



User Manual

Idi Monitor Cart used with GE™ OEC One

The text of this manual was originally written, approved and published by the manufacturer in English.

Made in the USA with global components

Overview

This manual pertains to the specified devices only and does not intend to replace or substitute for certified training in the application of this equipment. The device is intended for qualified medical personnel who have been trained in the use of medical equipment.

Owner Responsibilities

The owner of this device is responsible to ensure system compatibility, the qualifications of the operator and maintenance personnel. The operator must be properly trained and have obtained credentials from the appropriate authorities.

This equipment must be installed in an area provided with the proper electrical power.

The owner of this device is responsible for verifying continued compliance with all applicable regulations and standards. Consult local, state, federal and/or international agencies regarding specific requirements and regulations applicable to the use of this equipment.

Image Diagnostics, Inc. certifies only the equipment. After-sale operating practices and safety are the responsibility of the owner and operator. Image Diagnostics, Inc. assumes no liability or responsibility for after-sale operating or safety practices; nor can it be responsible for personal injury or damage resulting from misuse.

Never make modifications or adjustments to the equipment unless directed by a qualified Image Diagnostics representative. This equipment, when properly assembled, meets US federal regulations and standards. Unauthorized modifications to the equipment may impact adherence to these standards and make the equipment unsafe to operate.

Customer Support

Image Diagnostics will make available, on request, circuit diagrams, component part lists, or other information which will assist the user's appropriately qualified technical personnel to repair those parts of equipment which are designated by the manufacturer as repairable.



For technical assistance, call IDI at (978) 829-0009. Be prepared to give the complete model and serial number found on the data plate on lower side of the Monitor Cart column at the time of contact.



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1. Symbol Identification



Attention! Consult accompanying documents.
Failure to follow these instructions could cause serious personal injury or damage to equipment.



Read the Manual

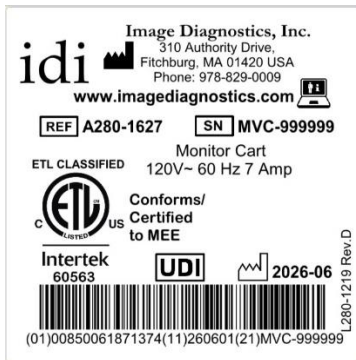
ETL CLASSIFIED



Intertek Testing Agency Approval Logo



Alternating current.



Device Serial Number/UDI Barcode Label



Warning! Information or instructions shown near this symbol must be adhered to in order to prevent a potentially hazardous situation which if not avoided, could result in death, personal injury or damage to the equipment.



Electric Shock hazard. Information or instructions shown near this symbol must be adhered to in order to prevent a potentially hazardous situation which if not avoided, could result in death, personal injury or damage to the equipment.



Recyclable material, some material can be recycled rather than discarded



Maximum allowable Weight Limits.



Model of Monitor Cart.



Serial Number of Monitor Cart.



Date of manufacture of the device.



Location where device was manufactured.

2. Intended Use

1. Intended Use Statement
2. The GE OEC One Monitor Cart is intended for use in medical procedure rooms as a secondary video display monitor system. The cart is designed to allow healthcare professionals to connect compatible video output signals for viewing medical images and related visual information.
3. The Monitor Cart is intended to provide a mobile video display solution for applications including, but not limited to:
 - a. C-arm fluoroscopy imaging
 - b. Endoscopy systems
 - c. Patient monitoring systems
 - d. Similar medical video display devices
4. The GE OEC One Monitor Cart is designed as a non-patient-contact device and is not intended to come into direct contact with patients.
5. The GE OEC One Monitor Cart:
 - a. Is not intended to supply power to electrocautery equipment.
 - b. Has not been evaluated for use in oxygen-enriched environments and should not be operated in such environments.
 - c. Has not been tested for compatibility with high-frequency (HF) surgical equipment.
 - d. Has not been tested for use in conjunction with cardiac defibrillators.

