- Includes 12 Month Service Warranty.

RR/CM80DR/WS.000 **RADREX-I CEILING-SUSPENDED DIGITAL RADIOGRAPHY SYSTEM 80 KW WITH ONE STATIONARY 17X17" DR PANEL AND ONE WIRELESS 14X17" DR PANEL**

RADREX-i mixed-detector radiographic system is engineered to improve productivity and workflow, and provide value beyond any other system in its class.

The integrated components make program set-up and patient positioning easier with features that automate patient data entry, detector tracking and image processing. In addition, the superior processing power for optimized images reduces post processing after an exposure and saves time during an examination.

High-productivity features are standard in the system. Patient care is improved with the tube-side access to examination controls and the in-room image display allows point-of-care decision making. And bariatric exams are made easy with a 600 lb. table weight limit, 600 kHU X-ray tube and 80kW generator all standard.

In short, RADREX-i does everything more economically with an unprecedented ease-of-use for both patients and technologists.

COMPONENTS
- Integrated control console
- 80 kW/150 kVp radiographic generator
- 600,000 HU X-ray tube
- Motor-driven elevating table
- Automatic exposure control
- Automatic/manual collimator
- 14"x17" wireless digital image receptor for table
- 17"x17" digital image receptor for wall stand
- Ionization chambers for wall stand and radiographic table
- Ceiling-suspended tube support
- Tilting vertical bucky wall stand
- High voltage cables
- PDU (Power Distribution Unit)

KEY FEATURES

RexSpeed Productivity Features
Automation comes standard with RADREX-i including the following RexSpeed features:
- Auto-Mapping — selects the Anatomic Program Control (APC) for each specific X-ray procedure, to ensure optimal image quality to help minimize repeats.
- Auto-Center Stop - provides visual guidance for quick and easy detector centering
- Auto-collimation — automatically selects the correct collimation size for the programmed field of view, saving crucial time for the patient and technologist.
- Auto-Tracking — eliminates the need to manually position the X-ray tube and detector by providing synchronization for table and wall stand tracking.
- Auto-Park — raises the X-ray tube after the exam with a single touch, giving the patient room to safely sit or stand following the procedure.

- Auto-field detection – automatically centers the image on the monitor, allowing for off-center exposures on the detector.

Control Console
Integrated workstation provides patient entry, generator controls, post-processing and documentation into a single point-of-contact. The easy-to-use intuitive user interface helps streamline workflow and accelerate throughput.

Overhead Tube Crane
Highly flexible OTC is capable of almost any angle, pivot and swivel combination for positioning freedom. The OTC provides tube-side access to examination controls, allowing point-of-care decision making to improve patient care.
- All free grip for maximum maneuverability
- Increased range of travel
- RexView - Color LCD touch panel
  - Patient information display
  - Access to generator programs
  - Image Preview
  - Send images to PACS
  - Rotating display mechanism
- In-room image display – increases productivity and promotes improved patient care

Digital Acquisition
RADREX-i provides filmless radiography with state-of-the art, flat-panel, digital detectors that provide excellent detailed radiographic images for optimized patient care. Combined with various image-processing functions and an expansive dynamic range, RADREX-i delivers high-image resolution for greater diagnostic confidence.

Image Enhancement

RADREX-i Digital Radiographic System nearly eliminates retakes due to a host of image-quality enhancements that can be programmed into individual APC programs to help increase productivity and ensure superior image quality.

- Display enhancement processing adjusts contrast density areas of an image
- Digital compensation filter provides enhanced contrast in under-penetrated or over-penetrated areas
- f-Processing provides soft tissue and bone visualization
- Auto field detection locates collimated edges of image for automatic electronic shutter placement
- Image sharpening brings out more visible detail
- Grayscale transformation ensures high-quality data
- Automatic adjustment of image size to the collimated area

SPECIFICATIONS

Integrated Control Console

- Windows 7 Professional with single Pentium IV 2.6 GHz
- 80 GB x 2 IDE hard drive
- Storage capacity of 5,000 images
- 19" LCD color flat-panel screen monitor
- Image preview available in less than 3 seconds
- Multiple operator function capabilities
- DICOM 3.0 compatible (send, print, storage class)
- DICOM MWM and MPPS
- DICOM RDSR
- Includes: Battery Charger for REXPanel
- Includes: 3 Batteries for Charger
- Reject reporting software
- Manual Stitching Software
- Optional : Auto-Stitching Software
- 2 Ethernet interfaces (10/100 Base-T, 1000 Base-T)

