

DLP™ DATA DISPLAY

MODEL

**VS-50PH50U**

**VS-67PH50U** ( VS-67PH50U-SN )  
SC-067PH50U )

**VS-67PHF50U** ( VS-67PHF50U-SN )  
SC-067PHF50U )

**VS-80PH40U** ( VS-80PH40U-SN )  
SC-080PH40B )



User's Manual

**Be sure to follow the directions below.**

**Warning:**

This product requires special installation to prevent toppling.  
Please ask installation specialists for installation.  
Don't attempt to install the product by yourself.

This user's manual is important to you. Please read it before using your product.

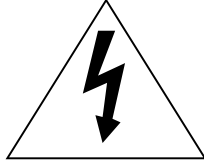
**For MITSUBISHI dealer**

Please read Set-up and Installation Manual before installing the product.

**Trademarks**

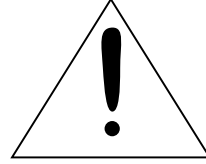
All brand names and product names herein are trademarks or registered trademarks of their respective companies.

- DLP and DLP logo are trademarks of Texas instruments.

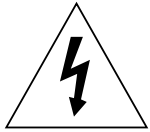


## CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE COVER (OR BACK)  
NO USER-SERVICEABLE PARTS INSIDE  
REFER SERVICING TO QUALIFIED  
SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## **WARNING:**

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

## **CAUTION:**

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

## **NOTE:**

SINCE THIS PRODUCT IS PLUGGABLE EQUIPMENT, THE SOCKET-OUTLET MUST BE INSTALLED NEAR THE EQUIPMENT AND SHOULD BE EASILY ACCESSIBLE.

## Important safeguards

Please read all these instructions regarding your DLP™ data display and retain them for future reference. Follow all warnings and instructions marked on the DLP™ data display.

1. **Read instructions**  
All the safety and operating instructions should be read before the appliance is operated.
2. **Retain instructions**  
The safety and operating instructions should be retained for future reference.
3. **Warnings**  
All warnings on the appliance and in the operating instructions should be adhered to.
4. **Instructions**  
All operating instructions must be followed.
5. **Cleaning**  
Unplug the power cord from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.
6. **Attachments and equipment**  
Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.
7. **Water and moisture**  
Do not use this product near water or in contact with water.
8. **Accessories**  
Do not place this product on an unstable cart, stand, tripod, bracket or table. Use only with a cart, stand, tripod bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.



An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

9. **Ventilation**  
Slots and openings in the cabinet are provided for ventilation, ensuring reliable operation of the product and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the product on a bed, sofa, rug, or bookcase. Ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

10. **Power sources**  
This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your appliance dealer or local power company.
11. **Power-cord protection**  
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and points where they exit from the appliance.
12. **Overloading**  
Do not overload wall outlets and extension cords as this can result in a fire or electric shock.
13. **Objects and liquids**  
Never push objects of any kind through openings of this product as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
14. **Servicing**  
Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
15. **Damage requiring service**  
Unplug the power cord from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - (a) If the power-supply cord or plug is damaged.
  - (b) If liquid has been spilled, or objects have fallen into the product.
  - (c) If the product does not operate normally after you follow the operating instructions. Adjust only those controls that are covered by the operating instructions. An improper adjustment of other controls may result in damage and may often require extensive work by a qualified technician to restore the product to its normal operation.
  - (d) If the product has been exposed to rain or water.
  - (e) If the product has been dropped or the cabinet has been damaged.
  - (f) If the product exhibits a distinct change in performance - this indicates a need for service.
16. **Replacement parts**  
When replacement parts are required, be sure that the service technician has used replacement parts specified by the manufacturer or parts having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
17. **Safety check**  
Upon completion of any service or repair to this product, ask the service technician to perform safety checks determining that the product is in a safe operating condition.

## WARNING:

### Unplug immediately if there is something wrong with your product.

Do not operate if smoke, strange noise or odor comes out of your product. It might cause fire or electric shock. In this case, unplug immediately and contact your dealer.

### Never remove the cabinet.

This product contains high voltage circuitry. An inadvertent contact may result in an electric shock. Except as specifically explained in the Owner's Guide, do not attempt to service this product yourself. Please contact your dealer when you want to fix, adjust or inspect the product.