3. Safety



Review the SAFETY HAZARDS and OPERATING INSTRUCTIONS before operating video transmission unit

- ✓ All persons using this equipment must fully understand its operation instructions, emergency procedures, capabilities, and be aware of all potential safety hazards.
- ✓ This manual should be accessible to all personnel installing, operating, or servicing this equipment.
- ✓ Only a qualified technician may install or service this equipment.



Failure to follow safety precautions may result in serious injury to patient or user or damage to equipment.

It is imperative that all personnel operating the Monitor Cart be familiar with the equipment operation, transport and all documentation supplied by IDI.

- The Monitor Cart is intended to be used in typical clinical or research environments in accordance with national standards.
- When transporting the Monitor Cart from room to room, it is imperative that the device be moved in the storage position which is with the monitor rotated to be parallel to the cart's column. Additionally, the monitor should face the same direction as the shelf during transport.
- When in use, the Monitor Cart should be plugged into a medical grade electrical outlet.
- The Monitor Cart does not have any essential performance functions that pose a risk due to failure or degradation of the unit or any of its components.

For more information see page 2 of this manual for contact information.

4. Safety Hazards***CAUTION!***

Do NOT store or place liquids on shelf or above any electrical devices.

***WARNING!***

Do NOT jump any curbs or steps over 3/8" (10mm) in height with this equipment. Approach all obstacles slowly. Operator must use a ramp to allow the casters to roll up and over the vertical edge for over 3/8" (10mm).

***WARNING!***

It is the user's responsibility to make sure the equipment is safe and operates properly prior to use.

***WARNING!***

Connecting any electrical equipment to the socket outlets of the Monitor Cart creates a new ME (Medical Electrical) Equipment unit possibly resulting in a reduced level of safety. Once this is done, the responsible organization must refer and comply to the standard IEC 60601-1.

***WARNING!***

Do not modify this equipment without authorization of the manufacturer.

***CAUTION!***

Caution should be used when moving the system over uneven or sloped surfaces.

***WARNING!***

To avoid the risk of electric shock, this equipment must only be connected to a supply main with protective earth.

EMC (Electromagnetic Compatibility) Statement

This equipment may generate and use radio frequency energy. The equipment must be installed and used according to this manual in order to avoid radio frequency interference.

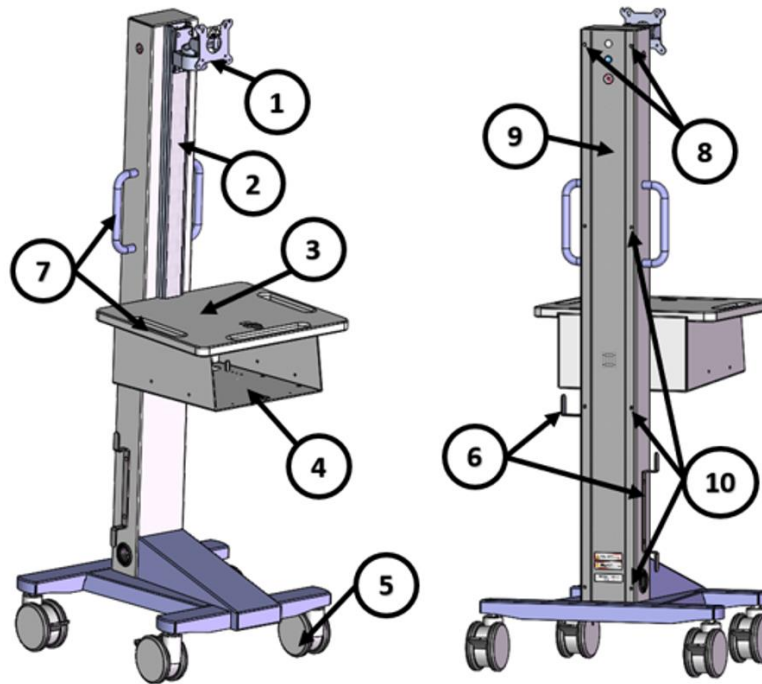
Portable and Mobile RF Communications Equipment can affect Medical Electrical Equipment including the Monitor Cart. Use special precautions regarding EMC when these carts are installed with any external accessories, maintained or operated adjacent or stacked with other equipment. The equipment or system must be observed to verify normal operation in the final configuration in which it will be used.



