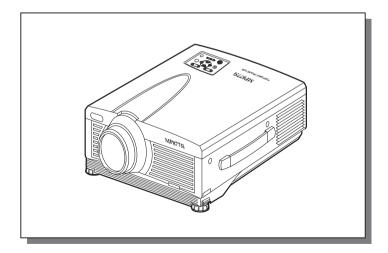
3M MP8775i Multimedia Projector

Operator's Guide

MP8775i Projecteur multimedia - Guide de L' opérateur MP8775i Multimedia-Projektor - Benutzerhandbuch MP8775i Proyector de Multimedia - Guía del usuario MP8775i Projectore Multimediale - Guida dell' operatore MP8775i Multimedia Projector - Gebruiksaanwijzing MP8775i Projector dos Multimedia - Guia da operador MP8775i Multimedia Projektør- Brukerhåndbok



Intended Use Statement

Before operating this machine, please read the Operator's Guide and Product Safety Guide thoroughly. The 3M[™] 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 have not been tested and could damage the projector peripheral equipment and/or create a potentially unsafe operating condition. 3M Multimedia projectors 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 contaminates that can affect the operation or performance of the projector.

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

Liquid Crystal Projector Operator's Guide

Thank you for purchasing this liquid crystal projector.

MARNING • 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.

- The manufacturer assumes no responsibility for any errors that may appear in this manual
- The reproduction, transmission or use of this document or contents is not permitted without express written authority.

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For "TECHNICAL", see the end of this manual.

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



Video/Audio Cable (with white lead)



Product Safety Guide Warranty **Quick Start Guide**

VGA Cable

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



Batteries for Remote Control Transmitter

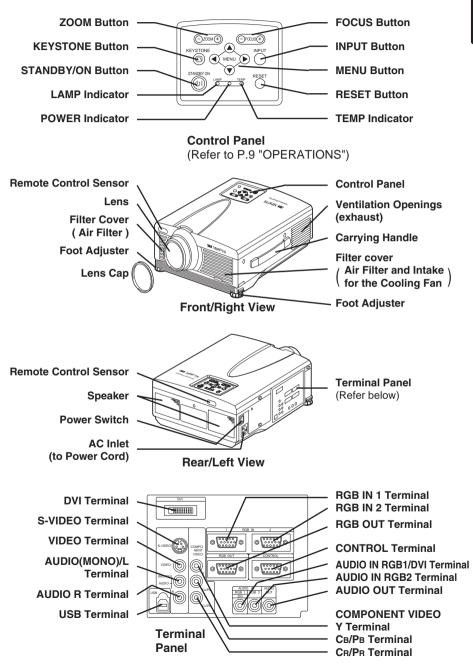


Component Video Cable (with green lead)



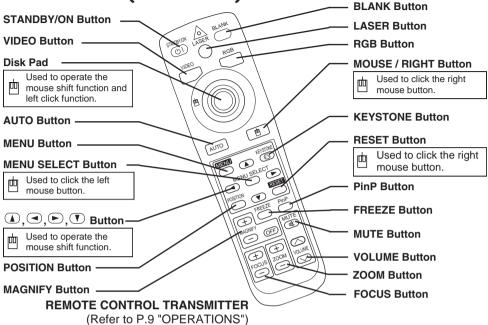
Remote Control Transmitter

Part Names



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.

<u>WARNING</u> • 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.

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



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.

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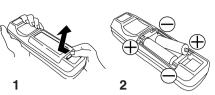
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Loading the Batteries

Install the AA batteries into the remote control transmitter.

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



▲ <u>CAUTION</u> • 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.

INSTALLATION

Installation of the Projector and Screen

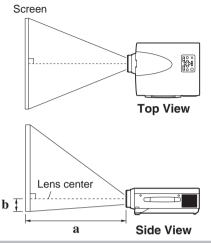
Refer to the drawing and table below for determining the screen size and projection distance.

The projection distances shown in the table below are for full size $(1024 \times 768 \text{ dots})$.

- **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	a [inch	b		
[inches (m)]	Min.	Max.	[inches (cm)]	
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.

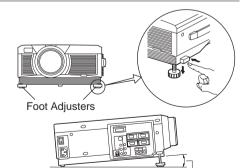
• Please basically use liquid crystal projector at the horizontal position. If you use liquid crystal projector by the lens up position, the lens down position and the side up position, this may cause the heat inside to build up and cause damage. Be especially careful not to install it with ventilation 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.
- 2. Release the button to lock at the desired angle.
- Use the foot adjusters for fine adjustment. Do not force the adjuster screws. This could damage the adjusters or cause the lock to fail.



Variable within the range of approximately 0° - 9°

▲ <u>CAUTION</u> • 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.

