



# LCD DISPLAY MONITOR

MODEL

# LM55P4(W) (LM55P4)

User's Manual (Draft)

## Be sure to follow the directions below.

### Warning:

This equipment is not suitable for use in locations where children are likely to be present.

This product requires special installation to prevent hazard. 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. Please keep it after reading and read when required.

#### For MITSUBISHI dealer

Please read Set-up Manual before installing the product.

For Set-up Manual, please contact the distributor.

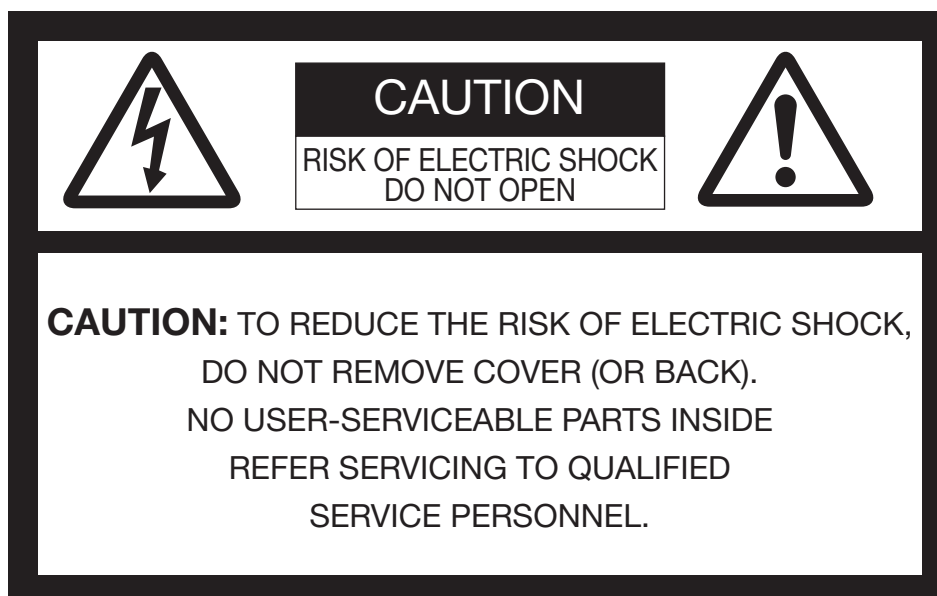
#### About trademarks

DisplayPort and the DisplayPort icon are trademarks or registered trademarks of Video Electronics Standards Association in the United States and other countries.

All other brands and product names are trademarks or registered trademarks of their respective owners.

# Contents

Important safeguards.....	4
Precautions for using this product.....	6
Specifications / Items sold separately .....	7
Troubleshooting.....	8



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 product and retain them for future reference. Follow all warnings and instructions marked on the product.

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.

**Do not modify this equipment.**

It can lead to fire or electric shock.

**Use the attached specified control cable.**

**Use the optional specified power supply cord.**

**This apparatus must be grounded.**

**Use an earth leakage circuit breaker to supply power.**

**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
- where the air vents are directly exposed to the air from an air conditioner
- where the product is frequently exposed to vibrations
- with high temperature, such as the closed car
- where the temperature is lower than 5°C (41°F) or higher than 35°C (95°F)
- where any corrosive gas i.e. SULFIDE-CONTAINING-GAS is produced.

**Don't expose the LCD panel to impact.**

The LCD panel may be damaged, causing injury or breakdown.

**For the control terminal, use an Ethernet cable only.**

For your safety, connect to an Ethernet network which does not exceed the voltage limit of the Ethernet connector.

**Do not use this product outdoors.**

This product is designed for indoor use.

**Do not install this product upside down, on its rear, face down, or in a slanting position.**

**Do not get the liquid crystals in your mouth.**

If the LCD panel is damaged and the liquid crystals leak out, do not inhale or swallow them because they are highly toxic. If you should accidentally get them in your eyes or mouth, rinse with water and see a doctor immediately.

If the liquid crystals get on your skin or clothes, wipe them off using alcohol and then rinse with water.

**CAUTION:**

**Battery replacement of the optional remote control DP-02RK.**

**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 AAA batteries (R03).
- Load the batteries with their (+) and (-) sides correctly.
- Load the batteries from (-) sides first.

**Please, dispose of this equipment, batteries and accumulators correctly at your local community waste collection/recycling centre.**

**NOTE:**

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



This symbol mark is according to the directive 2012/19/EU Article 14 Information for users and Annex IX, and/or to the directive 2006/66/EC Article 20 Information for end-users and Annex II.

