

REQUESTING SERVICE: SURGICAL

SHIP TO: V.A. Medical Center

Warehouse

508 Fulton Street

DURHAM, NC 27705-3897

XR PORT C-ARM, VAMC DURHAM, NC PO# 558-B70010

Durham VA Urology Clinic (5th Floor, D5015) Cyto Room Equipment  
Upgrade of Imaging Table and C-arm. Currentsystem (Liebel) is 10  
years old and past equipment life expectancy

EQUIPMENT	QTY
<b>Vision RFD 30 for General Purpose 25kW<sup>(2)</sup></b>	1
Sony UP-991AD Printer (paper & film)( <sup>3</sup> )	1
Z-Complete Care: on Vision RFD 30 PER YEAR( <sup>4</sup> )	1
<b>Aspect 100UCPlus Urology and Multi-Purpose Imaging Table<sup>(5)</sup></b>	-
Armboard, quick-release, rail mounted( <sup>6</sup> )	-
Clamp-on accessory rail for 100UCPlus tabletop extension ( <sup>7</sup> )	-
Lithotomy Legholders (pair), Heavy Duty, boot style, pneumatic assist with one-h( <sup>8</sup> )	1
Physician Elbow Supports (pair), removable( <sup>9</sup> )	1
Freight	1
<b>Trade-In Allowance<sup>(1)</sup></b>	<b>1</b>
<b>MDS Mobile Display System<sup>(11)</sup></b>	<b>1</b>
Installation by 1131 in continental US. Includes two-days operator training.	1
Freight	1

**Z-Academy Care: Service Training Tuition on Vision RFD 30<sup>(1)</sup>**

# PRODUCT SPECIFICATIONS

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## **ZIEHM VISION R FD Digital Mobile C-arm with Flat Panel for General Purpose Imaging with 25kW Generator**

Unsurpassed digital image quality with optimum dose efficiency. Designed to perform a wide range of surgical imaging applications with leading edge technology and state-of-the-art functionality. System includes 1.5k x 1.5k high resolution, 30cm x 30cm flat panel detector digital imaging, rotating anode x-ray tube and Unique Liquid Cooling of x-ray tube/ 25 kW generator for unlimited fluoroscopy time. Proprietary Object Detected Dose Control (ODDC) software optimizes image quality and minimizes dose levels through automatic motion detection, automatic metal object correction, automatic dose reduction and automatic object detection for image optimization even when subject anatomy is at the periphery of the field of view. Simple user interface provided by intuitive Vision Center TFT control panel that includes anatomic program selection and technologist reference image display.

## **X-Ray Generator <sup>3</sup>**

- 40kHz High Frequency, Monoblock
- 25 kW Power including high power boost caps, microprocessor controlled

### **X-ray Tube**

- Rotating anode x-ray tube with 0.3/0.6 mm dual focus
- Max. anode heat content; 365 kHU / 260 kJ
- Max. anode heat dissipation: 1,000W
- Tube housing heat capacity:
  - Powered by Advanced Active Cooling and heat management system
  - 10 million HU system heat capacity
  - 100,800 HU/Min. continuous heat dissipation in clinical performance

### **Collimator System**

- Dedicated pre-collimator for flat panel detector
- Collimator Rotation: +/- 90
- Iris Collimator: 50 — 198 mm diameter
- Slot Collimator: 50 — 198 mm diameter
- Virtual Collimation without radiation

### **Operating Values**

- Pulsed Fluoroscopy
  - kV range: 40 — 120 kV
  - mA range: 1.5 — 250 mA
  - pulse width: 7 — 40 ms
  - pulse rate: 1, 2, 4, 8, 12.5, 25 pulses/sec
- Digital Snapshot Mode
  - kV range: 40 — 120 kV
  - mA range: up to 250 mA
- Digital Cine Pulse
  - kV range: 40 — 120 kV
  - mA range: up to 250 mA
  - pulse width: 7 — 40 ms
  - pulse rate: up to 8 pulses/sec, 8 frames / second

### **Flat Panel Detector System**

- 30cm x 30cm, amorphous silicon photodiode TFT technology
- Detector matrix: 1,536 x 1,536 pixels

- Magnifier 1 : 1,024 x 1,024 pixels
- Magnifier 2: 768 x 768 pixels
- System resolution 2.4 lp/mm
- Dynamic Range: 72dB
- Anti-scatter grid
- Laser aimer integrated in detector housing

#### **Monitors**

- Two, ultra-high resolution and brightness, 19" flat screen
- Resolution: 1,280 x 1,024 pixels
- Viewing angle: 178, Tilting +/- 10
- Brightness: 1,000 cd/m

