

PURCHASE ORDER: 512-A40358
SHIP TO: WAREHOUSE
V.A. Medical Center
VA MEDICAL CENTER
3900 LOCH RAVEN BLVD
BALTIMORE, MD 21218

EQUIPMENT		QTY
Vision RFD 31 Motorized for General Purpose ⁽²⁾		1
Wireless footswitch (replaces included standard footswitch) ⁽³⁾		1
HIPAA Security Package ⁽⁴⁾		1
Sony UP-991AD Printer (paper & film) ⁽⁵⁾		1
Netport DICOM Package ⁽⁶⁾		1
WLAN W1 Kit ⁽⁷⁾		1
DICOM Viewer software with auto run for DVD or USB ⁽⁸⁾		1
Smart Vascular Package ⁽⁹⁾		1
Three consecutive days of additional in-service ⁽¹⁰⁾		1
Z-Complete Care: on Vision RFD 30 MOT PER YEAR ⁽¹¹⁾		1

TRAINING	QTY
Z-Academy Care: Service Training Tuition on Vision RFD 30 MOT ⁽¹⁾	1

PRODUCT SPECIFICATIONS

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VISION RFD Flat Panel Digital Mobile C-arm motorized on four axes for General Purpose and 25 kW Generator - CMOS Line

Unsurpassed digital image quality with optimum dose efficiency. Four motorized axes movements with distance control for collision protection. Designed to perform a wide range of surgical imaging applications including pediatric with leading edge technology and state-of-the-art functionality. System includes 3k x 3k high resolution, 31 cm x 31 cm flat panel CMOS detector digital imaging, rotating anode x-ray tube, high-power 25kW generator and Unique Liquid Cooling of x-ray tube/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

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

X-ray Tube

- Rotating anode x-ray tube with 0.3/0.6 mm focal spots
- Max. anode heat content; 260 kJ/ 365 kHU
- Max. anode heat dissipation: 1,000W
- Tube housing heat capacity:
 - Advanced Active Cooling and heat management system
 - 10 million HU system heat capacity
 - 102,00 HU/Min. continuous dissipation in clinical performance

Collimator System

- Dedicated asymmetric collimator for flat panel detector
- Collimator Rotation: +/- 90
- Iris Collimator: 50 – 289 mm diameter
- Asymmetric slot Collimator: 50 – 289 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

Flat Panel Detector System

- 30.7 cm x 30.7 cm, CMOS technology
- Detector matrix: 3,072 x 3,072 pixels
 - Magnifier 1: 2,048 x 2,048 pixels
 - Magnifier 2: 1,536 x 1,536 pixels
- System resolution 4.7 lp/mm
- Dynamic Range:
 - 1 x 1 binning: 84 dB
 - 2 x 2 binning: 95 dB
- Anti-scatter grid: 70 lines/cm; grid ratio 8:1
- Laser positioning device integrated in detector housing

Monitors

- Two, ultra-high resolution, anti-glare and high-brightness, 19" flat screens
- Resolution: 1,280 x 1,024 pixels
- Viewing angle: 178, Tilting +/- 10
- Brightness: 1,000 cd/m²

Digital Image Processing

- Real-Time Processing Functions
 - Recursive Filter: 4 levels
 - Stack filter: 5 levels
 - Edge enhancement: 5 levels
 - Windowing and step windowing
 - Digital image rotation without radiation
 - Grayscale inversion
 - Digital collimators
 - Object Detected Dose Control (ODDC)
 - Ziehm Adaptive Image Processing (ZAIP)
- Post processing Functions
 - Edge enhancement
 - Zoom
 - Image rotation
 - Windowing and step windowing
 - Grayscale inversion
 - Image cropping

Application-Oriented Anatomical Programs

- Bone, Extremities, Trunk
- Heart, Abdomen, Soft
- Metal, Large Patient
- Pediatric

Object Detected Dose Control (ODDC)

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

Image Acquisition

- Auto save
- Digital cine pulse with cine loop up to 25 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 Monitor Cart 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
- X-ray enable key lock
- Air kerma dose display

	<ul style="list-style-type: none"> • New Color Concept • Emergency Switch on C-arm and Monitor Cart • Footswitch
	Video Output Connector(s) CCIR connector provides signal for stand-alone printers or standard resolution monitors
3	Wireless footswitch (replaces included standard footswitch)
4	HIPAA Security Package
5	Sony UP-991AD Printer (paper & film) integrated in (optional) Viewing Station
6	Netport DICOM Package <ul style="list-style-type: none"> • Includes interface and software for: Storage, Worklist (including MPPS), Query and Media-Class
7	Ziehm WLAN W1 Kit (one access point at the Monitor Cart) NOTE: The possibility of integration into an existing WLAN network has to be confirmed by Ziehm Imaging individually
8	DICOM Viewer software with auto run for DVD or USB (Included on all models except Vision ² for General Purpose)
9	Smart Vascular Package <ul style="list-style-type: none"> • Innovative SmartVascular user interface • DSA, Maximum Opacification (MSA), and Roadmap (RSA) functions • Pixel shift and Landmarking • Anatomical Marking Tool • Digital Cine Pulse with 12.5 frames per second cine-loop • Extremity, torso, and bolus chase programs for optimized image quality • Toggle footswitch (replaces 2 button)
10	Three consecutive days of additional in-service by Ziehm ARRT certified Applications Specialists. In-service training must be performed within 12 months from date of installation.
11	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 I.I., Flat Detector, X-Ray Tube and Monitors. After-hours service available at standard hourly rate.
1	Z-Academy Care: Service Training Tuition on Vision RFD 30 MOT (Excludes airfare and hotel)