80 kW/150 kVp Radiographic Generator
- High-frequency power (Inverter)
- 80 kW output
- mA range: 10 to 1000
- kVp range: 40 to 150 kVp, 1 kVp steps
- mAs range: 0.5 - 600
- Timer range: 1 msec – 9 seconds
- Anatomical Programmed Radiography (APR), 10,000 views
- Automatic APR selection with RIS information
- Integrated control console used for APR and technique information; includes date/time feature
- Integrated diagnostic functions to improve system up-time
- High-speed starter

X-Ray tube
- Focal spot: 0.6/1.2mm
- Anode angle: 12 degrees
- Anode heat capacity: 420 kJ (600,000 HU)
- Heat dissipation: 1750 W (2465 HU/sec)
- Anode speed: 9700 RPM
- Anode diameter: 100mm

Elevator Bucky Table
- Designed to accommodate the 14"x17" wireless detector in the portrait or landscape mode
- Patient weight limit 600 lbs.
- 4-way floating table top
- Motorized elevating range: 20" – 37.4"
- Tabletop dimensions: 32.2"x93.7"
- Table longitudinal movement: 31.4"
- Table transverse movement: 9.4"
- Detector travel: 21"
- 110 cm focusing distance
- 78 lines/cm grid density with 10:1 grid ratio
- Tabletop filtration: <0.6 mm AL

REXPanel 14"x17" Wireless Detector
- 14"x17" imaging sensor panel
- Amorphous silicon (a-Si) sensor technology
- Cesium Iodide (CsI) scintillator
- 35x42 cm active area
- High-precision, 7.75 million-pixel resolution
- Pixel pitch: 139 µm
- Grayscale: 65,536 grayscale (16 bits)
- Weighs 3.5 kg (7.7 lbs) with battery
- Detachable Tether cable included

Ceiling-Suspended Tube Support
- Vertical tracking to maintain SID when table is raised or lowered
- Vertical tracking to maintain horizontal alignment when wallstand is raised or lowered
- Auto-Park key drives the overhead tube into its highest vertical positioning to facilitate easy patient transfer on/off the table
- Longitudinal movement: 445 cm (175")
- Lateral movement: 230 cm (90.5")
- Vertical movement: 150 cm (59")
- Minimum focal spot-to-floor distance: 42 cm (16.5")
- Tube rotation
- Vertical axis: ±180 degrees; detents 0, ±90 degrees
- Horizontal axis: ±180 degrees; detents 0, ±90 degrees

Automatic Collimator
- Collimator with light
- Automatic shutter control with manual override
- Rectangular blades
- Additional independent collimator blade for offset collimation
- Beam-hardening filter to help reduce soft radiation
- Pre-formatted sizing

- Field-of-view is automatically set from APC selection
- Detector centering indicated by shadow crosshair
- Bucky tray centering indicated by laser light
- Swivel mount enabling ±45 degrees

Vertical Tilting Wallstand
- Patient name and ID display
- Center column mount
- Motorized vertical detector tracking
- Three rectangular ion chambers
- Tilting range from -20 to 90 degrees
- Tilt angle indicator
- Vertical travel: 50"
- Foot Switch for motorized height adjustment
- Hand Switch for manual height adjustment
- 150 cm focusing distance
- 78 lines/ cm grid density with 10:1 grid ratio
- Patient Hand Grips and Lateral Support Bar
- Includes Wall Stand Operating Control Box
  - Enhances patient safety
  - Can be mounted on the left or right side
  - Provides pre-set collimation settings
    - 8"x10" to 17"x17"
    - Portrait or Landscape
  - Allows manual collimation
  - Independent collimator for fine beam tuning
  - Off-set collimation (high, med, and low)
  - Collimator light control

17"x17" Digital Image Receptor for Wall Stand
- 17"x17" imaging sensor panel
- Amorphous silicon (a-Si) sensor technology
- Cesium Iodide (CsI) Scintillator

- 43x43 cm active area
- High-precision, 9-million-pixel resolution
- Pixel pitch: 139 µm
- Grayscale: 16,387 grayscale (14 bits)
- Includes mounting hardware
- No active cooling required

X-ray Tube Warranty
All X-ray tubes carry a 12-month, non-prorated warranty.
- Initial 12 months – free replacement
- If a tube fails within the first 12 months, it will be replaced at no cost to the customer
- The replacement tube will carry the free replacement warranty for the remainder of the 12 months from the time of the first installation.

Image Maker Express
Image Maker Express is an online marketing resource that helps customers build demand for imaging service by growing their referring physician and patient relationships. Image Maker Express includes:

- Easy-to-use marketing resources and tools developed exclusively for customers to bring together effective marketing strategies and tactics.
- A wealth of collaterals and content to create high-quality brochures, print ads and more to help market the customer's new imaging capabilities.

