

**1 OEC 9900 Elite™ Digital Mobile Standard C-arm ESP (Expanded Surgical Platform with 12" I.I.)**

**High performance mobile C-arm for use in general surgical procedures. Provides flexible mechanical features, rotating anode x-ray tube, user-friendly touch screen user interface, and superb image quality.**

**The physical dimensions and the open design of the C-arm allow the system to be easily transported throughout the hospital and provide unobstructed imaging access around the patient and procedural table.**

**Digital Image Processing and Workstation**

- Dynamic Range Management (DRM) controls for image management
- Four pre-set imaging profiles for optimized anatomical capture
- Dual articulating, high resolution flat screen black & white monitors
- Integrated keyboard touchpad - cursor/tap controls
- DICOM 3.0 interface with send and query/retrieve
- CD/DVD on-board media storage, read/write compatible
- USB 2.0 mass storage device, write only, .jpg/.bmp/.avi file formats

**Generator**

- 60kHz high frequency
- 15kw power
- Up to 120kVp
- Up to 75mA for radiographic film exposure
- Continuous high level fluoro (HLF) up to 20mA
- Digital spot up to 75mA
- Full Power from standard wall outlet
- Patented battery buffered design

**X-ray Tube**

- Rotating Anode X-ray tube
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- 0.3mm and 0.6mm focal spots
- Anode heat capacity: 300,000 HU (per IEC 60613)
- Anode cooling rate: 85,000 HU/min.
- Housing heat capacity: 1,600,000 HU
- Standard housing cooling 22,500 HU/min.

#### **Digital Image Rotation**

- Digitally adjusts image display
- Automatic image update:
  - Image rotation
  - Image reversal (side-to-side)
  - Image invert (top-to-bottom)
- Image positioning without additional exposure

#### **PreView™ Collimator**

- On-screen collimator position indication
- PreView™ iris collimator
- PreView™ Tungsten rotatable double leaf collimator
- Adjusts collimator without X-ray exposure

#### **Fluoro Mode**

- kVp range: 40 - 120
- mA range: 0.2 - 10
  - 1.0 - 20 HLF (high level fluoro)
- Auto and manual fluoro modes
- AutoTrak™ ABS varies mA, kVp, camera gain

#### **Pulsed Fluoro Mode**

- kVp range: 40 - 120
- mA range: 0.2 - 10
- Pulse rate: 1,2,4,8
- Pulse width: 25 or 50ms
- AutoTrak™ ABS, mA, kVp, camera gain
- Reduces X-ray dose to patient and operator

#### **High Level Pulsed Fluoro**

- kVp range: 40 - 120
- mA range: 1 - 40
- Pulse rate: 1,2,4,8
- Pulse width: 25 or 50ms
- AutoTrak™ ABS, mA, kVp, and camera gain

#### **Digital Spot Mode**

- kVp range: 40 - 120
- mA range: Up to 75
- Automatic exposure termination and automatic image save

#### **Radiographic Mode**

- mA range: Up to 75
- mAs range: Up to 300
- Computer controlled exposure time

#### **12" Intensifier**

- Tri-mode 12"/9"/6" (31cm/23cm/15cm) image intensifier
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- Minimum central resolution (at the monitor):
  - 12" (31cm): 1.6 lp/mm
  - 9" (23cm): 2.2 lp/mm
  - 6" (15cm): 2.6 lp/mm
  - DQE: 65% (typical)

**Precision imaging with Dynamic Range Management (DRM) enhances features of interest while attenuating background noise.**

- Preset Imaging Profiles
  - 9800
  - General
  - Orthopedic
  - Spine

**AutoTrak™**

- Automatic Brightness Stabilization (ABS)
- Automatically seeks the subject anatomy anywhere within the imaging field and selects the optimum imaging technique
- Automatically adjusts to anatomical size and location
- Provides uniform image quality throughout entire image
- Simplifies operation

**Image Quality**

- Smart Window:
  - Dynamically senses the collimator position and automatically adjusts brightness and contrast to produce high image quality
- Smart Metal:
  - Allow user to adjust automatic brightness and contrast sensitivity levels to metal
  - Provides optimum image quality even when metal is introduced to the field
- Tungsten Collimator:
  - Denser collimator limits X-ray exposure area
  - Reduces scatter radiation
  - Improves image detail