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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	
Analog KGB Input	RGB IN 2	and inch thread screws	
Analog RGB output	RGB OUT		
Digital RGB input	DVI	DVI cable with inch thread screws	
Audio input	AUDIO IN [RGB 1] / [DVI] (interlocked with RGB IN 1 or DVI)	– Audio cable with stereo mini jack	
(from the computer)	AUDIO IN [RGB 2] (interlocked with RGB IN 2)	– Audio cable with stereo mini jack	
PS/2 mouse control		PS/2 mouse cable	
ADB mouse control		ADB mouse cable	
Serial mouse control	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 Y		
Component video input	COMPONENT VIDEO CB/PB	Component video cable	
	COMPONENT VIDEO CR/PR		
Audio input	AUDIO (MONO)/L	Video/Audio cable	
(from video equipment)	AUDIO R	or Audio cable with RCA jack	
Audio output	AUDIO OUT	Audio cable with stereo mini jack	

▲ <u>CAUTION</u> • 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.

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.

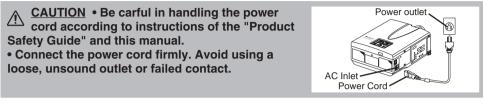
• Refer to the "TECHNICAL" section for the pin assignment of connectors and RS-232C communication data.

• When the DVI terminal is used, the RGB OUT terminal may not function.

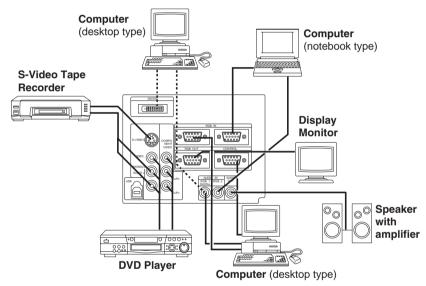
INSTALLATION (continued)

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.



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.

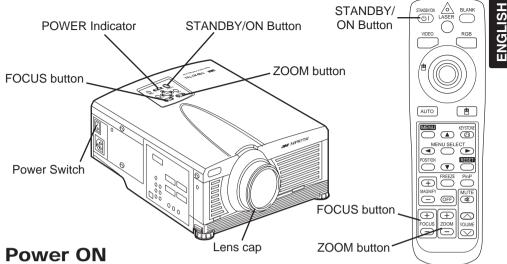
• Plug & play may not operate by the computer to connect. Use the RGB IN 2 terminal if plug & play does not operate correctly.

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OPERATIONS



- 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 (1) 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].
- 3. 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.



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	
POSITION	 Set/Clear Position Adjustment Mode : Press the POSITION button. The [□] icon is displayed in the POSITION mode. Image Position Adjustment: Press the , , , , and buttons in the POSITION mode. 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 (*)	 Initialize Each Item : Select an item and press the RESET button. Initialize Position Adjustment : Press the RESET button and the POSITION mode. This function is valid only when RGB signal is input. 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	 Set MAGNIFY Mode : Press the MAGNIFY ⊕ button. Move Magnified Area : Run the POSITION in the MAGNIFY mode. Adjust Magnification : Press the MAGNIFY ⊕ / ⊕ button in MAGNIFY mode. Clear MAGNIFY Mode : Press the MAGNIFY ⊕ button. The MAGNIFY mode is cleared by running or setting the AUTO, ASPECT, INPUT SELECT or VIDEO, or by changing the input signal.
FREEZE	 Set/Clear FREEZE Mode : Press the FREEZE button. The [II] icon is displayed, and the image is frozen, in the FREEZE mode. 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

Items indicated by (*) may be used from the control panel.

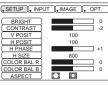
Table 3. Basic Operation (continued)

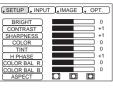
Item	Description		
VOLUME	Volume Adjustment : Press the VOLUME ⊘ / ☉ button.		
MUTE	Set/Clear Mute Mode : Press the MUTE button. No sound is heard in the MUTE mode.		
AUTO	 Automatic Adjustment at RGB Input : Press the AUTO button. Horizontal position(H.POSIT), vertical position (V.POSIT), clock phase (H.PHASE), and horizontal size(H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display. Automatic Adjustment at Video Input : Press the AUTO button. A signal type appropriate for the input signal is selected automatically. Valid only when AUTO is set for VIDEO on the menu. This operation requires approximately 10 seconds. It may not function correctly with some input signals. 		
BLANK ON/OFF	Set/Clear Blank Mode: Press the BLANK button. No image is displayed in the Blank mode. The screen color is as set in BLANK on the Image menu.		
MENU ON/OFF (*)	 Menu Display Start/Stop: Press the MENU button. The menu display is terminated automatically after approximately 10 seconds of inactivity. 		
MENU SELECT	 Select Menu Type: Press the MENU SELECT button. Allows the user to select the normal menu or the single menu. Only the selected item is displayed on the single menu, and other items are displayed with the a and buttons as with the normal menu. Valid only when the Setup menu is used. Push the MENU SELECT button after selecting items such as "BRIGHTNESS". The MENU SELECT button may operate as the mouse control button. Refer to page 4. 		
P.IN P. MODE	 Select Mode of P.IN P. Display : Press the PinP button. Small → Large → P.IN P. off (→ Small) P.IN P. function superimposes a video image over RGB or DVI signals. 		
ZOOM (*)	Adjust Screen Size : Press the ZOOM ⊕ / ⊖ button.		
FOCUS (*)	Adjust Focus : Press the FOCUS \oplus / \ominus button.		
KEYSTONE Set / Clear KEYSTONE Mode : Press the KEYSTONE © button. Select KEYSTONE Mode : Press the ▲ / button in the KEYSTONE (*) mode. Vertical ▲ ↔ Horizontal Adjust KEYSTONE : Press the /			
0.014.0000			