### Do not modify this equipment.

It can lead to fire or electric shock.

### Use the optional specified power supply cord.

### This apparatus must be grounded.

Place the product more than 5 cm (2 in.) from the wall (except at the rear) to prevent blocking the intake, exhaust slots and ventilation of this product because hot air comes out of it.

Carry the product by all four handles, not by two handles.

### Do not use the product under the following circumstances, which may cause fire or electric shock.

- in a dusty or humid place
- near a heater
- in a oily, smoky or damp place
- in direct sunlight
- with high temperature, such as the closed car
- where the temperature is lower than 10°C (50°F) or higher than 35°C (95°F)

- for VS-67PHF50U the temperature is lower than 10°C (50°F) or higher than 30°C (86°F)

## CAUTION:

### Battery replacement of the optional remote control R-XL50TX

- Improper use may result in fire, injury, or spread dirt due to leakage, heat generation, or explosion.
- Replace all the batteries with new ones. Use two AA batteries (R6P).
- Load the batteries with their (+) and (-) sides correctly.
- Load the batteries from (-) sides first.

## NOTE:

### This symbol mark is for EU countries only.



This symbol mark is according to the directive 2002/96/EC Article 10 Information for users and Annex IV.

Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please, dispose of this equipment at your local community waste collection/recycling centre.

In the European Union there are separate collection systems for used electrical and electronic product.

Please, help us to conserve the environment we live in!

## COMPLIANCE NOTICE OF FCC

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 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.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.

Changes or modifications not expressly approved by Mitsubishi could void the user's authority to operate this equipment.

## COMPLIANCE NOTICE OF INDUSTRY CANADA

This Class A digital apparatus complies with Canadian ICES-003.

## COMPLIANCE NOTICE OF EC DIRECTIVE

This data display complies with requirements of 2004/108/EC, 2006/95/EC. The requirements of susceptibility have chosen at a level, that makes interference free operation possible in living areas, office areas and light industry, related to indoor and outdoor operation. All places of operation are related to the public low voltage power supply.

This is a equipment of Class A. This device could cause interferences in residential areas; in the case of interferences it can be demand from the user to provide appropriate solutions and pay for it.

## Warning:

This is class A information technology equipment. When used in a household environment, this product may cause radio interface. In such a case, the user may be required to take suitable countermeasures.

# Specifications / Items sold separately

Model		VS-50PH50U	VS-67PH50U	VS-67PHF50U	VS-80PH40U
Screen size		50 inches (1015 x 761 mm)	67 inches (1359 x 1019 mm)		78.7 inches (1600 x 1200 mm)
RGB input signal supported		Resolution: VGA to SXGA+, Horizontal: 31.5 to 78 kHz, Vertical: 49.5 to 85 Hz, Pixel clock rate: 25 to 122 MHz			
Analog RGB input	Terminal	BNC x 5 (RGBHV)			
	Signal	RGB signal level: 0.7 V(p-p) 75 Ω, Sync: TTL level (positive/negative), Sync On Green			
Digital RGB input	Terminal	DVI-D			
	Signal	TMDS			
Control		RS-232C: D-Sub 9-pin Mitsubishi original control link: D-Sub 9-pin x 2 (input and output)			
Power consumption		195 W			295 W
Power supply		AC 100 V – 240 V 50/60 Hz 2.5 A			AC 100 V – 240 V 50/60 Hz 3.5 A
External dimensions (excluding protrusions)	Width	1016 mm (40.0 inch)	1361 mm (53.6 inch)	1362 mm (53.6 inch)	1603 mm (63.1 inch)
	Height	977 mm (38.5 inch)	1282.3 mm (50.5 inch)	1282.3 mm (50.5 inch)	1376.5 mm (54.2 inch)
	Depth	639 mm (25.1 inch)	778 mm (30.6 inch)	848 mm (33.4 inch)	960 mm (37.8 inch)
Operating temperature and humidity		10°C – 35°C (50°F – 95°F)		10°C – 30°C (50°F – 86°F)	10°C – 35°C (50°F – 95°F)
		20% – 80%		20% – 70%	20% – 80%
Weight		64 kg (141 lbs)	91 kg (201 lbs)	97 kg (214 lbs)	130 kg (286 lbs)
Accessories		User's manual, Joint parts (8 pcs. each of hexagon socket head cap screws for M6, flat washers, and spring washers), Control cable, Joint hole seal, Plastic tie (10 pcs. for VS-67PHF50U)			

Design and specifications are subject to change without notice.