**Video Camera**

- High resolution 1k x 1k CCD camera
- Full frame capture
- Motorized rotation
- On-screen orientation indicator (real-time feedback without fluoro)
- Left-right image reversal
- Top-bottom image invert

**Video Display**

- Dual display anti-glare, LCD flat panel monitors mounted on an articulating arm:
    - Left hand Black & White monitor, Right hand Color monitor
    - 22" horizontal travel
    - 7° up/10° down
    - Monitors viewable from all four sides of workstation
    - Horizontal and vertical viewing angle 170°
    - 1200 CD/M2 maximum brightness
    - Touch screen system control
    - 1280 x 1024 high resolution monitors
    - OEC 9900 TechView Reference Monitor:
      - 9" LCD Display mounted at C-arm mainframe
      - Reference quality real-time video of left live-image C-arm
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- 270° rotation, +30/-5° tilt

### **ESP Platform**

- 1k x 1k x 16 image processing
- Preset Imaging Profiles:
  - 9800
  - General
  - Orthopedic
  - Spine
- Noise filter with on-screen indicator
- Minimal difference spatiotemporal noise filter (MDST)
- Real-time dynamic range management (DRM)
- Automatic digital brightness and contrast control
- Manual digital brightness and contrast control
- Negate mode
- Save and auto-save feature
- Swap and auto-swap feature
- Patient information:
  - Examination list
  - Customized patient information
- Customize functions:
  - Workstation set-up
  - Mainframe set-up
  - Patient Information set-up
  - Date/time set-up
  - DICOM interface set-up
- Last image hold
- 1000 image storage
- CD/DVD burner with DICOM viewer for displaying images on PC platforms 512 x 512 or 1k x 1k
  - Integrated DICOM interface (store, print, worklist and query/retrieve)
    - HIPAA SecureView:
      - Password protection
      - Blank screen function
      - Delete all
    - Zoom and roam function
    - Image annotation
    - Measurement software

### **User Interface**

- Entire system is computer controlled and software upgradeable
- Touchscreen controls simplifies operation
- Automated system operation requires minimum operator interface
- Multi-functional controls:
  - Footswitch
  - Hand-held control
- Simplified keyboard with integrated touchpad
- Multi - purpose image directory:
  - Retrieve and review images
  - Compose hardcopy films
  - Copy images
- X-ray dose summary

### **C-arm Mechanics**

- Counterbalanced, manual adjustment of orbital rotation, cranial-caudal rotation, wig-wag and horizontal motion
  - Patented flip-flop C-arm reversal (SmartView)
  - 31" free space, 28" depth in arc, 115° orbital rotation
  - Dual, illuminated C-arm operator control panels
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### **OEC Clinical Excellence Onsite Training**

- Pre-training package with interactive CD-ROM
- Up to two days\* of in-service by our ARRT certified Clinical Imaging Specialists (CIS) during the one-year warranty period.
- Post-training skills assessment & test.
- Participants may be eligible for Continuing Education (CE) credits from the American Society of Radiologic Technologists\*\*

### **Notes: WSP - Wireless Service Platform**

- The OEC 9900 comes with a device called the WSP which facilitates these capabilities:
  - USB 2.0 mass storage. The USB functionality is write only, and saves images in .jpg/.bmp/.avi file formats. USB storage devices must be unencrypted and unprotected.

### **Warranty**

- One Year Warranty

### **Notes: OEC Clinical Excellence Onsite Training**

\* Onsite training provided from 8am to 5pm, Monday through Friday. Includes all CIS travel & living expenses.\*\* Training produces the best results when a dedicated core group of technologists complete the session. Those who complete the entire OEC Clinical Excellence curriculum should be competent to perform the tasks required for basic operation of the system. Competency will be measured through a skills assessment completed while the CIS is on-site.