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



Table 4. Setup Menu

Item	Description	RGB IN 1 RGB IN 2	DVI	VIDEO S-VIDEO COMPONENT
BRIGHT	Adjustment: Dark \bigcirc \leftrightarrow Light \bigcirc	~	~	~
CONTRAST	Adjustment: Weak $\bigcirc \leftrightarrow$ Strong \bigcirc	~	~	v
V POSIT	Adjustment: Down $\bigcirc \leftrightarrow Up \bigcirc$	~	-	-
H POSIT	Adjustment: Left \bigcirc \leftrightarrow Right \bigcirc	~	-	-
H PHASE	Adjustment: Left	~	-	~
H SIZE	Adjustment: Small	~	-	-
SHARPNESS	Adjustment: Soft \bigcirc \leftrightarrow Clear \bigcirc	-	-	~
COLOR	Adjustment: Light $\bigcirc \leftrightarrow Dark \boxdot$	-	-	v
TINT	Adjustment: Red	-	-	~
COLOR BAL R	Adjustment: Light $\bigcirc \leftrightarrow Dark \boxdot$	~	~	~
COLOR BAL B	Adjustment: Light $\bigcirc \leftrightarrow Dark \bigcirc$	~	~	~
	Select Image Aspect Ratio : $4:3[\circlength] \circlength \leftrightarrow \circlength \sim 16:9[\circlength \leftrightarrow 16:9[\circlength \sim 16:9[\circlength \rightarrow 16:9[\circlength \sim 16:9[\circlength \rightarrow 16:9[\circlen$	~	~	-
ASPECT	Select Image Aspect Ratio: $4:3[\begin{tabular}{lllllllllllllllllllllllllllllllllll$	-	-	v

Input Menu

The following functions are available when INPUT is selected on the menu. Select an item with the \bigcirc and \bigcirc buttons, and start or stop operation with the \bigcirc and \bigcirc 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.

, SETUP , INPUT	, IMAGE , OPT.
AUTO RGB VIDEO VIDEO NR Progressive BLACK HDTV	EXECUTE CANCEL

<u>ENGLISH</u>

Table 5. Input Menu

Item	Description		
AUTO	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. 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. • 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	Displays RGB Input Frequency: Displays the horizontal and vertical sync signal frequencies for RGB input. • Valid only at RGB input.		
VIDEO (**)	 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. 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 (**)	Set/Clear Noise Reduction Mode: Select the TURN ON / TURN OFF with the /① button. When the TURN ON is selected, the NR mode is active and the noise on screen of the video input will be reduced. • Valid except for the HDTV.		
Progressive (**)	 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 adptable 2-3 Pull-Down system to the conversion. Use this function to raise resolution, at the interlaced video input except HDTV signal. 		
BLACK(**)	Set/Clear Black Enhancement Mode: Select the TURN ON / TURN OFF with the		
HDTV (**)	Select HDTV mode: Select the 1035i mode or 1080i mode suitable for the input signal with the (1) / (1) button.		

Image Menu

The following adjustments and settings are available when IMAGE is selected on the menu. Select an item with the (1) and (1) buttons, and start or stop operation with the (\bigcirc) and (\bigcirc) buttons.

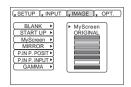


Table 6. Image Menu

Item	Description		
BLANK	 Select Blank Screen: Select the screen in case of the BLANK mode with the () () button. The selected one (MyScreen, ORIGIAL or one colors) is displayed when the BLANK mode is ON. 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. ORIGINAL is a mode that the factory fixed screen is displayed. When MyScreen or ORIGIAL is selected, the screen is going to the black after several minutes. 		
START UP	 Select Start Up Screen:Select the screen in case of no signal input with the () / () button. The selected one (MyScreen, ORIGIAL or TURN OFF) is displayed when no signal is input 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. ORIGINAL is a mode that the factory fixed screen is displayed. TURN OFF displays the blue screen. When MyScreen or ORIGIAL is selected, the screen is going to the black after several minutes. 		
MyScreen	 Set MyScreen Mode: Select the EXECUTE with the button to display the MyScreen menu and set the MyScreen mode for BLANK and START UP functions. ESC clears and closes the menu box. NORM. is default of the MyScreen menu. FREEZE freezes the image and displays the frame to capture. Press the button after freeze to go to the MyScreen Capture Position mode. In the MyScreen Capture Position mode, the buttons , and 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. In the MyScreen Display Size mode, select the magnification x1, x2 or FULL with the button () / . 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. 		
MIRROR	Select Mirror Status: Select mirror status with (1) / (1) button.		
P. IN P. POSIT	Select Position of P. in P. Display : Press the ▲ / ⑦ button. ▲ ↔ ⑦ ■ ▲ ↔ ⑦ ■ ▲ ↔ ⑦ ■ • P.IN P. function superimposes a video image over RGB or DVI signals.		
P. IN P. INPUT	Select signal of P. in P. Display : Press the ▲ / ▼ button. VIDEO ▲↔ ▼ S-VIDEO		
GAMMA	Select Gamma Mode: Select the gamma mode with the ▲ /		
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Options Menu