#### **Digital Image Processing**

- Real-Time Processing Functions
  - Recursive Filter: 4 levels
  - Stack filter: 5 levels
  - Edge enhancement: 5 levels
  - Window and level
  - Digital image rotation without radiation
  - Grayscale inversion
  - Digital shutters
- Post processing Functions
  - Edge enhancement
  - Zoom
  - Image rotation
  - Windowing
  - Grayscale inversion
  - Image cropping

#### **Application-Oriented Anatomical Programs**

- Bone, heart, abdomen
- Metal, soft, large patient, pediatric

#### **Object Detected Dose Control**

- Automatic object detection
- Automatic motion detection
- Automatic dose reduction
- Automatic metal correction

#### **Image Acquisition**

- Auto save
- Cine loop, up to 8 frames/second

#### **Digital Image Storage & Archiving**

- 100,000 image memory
- USB 2.0 port, USB stick

#### **User Interface**

- TFT touch screens on C-arm and workstation with Smart-Eye technologist reference image
  - Intuitive icons for easy use
  - Patient annotation
  - SmartArchive for easy, fast image archive access and selection
  - 1, 4, or 16 image mosaic
  - Live image display on C-arm touch screen
- HIPAA security package

- X-ray enable key lock
- Air kerma dose display
- Footswitch
- Additional handrails on C
- New Color Concept
- Emergency Switch on C-arm

#### **Ziehm Netport DICOM Package**

- Includes interface and software for:
  - Storage Class and Storage Commit
  - Worklist Class, including MPPS
  - Query Class
  - Media Class
  - DICOM viewer software with auto-run for DVD or USB

#### **Video Output Connector(s)**

- CCIR (50Hz) connector provides signal for stand-alone printers or standard resolution monitors
- Two video connectors for external DVI display for left and right monitor in landscape mode

3 Sony UP-991AD Printer (paper & film) integrated in (optional) Viewing Station

#### **Z-Complete Care:**

**On-Site Service Coverage and Technical Phone Support Coverage on weekdays from 7:00 am to 7:00 pm (Eastern Time Zone); One Preventative Maintenance (PM) per Year during contract hours; Service may be performed by Ziehm Service Technician or an Authorized Service Provider; Covers Glassware — Full Coverage of the systems 1.1., Flat Detector, X-Ray Tube and Monitors. After-hours service available at standard hourly rate.**

#### **Aspect 100UCPlus Urology and Multi-Purpose Imaging Table**

- Carbon fiber tabletop with low x-ray attenuation
- 2" (5 cm) thick tabletop and tabletop extension pads with memory foam construction and waterproof cover.
- Tabletop dimensions: 28"W x 46"L (71 x 117 cm)
- Radiolucent tabletop extension: 24"W x 34"L (61 x 86 cm)
- Imaging area, main tabletop: 25"W x 20"L (63.5 x 50.8 cm)
- Imaging area, tabletop extension: 24"W x 34"L (61 x 86 cm)
- Total radiolucent imaging area with extension: 54" (137 cm)
- Motorized tabletop motions with hand control and footswitch control:
  - Elevation: 31.3" — 41.1" (79.4 — 104.4 cm)
  - Trendelenburg Tilt:  $\pm 15^\circ$
  - Longitudinal tabletop travel: 10" (25.4 cm)
  - Transverse tabletop travel:  $\pm 3.5"$ , 7" total ( $\pm 8.9$  cm, 17.8 cm total)
- Built-in footswitch storage tray
- Removable radiographic cassette tray, loads from either side of table
- Standard US side-rails for accessory attachments on main tabletop
- Patient weight capacity:
  - With patient upper body on main tabletop: 525 lbs.(238 kg)
  - With patient upper body on extension: 400 lbs. (181 kg)
  - Load capacity on extension only: 200 lbs. (90.72 kg)
- Locking swivel casters, 5" (12.7 cm), for easy transport
- Electrical power required: 115 VAC, 60 Hz, or 230 VAC 50/60 Hz operation (must specify with order). 10 amp max. required at 115V.
- Battery back-up operation
- Warranty: 3 years parts, 1 year labor



**Accessories included:**

- Tabletop Pad, 2" thick, waterproof
- Tabletop Extension, with pad
- Hand control pendant
- Footswitch control
- Drain Bag Support Hoop
- Disposable drain bag and hose ass'y, box of 20
- Removable Radiation Shield Flap for perineal end of table
- Patient Restraint Straps (2)
- Armboard , rail mounted, with pad and strap
- Disposable covers for footswitch, box of 50
- Stirrups Mounting Rail Extender Kit for use with legholders described below or Allen Medical legholders (legholders are sold separately).

