

Q-Rad-DIGITAL **DRX SERIES** *Radiographic Systems*

Featuring

WIRELESS-ON-DEMAND
ONLY WIRELESS WHEN YOU WANT IT



Quantum
MEDICAL IMAGING
Division of Carestream

Q-Rad-DIGITAL DRX SERIES

Fully Integrated Digital Radiography System

QUANTUM: LEADING THE WAY IN DIGITAL IMAGING

Q-Rad-Digital DRX-Series fully integrated DR Systems: The newest generation of Quantum's DR Systems integrated with wireless detector technology, available in all Quantum Radiographic system configurations, Ceiling mounted or Floor mounted. The "DRX Series" systems incorporate advanced operational and ergonomic features, with virtually unlimited positioning capabilities.

DESIGN AND INNOVATION

Q-Rad-Digital "DRX Series" systems provide precision and reliability through "Smart-System Design." Innovations such as TechVision™, 22" Touch-Screen Control Center, Fixed & Portable / Wired or Wireless DR technology combinations, FAIL-SAFE electromagnetic braking systems, collision avoidance electronics and EZ-Glide handle controls are just some of the unique and valuable advantages.



Powered by

Carestream



WIRELESS CASSETTE

The "DRX Series" systems provide superior positioning flexibility by using a wireless cassette size detector in either the table or wall stand. The light weight design, large imaging area and fast display times of the innovative detector technology makes it easy to capture high quality diagnostic images for routine diagnosis, as well as in challenging trauma positioning.

MULTIPLE DETECTOR COMBINATIONS

Q-Rad-Digital DRX-Series offer flexible digital panel combinations

Single-detector: 14" x 17" wireless detector, shared among the wall stand, table/table top

Dual-detector: Fixed 17" x 17" in wall stand and 14" x 17" wireless detector for table/table top

Dual-detector: Two (2) 14" x 17" wireless detectors for wall stand and table/table top

Also offered with Cesium-Iodide scintillator for lower dose imaging

** DRX Wireless Cassettes may also be used/shared within other areas of the hospital such as mobile x-ray units, providing a maximizing utilization of this advanced technology and sharing resources.*

SPEED WITH PRECISION

Digital detector technology allows images to be previewed within seconds after the exposure. The results can be automatically sent to other viewing stations, printers and archive servers on the facilities network.



WIRELESS-ON-DEMAND
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Q-Rad-DIGITAL DRX SERIES

Fully Integrated Digital Radiography System

DIVERSE APPLICATIONS SERVING A WIDE RANGE OF CLINICAL ENVIRONMENTS

Q-Rad-Digital Systems are designed for high patient volumes serving a wide range of clinical environments, from in-patient and out-patient radiology departments, emergency/trauma, imaging centers, orthopedic facilities, and urgent care clinics. System configurations satisfy a variety of clinical environments. From the routine chest or detailed extremities to the non-ambulatory trauma patients, the range of applications with Q-Rad Digital Systems is virtually endless. Now you get maximum productivity with the patient throughput of DR combined with the positioning ease of a single cassette, all with high quality imaging at the lower patient dose.

SYSTEM INTEGRATION - ENHANCES WORKFLOW AND PRODUCTIVITY

Advanced system integration enhances your DR workflow from patient registration, to exam configuration, patient positioning, image acquisition and image archive. In addition to an inherent productivity gain with network connectivity to Modality Worklist and PACS, the fully integrated Q-Rad-Digital DR Console optimizes the entire patient examination process with fully integrated and Worklist-driven single-accession and multi-accession exam configuration, generator integration, fast image processing, and automated exam sequencing.



ACQUISITION CONSOLE

- Wide Screen touch-panel user interface
- Modality Worklist Management interface
- X-ray Generator integration
- Configurable exam "Procedure Step" sequencing
- Preview image display within seconds
- Consistent grey scale presentation
- Local QC and administrative functions; zoom, window/level, Gamma, edge enhancement, cropping, digital markers, and annotation
- DICOM print & store to multiple destinations



Q-Rad-DIGITAL DRX SERIES

CEILING MOUNTED SYSTEMS



Quantum's Q-Rad-Digital Ceiling Systems are available with a range of system configuration options which allow for adaptability into any imaging facility, along with expansive overhead horizontal and transverse tracks to provide for maximum flexibility and virtually unlimited imaging procedures.