The following adjustments and settings are available when OPT. is selected on the menu. Select an item with the (1) and (7) buttons, and start operation.

, SETUP , INPUT	, IMAGE),	OPT.
			16
(MENU COLOR)			
LANGUAGE >			
AUTO OFF			
SYNC ON G •			
WHISPER			

Table 7. Options Menu

Item	Description				
VOLUME	Volume Adjustment: Reduce VOLUME $ \leftrightarrow$ Increase VOLUME $$				
MENU COLOR	Select Menu Background Color: Select with the				
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.				

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.

(VOLUME)	
BLANK •	
START UP	
MIRROR	
(MENU COLOR ►)	
LANGUAGE •	
AUTO OFF	
SYNC ON G •	
WHISPER	

16

Table 8. No Signal Menu

Item	Description
VOLUME	Volume Adjustment: Reduce VOLUME → Increase VOLUME → • 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	 Select Blank Screen: Select the screen in case of the BLANK mode with the /① button. The selected one (MyScreen, ORIGIAL or one colors) is displayed when the BLANK mode is ON. 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. ORIGINAL is a mode that the factory fixed screen is displayed. When MyScreen or ORIGIAL is selected, the screen is going to the black after several minutes.
START UP	 Select Start Up Screen: Select the screen in case of no signal input with the button. The selected one (MyScreen, ORIGIAL or TURN OFF) is displayed when no signal is input 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. ORIGINAL is a mode that the factory fixed screen is displayed. TURN OFF displays the blue screen. When MyScreen or ORIGIAL is selected, the screen is going to the black after several minutes.
MIRROR	Operation Start/Stop: Press the ● / ✓ button. Select Mirror Status: Select the mirror status with the ▲ and ● buttons.
MENU COLOR	Select Menu Background Color: Select the color with the 🕞 and 🗨 buttons.
LANGUAGE	Operation Start/Stop: Press the ● / ✓ button. Select Menu Display Language: Select the language 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 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.
SYNC ON G	Operation Start/Stop: Press the) (● button. SYNC ON G Valid: Select the TURN ON with the ● button. SYNC ON G Invalid: Select the TURN OFF with the ● button. • 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	Set / Crear WHISPER Mode: Press the (1) / (1) 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.

MAINTENANCE

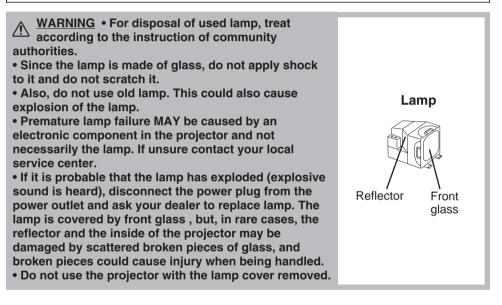
Lamp

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.



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.

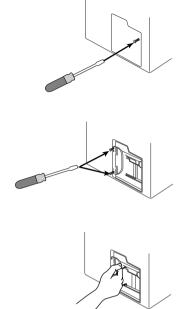
Replace the lamp if the LAMP indicator is red, or the CHANGE THE LAMP message appears when the projector is switched ON. See Table 9 of P.20 and Table 10 of P.21.

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.



- ▲ <u>CAUTION</u> 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 $\Box \rightarrow 0 \blacksquare$ CANCEL' message will then appear.
- 3. Press the \bigcirc and select 0, and wait until the timer display is cleared.

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.

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.

▲ <u>CAUTION</u> • 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.

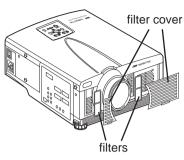
Cleaning the Cabinet and Remote control transmitter

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.

▲ <u>CAUTION</u> • 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 Infomation

For product infomation, product assistance, service infomation, 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 appears.

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	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.

