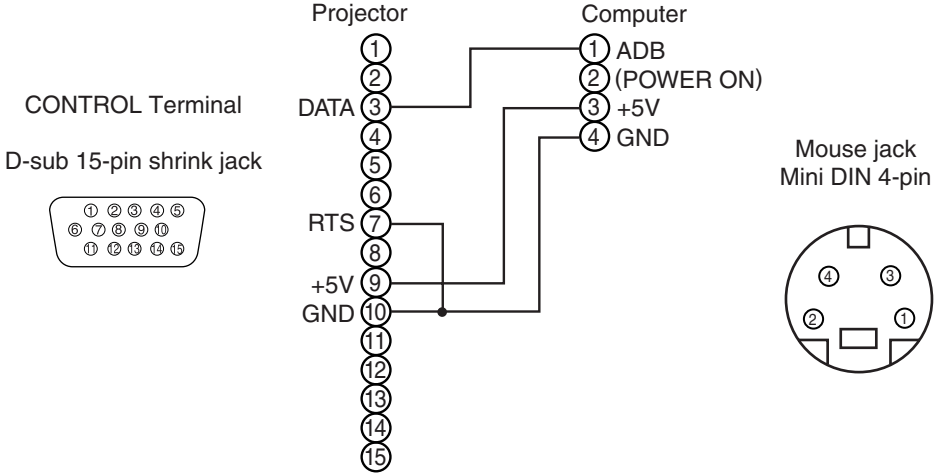
Also, some computers may not have a utility program to operate a mouse. Refer to the computer hardware manual for detail.

PS/2 Mouse

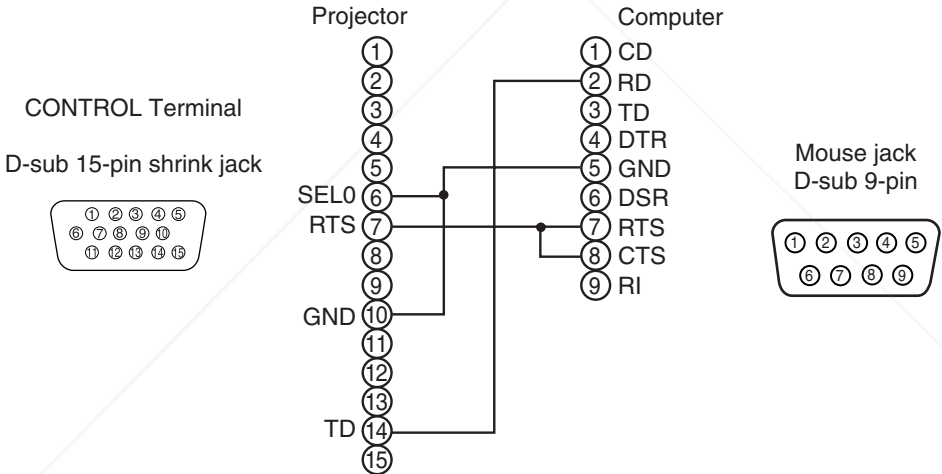


TECHNICAL (continued)

ADB Mouse



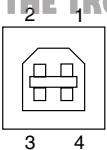
Serial Mouse



USB Mouse

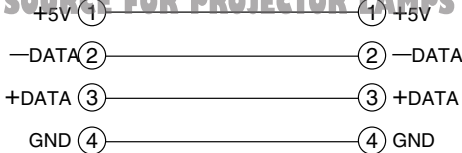
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USB jack
(B type)



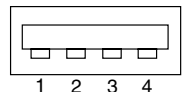
Projector

Computer



USB cable

USB jack
(A type)

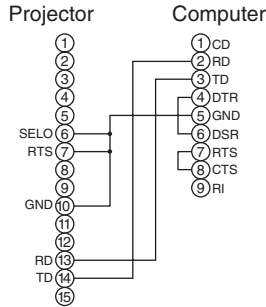
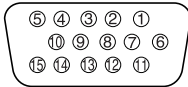


TECHNICAL (continued)

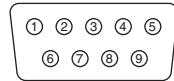
RS-232C communication

- (1) Turn off the projector and computer power supplies and connect with the RS-232C cable.
- (2) Turn on the computer power supply and after the computer has started up, turn on the projector power supply.

