

Operator's Guide

...for projection 9000PD



February 2005 78-6970-9380-1 *Rev. B Copyright* © 2004, 3*M. All Rights Reserved.* (This page intentionally left blank for printed version)

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Thank You for Choosing 3M

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

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

Safety Information

Please read, understand, and follow all safety information contained in these instructions prior to the installation and use of the 3M Digital Wall Display. Retain these instructions for future reference.

Intended Use

Before operating this machine, please read the entire manual thoroughly. The 3M Digital WallDisplay Systems are designed, built, and tested for use indoors, using 3M lamps, 3M 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 or peripheral equipment and/or create a potentially unsafe operating condition.

3M Digital WallDisplay Systems are designed to operate in a normal office environment.

- 16° to 29° C (60° to 85° F)
- 10 to 80% RH (without condensation)
- 0 to 1828 m (0 to 6,000 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 3M Digital WallDisplay.

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

Explanation of Signal Words and Symbols in Safety Labels and Instructions			
WARNING:	Indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury and/or property damage.		
CAUTION:	Indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury and/or property damage.		
Â	Warning: HIGH VOLTAGE		
	Caution: HIGH TEMPERATURE		
	Warning; HIGH PRESSURE		
	Attention: Refer to Safety Instructions in Guides		

To reduce the risk associated with hazardous voltage:

- Do not attempt to service the Wall Display other than performing routine lamp replacement. Service should only be performed by a 3M authorized service provider. Aside from the projection lamp assembly, there are no serviceable parts inside the unit.
- Switch power "OFF" and disconnect the plug from electrical outlet before replacing the lamp. Grasp plug and pull to disconnect.
- Replace the power cord if damaged.
- Always plug this product into a grounded outlet.
- Do not use in a wet environment.

To reduce the risk associated with hazardous voltage and fire:

- Switch power "OFF" and disconnect the plug from electrical outlet whenever the unit is not in use for an extended period of time.
- Use a properly rated extension cord. Consult an electrical professional if you have questions.

To reduce the risk associated with muscle strain and impact:

- Use only the 3MTM brand wall mounting hardware kit if wall mounting is desired.
- Strictly follow all installation instructions when installing or removing the Wall Display onto the wall or portable cart.
- Always use more than one person when installing or removing the Wall Display.
- Always keep cart and Wall Display stable.

To reduce the risks associated with glass dust falling from the projection arm into the eye:

• Do not look up towards the projection arm in the event of lamp breakage.

To reduce the risk associated with high temperature related to a hot lamp assembly:

• Wait at least 45 minutes for the lamp assembly to cool before replacing.

To reduce the risk associated with the release of high pressure related to a hot lamp:

• Wait at least 45 minutes for the lamp assembly to cool before replacing.

To reduce the risk associated with unexpected lamp rupture related hazards:

- Ventilate the area where the lamp rupture occurred. The lamp operates at high pressure and at high temperature.
- Have a 3M authorized service provider replace a ruptured lamp.
- Always handle the fragile lamp module with care.
- Wash your hands thoroughly if you come in contact with lamp debris.
- Replace the lamp module when the lamp replacement message appears.
- Never replace the lamp module with a previously used lamp module.

To reduce the risk associated with choking:

• Keep batteries away from children and pets.

To reduce the risk of associated with environmental contamination, due to mercury in the projection lamp:

• Don't throw the lamp cartridge in the trash. Dispose of the lamp cartridge in accordance with your respective governmental agencies for hazardous waste. For disposal information in the U.S., contact the Electronic Industries Alliance at www.lamprecycle.org. In Canada, contact the Electronic Product Stewardship Canada at www.wpsc.ca.

To reduce the risk of environmental contamination due to lead based solder:

• Don't throw circuit boards in the trash. Dispose of circuit boards in accordance with your respective governmental agencies for hazardous waste.

To reduce the risk associated with radio interference:

• This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

To reduce the risks associated with hazards related to the use of alcohol based cleaners;

• Follow all instructions and recommendations in the Sanford Expo Whiteboard Cleaner Material Safety Data Sheet and product label.

To reduce the risk associated with tripping over cables:

• Position the product's power cord and data cable so that they will not be tripped over.

To reduce the risk associated with chemical leakage, hot battery surface, and battery rupture:

• Use only same type AAA alkaline batteries in remote control.

- Use only same type AA alkaline batteries in presentation pen.
- Use only same type CR2032 Lithium coin batteries in pens and eraser.
- Avoid fire and heat sources above 100° C.
- Do not short circuit batteries.
- Do not attempt to recharge batteries.
- Do not break or disassemble batteries.
- Avoid eye and skin contact, ingestion and inhalation of battery chemicals in the event of a ruptured or broken battery.
- Replace all batteries at the same time.
- Properly orient the plus (+) and minus (-) terminals of the batteries.
- Remove batteries when not used for an extended period of time.

To reduce the risks associated with impact from the projection arm and tripping over the legs of the portable cart:

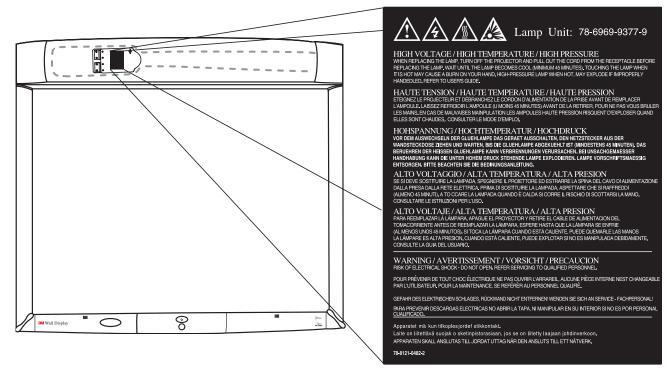
- Do not use this Wall Display around unsupervised children.
- Do not allow children to hang onto the projection arm.

IMPORTANT NOTES

- In some countries, the voltage is not stable. This appliance is designed to operate within a range of 100~240 Vac. In these countries, it is recommended to install a power stabilizer unit.
- Do not manually open or close the projection arm while the 3M Digital Wall Display is in operation.
- Save the shipping box and packing materials in the event the 3M Digital WallDisplay should ever need to be moved.
- For other types of wall material (e.g. wood, concrete, concrete block) use mounting hardware that is properly rated for the weight of the unit and is intended for specific wall material.
- Most of the weight is at the projection head/speakers end of the 3M Digital WallDisplay.
- Use the enclosed cables to ensure image and audio quality. Substituting cables of lesser quality may result in poor image quality or audio noise.
- There is a 30-second reset period before the On/Off Button will function again. During this period, the On/Off Button will flash red.
- If the 3M Digital WallDisplay will not be moved or disconnected, leave the Master Power Switch on for your convenience.
- Do not turn off the Master Power Switch or unplug the power cord before pressing the On/Off Button. After the On/Off Button is pressed, the fan continues for approximately five minutes to cool the 3M Digital WallDisplay.
- The USB or serial mouse cable must be connected between the 3M Digital WallDisplay and the computer when using Mouse mode.
- Avoid excessive heat and humidity. Do not mix old and new batteries or different types of batteries.
- You must hear or feel a distinctive snap to ensure facade is securely attached.
- Do not reset the lamp hours if the lamp cartridge was not changed. This can damage internal components.
- Before continuing with this adjustment, move the arm assembly up and down to relieve any stress and see if the arm will realign itself and project an aligned image.
- After making adjustments it may be necessary to perform the side to side adjustment to center the image properly.