***IDI TABLE OPTIONS***

<b><i>Description</i></b>
Lithotomy Legholders (pair), boot style, pneumatic assist with one-hand adjustment, with pads. For patients up to 350 lbs. Includes pair of side-rail clamps.
Lithotomy Legholders (pair), Heavy Duty, boot style, pneumatic assist with one-hand adjustment, with pads. For patients up to 525 lbs. Includes pair of side-rail clamps.
Physician Elbow Supports (pair), removable
Armboard, rail mounted, with pad and strap (1 armboard included with table).
Clamp-on accessory rail for 100UCPlus tabletop extension

**WARRANTY**

IDI warrants that the Covered Products conform to the manufacturer's published specifications and are free from defects in material or workmanship. The duration of the warranty is 36 months on parts and 12 months on labor from the date of delivery (except where otherwise defined in IDI's prevailing Official Product Warranty document). Warranty service will include both parts and labor at no charge. IDI's Official Product Warranty terms and conditions are detailed in a separate document which is available to Buyer on request. The prevailing version of IDI's Official Product Warranty in effect at the date of

purchase order shall be made part of the Purchase Terms and Conditions contained herein and shall contain the sole and exclusive terms and conditions of IDI's Product Warranty.

- 6 Armboard, quick-release, rail mounted (requires Clamp-on Accessory Rail A100-1770, above)
- 7 Clamp-on accessory rail for 100UCPlus tabletop extension
- 8 Lithotomy Legholders (pair), Heavy Duty, boot style, pneumatic assist with one-hand adjustment, with pads. For patients up to 525 lbs. Includes pair of side-rail clamps.
- 9 Physician Elbow Supports (pair), removable
- 10 TradeInAllowance Please note that the trade-in price is valid only for the system that is specified in the introduction section. Serial number must match.

11 ***MDS Mobile Display System, Complete, with High Definition Video Monitors and Router/Controller. System to include:***

- Dual-Arm Mobile Display Stand
- Radiance 26" High-Brightness LCD Widescreen Multi-Modality Video Monitors (Qty of 2).
- ConductOR Video Router/Controller with Touchscreen User Interface
- Dual 8" (20cm) "Preview" LCD Reference Monitors, mounted to MDS stand center column.
- Protective covers for 26" Radiance monitors (Qty of 2).
- Video Cable kit, including common cables/connectors needed for connection of C-arm and other equipment that will be connected to MDS Mobile Display System.

Each component above is detailed below:

**Dual Arm Mobile Display Stand**

The Aspect MDS stand provides a wide-range of vertical and horizontal positioning for convenient placement of video monitors at the desired location during surgical, interventional and diagnostic procedures. The stand includes three (3) equipment shelves for placement of ancillary equipment such as video endoscopy camera control, light source, etc.

- Dual articulating arms with positioning handles and low-force manual motion for easy video monitor positioning.
- Monitor arms provide 36" of fully counter-balanced vertical travel.
- Cable track allows vertical height adjustment of arms without cabling stress.
- Arm radius extends horizontally up to approx 76" (193 cm).
- Stand height (with arms fully retracted): 64.5" (163.8 cm).
- Extended arm vertical height: 96" (243.8 cm).
- Monitor mounts: 100 x 100 mm VESA mounting bracket
- Built-in, adjustable equipment racks, 19.75" (50 cm) wide x 18.5" (47 cm) depth, qty. of three (3).
- Lockable double-wheeled 6" casters with cable pushers and rear casters include steering lock position for easy transport.
- Ergonomic transport handles, front and rear, for easy transport and positioning.
- Built-in storage compartment for monitor protective covers
- Built-in isolation transformer and 8-outlet AC power strip for connection of video components and ancillary equipment.

**26" Radiance® G2 HB (High-Brightness) LCD Widescreen High-Definition Video Monitor (#C000-0901), Qty of 2.**

LED backlight technology for very high brightness. Full multi-modality with multiple inputs. Switchable source video display and single image, picture-in-picture, or split-screen mode. Resolution: 1920 x 1080. Aspect ratio: 16:9. Brightness: 700 cd/m2 (typical). Picture size: 22.7" x 12.7" (576 x 324 mm).

**ConductORTM G2 Video Router/Controller**

Medical imaging video router with touch-screen operator control. Allows any input to be routed to either monitor and allows any two inputs to be displayed at monitor in picture-in-picture or split screen format. Allows various inputs to be used without hardware changes to monitor connections:

- Unit is configured with 8 video input connections to include:
  - DVI-D (3)
  - 3G-SDI (1)
  - S-Video (1)
  - Component (1)
  - VGA/SOG (1)
  - DVI-I/RGBS/YPbPr (1)
- Unit is configured with 3 video output connections to include:
  - 3G-SDI (2) - these are used for connection to system monitors
  - DVI-D (1) - for connection of external device such as printer, DVR, etc.
- Unit also has audio input/output connections and Ethernet connection for IP network.