Control jack
D-sub 15-pin shrink jack



RS-232C jack
D-sub 9-pin



Communications setting

19200bps, 8N1

1 Protocol

Consist of header (7 bytes) + command data (6 bytes).

2 Header

BE + EF + 03 + 06 + 00 + CRC_low + CRC_high
 CRC_low : Lower byte of CRC flag for command data.
 CRC_high : Upper byte of CRC flag for command data.

3 Command data

Command data chart

byte_0	byte_1	byte_2	byte_3	byte_4	byte_5
Action		Type		Setting code	
low	high	low	high	low	high

Action (byte_0 - 1)

Action	Classification	Content
1	SET	Change setting to desired value.
2	GET	Read projector internal setup value.
4	INCREMENT	Increment setup value by 1.
5	DECREMENT	Decrement setup value by 1.
6	EXECUTE	Run a command.

TECHNICAL (continued)

Requesting projector status (Get command)

- (1) Send the request code Header + Command data ('02H'+ '00H' + type (2 bytes) + '00H'+ '00H') from the computer to the projector.
- (2) The projector returns the response code '1DH'+ data (2 bytes) to the computer.

Changing the projector settings (Set command)

- (1) Send the setting code Header + Command data ('01H'+ '00H' + type (2 bytes) + setting code (2 bytes)) from the computer to the projector.
- (2) The projector changes the setting based on the above setting code.
- (3) The projector returns the response code '06H' to the computer.

Using the projector default settings (Reset Command)

- (1) The computer sends the default setting code Header + Command data ('06H'+ '00H' + type (2 bytes) + '00H'+ '00H') to the projector.
- (2) The projector changes the specified setting to the default value.
- (3) The projector returns the response code '06H' to the computer.

Increasing the projector setting value (Increment command)

- (1) The computer sends the increment code Header + Command data ('04H'+ '00H' + type (2 bytes) + '00H'+ '00H') to the projector.
- (2) The projector increases the setting value on the above setting code.
- (3) The projector returns the response code '06H' to the computer.

Decreasing the projector setting value (Decrement command)

- (1) The computer sends the decrement code Header + Command data ('05H'+ '00H' + type (2 bytes) + '00H'+ '00H') to the projector.
- (2) The projector decreases the setting value on the above setting code.
- (3) The projector returns the response code '06H' to the computer.

When a command sent by the projector cannot be understood by the computer

When the command sent by the projector cannot be understood, the error command '15H' is returned by the computer. Some times, the projector ignores RS-232C commands during other works. If the error command '15H' is returned, please send the same command again.

When data sent by the projector cannot be practice

When the command sent by the projector cannot be practiced, the the error code '1cH' + 'xxxxH' is returned.

When the data length is greater than indicated by the data length code, the projector will ignore the access data code.

Conversely, when the data length is shorter than indicated by the data length code, an error code will be returned to the projector.

NOTE • Operation cannot be guaranteed when the projector receives an undefined command or data.

- Provide an interval of at least 40ms between the response code and any other code.
- The projector outputs test data when the power supply is switched ON, and when the lamp is lit. Ignore this data.
- Commands are not accepted during warm-up.

TECHNICAL (continued)