POSITIONING FLEXIBILITY

A wide range of system flexibility makes patient positioning and system adjustments quick and easy, accommodating for cross table lateral, wheel chair and other specialty views.



CEILING-MOUNTED TUBE SUPPORT (RS-580)

Ergonomic hand grips with multi-function locks provide smooth, responsive system adjustments. Positioning of the x-ray tube is directed through a series of color-coded fingertip switches on the operator hand control, which coincide with the colors on the various rails, for vertical, horizontal and transverse movements.

A convenient “All-Locks” release switch is also built into each of the soft-grip controls. Lighted display windows indicate system navigation for SID, tube angle and lock functions, to assist the operator with easy and precise positioning.

MOTORIZED SERVO-DRIVE (RS-580-MAC) TUBE STAND WITH “Q-TRACK” TECHNOLOGY

Quantum Ceiling Systems equipped with SERVO-DRIVE and “Q-TRACK” technology provide automatic motorized alignment to the vertical wall stand (chest unit), as well as adjusting to the variable height of the elevating table.

- faster patient positioning
- increased patient throughput
- increased patient safety for patients that are only able to stand for short periods of time
- better imaging accuracy, since the x-ray beam maintains constant alignment with the center of the image receptor

These benefits save staff considerable time and effort, and places their focus completely on the patient care and the exam procedure.

“QUIET-LIFT” ELEVATING, FLOAT-TOP TABLE (QT-750-D)

Quantum’s “QUIET-LIFT” elevating, float-top table eases patient transfer and positioning. With a 650 lb. (295 kg) patient capacity and a rugged lifting mechanism, the table elevates smoothly and quietly. The extra-wide (35”), and completely flat-top table surface simplifies patient transfer and positioning, while providing comfort for larger patients.

Float-top motion and elevating capability is controlled through both recessed foot controls, as well as float-top multi-function hand control switch. Adjustable patient hand grips are included, and can be positioned along the concealed accessory rails to help stabilize the patient during exam positioning.

“VERTI-Q TILT” MOTORIZED TILTING WALL STAND

Quantum’s Motorized Tilting Wall Stand (QW-420-T) has an adjustable receptor range of 90° to -15°, providing great flexibility for various exams. The receptor tilt movement is motorized through the use of a convenient remote control switch. Automatic stops are provided at -15°, 0°, and 90°. Vertical travel is electromagnetic through the use of a FAIL-SAFE design and incorporates Quantum’s exclusive EZ-Glide hand control.



VERTI-Q Wall Stand is also available as:



Motorized Tilting Wall Stand QW-420-TD



Manual Tilting Wall Stand VERTI-Q-MT



COMPLETE CHALLENGING VIEWS

Even the most challenging views, such as weight-bearing cross-table and off-table studies are simplified through the system’s generous range of motion and flexibility.

TechVision™



Featuring Touch Technology



Generator Integration

Allows for adjustment of technique parameters right at tube side

INNOVATION FOR THE TECHNOLOGIST

Quantum's TechVision is truly an innovation for the Technologist. Technologists can use the color touch display to easily view and set up all technique parameters, as well as access set-up functions right at tube-side.

2-WAY GENERATOR INTEGRATION

TechVision eliminates going back-and-forth from the generator's Operator Control Panel to the patient, in order to prepare for patient exams. The operator has complete control to adjust exposure parameters right at the tube-side, just as if they were at the generator's Operator Control Panel. This synchronized generator solution greatly streamlines the imaging process and decreases overall examination time, while allowing the technologist to remain close to the patient, for increased patient care.



POWERED BY QUANTUM GENERATORS

The Q-Rad-DIGITAL "DRX Series" systems are integrated with innovative high frequency design along with superb functionality, resulting in revolutionary radiographic generator technology. The generators provide power levels up to 80 kW and outputs of up to 150 kVp, meeting the needs of any imaging environment.

Designed for all aspects of general x-ray imaging and operating at a near-constant potential of up to 120 kHz, the generators provide high frequency imaging for highly efficient X-ray production.