Product Safety Label

The following safety label is used on or within the 3M Digital WallDisplay to alert you to this area requiring your attention.



Save These Instructions

The information contained in this manual will help you operate and maintain your 3M Digital WallDisplay.

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Patents

3M Digital WallDisplay is protected by Utility Patent 6,179,426 and Design Patent D442,205.

Other patents pending.

3M Digital WallDisplay Technical Support

- In U.S. or Canada: 1-800-328-1371
- Web Site: http://www.3M.com/walldisplay

FCC Statement—Class A

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Instructions to Users

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Notice

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

EEC Statement—Class A

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

Video Signal Cables

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

Video Inputs

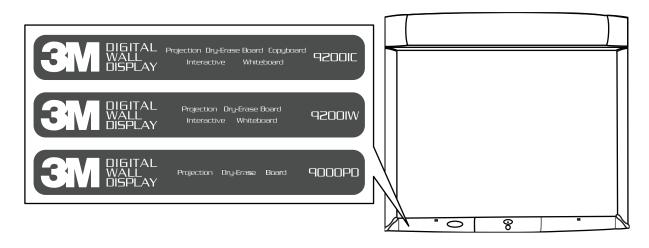
The input signal amplitude must not exceed the specified level.

(See Appendix for these levels.)

Model Identification and Differences

Identify Model

The nameplate, located behind the storage door, identifies the 3M Digital WallDisplay (DWD). Push the storage door to open it. The figure below shows the nameplate, and the table shows the model numbers and corresponding model names.



Model Number	Model Name	
9000PD	3M Digital WallDisplay 9000PD for Projection Display	
9200IC	3M Digital WallDisplay 9200IC with Interactive Collaboration	
9200IW	3M Digital WallDisplay 9200IW with Interactive Whiteboard	

Model Differences

Below is a table that identifies the differences between the 3M Digital WallDisplay models.

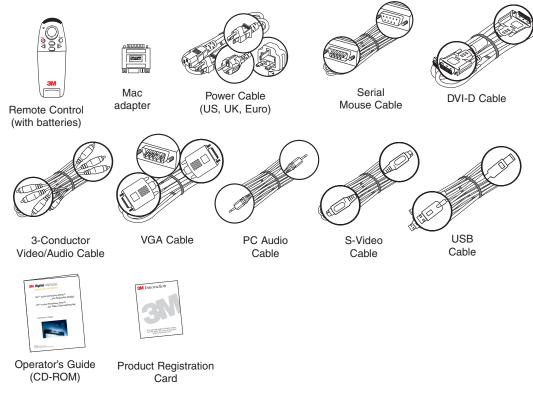
Model Number	Projection Screen	Copyboard*	Interactive Whiteboard**
9000PD	Easy Dry-Erase and Projection	NO	NO
9200IW		NO	YES
9200IC		YES	YES

*The Copyboard feature allows you to print notes written on the 3M Digital WallDisplay to an attached printer. (PCL3 compatible printer required. See list in Appendix.)

**The Digital Whiteboard feature allows you to capture notes written on the 3M Digital WallDisplay with an attached computer or use the 3M Digital WallDisplay as an interactive display for a computer.

Contents

The 3M Digital WallDisplay is shipped with the necessary cables required for standard VCR, PC, Macintosh or laptop computer connections. Carefully unpack and verify that you have all of the items shown below. If any are missing, please contact your place of purchase.



Optional Accessories

- Accessory Tray/Laptop Shelf
- Easy-Erase Screen
- Replacement Lamp Kit
 Extended Warranty
- *Note:* Save the shipping box and packing materials in the event the 3M Digital WallDisplay should ever need to be moved.

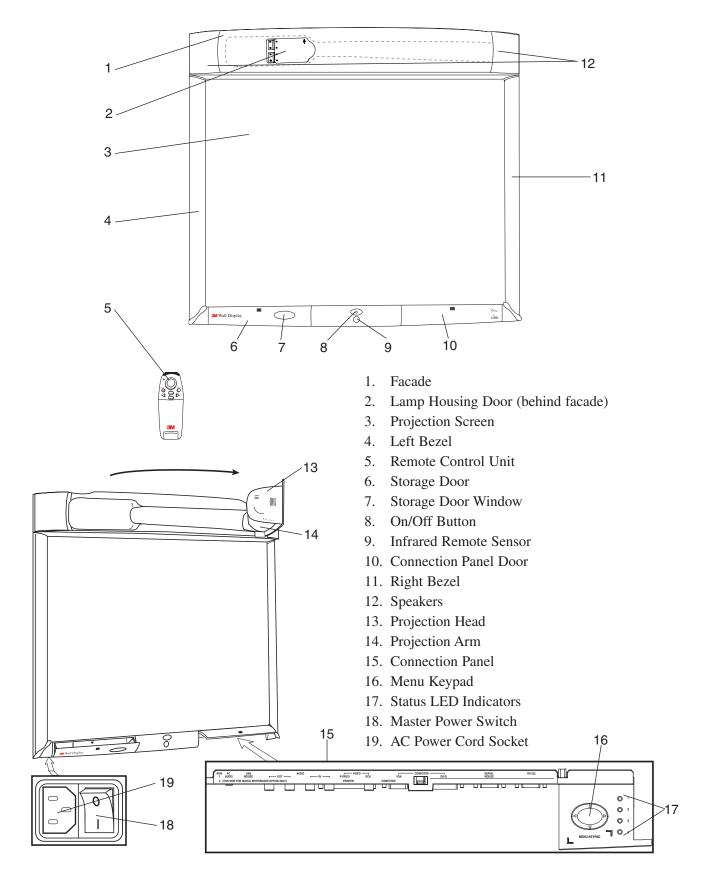
What's Next?

After the 3M Digital WallDisplay has been installed in your meeting room, you are ready to set it up.

Please read this guide thoroughly before operating your new 3M Digital WallDisplay.

Be sure to check our web site (www.3M.com/walldisplay) regularly for updates and supplemental information.

Part Identification



3M Digital WallDisplay Features

The 3M Digital WallDisplay combines the following features into one sleek, sophisticated package.