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

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

If a chemical symbol is printed beneath the symbol shown above, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows:

Hg: mercury (0,0005%), Cd: cadmium (0,002%), Pb: lead (0,004%)

In the European Union there are separate collection systems for used electrical and electronic products, batteries and accumulators.

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

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.

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.

### **Warning:**

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

## ***Precautions for using this product***

---

### **Do not display the same image for a long time**

When an image is kept displayed for a long time, it may be left on the screen (image persistence) after the displayed image is changed. As long as the symptom is minor, the image persistence gradually disappears as you display different images or stop using the product for a while by turning off the power. However, when the same image is kept displayed for a too long time, the image persistence will remain on the screen. Therefore, do not display the same image for a too long time. The repair of the image persistence (image sticking) will be chargeable even within the warranty period.

### **Backlight used for the LCD panel**

The backlight used for the LCD panel has a lifetime. Though the brightness of the backlight decreases with the duration of use, the symptom is caused by the characteristics of the LCD panel and not a malfunction.

### **Characteristics of the LCD panel**

Moiré may occur or the screen response speed may vary depending on the ambient temperature or the input video signal. These symptoms are caused by the characteristics of the LCD panel and not a malfunction.

### **Dead pixels or always lit pixels of the LCD panel**

The LCD panel is made using very precise techniques and has effective pixels of 99.99% or more. However, 0.01% or less of the pixels may be dead or always lit. Such symptom is not a malfunction.

### **Installation location**

Do not install this product in a place where it is exposed to direct sunlight or in a humid or dusty place. Doing so may cause a malfunction or shorten its lifetime. Furthermore, installing this product in a location where the temperature varies significantly may accelerate the degradation of the LCD panel.

Since the panel surface is vulnerable to damage and scratches, do not push or rub it with a solid object and handle it with care. Take care to prevent finger print stains on the panel surface. If the panel surface gets soiled, gently wipe it using a dry absorbent cotton pad or a dry and soft cloth (cotton, flannel, or a wiping cloth). Use a clean cloth and do not use the same cloth repeatedly.

It is recommended to clean the panel using water, IPA, and hexane.

Do not use ketone-type materials (such as acetone), ethyl alcohol, toluene, ethyl acid, or methyl chloride.

If you use a solvent, remove it completely after cleaning.

If a solvent or water splash enters inside the product or gets on the surface except for the LCD panel, the product may be broken.

The damaged surface of the LCD panel can't be repaired.

# Specifications / Items sold separately

## ● LM55P4(W)

Model		LM55P4(W)	
Viewable size		1209.6 x 680.4 mm (54.6 inches)	
Resolution		1920 x 1080 pixels	
PC Input / Output	Input connector	Analog	MINI D-Sub 15 pin
		Digital	DVI-D (HDCP supported), DisplayPort
	Output connector	Digital	DisplayPort
AV Input / Output	Input connector	Digital	HDMI
Option slot	Slot interface		Digital (OPS) slot (12V / 4.0A)
External control	Input connector		RS-232C <2.5 mm Phone Jack> Network: RJ45 (10BASE-T / 100BASE-TX)
	Output connector		RS-232C <2.5 mm Phone Jack>
	Push-button		Standby switch (Ⓟ) (ON/STANDBY)*
Power consumption		300 W (TBD)	
Power supply		AC 100 V – 240 V 50/60 Hz 3.0 A (TBD)	
External dimensions (excluding protrusions)	Width		1210.5 mm (47.7 inches)
	Height		681.2 mm (26.8 inches)
	Depth		98 mm (3.9 inches) (103.4mm (4.1inches) *Including handle)
Operating temperature and humidity		5°C – 35°C (41°F – 95°F) 20 % – 80 % (without condensation)	
Weight		25.0 kg (55.1 lbs)(TBD)	
Accessories		User's Manual, DisplayPort cable (1.8 m), RS-232C cable (D-Sub 9 pin - 2.5 mm Phone Jack / 1.8 m), Daisy chain cable (2.5 mm Phone Jack / 4m), Band (7 pcs.)	

\* When the button is pressed and held, the status is changed between power ON and standby.

### Option

- Remote control kit : DP-02RK
- Wall mount bracket : BR-LM1KK
- OPS module : VC-LM1HD, DP-1SDI-3G
- Power cord (for North America) : JC-PC3MA (AC100 - 120 V)
- Power cord (for Japan) : JC-PC3MJ (AC100 V)
- Power cord (for Europe) : JC-PC3ME (AC200 - 240 V)
- Power cord (for Russia) : JC-PC3MR (AC220 V)

Recommended OPS computer : Advantech DS280GB1701E-T

Design and specifications are subject to change without notice.

# 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 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>