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

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	The main power switch is not turned on.	Turn on the main power switch.	8,9
turned on.	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
	The projector is not correctly connected.	Connect correctly.	7,8
Video is present but no audio.	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 w button.	11
	The projector is not correctly connected.	Connect correctly.	7,8
Audio is present but no video.	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
	Brightness and contrast are not correctly adjusted.	Adjust the video.	12
Images are dark.	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	Panel size		3.3 cm (1.3 type)			
crystal	Drive system		TFT active matrix			
panel	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 supp	bly		AC100 ~ 120V, 4.7A / AC220 ~ 240V, 2.0A			
Power cons			440W			
Temperatur	e range		0 ~ 35°C (Operating)			
Size			289 (W) x 144 (H) x 350 (D) mm			
Weight (ma	ss)		6.5 kg			
	RGB IN	1	Video: Analog 0.7Vp-p, 75Ω terminator (positive) H/V. sync.: TTL level (positive/negative)			
RGB		2	Composite sync.: TTL level D-sub 15-pin shrink jack			
signal input	DVI		TMDS, DC: 150~1200 mV / AC: 1.56 Vp-p TTL Level (Positive/Negative)			
	AUDIO IN RGB1 RGB2		200mVrms, 50 kΩ (max. 3.0Vp-p) Stereo mini jack			
	VIDEO		1.0Vp-p, 75Ω terminator RCA jack			
Video	S-VIDEO		Brightness signal: 1.0Vp-p, 75Ω terminator Color signal: 0.3Vp-p (burst signal), 75Ω terminator Mini DIN 4-pin jack			
signal	00400	Y	1.0 Vp-p, 75 Ω Terminator (Positive)			
input	COMPONENT VIDEO		0.7 Vp-p, 75 Ω Terminator (Positive)			
			0.7 Vp-p, 75 Ω Terminator (Positive)			
	AUDIO	L/MONO				
	R		RCA jack			
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	CONTROL		D-sub 15-pin shrink plug			
functions	USB		USB jack (B type)			

NOTE • This specifications are subject to change without notice.

ACCESSORIES

Acccessories	Part Number
UHB Lamp, 275W	
Air Filter	
Power Cord (US)	
Power Cord (UK)	
Power Cord (Europe)	
VGA Cable	
RCA Component Cable	
RCA Video/Audio Cable	
S-Video Cable	
Stereo Mini-Cable	
Mouse Cable (PS/2)	
Mouse Cable (ADB)	
Mouse Cable (Serial)	
Remote Control Transmitter	

Not Included with Basic Packet	Part Number
Ceiling mount	
Adjustable Height Suspension	
Shipping Case	
Carry Case	
Mouse Cable (USB)	
RS-232C Control Cable	
Mac Adapter	

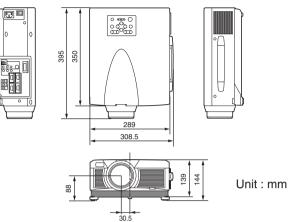
How to Order

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.

TECHNICAL

Dimension Diagram



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	-		RGB IN 1: SCL(DDC)
2	Video input Green	10	Ground	15	RGB IN 2: -
3	Video input Blue	11	-]	RGB OUT: -
4	-		RGB IN 1: SDA(DDC)		
5	Ground	12	RGB IN 2: -		54321)
6	Ground Red	1	RGB OUT: -	1	109876
7	Ground Green	13	H. sync./ Composite sync.] \	(5 (4 (3 (2 (1)))))
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 -	12	2 3 4 5 6 7 8
8	Analog V. Sync.	18	T.M.D.S. Data 0 +	91	2 3 4 5 6 7 8 0 11 12 13 14 15 16 8 19 20 21 22 23 24
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

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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 imes 768	48.4	60.0	VESA	XGA (60Hz)	
1024 imes 768	56.5	70.1	VESA	XGA (70Hz)	
1024 imes 768	60.0	75.0	VESA	XGA (75Hz)	
1024 imes 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 reflesh rate.

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 /	Computer /	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Signal	а	b	С	d	Signal	а	b	С	d
TEXT	2.0	3.0	20.3	1.0	TEXT	3	42	400	1
VGA (60Hz)	3.8	1.9	25.4	0.6	VGA (60Hz)	2	33	480	10
Mac 13"mode	2.1	3.2	21.2	2.1	Mac 13"mode	3	39	480	3
VGA (72Hz)	1.3	3.8	20.3	1.0	VGA (72Hz)	3	28	480	9
VGA (75Hz)	2.0	3.8	20.3	0.5	VGA (75Hz)	3	16	480	1
VGA (85Hz)	1.6	2.2	17.8	1.6	VGA (85Hz)	3	25	480	1
SVGA (56Hz)	2.0	3.6	22.2	0.7	SVGA (56Hz)	2	22	600	1
SVGA (60Hz)	3.2	2.2	20.0	1.0	SVGA (60Hz)	4	23	600	1
SVGA (72Hz)	2.4	1.3	16.0	1.1	SVGA (72Hz)	6	23	600	37
SVGA (75Hz)	1.6	3.2	16.2	0.3	SVGA (75Hz)	3	21	600	1
SVGA (85Hz)	1.1	2.7	14.2	0.6	SVGA (85Hz)	3	27	600	1
Mac 16"mode	1.1	3.9	14.5	0.6	Mac 16"mode	3	39	624	1
XGA (60Hz)	2.1	2.5	15.8	0.4	XGA (60Hz)	6	29	768	3
XGA (70Hz)	1.8	1.9	13.7	0.3	XGA (70Hz)	6	29	768	3
XGA (75Hz)	1.2	2.2	13.0	0.2	XGA (75Hz)	3	28	768	1
XGA (85Hz)	1.0	2.2	10.8	0.5	XGA (85Hz)	3	36	768	1
1152×864 (75Hz)	1.2	2.4	10.7	0.6	1152×864 (75Hz)	3	32	864	1
1280×960 (60Hz)	1.0	2.9	11.9	0.9	1280×960 (60Hz)	3	36	960	1
1280×1024 (60Hz)	1.0	2.3	11.9	0.4	1280×1024 (60Hz)	3	38	1024	1
1280×1024 (75Hz)	1.1	1.8	9.5	0.1	1280×1024 (75Hz)	3	38	1024	1
1600×1200 (60Hz)	1.2	1.9	9.9	0.4	1600×1200 (60Hz)	3	46	1200	1