- Full connectivity for computer or video presentations
- Large 60["] diagonal screen
- 4:3 screen aspect ratio matches business applications and viewing data
- Flat screen allows extra wide (up to 170°) viewing angles
- Projection arm position guarantees image is in focus every time
- · Allows presenter to move without blocking image
- Built-in, powerful stereo speaker system
- Single button operation
- Hand-held remote control for most functions

Installation and System Setup

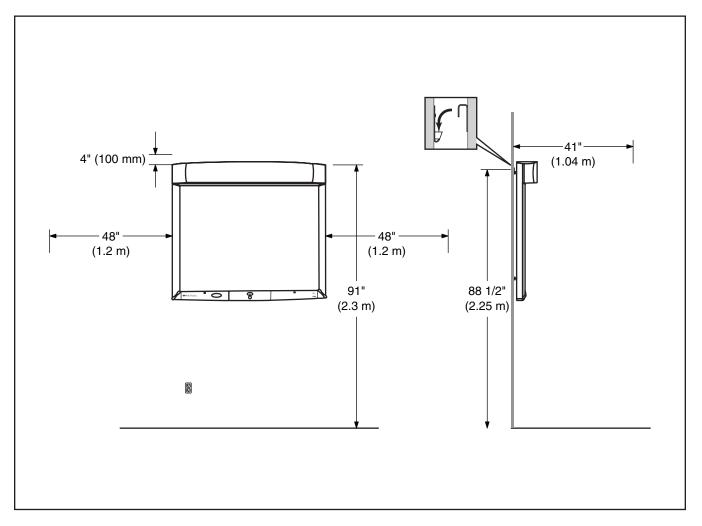
Recommendation and Things to Consider Before Installing

Location of Unit

- Place near AC outlet. The AC power connection is located on the lower-left corner of the 3M Digital WallDisplay (the unit). The AC power cord supplied with the unit is 6 feet (2 m) long.
- Service and screen replacement The projection screen is removed from the side of the unit during replacement or service. For ease of replacement and access, position the unit 48 inches from the nearest obstruction or adjacent wall.
- Low-hanging lights The projection arm extends 3 1/3 feet from the unit while in operation. Ensure that the projection arm will not come in contact with low-hanging light fixtures.

Air Ventilation

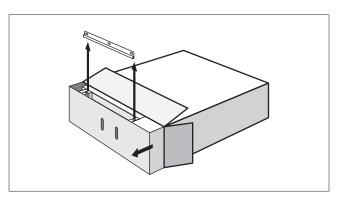
- Minimum clearance around the unit should be 4 inches.
- Air Vents keep the air vents clear of objects and dust.



Installing the Wall Bracket

Unpacking Wall Bracket and Hardware

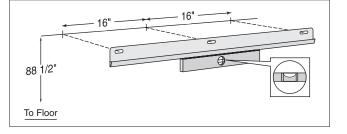
- 1. Place the shipping container face up on the floor.
- 2. Open the end of the shipping container.
- 3. Slide the shipping tray partially out the container.
- 4. Locate and Remove the wall bracket and hardware. The hardware is taped to the wall bracket.

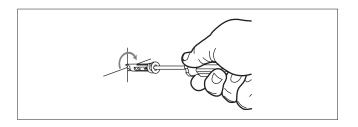


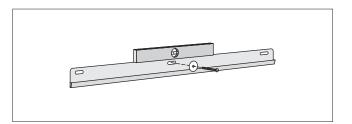
Installation for a Hollow Wall-Drywall

- 1. Determine the desired location of the unit. Locate all wall studs in area.
- 2. While holding the bracket in place, use a carpenter's level to ensure the proper level and then mark the three hole locations on the wall. Ensure that no studs are behind the hole locations.
- 3. Using a Phillips screw driver, screw the supplied anchors into the wall until they are flush with the wall surface.
- Align the wall bracket holes over the wall anchors and secure with the washer and anchor screws. Confirm that the wall bracket is level before tightening the screws.

Note: For other types of wall material (e.g. wood, concrete, concrete block) use mounting hardware that is properly rated for the weight of the unit and is intended for specific wall material.

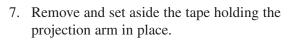




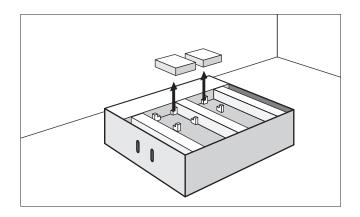


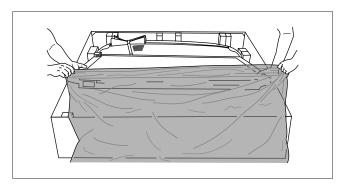
Hanging the 3M Digital WallDisplay Unpacking the 3M Digital WallDisplay

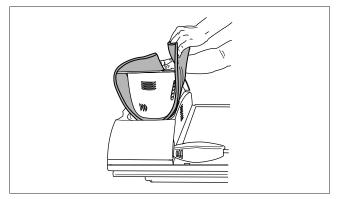
- 1. Place the shipping container face up on the floor and open the end previous opened.
- 2. Slide the shipping tray out of the shipping container.
- 3. Remove the accessory box(es) from the top support.
- 4. Remove the top support.
- 5. Remove the plastic bag from the 3M Digital WallDisplay by lifting the top of the unit and pushing the bag towards the bottom of the unit. Then set down the top.
- 6. Lift up the bottom and remove the bag completely.



- 8. Remove the projection arm shipping foam, by opening the projection arm from the left.
- 9. Replace the tape to hold the projection arm in place while hanging on the wall.



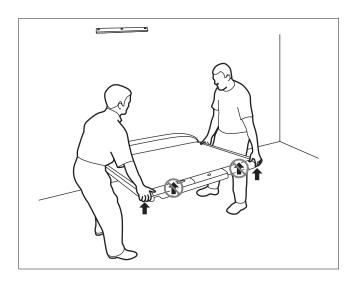




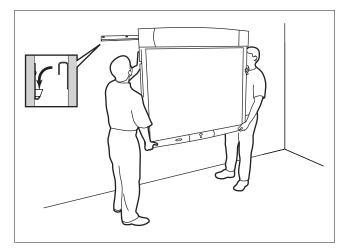
Hanging on the Wall

- 1. If possible, position the 3M Digital WallDisplay and shipping tray in front of the wall where the bracket is located. Position the unit so that the projection arm is closest to the wall.
- 2. Clear the path from the unit to the wall where it will be hanging.

Note: Most of the weight is at the projection head/ speakers end of the 3M Digital WallDisplay.



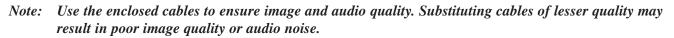
- 3. With one person holding each side of the unit, carefully lift it into position so that the bracket slot is above the wall bracket. Ensure that the unit is securely in place before releasing.
- 4. Remove the tape from the projection arm.

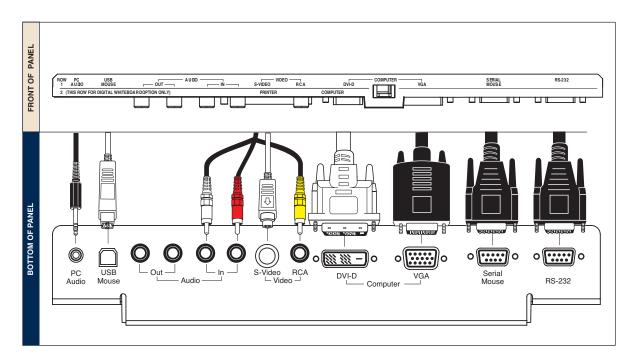


System Setup

It only takes a few minutes to connect the 3M Digital WallDisplay to your computer, VCR, DVD player, video conference unit, or other devices.