Command data chart

Names	Operation type	Header				Command data			
						CRC	Action	Type	Setting code
Blank Color	Set	Red	BE EF	03 06 00	3B D3	01 00	00 30	00 00	
		Orange	BE EF	03 06 00	AB D2	01 00	00 30	01 00	
		Green	BE EF	03 06 00	5B D2	01 00	00 30	02 00	
		Blue	BE EF	03 06 00	CB D3	01 00	00 30	03 00	
		Purple	BE EF	03 06 00	FB D1	01 00	00 30	04 00	
		White	BE EF	03 06 00	6B D0	01 00	00 30	05 00	
		Black	BE EF	03 06 00	9B D0	01 00	00 30	06 00	
		MyScreen	BE EF	03 06 00	FB CA	01 00	00 30	20 00	
	ORIGINAL	BE EF	03 06 00	FB E2	01 00	00 30	40 00		
	Get	BE EF	03 06 00	08 D3	02 00	00 30	00 00		
Mirror	Set	Normal	BE EF	03 06 00	C7 D2	01 00	01 30	00 00	
		H Inverse	BE EF	03 06 00	57 D3	01 00	01 30	01 00	
		V Inverse	BE EF	03 06 00	A7 D3	01 00	01 30	02 00	
		H&V Inverse	BE EF	03 06 00	37 D2	01 00	01 30	03 00	
		Get	BE EF	03 06 00	F4 D2	02 00	01 30	00 00	
Freeze	Set	Normal	BE EF	03 06 00	83 D2	01 00	02 30	00 00	
		Freeze	BE EF	03 06 00	13 D3	01 00	02 30	01 00	
		Get	BE EF	03 06 00	B0 D2	02 00	02 30	00 00	
Menu Color	Set	Red	BE EF	03 06 00	7F D3	01 00	03 30	00 00	
		Orange	BE EF	03 06 00	EF D2	01 00	03 30	01 00	
		Green	BE EF	03 06 00	1F D2	01 00	03 30	02 00	
		Blub	BE EF	03 06 00	8F D3	01 00	03 30	03 00	
		Purple	BE EF	03 06 00	BF D1	01 00	03 30	04 00	
		Transparent	BE EF	03 06 00	2F D0	01 00	03 30	05 00	
	Gray	BE EF	03 06 00	DF D0	01 00	03 30	06 00		
	Get	BE EF	03 06 00	4C D3	02 00	03 30	00 00		
Startup	Set	ORIGINAL	BE EF	03 06 00	0B D2	01 00	04 30	00 00	
		OFF	BE EF	03 06 00	9B D3	01 00	04 30	01 00	
		MyScreen	BE EF	03 06 00	CB CB	01 00	04 30	20 00	
		Get	BE EF	03 06 00	38 D2	02 00	04 30	00 00	
Language	Set	English	BE EF	03 06 00	F7 D3	01 00	05 30	00 00	
		Français	BE EF	03 06 00	67 D2	01 00	05 30	01 00	
		Deutsch	BE EF	03 06 00	97 D2	01 00	05 30	02 00	
		Español	BE EF	03 06 00	07 D3	01 00	05 30	03 00	
		Italiano	BE EF	03 06 00	37 D1	01 00	05 30	04 00	
		Norsk	BE EF	03 06 00	A7 D0	01 00	05 30	05 00	
		Nederlands	BE EF	03 06 00	57 D0	01 00	05 30	06 00	
		Português	BE EF	03 06 00	C7 D1	01 00	05 30	07 00	
		Japanese	BE EF	03 06 00	37 D4	01 00	05 30	08 00	
			Get	BE EF	03 06 00	C4 D3	02 00	05 30	00 00

TECHNICAL (continued)