## Option

- **Input Board : VC-B50KA, VC-B50KV**
- **Remote control for wireless and wired use : R-XL50TX**
- **Lamp for replacement : S-PH50LA (VS-50PH50U, VS-67PH50U, VS-67PHF50U)  
: S-PH40LA (VS-80PH40U)**
- **Power cord (North America) : JC-PC3MA (125 V 10 A)**
- **Power cord (Europe) : JC-PC3ME (250 V 10 A)**
- **Power cord (China) : JC-PC3MC (250 V 10 A)**
- **Screen unit : SC-067PH50B (VS-67PH50U)  
SC-067PHF50B (VS-67PHF50U)**

# Lamp replacement

This product is equipped with the lamp to display images generated by DLP™ chip. This lamp is a consumable and it may lose its intensity or burn out during use. When the lamp intensity decreases, this product detects such decrease and switches the lamp to the built-in spare lamp automatically. (This function is called automatic lamp changer.) While the spare lamp is in use, a mark “☼” blinks on the screen. (When the spare lamp burns out, a blue light blinks on the screen and “1” is displayed on the status display on the rear terminal panel.) When the spare lamp burns out, contact your MITSUBISHI dealer for replacement of the lamp and the adjustments for ensuring the same level of image quality as that before lamp replacement (such as the screen frame adjustment, CSC adjustment, and gradation adjustment).

Do not attempt to replace the lamp and carry out the adjustments by yourself.









































This product uses a lamp that contains mercury. Disposal of the lamp or the product with the lamp may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or Electronic Industries Alliance : [www.eiae.org](http://www.eiae.org). (For US only)

# Troubleshooting

Please check the following before contacting your dealer for service. Errors in signals are apt to be taken for problems in the product.

Problems	Remedies
<b>No image appears on the screen.</b>	<ul style="list-style-type: none"><li>• Check the power cord is connected firmly.</li><li>• Check the correct input signals are selected for the terminals of the external devices.</li><li>• Check the external devices are connected to the terminals firmly.</li><li>• Check the external devices are turned on.</li><li>• Check the appropriate signal is input from the external devices to the product.</li></ul>
<b>Hue of the image is not appropriate.</b>	<ul style="list-style-type: none"><li>• Check the signal connection between the external device and the product.</li></ul>