The connection panel is located underneath the bottom right corner of the 3M Digital WallDisplay, under the Connection Panel Door. Press and release door to access connection panel.



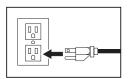


PC Audio	Connects to the computer's audio output and provides audio for VGA and DVI-D (Digital Visual Interface - Digital only) inputs.	
USB Mouse	Connects to the computer's USB port and provides wireless mouse control using the 3M Digital WallDisplay remote control Disk Pad button.	
Audio Out	Connects to an external audio amplifier and provides audio from the active audio source.	
Audio In	Connects to the audio output of a video device (e.g. VCR or DVD), and provides audio for both S-Video and RCA video inputs.	
S-Video	Connects to an S-Video output signal.	
RCA Video	Connects to a composite video device.	
DVI-D	Connects to a computer that supports the DVI-D interface.	
VGA	Connects to the VGA or monitor Out port of a computer.	
Serial Mouse	Connects to a computer's 9-pin serial port and provides wireless mouse control using the 3M Digital WallDisplay remote control Disk Pad button.	
RS-232	Connects to a control device's serial port and provides control of the 3M Digital WallDisplay using RS-232C protocol and the specified serial commands.	

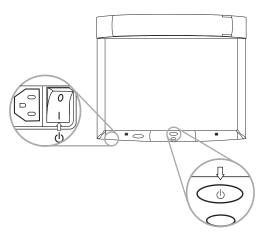
Operation

Startup

1. Plug power cord into wall socket.



2. Flip on the **Master Power Switch** beneath the lower left corner of the 3M Digital WallDisplay, near the 3M label. This should stay on at all times. Now the 3M Digital WallDisplay is in standby mode. The large oval **On/Off Button** will be backlit amber after several seconds.

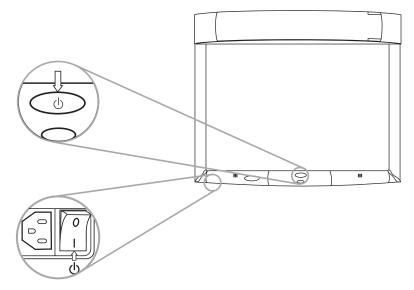


- 3. Press the **On/Off Button** in the center of the lower front panel. The projection arm will extend outward from its housing at the top of the 3M Digital WallDisplay unit. Do not block its movement.
- 4. When the projection arm is fully extended, the lamp will turn on automatically. It will reach full illumination in approximately 60 seconds. The **On/Off Button** should then be backlit green.

Shutdown

- 1. Press the **On/Off Button** on the bottom center panel of the 3M Digital WallDisplay unit.
- 2. The lamp will turn off and the projector arm will return to its housing. The **On/Off Button** will flash red as the arm closes.
 - *Note:* There is a 30-second reset period before the On/Off Button will function again. During this period, the On/Off Button will flash red.

The fan will continue to run for approximately five minutes to cool the unit.



Note: If the 3M Digital WallDisplay will not be moved or disconnected, leave the Master Power Switch on for your convenience.

Do not turn off the Master Power Switch or unplug the power cord before pressing the On/Off Button. After the On/Off Button is pressed, the fan continues for approximately five minutes to cool the 3M Digital WallDisplay.

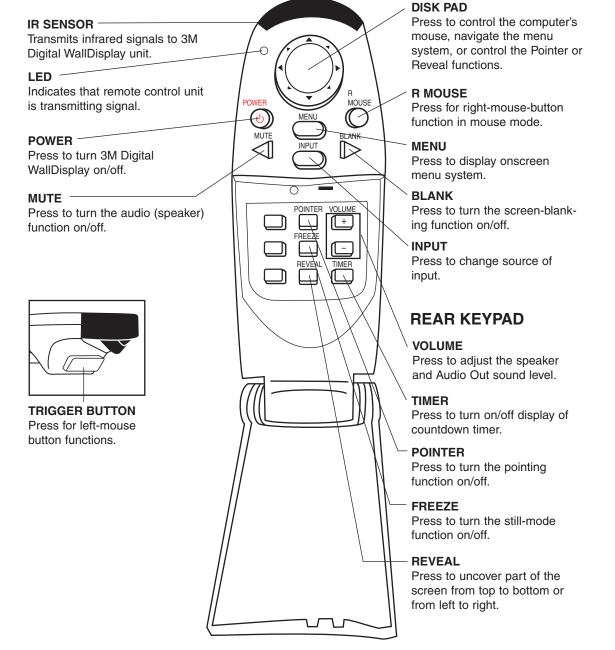
Remote Control Unit

Features

The remote control sensor is on the front lower panel of the 3M Digital WallDisplay unit. The distance between the sensor and remote control must be shorter than 4 meters (13 feet).

The remote control unit has two keypads. The Forward keypad is above the flip-top cover. The Rear keypad is beneath the cover. The **Trigger Button** is underneath the front IR Sensor of the remote control unit and can be pressed easily with the index finger.

FORWARD KEYPAD



Forward Keypad

Power

Press to turn the 3M Digital WallDisplay on/off. When power is turned on, the 3M Digital WallDisplay will automatically extend the projection arm and ignite the lamp.

Mute

Press to temporarily turn off the sound. Press again or press the Volume + or - buttons to restore sound.

Disk Pad

Press to:

- control the computer's mouse when using the Mouse function.
- select menu items and adjust values in the onscreen menu system.
- control the Pointer position while using the Pointer function.
- control the path of the Reveal function.

While using the onscreen menu system or Pointer function, the computer Mouse function is temporarily disabled. To regain computer mouse control, turn off the current function or the onscreen menu system.

Note: The USB or serial mouse cable must be connected between the 3M Digital WallDisplay and the computer when using Mouse mode.

R Mouse

Acts as the right-mouse button when the mouse function is active.

Menu

Press to display the onscreen menu system. Press again to conceal the onscreen menu system.

Blank

Press to make the screen go blank. Press again to return to normal display function.

Input

Press to change the source of input for 3M Digital WallDisplay. The **Input** button cycles between Computer, DVI, Composite Video (RCA jacks), and S-Video.



Rear Keypad

Pointer

Press to turn the pointing function on/off. A green dot will appear on the screen. The dot can be controlled by pressing the arrows on the **Disk Pad**.

Volume

Press the + button to increase or the - button to decrease the speaker loudness level. When the audio is muted, the **Volume** + or - buttons will also cancel the Mute function.

Timer

Press to turn the timing function on/off. The timer will display on the screen and begin to count down. To change the Timer value, refer to the **On Scrn Timer** sub-menu in the **Tools** menu.

Freeze

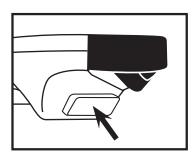
A moving image can be stilled or 'frozen' when the **Freeze** button is pressed. To release the Freeze function, press the **Freeze** button again.

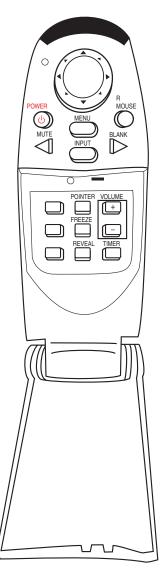
Reveal

Press to turn the screen-reveal function on/off. Press the **Disk Pad** in the desired reveal direction (e.g. press down to reveal from the top down, etc.).