### **Extended Installation**

1 **12" Twelve Month Extended Warranty, 9900**

1 **Sony UP-991AD hybrid graphic printer**

1 **IDI MDS Mobile Display System, Complete, with High Definition Video Monitors and Router/Controller**

**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.

### **Specifications:**

- 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:
  - 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) - 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.
  - Dual 8" (20cm) "Preview" LCD Reference Monitors, mounted to MDS stand center column;
  - Protective covers for 26" Radiance monitors (Qty of 2);

**AC Input MDS Power:**

- 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 power strip = 12 amp.
  - Maximum allowable combined load on MDS Option 2 power strip = 15 amp.

**Accessories included:**

- Cable Kit for GE OEC C-arm includes cable kit for endoscopy system connection;
  - Video Connection Kit includes:
    - Qty (2) 6 ft. internal VGA to BNC RGBS (SOG) connector cable;
    - Qty (1) dual BNC connector panel;
    - Qty (1) VGA/DVI adapter;
    - Qty (2) external 20 ft. BNC coaxial cable.

**WARRANTY:**

- MDS warranty terms are specified and service provided by the manufacturer during the 12 month warranty period for parts and labor.
  - 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.

**During this period any warranty claims should be addressed directly with the manufacturer:**

- Image Diagnostics, Inc.
- 310 Authority Drive
- Fitchburg, MA 01420
- (978) 829-0009 Fax (978) 829-0027

**1 Installation, Continental USA**

**1 IDI Co2 Gas Bottles Holder Kit for MDS**

**1 CI, IDI, SLIDE OUT TRAY, GI, MDS**

**1 IDI Aspect 100UC Plus Fluoroscopic Procedure Table**

**Multi-Purpose Mobile Urological Imaging Table with motorized Elevation, Trendelenburg Tilt Longitudinal and Transverse Tabletop Motions**

- Carbon fiber tabletop with low x-ray attenuation
- 2" (5cm thick tabletop & 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)
- Motorized Tabletop motions with hand control and foot control:
  - Elevation 31.3" – 41.1" (79.4 – 104.4 cm)
  - Trendelenburg Tilt  $\pm 15^\circ$
  - Longitudinal tabletop travel = 10" (25.4cm)
  - Transverse tabletop travel =  $\pm 3.5$  ( $\pm 8.9$  cm, 17.8cm 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: 250 lbs. (113.4 kg)
- Table weight: 575 lbs. (261 kg)
- Locking swivel casters, 5" (12.7 cm), for easy transport
- Electrical power required: 110 VAC, 60 Hz, or 230 VAC 50/60 Hz operation (must specify with order). 10 amp max. required at 110V.
- Battery back-up operation

**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 assembly, box of 20
- Removable Radiation Shield Flap for perineal end of table
- Patient Restraint Straps (2)
- Armboard (1), rail mounted, with pad and strap
- Disposable covers for footswitch, box of 50

**Warranty:**

- Image Diagnostics Inc. (IDI) products are warranted to be free from failures due to defects in materials or Workmanship for a period of 3 years for parts and 1 year for labor.
- During this period any warranty claims should be addressed directly with IDI.

**1 Pneumatic assist heavy duty boot-style stirrups, 1 pair, includes**

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**2 side rail clamps**

- 1 CI, IDI, REPLACEMENT PADS, PAIR, FOR HEAVY DUTY STIRRUPS**
  
- 1 9900 Service Technical Training, 2 Weeks – Full Course. Training must be completed (1) one year from installation of System.**
  
- 1 Government Accounts Airfare for OEC Training Cost Expenses**
  
- 1 EXPENSES, 13 DAYS, MEALS**
  
- 1 Miscellaneous Item - De-install, removal and disposal of Existing 2800**

## **SCOPE OF WORK:**

### **DIVISION 1 – GENERAL REQUIREMENTS:**

1. Provide full time on-site supervision of the work.
2. Prepare and maintain a construction schedule for the work.
3. Coordinate power and other utility shutdowns with facility representative.
4. Coordinate materials delivery with facility representative.
5. Remove rubbish and debris as it accumulates.
6. Provide required temporary facilities, including but not limited to:
  - Install temporary barriers / structures to secure work areas for safety purposes, noise reduction, and dust containment.
  - Temporarily seal supply and return air diffusers to minimize contamination of ductwork and surrounding areas.
  - Provide foot mats at work area entrances and exits.
  - Provide Infection Control, negative pressure system.
7. Comply with OSHA requirements related to our performance of the work.
8. Abide by facility rules and regulations in effect at the site.