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.

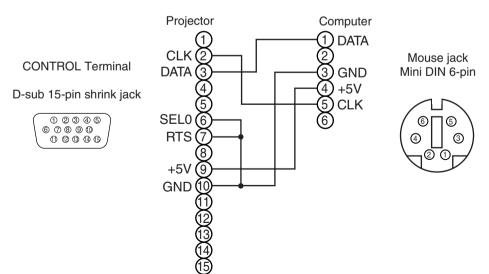
2. USB Mouse

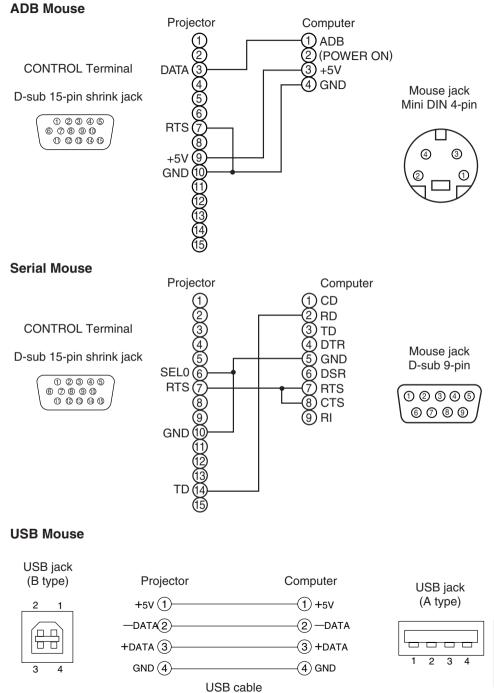
- (1) Connect the projector and computer with a suitable commercially available USB cable. Consult your dealer to get the cable, if you need.
- (2) Start the mouse function. Refer to the descriptions of "DISC PAD" and "MOUSE/RIGHT button" of page 4.

• Defore 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





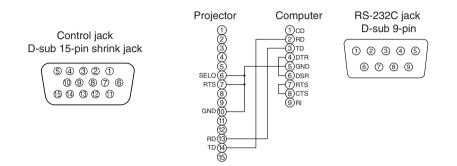
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TECHNICAL - 5

ECHNICA

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.



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

		ommania	adda oniai	•		
byte_0	byte_1	byte_2	byte_3	byte_4	byte_5	
Act	ion	Ту	ре	Setting code		
low	high	low	high	low	high	

Command data chart

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 - 6

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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 in creases 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 excess 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.

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Command data chart

Names	0	peration type		leader			Command data			
Mariles		peration type	Г	leauer		CRC	Action	Туре	Setting code	
		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	
Blank Color	Set	Purple	BE EF	03	06 00	FB D1	01 00	00 30	04 00	
BIANK COLOR		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	
		Normal	BE EF	03	06 00	C7 D2	01 00	01 30	00 00	
Mirror		H Inverse	BE EF	03	06 00	57 D3	01 00	01 30	01 00	
	Set	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	
		Normal	BE EF	03	06 00	83 D2	01 00	02 30	00 00	
Freeze	Set	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	
		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	
	Set	Blub	BE EF	03	06 00	8F D3	01 00	03 30	03 00	
Menu Color		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	
		ORIGINAL	BE EF	03	06 00	0B D2	01 00	04 30	00 00	
-	Set	OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00	
Startup		MyScreen	BE EF	03	06 00	СВ СВ	01 00	04 30	20 00	
		Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00	
		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	
	Set	Italiano	BE EF	03	06 00	37 D1	01 00	05 30	04 00	
Language		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	
	<u> </u>	Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00	