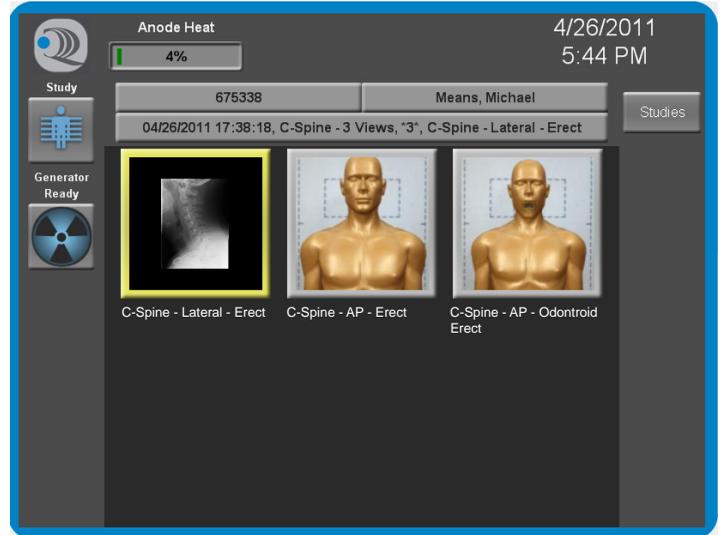
THREE VALUES TO ENHANCE PATIENT CARE AND THROUGH-PUT : GENERATOR INTEGRATION, DIGITAL IMAGE PREVIEW & PATIENT STUDY

TECHVISION™ allows for “Patient Study” management directly within the exam room, allowing for the technologist to stay with the patient during procedures. It also provides full “2-way” generator integration with the DR console for control and display of generator parameters. Digital Image Preview Image allows a review of any previous image for the current patient.



Digital Image Preview

Review study results seconds after exposure with accept / reject function at patient side



Patient Study

Control the examination workflow and image acquisition at tube side among multiple accessions



TECHVISION FEATURES:

- Multi-Color (16 Bit; 800 x 600 Pixel; 8.4” display) Touch Screen
- Technologist controls generator technique selection at tube-side
- Full APR, AEC and Manual technique control
- Improved patient care, as technologist remains close to the patient during exam set-up procedure
- Improved patient through-put, by reducing steps taken by the technologist



DIGITAL IMAGE PREVIEW

TECHVISION™ offers in-room DR “Image Preview” at patient’s side. The technologist no longer has to leave the patient unattended while waiting for the DR image Preview on the DR console and can quickly rejoin the injured or frightened patient and position for the next view.



WIRELESS-ON-DEMAND

ONLY WIRELESS WHEN YOU WANT IT



“TETHER-CONNECT”:

**Network Connectivity + Detector Battery Charger,
All in One Step**

The DRX-Tray utilizes “Tether-Connect” technology that enables the DRX detector to connect via hard wire to the system for all data communication. It also provides the detector with full operational power, eliminating the need to utilize the detector battery. In addition, it constantly charges the DRX battery, so it remains fully charged and ready when you remove the DRX detector for specialty exams. (This feature virtually replaces the need to manually charge-up the detector battery on a regular basis.)

QUICK-CONNECT ADVANTAGE:

While switching from hard wired (in table or wall stand) to wireless (for table top / extremity work) the detector will make a transition from wired to wireless or vice versa in 2 seconds.



DR-TRAY *

** Standard on all system packages for table and wall*

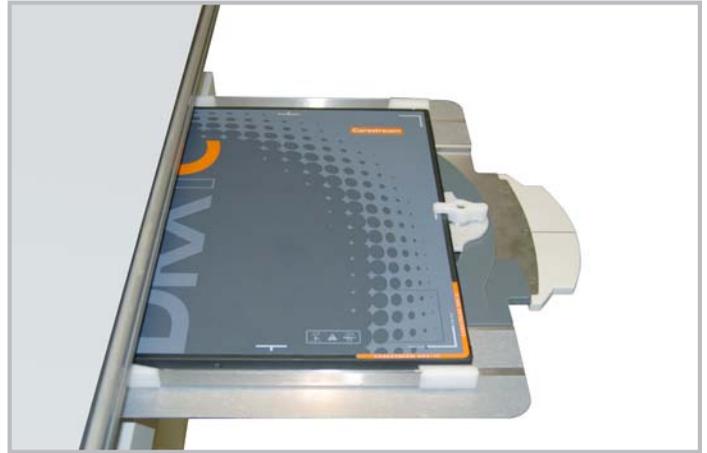
- Digital Tray with “ROTATING Feature” for DRX cassette
- Allows for quick and controlled manual rotation of the digital receptor within tray
- One handed manual rotation Portrait/Landscape in swivel based tray design
- Tray locks provide for safe placement/removal of receptor
- Locking tab secures the receptor within the tray
- Available for Radiographic Tables and Wall Stands
- Designed to accommodate a wide variety of digital receptors