Trigger Button

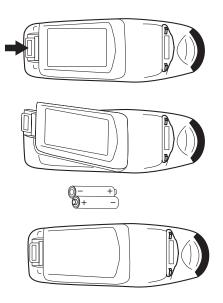
On the underside of the remote control unit, beneath the IR sensor, press button for left-mouse-button functions.





Installing or Replacing Batteries

- 1. Push and slide the battery compartment tab in the direction shown, then lift it off.
- 2. Install two AAA batteries as indicated by the diagram inside the compartment.
- 3. Snap the battery compartment cover back on.

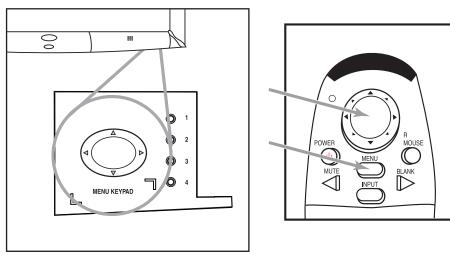


Note: Avoid excessive heat and humidity. Do not mix old and new batteries or different types of batteries.

Menu System

Menu Navigation

Most adjustments and settings are available in the main menu and sub-menus. To navigate and make adjustments, use the 3M Digital WallDisplay's **Menu Keypad** button or the remote control's **Menu** and **Disk Pad** buttons.



Colorful—Bright Slider

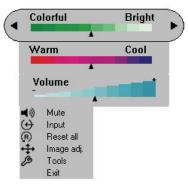
The **Colorful—Bright** slider adjusts the brightness, contrast, and color saturation levels simultaneously. Move the slider toward **Colorful** to achieve maximum color saturation and contrast. Move the slider toward **Bright** to achieve maximum brightness.

To adjust the Colorful—Bright slider:

1. Open the menu system by pressing the remote control Menu button or any arrow on the Menu Keypad.

2. Select the **Colorful—Bright** slider by pressing the up or down arrows on the remote control **Disk Pad** or **Menu Keypad**.

- 3. Move the slider by pressing the left or right arrow of the Disk Pad or Menu Keypad.
- 4. Close the menu system by pressing the **Menu** button or scrolling to **Exit** and selecting it with the right arrow of the **Menu Keypad**.

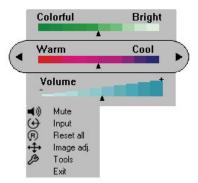


Warm—Cool Slider

The **Warm—Cool** slider adjusts the color temperature. Move the slider toward **Warm** to achieve warmer, more reddish images. Move the slider toward **Cool** to achieve cooler, more bluish images.

To adjust the Warm—Cool slider:

- 1. Open the menu system by pressing the remote control Menu button or any arrow on the Menu Keypad.
- 2. Select the Warm—Cool slider by pressing the up or down arrows on the remote control Disk Pad or Menu Keypad.
- 3. Move the slider by pressing the left or right arrow of the Disk Pad or Menu Keypad.
- 4. Close the menu system by pressing the **Menu** button or scrolling to **Exit** and selecting it with the right arrow of the **Menu Keypad**.

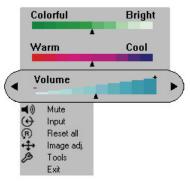


Volume Slider

The **Volume** slider adjusts the speaker and audio output sound level. Move the slider toward the right to increase the sound. Move the slider toward the left to decrease the sound.

To adjust the Volume slider:

- 1. Open the menu system by pressing the remote control Menu button or any arrow on the Menu Keypad.
- 2. Select the **Volume** slider by pressing the up or down arrows on the remote control **Disk Pad** or **Menu Keypad**.
- 3. Move the slider by pressing the left or right arrow of the Disk Pad or Menu Keypad.
- 4. Close the menu system by pressing the **Menu** button or scrolling to **Exit** and selecting it with the right arrow of the **Menu Keypad**.

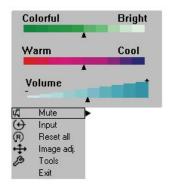


Mute Menu Function

The Mute menu function turns the sound on and off.

To turn the Mute menu function on:

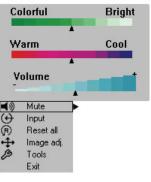
- 1. Open the menu system by pressing the remote control Menu button or any arrow on the Menu Keypad.
- 2. Select the **Mute** menu function by pressing the up or down arrows on the remote control **Disk Pad** or **Menu Keypad**.
- 3. Turn the **Mute** function on by pressing the left or right arrow of the **Disk Pad** or **Menu Keypad**. The sound will turn off.
- 4. Close the menu system by pressing the **Menu** button or scrolling to **Exit** and selecting it with the right arrow of the **Menu Keypad**.



Mute function ON

To turn the Mute menu function off:

- 1. Open the menu system by pressing the remote control Menu button or any arrow on the Menu Keypad.
- 2. Select the **Mute** menu function by pressing the up or down arrows on the remote control **Disk Pad** or **Menu Keypad**.
- 3. Turn the **Mute** function off by pressing the left or right arrow of the **Disk Pad** or **Menu Keypad**. The sound will turn on.
- 4. Close the menu system by pressing the **Menu** button or scrolling to **Exit** and selecting it with the right arrow of the **Menu Keypad**.



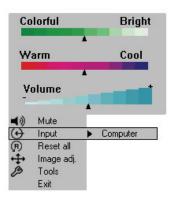
Mute function OFF

Input Select Menu

The **Input Select** menu defines the displayed video source. When **Input Select** menu is selected, the current video source is shown. The **Input** options are: Computer (VGA Input), DVI-D, S-Video, Comp. Video (RCA Video Input), and No Signal. An Input option is available to select when an active video source is connected to the 3M Digital WallDisplay input connection.

To set the **Input Select** menu:

- 1. Open the menu system by pressing the remote control **Menu** button or any arrow on the **Menu Keypad**.
- 2. Select the **Input Select** menu function by pressing the up or down arrows on the remote control **Disk Pad** or **Menu Keypad**.
- 3. Press the right arrow of the Disk Pad or Menu Keypad repeatedly until the desired input option is shown.
- 4. Activate the input option by pressing the left arrow of the Disk Pad or Menu Keypad.
- 5. Close the menu system by pressing the **Menu** button or scrolling to **Exit** and selecting it with the right arrow of the **Menu Keypad**.



Reset All Menu

The Reset All menu function sets all menu settings to their default settings.

To turn the **Reset All** menu function on:

- 1. Open the menu system by pressing the remote control **Menu** button or any arrow on the **Menu Keypad**.
- 2. Select the **Reset All** menu function by pressing the up or down arrows on the remote control **Disk Pad** or **Menu Keypad**.
- 3. To activate the Reset All function, press the right arrow of the Disk Pad or Menu Keypad.
- 4. Close the menu system by pressing the **Menu** button or scrolling to **Exit** and selecting it with the right arrow of the **Menu Keypad**.