Size: 14" W x 5.2" W x 15.5" D (394 x 46 x 391 mm)

#### **Dual, 8" "Preview" LCD Reference Monitors**

The Preview monitors are mounted to the MDS stand center column above the top shelf for easy visualization of video routing while operating the ConductOR touchscreen control. The left and right Preview monitors serve as visual reference only - to display what is displayed on the left and right 26" monitors that are mounted to the MDS articulating arms.

#### **Padded, Protective Covers for 26" Radiance Monitors (Qty of 2).**

Foam padded construction for monitor glass protection during transport and storage. Cleanable fabric cover material with Velcro straps for easy cover attachment and removal.

#### **MOBILE C-ARM CABLE CONNECTOR KIT:**

Choice of one of following cable kits is included with system at no extra charge. Must specify with order. Contact IDI regarding prices on additional cable kits:

**A280-0325 Cable Kit for GE OEC C-arm;** Video connection kit including qty. (1) 6 ft. internal SVGA HD15 to BNC RGBS (SOG) connector cable; qty. (1) dual BNC connector panel; qty. (1) DVI to BNC adapter cable; qty. (2) external 25 ft. BNC 75 ohm coaxial cable; qty. (1) 7.5 ft. BNC cable and Endo Cable Kit A280-0331 (see below). NOTE: This kit also compatible with Ziehm or Philips C-arms if using BNC coax analog video output

**A280-0327 Cable Kit for Philips C-arm;** Video connection kit including qty. (2) internal DVI to HDMI 5 ft. cable; qty. (1) dual DVI to HDMI connector panel; qty.(2) DVI male to HDMI female adapters; qty. (2) external 15 ft. HDMI cable and Endo Cable Kit A280-0331 (see below).

**A280-0326 Cable Kit for Siemens C-arm;** Video connection kit including qty. (2) internal SVGA to SVGA 5 ft. internal cables; qty. (1) dual SVGA connector panel; qty. (1) DVI-I/SVGA HD15 adapter; qty. (2) external 20 ft. external VGA cable and Endo Cable Kit A280-0331 (see below).

**A280-0328 Cable Kit for Ziehm C-arm;** Video connection kit including internal qty. (2) DVI to DVI 5 ft. internal cables; qty. (1) dual DVI connector panel; qty. (2) external 10 ft. DVI cable and Endo Cable Kit A280-0331 (see below).

NOTE: if using BNC coax video outputs on Ziehm C-arm, use kit #A280-0325, above.

**A280-0331 Cable Kit for Endoscopy and Ultrasound system connection:** Includes qty. (2) 2 ft. BNC right angle; qty. (1) 3 ft. DVI-D cable; qty. (1) DVI to HDMI-D cable; qty. (1) 15 ft. BNC cable; qty. (1) S-Video connector adapter; qty. (1) HDMI Connector panel; qty. (1) quad BNC connector panel; qty. (1) 5 ft. S-Video cable; qty. (1) 20 ft. S Video cable. *(This kit is included with C-arm cable kits above)*

#### **AC INPUT POWER OPTIONS:**

**(Must specify one selected Power Option below with order)**

#### **MDS Power Option 1: North America Version, 15 amp.**

For connection to 110-120VAC, 60 Hz, 15 amp outlet. Includes built-in 1,800 Watt isolation transformer and 15 amp power cord and hospital grade plug. Maximum allowable combined load on MDS power strip = 12 amp.

#### **MDS Power Option 3: EU Version.**

For connection to 220-240 VAC, 50 Hz, 10 amp outlet. Includes 2,200 Watt isolation transformer, power cord and plug (must specify country). Maximum allowable combined load on MDS power strip = 7.5 amp.

**IDI MDS INSTALLATION AND ACCESSORIES**

Description
Installation by IDI in continental US. Includes two-days operator training.
Installation by IDI in Alaska or Hawaii, including two-day operator trainin..
Installation by IDI in Canada, including two-day operator training.
<b>CO2 Gas Bottle Holders Kit</b> Pair of holders for type E gas cylinders (for insufflator use) mounted to sides of MDS stand.

**Notice:** *Radiance and ConductOR are trademarks of NDS Surgical Imaging.*

**WARRANTY**

This MDS system includes a 12 month warranty on parts and labor (warranty labor is Distributor responsibility outside the USA). Video displays and router are not repairable at customer site. Warranty repair is provided via exchange/loaner program in which replacement monitor or router is delivered to customer and defective monitor or router is returned to IDI in the same shipping box for factory repair. See Official Warranty Document for details.