The use of accessories, transducers and/or cables other than those specified, with the exception of those sold by the manufacturer as replacement parts for internal components, may result in increased emissions or decreased immunity of the equipment or system.

If this equipment generates or receives interference, verify that the equipment is the cause by turning the system off and on.

5. Basic Setup Instructions



*(Monitor hidden for clarity)

Item	Description	Qty
1	VESA mount	1
2	Cable Channel	1
3	Work Surface	1
4	Shelf	1
5	Locking Casters	4

Item	Description	Qty
6	Cable Wrap	2
7	Side Push Handles	2
8	Locking Screws	2
9	Rear Cover	1
10	Keyslot	6

Electronics Installation

The cart's power cord must be plugged into a hospital grade power outlet. The rear cover of the unit must be installed and secured prior to use. To remove cover, loosen the two screws on the back of the column and slide the cover upwards. To install cover, slide the cover into the 6 key slot holes then install the two screws to secure the cover to the column.

All electronic devices are to be installed according to their perspective manufacturer's user manuals.

When installing electronic accessories or placing other items on the work surface, verify that the equipment is fully secured prior to moving the cart. Failure to secure equipment to the shelf may result in injury and/or damage to the equipment.



Do NOT plug cauterization device into cart. Plugging a cauterization device into the internal power strip may cause device malfunction. Plug a cauterization device into a separate wall outlet. A separate branch circuit may be needed.



Always position the cart in a way that the electrical outlet and its power cord it is plugged into can be easily accessed in the event that it needs to be disconnected quickly.

Video Cables

Video Connections

The Monitor Cart is equipped with the following standard video connection accessories:

- HDMI cable
- DisplayPort (DP) cable
- DisplayPort(M)-to-HDMI(F) adapter

The rear of the monitor cart also includes:

- One (1) HDMI port
- One (1) DisplayPort (DP) port

These connections allow external video sources to display images on the monitor cart display.

Connecting Video Cables

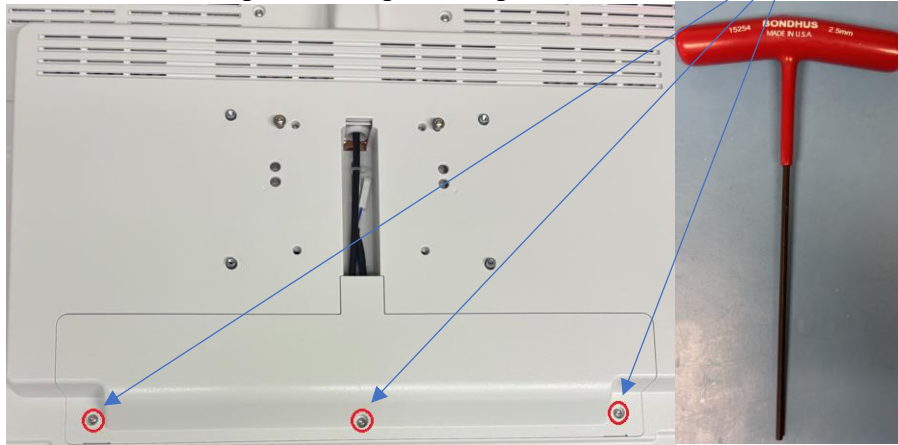
1. Identify the appropriate video connection type for the external device.
2. Connect the video cable to the corresponding HDMI or DisplayPort input on the rear of the monitor cart.
3. Connect the opposite end of the cable to the external video source device.
4. Verify that the connection is fully seated and that video is displayed correctly on the monitor.

Important Connection Information

- Do not use excessive force when connecting video cables or adapters.
- Video connectors should engage easily when properly aligned.
- If significant resistance is encountered, stop and verify connector compatibility and orientation before proceeding.
- Forcing incompatible connectors may damage the cables, adapters, monitor, or connected equipment.