Co	lorful		Bright
w	arm	•	Cool
<u>v</u>	olume	*	
■ ®)	Mute Input	Г	
₽ ₽ ₽	Reset all Image adj. Tools Exit	•	resetting

Image Adj Sub-Menu

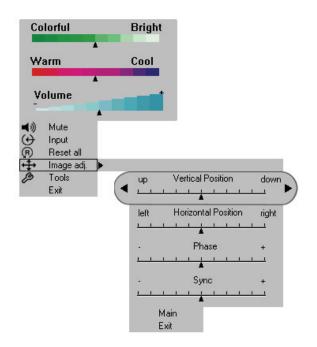
The **Image Adjustment** sub-menu adjusts the projected image settings for the VGA and DVI-D inputs. Use the **Vertical Position** and **Horizontal Position** sliders to reposition an image if portions are not visible. Use the **Phase** and **Sync** sliders to eliminate vertical banding and noise.

Vertical Position	Adjusts the vertical position of the projected image.	
Horizontal Position	Adjusts the horizontal position of the projected image.	
Phase	Adjusts the pixel sampling. Use this to reduce image noise and flicker.	
Sync	Adjusts the expected pixel number in a single video line. Use this to eliminate banding.	
Main	Returns to main menu.	
Exit	Leaves the menu system.	

To open the **Image Adj** submenu:

- 1. Open the menu system by pressing the remote control Menu button or any arrow on the Menu Keypad.
- 2. Select the **Image Adj** sub-menu by pressing the up or down arrows on the remote control **Disk Pad** or **Menu Keypad**.
- 3. To open the Image Adj sub-menu, press the right arrow of the Disk Pad or Menu Keypad.
- 4. Scroll to the desired slider and move it to the right or left as needed.
- 5. Close the menu system by pressing the **Menu** button or scrolling to **Exit** and selecting it with the left or right arrow of the **Menu Keypad**.

To return to the main menu, select Main and press the left or right arrow of the Disk Pad or Menu Keypad.



Tools Sub-Menu

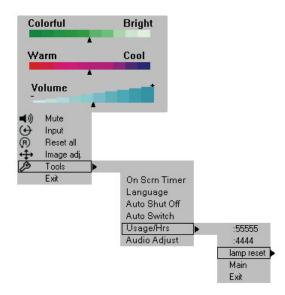
The Tools sub-menu provides access to the following settings and tools:

Onscreen Timer	Allows you to set a timer and display it onscreen.	
Language	Selects which language to use for onscreen commands. (Default language is English.) It cycles between English, German, Spanish, Italian, and French.	
Auto Shutoff	Will automatically turn off the 3M Digital WallDisplay within the time desired. (Default time is 0 minutes.)	
Auto Switch	When an input source is lost or disconnected, Auto Switch automatically detects and switches to the next available input source. When Auto Switch is disabled, press the Input button on the remote control to select the next available input source.	
Usage/Hrs	Displays and/or resets 3M Digital WallDisplay's and lamp's operating time, in number of hours.	
Audio Adjust	Allows you to adjust the bass and treble.	

To open the **Tools** sub-menu:

- 1. Open the menu system by pressing the remote control Menu button or any arrow on the Menu Keypad.
- 2. Select the **Tools** sub-menu by pressing the up or down arrows on the remote control **Disk Pad** or **Menu Keypad**.
- 3. To open the Tools sub-menu, press the right arrow of the Disk Pad or Menu Keypad.
- 4. Scroll to the desired item and adjust as needed.
- 5. Close the menu system by pressing the **Menu** button or scrolling to **Exit** and selecting it with the right arrow of the **Menu Keypad**.

To return to the main menu, select Main and press the left or right arrow of the Disk Pad or Menu Keypad.



Maintenance

General Maintenance

For general cleaning of the screen and exterior of the 3M Digital WallDisplay, use a damp cloth or dry cleaning cloth such as the 3M High Performance Cleaning Cloth.

Standard dry-erase cleaners may be used on the dry-eraseable screens, such as Sanford[®] Expo[®] Whiteboard Cleaner. Do not use other spray cleaners or solvents on any part of the 3M Digital WallDisplay.



Lamp Usage

Use and Replacement of Lamp

The 3M Digital WallDisplay lamp has a normal operating time of approximately 1600 hours, called the lamp life. After the lamp has been operating for 1400 hours or longer, the following messages will appear on the screen for the first three minutes of operation. When this happens, turn off the 3M Digital WallDisplay and replace the lamp with a new one. Using an old lamp in the 3M Digital WallDisplay could cause a malfunction.

Onscreen Lamp Messages

PLEASE CHANGE THE LAMP

The lamp has been in use for 1400–1499 hours and needs to be changed. After replacing the lamp, reset the lamp timer.

THERE ARE (x) HOURS OF LAMP LIFE REMAINING THE WALLDISPLAY WILL SHUT OFF IN 40 MINUTES

The lamp has been in use for 1500–1579 hours, and the power will turn off after 40 more minutes. After replacing the lamp, reset the lamp timer.

THERE ARE (x) HOURS OF LAMP LIFE REMAINING THE WALLDISPLAY WILL SHUT OFF IN 5 MINUTES

The lamp has been in use for more than 1580 hours, and the power will automatically turn off after 5 minutes. After replacing the lamp, reset the lamp timer.

All of these messages will display for no longer than three minutes, but each will display whenever you turn the lamp on again, until the lamp is replaced.

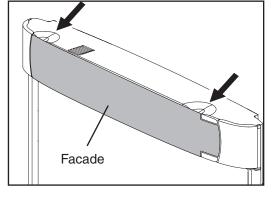
For lamp-changing instructions, please refer to the next page.

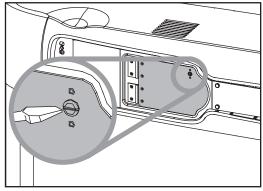
Lamp Replacement

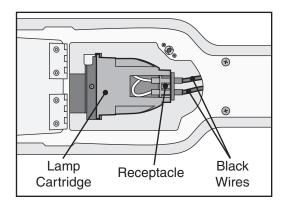
- 1. Turn the power off and disconnect the power cord from the outlet.
- 2. Allow approximately 45 minutes for the lamp to cool, if necessary.
- 3. There are two indentations behind the top of the facade, near each end. Grasp facade plate at each indentation and pull out and down to remove plate.

4. Loosen the self-contained screw at the upper righthand corner of the lamp housing door with a standard screwdriver.

5. Two black wires connect to the lamp cartridge by a black plastic receptacle on the right side of the lamp cartridge.







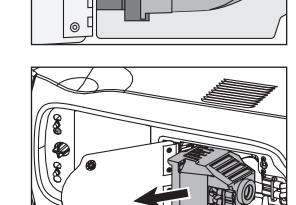
Maintenance

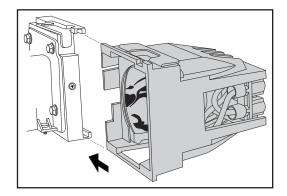
5a. Hold down this receptacle with your left thumb and (5b) pull connectors out of the receptacle with other hand.

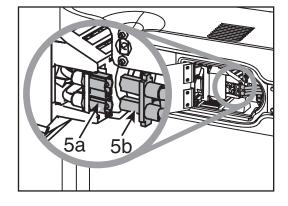
6. Open the latch by moving the metal lever to the left.