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Command data chart

									Command data			
Names	Ope	ration type		ł	Header			CRC	Action	Туре	Settin	g code
		Get	BE	EF	03	06	00	7C D2	02 00			00
Magnify	In	crement	BE	EF	03	06	00	1A D2	04 00	07 30	00	00
	De	ecrement	BE	EF	03	06	00	CB D3	05 00	07 30	00	00
		Get	BE	EF	03	06	00	08 86	02 00	10 31	00	00
Auto off	In	crement	BE	EF	03	06	00	6E 86	04 00	10 31	00	00
	De	ecrement	BE	EF	03	06	00	BF 87	05 00	10 31	00	00
Brightness Reset	E	Execute	BE	EF	03	06	00	58 D3	06 00	00 70	00	00
Contrast Reset	E	Execute	BE	EF	03	06	00	A4 D2	06 00	01 70	00	00
V.Position Reset	E	Execute	BE	EF	03	06	00	E0 D2	06 00	02 70	00	00
H.Position Reset	E	Execute	BE	EF	03	06	00	IC D3	06 00	03 70	00	00
H.Size Reset	E	Execute	BE	EF	03	06	00	68 D2	06 00	04 70	00	00
Color Balance R Reset	E	Execute	BE	EF	03	06	00	94 D3	06 00	05 70	00	00
Color Balance B Reset	E	Execute	BE	EF	03	06	00	D0 D3	06 00	06 70	00	00
Sharpness Reset	E	Execute	BE	EF	03	06	00	C4 D0	06 00	09 70	00	00
Color Reset	E	Execute	BE	EF	03	06	00	80 D0	06 00	0A 70	00	00
Tint Reset	E	Execute	BE	EF	03	06	00	7C D1	06 00	0B 70	00	00
Keystone_V Reset	E	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	E	Execute	BE	EF	03	06	00	91 D0	06 00	0A 20	00	00
	Set	off	BE	EF	03	06	00	FB D8	01 00	20 30	00	00
Blank on/off	Jei	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
			BE	EF	03	06	00	D9 D8	02 00	20 60	00	00
Error Status		Get	òo o	(Example of Return) 00 00 01 00 02 00 (Normal) (Cover-error) (Fan-erro			03 00 or) (Lamp-error)					
			04 0 (Tem	0 ip-erro		05 00 (Air fl		error)	06 ((Lar)0 np-Time-o	ver)	
	Set	OFF	BE		03	06		2A D3	01 00			00
Power		ON	BE		03	06		BA D2	01 00			00
		Get	BE		03		00	19 D3	02 00	_		00
		RGB1	BE		03	06		FE D2	01 00			00
		RGB2	BE	EF	03	06	00	3E D0	01 00	00 20	04	00
	Set	Digital	BE	EF	03	06	00	0E D2	01 00	00 20	03	00
Input Source	Ger	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	02	00
		Get	BE	EF	03	06	00	31 D3	02 00	01 20	00	00
Volume	In	crement	BE	EF	03	06	00	57 D3	04 00	01 20	00	00
	Decrement		BE		03	06		86 D2	05 00	_		00
					03		50	00 02	00 00			