# Troubleshooting (continued)

Problems	Remedies																												
<p><b>A blue light blinks on the screen, without image display.</b></p> 	<ul style="list-style-type: none"> <li>When the lamp burns out or a failure occurs in the product, a blue light blinks on the screen. In such a case, check the state of the blinking blue light and the state of the status display on the rear terminal panel (except VS-67PHF50U) according to the following table.</li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="background-color: #cccccc;">State of the blinking blue light</th> <th rowspan="2" style="background-color: #cccccc;">State of the status display</th> <th colspan="2" style="background-color: #cccccc;">Causes and solutions</th> </tr> <tr> <th style="background-color: #cccccc;">VS-50PH50U VS-67PH50U VS-80PH40U</th> <th style="background-color: #cccccc;">VS-67PHF50U</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;">                       Light on for 1 second, off for 1 second                 </td> <td style="text-align: center;">  </td> <td>The lamp has burnt out, or the lamp drive circuit has failed. Contact your MITSUBISHI dealer.</td> <td rowspan="3" style="vertical-align: top;">                     The lamp has burnt out or not been installed or not been installed properly, or the lamp drive circuit has failed. Contact your MITSUBISHI dealer.                 </td> </tr> <tr> <td style="text-align: center;">                         Displays number 2, 3, 4, 5 or 6.                 </td> <td>The lamp has not been installed or not been installed properly. Contact your MITSUBISHI dealer.</td> </tr> <tr> <td style="text-align: center;">  </td> <td>The cover of the lamp changer is open. Contact your MITSUBISHI dealer.</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">                       Light on for 5 seconds, off for 1 second                 </td> <td style="text-align: center;">  </td> <td>The color wheel has failed. The lamp changer has failed. Contact your MITSUBISHI dealer.</td> <td style="vertical-align: top;">                     The color wheel has failed. Contact your MITSUBISHI dealer.                 </td> </tr> <tr> <td rowspan="4" style="text-align: center; vertical-align: middle;">                       Light on for 1 second, off for 5 seconds                 </td> <td style="text-align: center;">  </td> <td>The power circuit has failed. Contact your MITSUBISHI dealer.</td> <td rowspan="4" style="vertical-align: top;">                     The power circuit, cooling fan, or image processing circuit has failed. Contact your MITSUBISHI dealer.                 </td> </tr> <tr> <td style="text-align: center;">  </td> <td>The lamp power control circuit has failed. Contact your MITSUBISHI dealer.</td> </tr> <tr> <td style="text-align: center;">                         Displays number 1, 2, 3, 4 or 5.                 </td> <td>The cooling fan has failed. Contact your MITSUBISHI dealer.</td> </tr> <tr> <td style="text-align: center;">  </td> <td>The image processing circuit has failed. Contact your MITSUBISHI dealer.</td> </tr> </tbody> </table>	State of the blinking blue light	State of the status display	Causes and solutions		VS-50PH50U VS-67PH50U VS-80PH40U	VS-67PHF50U	 Light on for 1 second, off for 1 second		The lamp has burnt out, or the lamp drive circuit has failed. Contact your MITSUBISHI dealer.	The lamp has burnt out or not been installed or not been installed properly, or the lamp drive circuit has failed. Contact your MITSUBISHI dealer.	  Displays number 2, 3, 4, 5 or 6.	The lamp has not been installed or not been installed properly. Contact your MITSUBISHI dealer.		The cover of the lamp changer is open. Contact your MITSUBISHI dealer.	 Light on for 5 seconds, off for 1 second		The color wheel has failed. The lamp changer has failed. Contact your MITSUBISHI dealer.	The color wheel has failed. Contact your MITSUBISHI dealer.	 Light on for 1 second, off for 5 seconds		The power circuit has failed. Contact your MITSUBISHI dealer.	The power circuit, cooling fan, or image processing circuit has failed. Contact your MITSUBISHI dealer.		The lamp power control circuit has failed. Contact your MITSUBISHI dealer.	  Displays number 1, 2, 3, 4 or 5.	The cooling fan has failed. Contact your MITSUBISHI dealer.		The image processing circuit has failed. Contact your MITSUBISHI dealer.
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<p><b>• VS-67PHF50U</b></p> <p><b>During image display, text is displayed on the screen.</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">OVER TEMP</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">CHECK FILTER</div>	<ul style="list-style-type: none"> <li>The ambient temperature may be too high, or the filter may be clogged. Confirm the display on the screen and take the required measures.</li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #cccccc;">State of the word</th> <th style="background-color: #cccccc;">Causes and solutions</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">OVER TEMP</div>                     White text, lit                 </td> <td>The ambient temperature has risen or the filter has become clogged. Contact your MITSUBISHI dealer.</td> </tr> <tr> <td style="text-align: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">OVER TEMP</div>                     Red text, flashing                 </td> <td>The ambient temperature has risen abnormally or the filter has become clogged. Stop the operation immediately and contact your MITSUBISHI dealer.</td> </tr> <tr> <td style="text-align: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">CHECK FILTER</div>                     White text, flashing                 </td> <td>The filter must be inspected. Contact your MITSUBISHI dealer.</td> </tr> </tbody> </table>	State of the word	Causes and solutions	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">OVER TEMP</div> White text, lit	The ambient temperature has risen or the filter has become clogged. Contact your MITSUBISHI dealer.	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">OVER TEMP</div> Red text, flashing	The ambient temperature has risen abnormally or the filter has become clogged. Stop the operation immediately and contact your MITSUBISHI dealer.	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">CHECK FILTER</div> White text, flashing	The filter must be inspected. Contact your MITSUBISHI dealer.																				
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# Contact Information

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