7. While holding the latch open, grasp the lamp cartridge and pull it straight out of the lamp compartment.

- 8. Holding the latch open, slide the new lamp cartridge into place.
- 9. Reconnect black wires to the receptacle.
- 10. Close the lamp housing door and tighten the screw.







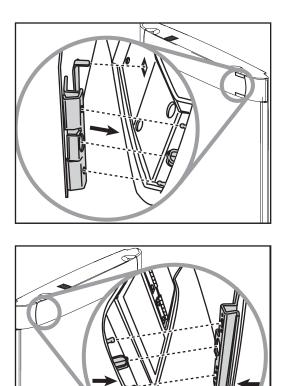
Lever

0

0

0

11. Align the slots and tabs of the right side of the facade and projection arm as shown, then snap firmly into place.



12. Align the slots and tabs of the left side of the facade and projection head as shown, then snap firmly into place.

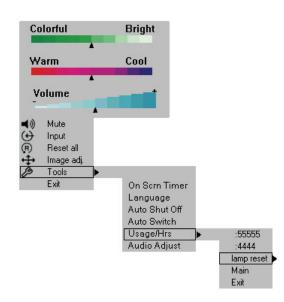
Note: You must hear or feel a distinctive snap to ensure facade is securely attached.

Whenever the lamp is replaced, please reset the total lamp operating time. (Refer to next page.)

Resetting Lamp Hours

Please do the following within 10 minutes of turning power on after you replace the lamp.

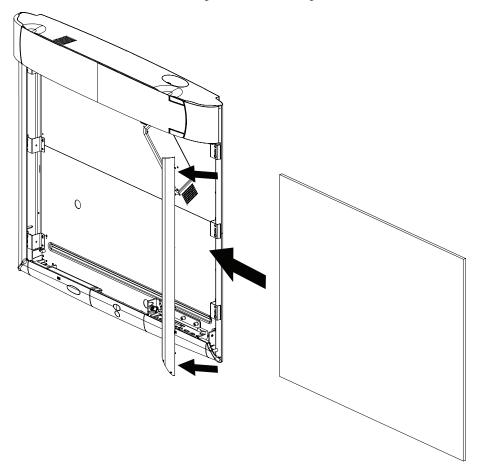
- 1. Press the **Menu Keypad** or the **Menu** button on the remote control and use the **Disk Pad** to scroll down to the **Tools** menu.
- 2. In the **Tools** menu, scroll down the pop-up list to **Usage/Hrs** to display the total operating time of the lamp.
- 3. Select Lamp Reset from the next pop-up list.
- 4. Select Exit.
- *Note:* Do not reset the lamp hours if the lamp cartridge was not changed. This can damage internal components.
- Important Note: This lamp contains mercury. Don't throw lamp cartridge in the trash. Dispose of the lamp cartridge in accordance with your respective governmental agencies for hazardous waste. For disposal information in the US, contact the Electronic Industries Alliance at www.lamprecycle.org. In Canada contact the Electronic Product Stewardship Canada at www.wpsc.ca.



Replacing ProjectionScreen

Replacing the 3M Digital WallDisplay screen is very simple.

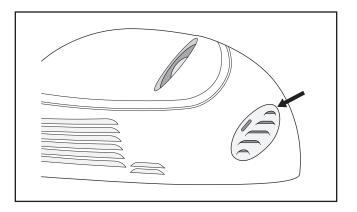
- 1. Turn off the 3M Digital WallDisplay and disconnect the power cord from the wall outlet.
- 2. Remove the right and left side bezels. There are two ways to remove it. Either snap it off or insert a screwdriver into the notch located on the sides of each bezel, near the top. The bezel will easily snap on and off for screen replacement.
- 3. Slide the screen straight out of the open side. Be sure to allow approximately 4 feet of clear space on either side of the 3M Digital WallDisplay to do this.
- 4. Insert new screen into the open side and slide into place. Ensure that the screen is centered before replacing the side bezels. The bezels have ribs on the inside that could damage the screen if it is not centered.
- 5. Insert the bottom of the bezel first, then snap bezel back into place.



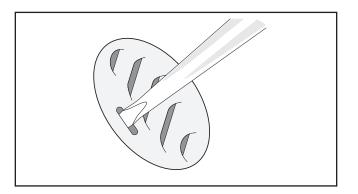
Optical Engine Adjustment

The optical engine needs to be aligned when the vertical or horizontal images do not cover the screen or are tilted.

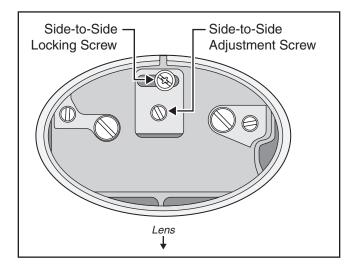
- Note: Before continuing with this adjustment, move the arm assembly up and down to relieve any stress and see if the arm will realign itself and project an aligned image.
- 1. Locate the access door on the under side of the projection arm.



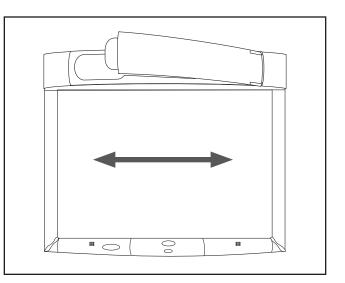
2. Slide the door release catch to the open position using the blade of a small screwdriver. Carefully lift outward to remove the optical engine door.



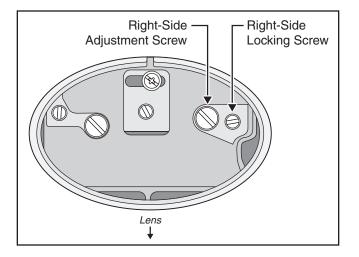
3. Locate adjustment screw for side to side screen adjustment. Locate locking screw for side to side adjustment.



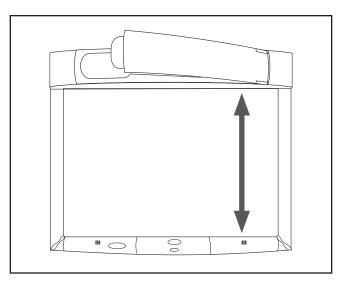
4. Loosen locking screw. Then use blade screwdriver on adjustment screw to move screen image from side to side if required. Tighten locking screw.



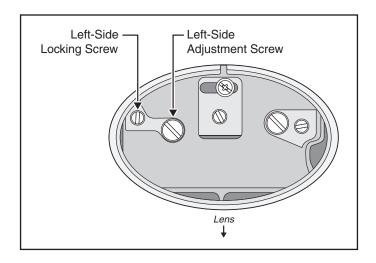
5. Locate adjustment screw for right side screen adjustment. Locate locking screw for right side adjustment.



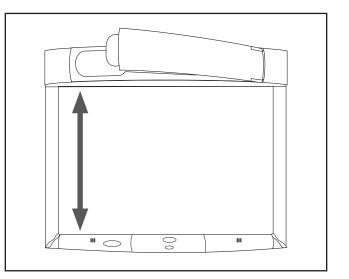
6. Loosen locking screw. Then use blade screwdriver on adjustment screw to move right side screen image up and down if required. Tighten locking screw.



