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Warnings and Cautions

Please read this manual and follow its instructions carefully. The words **warning**, **caution**, and **note** carry special meanings and should be carefully reviewed:

Warning



The personal safety of the patient or physician may be involved. Disregarding this information could result in injury to the patient or physician.

Warning



A lightning bolt within a triangle is intended to warn of the presence of hazardous voltage. Refer all service to authorized personnel.

Caution

Special service procedures or precautions must be followed to avoid damaging the instrument.

Note

Special information to make maintenance easier or important information more clear.

Warnings

Warning



To avoid potential serious injury to the user and the patient, and/or damage to this device, the user must:

1. Restrict this device to use by, or on the order of, a physician, because of Federal law (United States of America).
2. Read the operating manual thoroughly and be familiar with its contents prior to using this equipment.
3. Carefully unpack the unit and check if any damage occurred during shipment.
4. Test this equipment prior to a surgical procedure. This monitor was fully tested at the factory before shipment.
5. Do not place the monitor or any other heavy object on the power cord. Damage to the cable can cause fire or electric shock.
6. Should any solid object or liquid fall into the panel, unplug the unit and have it checked by qualified personnel before operating it any further.
7. Unplug the unit if it is not to be used for an extended period of time. To disconnect the cord, unscrew plug first, then pull it out by the plug. Never pull the cord itself.

8. To avoid electric shock, avoid removing control unit covers.
9. Do not attempt internal repairs or adjustments not specifically detailed in this operating manual.
10. Pay close attention to the care and cleaning instructions in this manual. A deviation may cause damage (refer to the Cleaning section).
11. Do not sterilize the monitor.
12. Use appropriate caution to prevent contact with fluids, if the unit is being used with a power supply in patient environments.

Cautions

1. The AC Adapter must be plugged into a grounded power outlet.
2. Use only the proprietary VISION ELECT HDTV(model 240-030-960) power supply (P/N 240-030-950, Manufacturer: JEC Korea, Model No: JMW1150KA2400F07) for the VISION ELECT HDTV (model 240-030-960) monitor. Completely secures the connection between the DC power cord and the extension cord.
3. Grounding reliability can only be achieved when the equipment is connected to an equipment receptacle labeled "Hospital Only" or "Hospital Grade."
4. To connect to an international power supply, use an attachment plug appropriate for the power outlet.
5. Turn power off when unit is not in use.
6. Remove the power module and connection when transporting the unit.
7. Save the original carton and associated packing material. They will be useful should you have to transport or ship the unit.
8. Handle the monitor with care. Do not strike or scratch the screen.
9. Never operate the unit right after having been transported from a cold location directly to a warm location.
10. Do not expose the monitor to moisture or directly apply liquid cleaners directly to the screen. Spray the cleaning solution into a soft cloth and clean gently.
11. Allow adequate air circulation to prevent internal heat buildup.
12. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots. The monitor is cooled by natural convection and has no fan.
13. Do not install the unit near sunlight, excessive dust, mechanical vibration or shock.

14. The unit is designed for operation in a horizontal position. Do not operate the unit in a vertical position.
15. Keep the unit away from equipment that uses strong magnets (i.e., large loudspeakers).
16. Do not touch the patient with signal input or output connectors. Equipment with SIP/SOP connectors should either comply with IEC 60601-1 and/or IEC 60601-1-1 harmonized national standards or the combination should be evaluated.
17. 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 limit for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation distance between the equipment.
- Connect the equipment to an outlet on a circuit different from that to which the other device(s) are connected.
- Consult the manufacturer or field service technician for help.

18. To ensure electromagnetic compatibility, refer to the "Electromagnetic Compatibility" section of this manual. The VISION ELECT HDTV (model 240-030-960) monitor must be installed and operated according to the EMC information provided in this manual.

The VISION ELECT HDTV (model 240-030-960) monitor has been tested under the UL 60601-1 standard and is UL listed for medical application.

The warranty is void if any of these warnings or cautions are disregarded.

Symbol Definitions

The following symbols appear on the product, its labeling, or the product packaging. Each symbol carries a special definition, as defined below



Dangerous: High Voltage



Consult accompanying documents.



Direct Current



Indicates protective earth ground.



For indoor use only.



DC power control switch

SN

Serial Number



Top - Bottom



Fragile



Do not get wet



Maximum Stacking



Manufacturer



European Authorized Representative



Indicates proof of conformity to applicable European Economic Community Council directives and to harmonized standards published in the official journal of the European Communities.



Medical Equipment is in accordance with UL 60601-1 and CAN/CSA C22.2 No. 601.1 in regards to electric shock, fire hazards, and mechanical hazards.

51LJ
Medical Equipment
E215822



Tested to comply with FCC Class B standards.

IPX1

Degrees of protection against the ingress of water.



This symbol indicates that the waste of electrical and electronic equipment must not be disposed as unsorted municipal waste and must be collected separately. Please contact the manufacturer or other authorized disposal company to decommission your equipment.



DC power on at locker switch.

Product Description and Intended Use

The VISION ELECT HDTV (model 240-030-960) High Definition LCD Monitor is an intelligent, microprocessor-based TFT-LCD monitor intended for use in endoscopic surgical applications. It has an ergonomically designed display and is compatible with most analog RGB (Red, Green, Blue) display standards.

The VISION ELECT HDTV (model 240-030-960) monitor has the following features:

- Advanced Viewing Solution (AVS): A sophisticated filter extends the viewing angle of the screen image, without sacrificing contrast ratio and brightness.
- Upgraded video cards or software will not require buying a new monitor because of the wide auto-scanning compatibility range.
- The internal microprocessor digitally controls auto-scanning, for horizontal scan frequencies between 31.47 KHz and 78.88 KHz, and vertical scan frequencies between 50.0 Hz and 85.1 Hz. In each frequency mode, the microprocessor-based circuitry allows the monitor to function at the precision of a fixed frequency.
- The resident memory allows for storing factory default settings and also additional user adjustment parameters.
- The maximum resolution achievable is WUXGA (1920 × 1200, 60Hz).
- The monitor is compliant with the VESA-DPMS power-management standard. In order to save energy, the monitor must be connected to a system compliant with the standard.
- The monitor is designed to mount an accessory (such as a camera or speaker) with a 2 lbs (max) load per hole.
- The monitor is certified by UL International in accordance with medical standard UL 60601-1. It is also CE marked for sale in the European Community for integration or use with medical products.

Product Contents

1. Carefully unpack the VISION ELECT HDTV (model 240-030-960) monitor. Save the original carton and associated packing material. They will be useful should you have to transport or ship the unit.

2. Check the monitor and its accessories for any damage that may have occurred during shipping. Immediately report any damage to the shipping company.
3. Check the contents of the accessories package with the following list to make sure all components have been included. In addition to this manual, you should find:

Included Accessories

- (a) 1 DVI cable
- (b) 1 VGA HDDB15 cable
- (c) 1 AC adapter (Stryker P/N 240-030-950, Manufacturer: JEC, Model No: JMW1150KA2400F07)
- (d) 1 Hospital-grade AC power cord
- (e) 4 M4 x 10mm VESA screws
- (f) 1 BNC cable
- (g) 1 S-Video cable
- (h) 2 Cable Management Clamps