Command data chart

Names	Operation type	Header				Command data		
					CRC	Action	Type	Setting code
Magnify	Get	BE EF	03 06 00	7C D2	02 00	07 30	00 00	
	Increment	BE EF	03 06 00	1A D2	04 00	07 30	00 00	
	Decrement	BE EF	03 06 00	CB D3	05 00	07 30	00 00	
Auto off	Get	BE EF	03 06 00	08 86	02 00	10 31	00 00	
	Increment	BE EF	03 06 00	6E 86	04 00	10 31	00 00	
	Decrement	BE EF	03 06 00	BF 87	05 00	10 31	00 00	
Brightness Reset	Execute	BE EF	03 06 00	58 D3	06 00	00 70	00 00	
Contrast Reset	Execute	BE EF	03 06 00	A4 D2	06 00	01 70	00 00	
V.Position Reset	Execute	BE EF	03 06 00	E0 D2	06 00	02 70	00 00	
H.Position Reset	Execute	BE EF	03 06 00	1C D3	06 00	03 70	00 00	
H.Size Reset	Execute	BE EF	03 06 00	68 D2	06 00	04 70	00 00	
Color Balance R Reset	Execute	BE EF	03 06 00	94 D3	06 00	05 70	00 00	
Color Balance B Reset	Execute	BE EF	03 06 00	D0 D3	06 00	06 70	00 00	
Sharpness Reset	Execute	BE EF	03 06 00	C4 D0	06 00	09 70	00 00	
Color Reset	Execute	BE EF	03 06 00	80 D0	06 00	0A 70	00 00	
Tint Reset	Execute	BE EF	03 06 00	7C D1	06 00	0B 70	00 00	
Keystone_V Reset	Execute	BE EF	03 06 00	08 D0	06 00	0C 70	00 00	
Keystone_H Reset	Execute	BE EF	03 06 00	98 D8	06 00	20 70	00 00	
Auto	Execute	BE EF	03 06 00	91 D0	06 00	0A 20	00 00	
Blank on/off	Set	off	BE EF	03 06 00	FB D8	01 00	20 30	00 00
		on	BE EF	03 06 00	6B D9	01 00	20 30	01 00
	Get	BE EF	03 06 00	C8 D8	02 00	20 30	00 00	
Error Status	Get		BE EF	03 06 00	D9 D8	02 00	20 60	00 00
		(Example of Return)	00 00	01 00	02 00	03 00	(Normal)	(Cover-error)
			04 00	05 00	06 00	(Temp-error)	(Air flow-error)	(Lamp-Time-over)
Power	Set	OFF	BE EF	03 06 00	2A D3	01 00	00 60	00 00
		ON	BE EF	03 06 00	BA D2	01 00	00 60	01 00
	Get	BE EF	03 06 00	19 D3	02 00	00 60	00 00	
Input Source	Set	RGB1	BE EF	03 06 00	FE D2	01 00	00 20	00 00
		RGB2	BE EF	03 06 00	3E D0	01 00	00 20	04 00
		Digital	BE EF	03 06 00	0E D2	01 00	00 20	03 00
		Video	BE EF	03 06 00	6E D3	01 00	00 20	01 00
		SVideo	BE EF	03 06 00	9E D3	01 00	00 20	02 00
		Component	BE EF	03 06 00	AE D1	01 00	00 20	05 00
	Get	BE EF	03 06 00	CD D2	02 00	00 20	00 00	
Volume	Get	BE EF	03 06 00	31 D3	02 00	01 20	00 00	
	Increment	BE EF	03 06 00	57 D3	04 00	01 20	00 00	
	Decrement	BE EF	03 06 00	86 D2	05 00	01 20	00 00	

TECHNICAL (continued)