Changing Video Inputs

1. Using the provided 2.5mm hex key, remove the 3 screws located here on the rear of the monitor and remove the panel to expose the panel controls.



2. In sequential order, press the “exit” button once and then the “left” button 3 times. This sequence must be performed within 3 seconds. The monitor should display the message “OSD Unlocked”.
3. Press the “menu” button to display the on-screen menu.
4. Press “menu” again and then “left” to enter the input source select menu.
5. Press “left” to select main source.
6. Press “menu” to cycle between DP and HDMI inputs.
7. Press “left” to select desired input.
8. Press “exit”.

Shelf capacity

The work surface and shelf have 20lb (9.1 kg) weight capacity each, do NOT overload these surfaces.

Moving and Positioning the cart

The cart is equipped with 4 locking casters that can be individually locked to prevent movement during use.

To move the cart, unlock all 4 casters then use the side push handles located on the main column or the work surface. Do NOT move the cart by pulling on the monitor.



Do NOT move cart over cords or uneven, soft or sloping surfaces. Failure to comply may result in cart instability leading to equipment damage or personal injury.



Use handles to move cart with the help of an assistant to avoid collision with other equipment and walls.

6. Instructions for Operation

Monitor Adjustment Work Instruction

Monitor Adjustment Capabilities

The monitor assembly is capable of the following adjustments:

- Vertical height adjustment
- Upward and downward tilt adjustment
- Rotation about the vertical axis

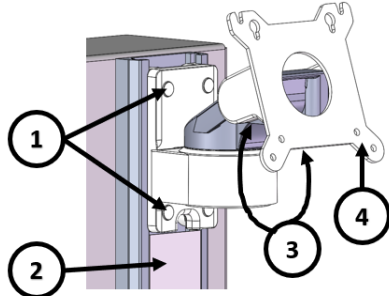
Component Identification

Refer to the figure below for component locations:

Item	Description	Qty
1	Set Screw	4
2	Cable Cover	1
3	Tension Screw	2
4	VESA Mount	1

Figure Reference Notes

- **Item 1 – Set Screws:** Used to secure the monitor bracket at the desired vertical height.
- **Item 2 – Cable Cover:** Covers and protects cables routed through the aluminum channel.
- **Item 3 – Tension Screw:** Used to adjust monitor movement resistance based on monitor weight.
- **Item 4 – VESA Mount:** Mounting plate for attaching the monitor to the cart.



Safety Notes

- It is recommended to use two people when adjusting the vertical height of the monitor to prevent the monitor from sliding, which may cause injury or damage to equipment.
- Remove all items from the work surface prior to making adjustments to prevent possible injury or equipment damage.
- Verify that all casters are locked before beginning any monitor adjustments.
- When adjusting the monitor, it is recommended to lock the casters in position so that the cart does not move inadvertently.

Vertical Height Adjustment Procedure

Tools Required

- Hex key or appropriate tool for set screws
- Hacksaw (if cable cover trimming is required)

Procedure**1. Prepare the Work Area**

1. Remove all items from the work surface.
2. Verify that all casters are locked.
3. Position a second person to assist with supporting the monitor.

2. Remove the Cable Cover (Item 2)

1. While one person securely holds the monitor, the second person removes the cable cover from the aluminum channel.
2. To remove the cable cover:
 - a. Pull the top edge outward.
 - b. Gently squeeze both sides of the cover until it begins to release from the channel.
 - c. Continue working from the top downward until the cover is completely removed.

3. Adjust Monitor Height

1. Locate the four (4) set screws (Item 1) on the monitor bracket.
2. Loosen the set screws.
 - a. Do not fully remove the screws.
3. Position the monitor to the desired vertical height.
4. Re-tighten all four (4) set screws securely.

4. Verify Monitor Security

1. Ensure the monitor is fully secured and will not move during transport.
2. Gently pull downward on the monitor to verify that the mount does not move.

Tilt Adjustment Procedure

1. Verify that the casters are locked.
2. Grasp the top and bottom of the monitor.
3. Gently tilt the monitor forward or backward to the desired position using the VESA mount (Item 3).