### **DIVISION 2 –Demolition:**

1. Remove the existing floor drain grate in OR room as required and cap off.
2. Remove sink in adjacent room and cap off all lines and drain.
3. Safe off all electrical and demo items necessary for remodel.
4. Demo existing wall partition between OR room and adjacent area with sink

### **DIVISION 3 – Concrete:**

1. Drill 8-5/8" on center A307 bolts thru concrete floor and metal deck (holes to be 1/16" larger than bolt diameter max.) to iron struts or a 30"x30" plate located in the interstitial space below to anchor NuBoom tower.

### **DIVISION 4 – Masonry: NA**

### **DIVISION 5 – Metals:**

### **DIVISION 6 – Woods, Plastics and Composites: NA**

**DIVISION 5 – Metals:**

**DIVISION 6 – Woods, Plastics and Composites: NA**

**DIVISION 7 – Thermal and Moisture Protection:**

1. Provide proper seals where renovations disturb break thru existing materials.

**DIVISION 8 – Openings/Doors/Frames/Hardware//Glass & Glazing: NA**

**DIVISION 9 - Finishes:**

1. Use 5/8" X- gypsum board material both sides of new wall up to existing ceiling.
2. Patch and paint with two coats anywhere the renovations disturb
3. Patch ceiling as needed.
4. Patch sheet vinyl flooring. Flash cove base on surgery side and 6" rubber base on opposite side.
5. Frame new 3 5/8" 20 steel stud wall
6. Add new receptacles in framed wall.
7. Tape, sand and paint new gypsum drywall.
8. Allowance made for some patch and match work in adjacent Exam room due to sink reinstall.
9. Final cleaning.

**DIVISION 10 - Specialties: NA**

**DIVISION 11 - Equipment: NA**

**DIVISION 12 - Furnishings: NA**

**DIVISION 13 – Special Construction Shielding: NA**

**DIVISION 14 – Conveying Equipment: NA**

**DIVISION 21 – Fire Suppression:**

1. Minimum work is anticipated in this renovation.

**DIVISION 22 – Plumbing:**

1. Cap off all necessary existing plumbing.
2. Extend existing plumbing for scrub sink in Exam room to new sink location. (approx.. 36")

**DIVISION 23 – HVAC:**

1. It is assumed that the existing HVAC system is in good working order and is of adequate capacity to support the new GE system.
2. Provide HEPA filters and fans

**DIVISION 26 - Electrical:**

1. Provide and install the necessary new conduits, junction boxes, wires, etc in the new modified wall.

**DIVISION 32 – Exterior Improvements: NA**

**DIVISION 33 – Utilities: NA**

**DIVISION 34 – Transportation: NA**

**CLARIFICATIONS:**

1. **Due to continuous increases in construction material and labor costs, this proposal is valid for 60 days and is subject to review and revision thereafter.**
2. This majority of this proposal is based on all work being performed on regular time, Monday through Friday, 8:00 a.m. to 5:00 p.m. with some off hours as it pertains to noise level conditions.
3. This proposal was developed from similar project of this type. Any hidden and unknown conditions uncovered during the course of construction could result in additional costs and will be added to this proposal by change order.
4. The following items **are not included** in the scope of this proposal:
  - a. Performance and Payment Bond premium.
  - b. State Sales Tax. This proposal is based on receipt of a Tax Exempt form from the facility.
  - c. Removal of existing modalities, furniture, and equipment within work area.
  - d. Provisions for temporary mobile equipment for use during construction.
  - e. Vibration Isolation or Vibration Testing.
  - f. Installation and termination of vendor supplied cables and / or equipment.
  - g. Identification and / or removal of hazardous materials.
  - h. The relocation of any existing piping, conduits, ducting, etc. that might interfere with the new installation.
  - i. Correction of any existing code deficiency found in existing areas affected by the work Fire Alarm, Nurse Call, Code Blue, Telephone, Data, Security, Music or Paging systems.