Command data chart

Names	Operation type		Header				Command data								
							CRC	Action	Type	Setting code					
Mute	Set	Normal	BE	EF	03	06	00	46	D3	01	00	02	20	00	00
		Mute	BE	EF	03	06	00	D6	D2	01	00	02	20	01	00
	Get	BE	EF	03	06	00	75	D3	02	00	02	20	00	00	00
Brightness	Get	BE	EF	03	06	00	89	D2	02	00	03	20	00	00	00
	Increment	BE	EF	03	06	00	EF	D2	04	00	03	20	00	00	00
	Decrement	BE	EF	03	06	00	3E	D3	05	00	03	20	00	00	00
Contrast	Get	BE	EF	03	06	00	FD	D3	02	00	04	20	00	00	00
	Increment	BE	EF	03	06	00	9B	D3	04	00	04	20	00	00	00
	Decrement	BE	EF	03	06	00	4A	D2	05	00	04	20	00	00	00
Color Balance R	Get	BE	EF	03	06	00	01	D2	02	00	05	20	00	00	00
	Increment	BE	EF	03	06	00	67	D2	04	00	05	20	00	00	00
	Decrement	BE	EF	03	06	00	B6	D3	05	00	05	20	00	00	00
Color Balance B	Get	BE	EF	03	06	00	45	D2	02	00	06	20	00	00	00
	Increment	BE	EF	03	06	00	23	D2	04	00	06	20	00	00	00
	Decrement	BE	EF	03	06	00	F2	D3	05	00	06	20	00	00	00
Keystone_V	Get	BE	EF	03	06	00	B9	D3	02	00	07	20	00	00	00
	Increment	BE	EF	03	06	00	DF	D3	04	00	07	20	00	00	00
	Decrement	BE	EF	03	06	00	0E	D2	05	00	07	20	00	00	00
Keystone_H	Get	BE	EF	03	06	00	E9	D0	02	00	0B	20	00	00	00
	Increment	BE	EF	03	06	00	8F	D0	04	00	0B	20	00	00	00
	Decrement	BE	EF	03	06	00	5E	D1	05	00	0B	20	00	00	00
Aspect	Set	4:3	BE	EF	03	06	00	9E	D0	01	00	08	20	00	00
		16:9	BE	EF	03	06	00	0E	D1	01	00	08	20	01	00
		Small	BE	EF	03	06	00	FE	D1	01	00	08	20	02	00
	Get	BE	EF	03	06	00	AD	D0	02	00	08	20	00	00	00
Display Position at 16 : 9 or Small	Set	Default	BE	EF	03	06	00	62	D1	01	00	09	20	00	00
		Bottom	BE	EF	03	06	00	F2	D0	01	00	09	20	01	00
		Top	BE	EF	03	06	00	02	D0	01	00	09	20	02	00
	Get	BE	EF	03	06	00	51	D1	02	00	09	20	00	00	00
V.Position	Get	BE	EF	03	06	00	0D	83	02	00	00	21	00	00	00
	Increment	BE	EF	03	06	00	6B	83	04	00	00	21	00	00	00
	Decrement	BE	EF	03	06	00	BA	82	05	00	00	21	00	00	00
	Get	BE	EF	03	06	00	F1	82	02	00	01	21	00	00	00
H.Position	Increment	BE	EF	03	06	00	97	82	04	00	01	21	00	00	00
	Decrement	BE	EF	03	06	00	46	83	05	00	01	21	00	00	00
H.Size	Get	BE	EF	03	06	00	B5	82	02	00	02	21	00	00	00
	Increment	BE	EF	03	06	00	D3	82	04	00	02	21	00	00	00
	Decrement	BE	EF	03	06	00	02	83	05	00	02	21	00	00	00
H.Phase	Get	BE	EF	03	06	00	49	83	02	00	03	21	00	00	00
	Increment	BE	EF	03	06	00	2F	83	04	00	03	21	00	00	00
	Decrement	BE	EF	03	06	00	FE	82	05	00	03	21	00	00	00

TECHNICAL (continued)

Command data chart

Names	Operation type	Header				Command data		
					CRC	Action	Type	Setting code
Sharpness	Get	BE EF	03 06 00	F1 72	02 00	01 22	00 00	
	Increment	BE EF	03 06 00	97 72	04 00	01 22	00 00	
	Decrement	BE EF	03 06 00	46 73	05 00	01 22	00 00	
Color	Get	BE EF	03 06 00	B5 72	02 00	02 22	00 00	
	Increment	BE EF	03 06 00	D3 72	04 00	02 22	00 00	
	Decrement	BE EF	03 06 00	02 73	05 00	02 22	00 00	
Tint	Get	BE EF	03 06 00	49 73	02 00	03 22	00 00	
	Increment	BE EF	03 06 00	2F 73	04 00	03 22	00 00	
	Decrement	BE EF	03 06 00	FE 72	05 00	03 22	00 00	
Video Format	Set	Auto	BE EF	03 06 00	9E 75	01 00	00 22	0A 00
		NTSC	BE EF	03 06 00	FE 71	01 00	00 22	04 00
		PAL	BE EF	03 06 00	6E 70	01 00	00 22	05 00
		SECAM	BE EF	03 06 00	6E 75	01 00	00 22	09 00
		NTSC 4.43	BE EF	03 06 00	5E 72	01 00	00 22	02 00
		M-PAL	BE EF	03 06 00	FE 74	01 00	00 22	08 00
	N-PAL	BE EF	03 06 00	0E 71	01 00	00 22	07 00	
	Get	BE EF	03 06 00	0D 73	02 00	00 22	00 00	
Video NR	Set	off	BE EF	03 06 00	B6 73	01 00	06 22	00 00
		on	BE EF	03 06 00	26 72	01 00	06 22	01 00
	Get	BE EF	03 06 00	85 73	02 00	06 22	00 00	
Progressive	Set	off	BE EF	03 06 00	4A 72	01 00	07 22	00 00
		TV	BE EF	03 06 00	DA 73	01 00	07 22	01 00
		FILM	BE EF	03 06 00	2A 73	01 00	07 22	02 00
	Get	BE EF	03 06 00	79 72	02 00	07 22	00 00	
Black	Set	off	BE EF	03 06 00	5E 71	01 00	08 22	00 00
		on	BE EF	03 06 00	CE 70	01 00	08 22	01 00
	Get	BE EF	03 06 00	6D 71	02 00	08 22	00 00	
HDTV	Set	1080i	BE EF	03 06 00	F2 73	01 00	05 22	00 00
		1035i	BE EF	03 06 00	62 72	01 00	05 22	01 00
	Get	BE EF	03 06 00	C1 73	02 00	05 22	00 00	
PinP Size	Set	off	BE EF	03 06 00	FE 22	01 00	00 23	00 00
		Large	BE EF	03 06 00	6E 23	01 00	00 23	01 00
		Small	BE EF	03 06 00	9E 23	01 00	00 23	02 00
	Get	BE EF	03 06 00	Cd 22	02 00	00 23	00 00	