Rotation Adjustment Procedure

1. Verify that the casters are locked.
2. Grasp both the left and right sides of the monitor simultaneously.
3. Gently rotate the monitor to the desired position using the VESA mount (Item 3).

Monitor Tension Adjustment**Purpose**

Depending on the monitor weight, the monitor tension may require adjustment to allow easier movement while still maintaining position.

Procedure

1. Locate the two (2) tension screws (Item 4).
2. Adjust tension as follows:
 - a. Rotate clockwise to increase tension.
 - b. Rotate counterclockwise to decrease tension.

3. Adjust the tension until the monitor can hold its position without drifting downward.

Important Tension Adjustment Notes

- Do not reduce the tension to the point where the monitor rotates downward on its own.
- After adjustment, move the cart around the room to verify that the monitor remains securely positioned.
- If the monitor moves or lowers during transport, increase the tension further.

Cable Cover Modification and Reinstallation

Trim Cable Cover (If Required)

1. In most cases, the cable cover will need to be shortened.
2. Cut the cable cover to the required length using a hacksaw.
3. Retain any removed sections for future use.

Reinstall the Cable Cover

1. Insert the left side of the cable cover into the left side of the channel slot.
2. Gently squeeze the right side of the cover and snap it into place.
3. Begin at the bottom and work upward until the cover is fully installed.

7. General Cleaning

Tools: Soft cloth and approved cleaner:

- Sodium hypochlorite (generic household bleach) in a solution of 5.25% sodium hypochlorite diluted between 1:10 and 1:100 with water.
- Alcohol (generic).
- Envirocide.™

Notes:

- For the cleaning of monitor or electrical equipment, please consult corresponding literature for these devices.
- NEVER use alcohol to clean the monitor.

Procedure:

- 1.1. Unplug the cart prior to the cleaning process.
- 1.2. Wipe clean the surfaces of the system with a diluted mixture of mild detergent (listed above) and water, using a soft cloth.
Use a soft cloth to dry any stainless-steel items.

Monitor Cleaning Only

Precautions

- Turn off monitor and unplug power cord.
- Take care not to damage or scratch the front filter or LCD panel.
- Be careful with rings or other jewelry that can touch the front filter.
- Do **NOT** apply excessive pressure on the monitor screen.
- Do **NOT** apply or spray liquid directly to the front filter, panel or cabinet as excess liquid may cause damage to internal electronics. Instead, apply the liquid to the cleaning cloth.
- Isopropyl Alcohol or Hexane applied to a non-woven cloth are the only approved substances for cleaning the screen surface.
- Follow your hospital or clinical protocol for the handling of blood and body fluids.
- The display is not disinfected nor packed in sterile environment.
- Follow your hospital or clinical protocol in instances that need the display disinfected prior to installation.
- Cleaning guidelines for displays must only be carried out by medical professionals and must not be handled by patients.

DO NOT USE:

- Acid
- Alcohol/solvents at higher concentration >5%
- Cloth with steel thread
- Detergents with abrasives, ammonia or fluoride
- Sponge with abrasives
- Steel blades
- Steel wool
- Strong alkalis lye, strong solvents
- Synthetic (polyester) cloth

Cart Chassis Cleaning

Proceed as follows:

1. Clean the chassis using a soft cotton cloth, lightly moistened with a recognized cleaning product for medical equipment.
2. Repeat with water only.
3. Wipe dry with a dry cloth.
4. Cabinet has been tested for resistance to the following products:
 - Virex Ready-to-use Disinfectant Cleaner
 - Misty Clear Lemon 10 Disinfectant
 - Bohle glass cleaner
 - Zep Heavy-duty glass & all surface cleaner
 - Klear Screen
 - Screen TFT (Kontakt Chemie)
 - Incidin Foam (Ecolab)
 - Microzid
 - Mild detergent
 - Isopropyl alcohol with concentration < 5%
 - Household bleach (generic sodium hypochlorite, solutions of 5.25% sodium hypochlorite diluted with water between 1:10 and 1:100)
 - Precise Hospital Foam Cleaner Disinfect