7. Locate adjustment screw for left side screen adjustment. Locate locking screw for left side adjustment.



- 8. Loosen locking screw. Then use blade screwdriver on adjustment screw to move left side screen image up and down if required. Tighten locking screw.
- Note: After making adjustments it may be necessary to perform the side to side adjustment to center the image properly.



9. Replace the optical adjustment door.

Troubleshooting

Common Problems and Solutions

Symptom	Cause	Solution
Power cannot be turned on.	The power cord is disconnected.	Insert the power cord into an AC socket.
	The Master Power Switch is not turned on.	Turn on the Master Power Switch.
	The arm facade is not in place.	Make sure the arm facade is in place.
No picture or sound	The desired input source is not selected.	Press the remote control Input button to select a desired input source.
	The cables from the input source are not connected.	Connect the cable to correct input source.
	The input source is not turned on or not displaying an image. (e.g. If a notebook computer, the external monitor port is not turned on.)	Turn on input source
The lamp will not ignite or has turned off.	The internal temperature is too high.	Clear blocked ventilation holes.
	The lamp has reached maximum life or has prematurely failed.	Replace lamp.
The projection arm opens, then closes.	The lamp will not ignite.	Replace lamp.
Sound is heard with no picture.	The VGA/Video cables are not connected.	Connect the cables to the correct input source.
	The VGA/Video/Audio cables are connected to the wrong input.	
Picture is displayed with no sound	The VGA/Video cables are not connected. The audio cables are connected to the wrong input.	Connect the cables to the correct input source.
	The volume is set to Minimum.	Turn up Volume .
	The Mute is on.	Turn off Mute .
Picture is dark.	The Colorful—Bright setting must be adjusted.	Adjust Colorful—Bright slider setting.
	The lamp needs to be replaced.	Replace lamp.

Common Problems and Solutions

Symptom	Cause	Solution
Desired input source cannot be detected.	The input source is not active. A signal must be present for the input to be selected.	Connect an active input source to unit.
	The input device (e.g. computer, VHS player, etc.) is not turned on.	Turn on input source
The remote control does not work	The remote control is not facing the remote control sensor.	Face the remote control toward the remote control sensor.
	The remote control is too far from the sensor.	Operate the remote control within 5 meters.
	An obstruction is between the remote control and the sensor.	Remove obstacle.
	The remote control's batteries are exhausted.	Replace batteries.
The menu system will not display.	The menu system will not display without an input source displayed.	Connect an active input source to unit.

Onscreen Messages

Message	Meaning
No input is detected	3M Digital WallDisplay is not receiving a signal from an external source. Check the cable connections and verify power is on and external source is working.
Please change the lamp	The lamp has 1400–1499 hours on it and needs to be changed.
There are (x) hours of lamp life remaining. The WallDisplay will shut off in 40 minutes	The lamp has 1500–1579 hours on it and needs to be changed.
There are (x) hours of lamp life remaining. The WallDisplay will shut off in 5 minutes	When the lamp has 1580 hours or more on it, the message will flash, and the power will turn off after 5 minutes.

Service Information

Replacement Parts

	Description	Part Number
	Power Cord (EU)	78-8131-0004-3
	Power Cord (US)	78-8131-0005-0
	Power Cord (UK)	78-8131-0003-5
	Serial Mouse Cable	26-1015-0423-6
	USB Cable	26-1015-0424-4
	VGA Cable	26-1015-0425-1
	DVI-D Cable	26-1015-0418-6
	PC Audio Cable	26-1015-0420-2
	S-Video Cable	26-1015-0422-8
	Replacement Lamp	78-6969-9736-6
	Remote Control Unit	78-8121-0330-3
	Macintosh Adapter	26-1015-0419-4
	3-Conductor Video/Audio Cable	26-1015-0421-0
	Easy Erase Screen	78-6969-9469-4
	3M Vikuiti High Brightness Screen	78-6969-9471-0
Optic	onal Accessories	
	Accessory Tray (right side)	78-6969-9753-1
	Accessory Tray (left side)	78-6969-9754-9

Ordering Parts or Getting Information

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

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

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Appendix

3M[™] Digital WallDisplay Specifications

Display Size		60" Diagonal viewing area	
Display Aspect Ratio		4:3	
Display System		Single Chip, DLP™ Texas Instruments technology	
	Chip Diagonal Size	0.7 inch	
DLP Chip	Number of Pixels	1024 x 768 pixels	
Color	<u>.</u>	24-bit full color	
Contrast Ratio		150:1	
Dimensions		47.6" H x 53.2" W x 7.0" D (1208 mm x 1350 mm x 179 mm)	
Weight		Approx. 85 lbs.	
Video Compatibility		NTSC, NTSC 4.43, PAL, PAL-N, PAL-M, SECAM	
Computer Video Compatibility		VGA to SXGA	
Mouse Emulation		PC serial mouse, ADB and USB	
	Computer Input Signals	Analog RGB: 15-pin mini D-Sub	
		Digital RGB: DVD-D (digital only)	
		Audio: 3.5 mm stereo mini-jack	
Input/Output Terminal	Video Input Signals	S-Video: Mini DIN 4-pin	
	Audio Out	RCA jacks	
	RS-232 Control Port	9-pin D-Sub	
	Mouse Emulation Port	9-pin D-Sub	
Audio System	Amplifier (to speakers)	20 Watts per channel	
Audio System	Speakers	40 Watts Max., 8 ohms	
Power Requirements		100~240 VAC, 50/60 Hz, 400 Watts Max.	

Input/Output Signal Specifications

	Video Signal		Analog 0.7Vp-p, 75 Ohms termination (positive polarity)
	Horizontal Sync Signal		TTL Level (positive/negative polarity)
Computer	Vertical Sync Signal		TTL Level (positive/negative polarity)
	Audio Input Signal		200m Vrms, 20k Ohms (Max 3.0Vp-p)
	Audio Output Signal		0~200m Vrms, 1k Ohms
	S-Video	Luminance Signal	1.0Vp-p, 75 Ohms
Video		Chrominance Signal	0.286Vp-p (color burst), 75 Ohms
Video	Video Signal		1.0Vp-p, 75 Ohms
	Audio Input Signal		200m Vrms, 20k Ohms

Computer Compatibility

Resolution	Refresh Rate	Horizontal Frequency
	85 Hz	37.9 kHz
	60 Hz	31.5 kHz
640x400	72 Hz	37.9 kHz
	75 Hz	37.5 kHz
	85 Hz	43.3 kHz
	56 Hz	35.1 kHz
	60 Hz	37.9 kHz
800x600	72 Hz	48.1 kHz
	75 Hz	46.9 kHz
	85 Hz	53.7 kHz
	60 Hz	48.4 kHz
1004-700	70 Hz	56.5 kHz
1024x768	75 Hz	60.0 kHz
	85 Hz	68.7 kHz
1280x1024 60 Hz		64.0 kHz

Important Notice

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http://www.3M.com/walldisplay e-mail: meetings@mmm.com

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