TECHNICAL (continued)

Command data chart

Names	Operation type	Header				Command data			
					CRC	Action	Type	Setting code	
PinP Position	Set	Upper left	BE EF	03 06 00	02 23	01 00	01 23	00 00	
		Upper right	BE EF	03 06 00	92 22	01 00	01 23	01 00	
		bottom left	BE EF	03 06 00	62 22	01 00	01 23	03 00	
		bottom right	BE EF	03 06 00	F2 23	01 00	01 23	02 00	
	Get	BE EF	03 06 00	31 23	02 00	01 23	00 00		
PinP Audio ch	Set	RGB	BE EF	03 06 00	BA 22	01 00	03 23	00 00	
		Video	BE EF	03 06 00	2A 23	01 00	03 23	01 00	
	Get	BE EF	03 06 00	89 22	02 00	03 23	00 00		
PinP Input	Set	Video	BE EF	03 06 00	D6 22	01 00	02 23	01 00	
		S-Video	BE EF	03 06 00	26 22	01 00	02 23	02 00	
		Component	BE EF	03 06 00	16 20	01 00	02 23	05 00	
	Get	BE EF	03 06 00	75 23	02 00	02 23	00 00		
FOCUS	Increment	BE EF	03 06 00	6A 93	04 00	00 24	00 00		
	Decrement	BE EF	03 06 00	BB 92	05 00	00 24	00 00		
Zoom	Increment	BE EF	03 06 00	96 92	04 00	01 24	00 00		
	Decrement	BE EF	03 06 00	47 93	05 00	01 24	00 00		
Sync on G	Set	off	BE EF	03 06 00	CB D0	01 00	08 30	01 00	
		on	BE EF	03 06 00	5B D1	01 00	08 30	00 00	
	Get	BE EF	03 06 00	68 D1	02 00	08 30	00 00		
WHISPER	Set	NORMAL	BE EF	03 06 00	3B 23	01 00	00 33	00 00	
		WHISPER	BE EF	03 06 00	AB 22	01 00	00 33	01 00	
	Get	BE EF	03 06 00	08 23	02 00	00 33	00 00		
GAMMA	Set	NORMAL	BE EF	03 06 00	C7 F0	01 00	A1 30	00 00	
		CINEMA	BE EF	03 06 00	57 F1	01 00	A1 30	01 00	
		DYNAMIC	BE EF	03 06 00	A7 F1	01 00	A1 30	02 00	
		6500K	BE EF	03 06 00	37 F0	01 00	A1 30	03 00	
	Get	BE EF	03 06 00	F4 F0	02 00	A1 30	00 00		



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Intended Use

Before operating this machine, please read this entire manual thoroughly. The 3MTM Multimedia Projectors are 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, or different voltages has not been tested and could damage the projector peripheral equipment and/or create a potentially unsafe operating condition.

3M Multimedia projectors and Wall Display Systems are designed to operate in a normal office environment.

- 16° to 29°C (60° to 85° F)
- 10- 80 %RH (without condensation)
- 0- 1828 m (0-6000 feet) above sea level

The ambient operating environment should be free of airborne smoke, grease, oil and other contaminants that can affect the operation or performance of the projector.

Use of this product in adverse conditions will void the product warranty.

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