



LED UNIT

MODEL

VS-12NP160F / VS-12NP160F1
VS-12NP160FD / VS-12NP160FD1
VS-12NP160FH / VS-12NP160FH1

User's Manual



日本語 | DEUTSCH | NORSK | SVENSKA | DANSK | ITALIANO | SUOMI | PORTUGUES | ESPAÑOL | FRANÇAIS | NEDERLANDS | ENGLISH

Warning:	Be sure to follow the directions below.
	<p>This equipment is not suitable for use in locations where children are likely to be present.</p> <p>This product requires special installation to prevent hazard. Please ask installation specialists for installation. Don't attempt to install the product by yourself.</p>

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.
For Set-up and Installation Manual, please contact the distributor.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>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.</p>		



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.

<p>WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.</p>

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 the Cabinet
Refer screen cleaning to qualified service personnel. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning. Refer screen cleaning to qualified service personnel.
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-cable protection
Power-cable 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. 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.
13. Servicing
Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
14. Damage requiring service
Stop using the product and refer servicing to qualified service personnel under the following conditions:
 - (a) If the power-cable 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.
15. 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.
16. 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.

ENGLISH

WARNING:

Stop using the product 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, stop using the product immediately and contact your dealer.

Never remove the cover.

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 cable.

Electrostatic discharge may harm the surface of the LED units.

To prevent such damage, you should discharge static electricity from your body before you contact with the LED units. In addition, during the installation/maintenance work, remove any static charge that your body may have accumulated by touching a metal-grounded object periodically.

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
- in corrosive gas
- 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 40°C (104°F)
- where any corrosive gas i.e. SULFIDE-CONTAINING-GAS is produced.

COMPLIANCE NOTICE OF FCC

FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

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.

Place the product more than 20cm (8in.) from the wall to prevent blocking the intake, exhaust slots and ventilation of this product because not air comes out of it.

This product use magnets. If a pacemaker or other medical device is in use, magnetic fields may affect the operation of these devices.

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.

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!

Specifications / Items sold separately

●VS-12NP160F / VS-12NP160F1 / VS-12NP160FD / VS-12NP160FD1 / VS-12NP160FH / VS-12NP160FH1

Model		VS-12NP160F / VS-12NP160F1	VS-12NP160FD / VS-12NP160FD1	VS-12NP160FH / VS-12NP160FH1	
Display system		Light emitting diode (LED)			
Resolution		384 x 432 pixels		384 x 216 pixels	
Screen size		480 mm x 540 mm		480 mm x 270 mm	
Input / Output		Mitsubishi original image and control link			
		Signal	(RJ45 x 2)	(RJ45 x 4)	(RJ45 x 2)
		Power			
		Mitsubishi original circular connector (Input x 1, Output x 1) DC 48V Max. (Input 24A, Output 20A)			
Power consumption		175 W			
Power supply		DC 48V 3.7A			
External dimensions (excluding protrusions)		Width			
		480 mm (18.9 inches)			
		Height			
		540 mm (21.3 inches)			
		Depth	90 mm (3.5 inches)	117 mm (4.6 inches)	90 mm (3.5 inches)
Operation temperature and humidity		5°C – 40°C (41°F – 104°F), 20% – 80%			
Weight		13.1 kg (28.9 lbs)	13.3 kg (29.3 lbs)	11.0 kg (24.3 lbs)	
Accessories		User's Manual, Power cable, Joint parts (4 pcs.), Adjustment bolts and nuts (3pairs)			

Design and specifications are subject to change without notice.

Necessary network cables

Prepare the following commercially-available network cables. The length and quantity vary depending on the system configurations.

For video transmission	control unit to LED units	Up to 10m:	CAT 7 network cables
		Up to 15m:	CAT 7 solid conductor or CAT 7A network cables
		Up to 20m:	Mitsubishi confirmed network cables
	between LED units	Recommended: 0.7 m or longer	CAT 7 network cables
For controlling	control unit to power unit	Up to 60m*:	
	between power units	Recommended: 0.2 m or longer	CAT 5 or higher network cables

*: It is the total length between the control unit and the last cascaded power unit.