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Command data chart

Names	0	peration type		Joodor				Comma	ind data
Marines	Names Op		ſ	leauer		CRC	Action	Туре	Setting code
		Normal	BE EF	03	06 00	46 D3	01 00	02 20	00 00
Mute	Set	Mute	BE EF	03	06 00	D6 D2	01 00	02 20	01 00
		Get	CRC Action Type Type BE EF 03 06 00 46 D3 01 00 02 20 BE EF 03 06 00 D6 D2 01 00 02 20 100 BE EF 03 06 00 75 D3 02 00 02 20 100 BE EF 03 06 00 89 D2 02 00 03 20 100 BE EF 03 06 00 BE D2 04 00 03 20 100 BE EF 03 06 00 BE D3 04 00 04 20 100 BE EF 03 06 00 9B D3 04 00 04 20 100 BE EF 03 06 00 67 D2 04 00 05 20 100 BE EF 03 06 00 86 D3 05 00 05 20 100 BE EF 03 06 00 23 D2 04 00 06 20 100	00 00					
		Get	BE EF	03	06 00	89 D2	02 00	Type 02 20 02 20 03 20 03 20 03 20 04 20 04 20 04 20 05 20 05 20 05 20 05 20 05 20 06 20 06 20 06 20 07 20 07 20 07 20 07 20 07 20 07 20 07 20 08 20 08 20 08 20 08 20 08 20 08 20 09 20 09 20 09 20 09 20 09 20 09 20	00 00
Brightness		Increment	BE EF	03	06 00	EF D2	04 00	03 20	00 00
		Decrement	BE EF	03	06 00	3E D3	05 00	03 20	00 00
		Get	BE EF	03	06 00	FD D3	02 00	04 20	00 00
Contrast		Increment	BE EF	03	06 00	9B D3	04 00	04 20	00 00
		Decrement	BE EF	03	06 00	4A D2	05 00	04 20	00 00
		Get	BE EF	03	06 00	01 D2	02 00	05 20	00 00
Color Balance R		Increment	BE EF	03	06 00	67 D2	04 00	05 20	00 00
		Decrement	BE EF	03	06 00	B6 D3	05 00	05 20	00 00
		Get	BE EF	03	06 00	45 D2	02 00	06 20	00 00
Color Balanaa B		Increment	BE EF	03	06 00	23 D2	04 00	06 20	00 00
Balance B		Decrement	BE EF	03	06 00	F2 D3	05 00	06 20	00 00
		Get	BE EF	03	06 00	B9 D3	02 00	07 20	00 00
Keystone_V		Increment	BE EF	03	06 00	DF D3	04 00	07 20	00 00
.,	Decrement		BE EF	03	06 00	0E D2	05 00	07 20	00 00
	Get		BE EF	03	06 00	E9 D0	02 00	0B 20	00 00
Keystone_H	Increment		BE EF	03	06 00	8F D0	04 00	0B 20	00 00
	Decrement		BE EF	03	06 00	5E D1	05 00	0B 20	00 00
		4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
	Set	16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00
Aspect		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
		Default	BE EF	03	06 00	62 D1	01 00	09 20	00 00
Display	Set	Bottom	BE EF	03	06 00	F2 D0	01 00	09 20	01 00
Position at 16 : 9 or Small		Тор	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
		Get	BE EF	03	06 00	0D 83	02 00	00 21	00 00
V.Position		Increment	BE EF	03	06 00	6B 83	04 00	00 21	00 00
		Decrement	BE EF	03	06 00	BA 82	05 00	00 21	00 00
		Get	BE EF	03	06 00	F1 82	02 00	01 21	00 00
H.Position		Increment	BE EF	03	06 00	97 82	04 00	01 21	00 00
		Decrement	BE EF	03	06 00	46 83	05 00	01 21	00 00
		Get	BE EF	03	06 00	B5 82	02 00	02 21	00 00
H.Size		Increment	BE EF	03	06 00	D3 82	04 00	02 21	00 00
		Decrement	BE EF	03	06 00	02 83	05 00	02 21	00 00
		Get	BE EF	03	06 00	49 83	02 00	03 21	00 00
H.Phase	<u> </u>	Increment	BE EF	03	06 00	2F 83	04 00	03 21	00 00
		Decrement	BE EF	03	06 00	FE 82	05 00	03 21	00 00

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Command data chart

							Command data			
Names		Operation type	pe Header CRC			Action Type Setting code				
		Get	BE EF	03	06 00	F1 72	02 00	01 22	00 00	
Sharpness		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	
		Get	BE EF	03	06 00	B5 72	02 00	02 22	00 00	
Color		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	
		Get	BE EF	03	06 00	49 73	02 00	03 22	00 00	
Tint		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	
		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	
Video Format		PAL	BE EF	03	06 00	6E 70	01 00	00 22	05 00	
	Set	SECAM	BE EF	03	06 00	6E 75	01 00	00 22	09 00	
video i offilat		NTSC 4.43	BE EF	03	06 00	5E 72	01 00	00 22	02 00	
		M-PAL	BE EF		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	
	Set	off	BE EF	03	06 00	B6 73	01 00	06 22	00 00	
Video NR	Jei	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	
		off	BE EF	03	06 00	4A 72	01 00	07 22	00 00	
	Set	TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00	
Progressive		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	
		off	BE EF	03	06 00	5E 71	01 00	08 22	00 00	
Black	Set	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	
		1080i	BE EF	03	06 00	F2 73	01 00	05 22	00 00	
HDTV	Set	1035i	BE EF		06 00	62 72	01 00	05 22	01 00	
		Get	BE EF		06 00	C1 73	02 00	05 22	00 00	
		off	BE EF		06 00	FE 22	01 00	00 23	00 00	
	Cat	-								
PinP Size	Set	Large	BE EF		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	

Command data chart

Nomaa		Deprotion type		laadar			Command data			
Names		Operation type		leader		CRC	Action	Туре	Setting code	
		Upper left	BE EF	03	06 00	02 23	01 00	01 23	00 00	
	Set	Upper right	BE EF	03	06 00	92 22	01 00	01 23	01 00	
PinP Position	Set	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	0	RGB	BE EF	03	06 00	BA 22	01 00	03 23	00 00	
	Set	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	
		Video	BE EF	03	06 00	D6 22	01 00	02 23	01 00	
	Set	S-Video	BE EF	03	06 00	26 22	01 00	02 23	02 00	
PinP Input		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			BE EF	03	06 00	6A 93	04 00	00 24	00 00	
FUCUS		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	
20011		Decrement	BE EF	03	06 00	47 93	05 00	01 24	00 00	
	Set	off	BE EF	03	06 00	CB D0	01 00	08 30	01 00	
Sync on G	Set	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	
		NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00	
WHISPER	Set	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	
		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	
GAMMA	Set	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	

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.

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 contaminates 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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