Image Maker Express Materials available include:
- Product images and logos
- Clinical images and videos
- PowerPoint presentations and promotional videos
- Brochure samples
- Customizable press releases and media tips
- Marketing strategy tutorials

Offerings may vary per product

APPLICATIONS SUPPORT

Two-phase, on-site training session is included with purchase of the system:

Pre-requisite: Toshiba eLearning

- Digital Imaging Principles CBT located on the Learning Center Website.

Phase One: Initial On-Site Training

- 32 hours of training for up to four technologists following installation.
- Includes generator setup, complete overview of system operation and technique review.
- Imaging of patients to evaluate image quality.
- This training is scheduled in advance.

Phase Two: Second On-Site Training

- 16 hours of follow-up training for up to four technologists.
- This training is scheduled in advance, four-to-eight weeks after the initial training.
- Follow-up visit must take place within 6 months of the initial turnover.

The training is offered to the Customer at no charge, providing that it is completed no later than one (1) year after the warranty start date.

Additional On-Site Training:

Additional On-site training available for purchase.

Applications support is available by phone on the toll-free ASSIST line.

COMPONENT SUMMARY:

RADREX-I CEILING-SUSPENDED 80 KW MIXED DETECTOR DIGITAL RADIOGRAPHY SYSTEM -- WITH STANDARD OTC RAILS

REJECT ANALYSIS SOFTWARE
A quality assurance tool that allows images to be captured and categorized by technologist for follow-up quality review. The reject report can be exported to the network shared folder of this device as a MHT file.
- Captures reasons for rejection
- Reports percentage of accepted and rejected images
- Fields and date ranges are set by administrator
- Rejected image is associated with reject list
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19" LCD MONITOR WITH TOUCH PANEL

VBS HAND GRIP FOR LATERAL RADIOGRAPHY
Hand grip bar mounted on the vertical bucky stand, used for stabilizing patients for lateral chest radiography.

RADREX INSTALLATION KIT
Provides nuts, bolts, drill bits and other miscellaneous materials to help ensure a smooth installation.

SIMPLE STYLE COMPRESSION BAND
- Attaches to the table rails
- Adjustable Velcro straps for securing patient

PDU-RADREX   **POWER DISTRIBUTION UNIT FOR RADREX-I**

This PDU-RADREX provides most of the electrical site preparation requirements of Toshiba RADREX-i system, including:

Voltage Conversion
Facility wiring costs are significantly reduced since the PDU-RADREX accepts a single, 480V DELTA or WYE 3 phase input 3 and distributes both the required 208V single phase for the Digital Image Processor and 480V 3 phase required for the RADREX-i generator and the remainder of the RADREX-i components.

Distribution
The PDU-RADREX comes prepackaged with input and output distribution breakers needed for each system feed. Having all system breakers in one location also makes it easier for service personnel or the customer to remove appropriate AC power when needed.

Planning
Planning is simplified by having all these components and functions delivered in a single box.

Installation
Installation is much faster, more predictable, and less expensive with a factory-assembled and tested system.

Approvals
UL listing will reduce time and uncertainties obtaining local electrical inspection approvals.

Reduced Site Preparation Costs
The PDU-RADREX comes equipped with an input shunt-trip circuit breaker, eliminating, in most cases, the need for a room breaker.

TTSW-3000A   **TABLETOP CONTROL SWITCH**

Table module with adjustable locks for easy placement on either side of the table. Table module provides 4-way panning and vertical table height adjustments.

Note: Only one additional table switch option per table.

TLFH-3000A1/G1   **LATERAL CASSETTE HOLDER FOR REXPANEL**

RP-LAX8GRID.100   **LONG AXIS 8:1 GRID CAP KIT FOR REXPANEL**

Long Axis 8:1 Grid Cap for REXPanel
- Protect-a-Grid encasement with handle
- 14x17 8:1/215/40-72 Grid

RP-SAX8GRID.100   **SHORT AXIS 8:1 GRID CAP KIT FOR REXPANEL**

Short Axis 8:1 Grid Cap for REXPanel
- Protect-a-Grid encasement with handle
- 14x17 8:1/215/40-72 Short Dimension

TFDK-SCM   **DICOM STORAGE COMMITMENT**

Confirms completion of transfer / achieve.

WDDRREX   **REXPANEL WEIGHT DISTRIBUTION CAP**

REXPanel weight distribution cap
- Snap-on application
- Light weight and durable
- Rated up to 750 lbs
- Excellent for standing feet X-rays

CURRENT GOVERNMENT CONTRACT PRICE (*):
(*) Additional discount may apply based on any multi-unit or multi-modality negotiations at the DLA-Troop Support.