DRX-Tray

Specifically designed tray for use with **Carestream** DRX Digital Technology



Shown: DRX-Tray in wall stand during rotation



Shown: DRX-Tray in table

“DROP-N-GO” EASE OF USE

By simply inserting the detector into the DRX-Tray the DRX Detector connects automatically via magnetic plug

DRX-Tray SPECIFICATIONS *Available as an option on all system packages for table or wall

- **Designed Specifically for the DRX Detector**
- **WIRELESS-ON-DEMAND Connectivity**
- **Includes “Tether-Connect” Technology**
 - Enables DRX detector to connect via hard wire to the system for all data communication.
 - Provides the DRX detector with full operational power, eliminating the need to utilize the detector battery
 - Constantly charges the DRX battery, so it remains fully charged and ready when you remove the DRX detector for specialty exams. (This feature virtually replaces the need to manually charge the detector battery on a regular basis.)
- **Digital Tray with “ROTATING Feature”**
 - Allows for quick and controlled manual rotation of the digital receptor within tray
 - One handed manual rotation Portrait/Landscape in swivel based tray design
 - Tray locks provide for safe placement/removal of receptor
 - Locking tab secures the receptor within the tray
- **Available for Radiographic Tables and Wall Stands**

INCREASED WORKFLOW OF WIRELESS CASSETTE

The same size as a conventional 35cm x 43cm x-ray cassette, the wireless DRX-1 and DRX-1C system detectors make it easy to use your conventional x-ray equipment for digital radiography imaging.

- Wireless transmission and instant image availability reduces exam time
- Fast forwarding to multiple network destinations speeds throughput
- Wireless Cassette offers positioning freedom of conventional cassettes



Q-Rad-DIGITAL DRX SERIES

FLOOR MOUNTED SYSTEMS

Q-Rad-Digital Floor-mounted systems are the ideal choice for the busy imaging centers, orthopedic facilities or hospitals. The advanced features and unique design aspects of the system allow the technologist to fully concentrate on the patient during the examination.

DELUXE FLOOR MOUNTED TUBE STAND (QS-550)

The versatility of the QS-550 Deluxe tube stand provides extended freedom of movement of the tube assembly, allowing for a wide array of examinations. Tube stand positioning is controlled through a series of accessible fingertip switches on the operator hand control. A single switch releases all tube stand locks for multi-directional adjustments. An easy-to-read indicator displays system position. Expansive transverse and longitudinal travel, column rotation (+/- 90°), tube angulation (+/- 135°), and trunnion rotation (+45°/-20°), assure complete radiographic coverage even for the most challenging views, such as weight-bearing, cross-table and unique tabletop exams. Studies are simplified through the system's generous range of motion and flexibility.

SYSTEM FLEXIBILITY

Q-Rad-Digital Floor Mounted Systems are available as either single detector 14"x 17" wireless cassette shared among table, wall, & tabletop, or dual-detector stationary 17"x 17" in the wall stand and 14"x 17" wireless cassette for table or table top.



SHARED PANEL SOLUTION

MOTORIZED SERVO-DRIVE FLOOR MOUNT (QS-550-MAC) WITH "Q-TRACK" TECHNOLOGY

Available with SERVO-DRIVE and "Q-TRACK" technology which provides motorized synchronization between the central beam of the x-ray and the center of the image receptor, keeping them in alignment. This feature allows the technologist to save time and effort by eliminating the need to constantly align the tube stand to the wall bucky, while ensuring a greater precision.

"Q-TRACK" also automatically maintains the proper SID with the elevating table during vertical adjustments.

CROSS TABLE EXAMS MADE EASY

A wide range of system flexibility makes patient positioning and system adjustments quick and easy accommodating for cross table lateral, wheel chair and other specialty views



QUANTUM ACCESSORIES: ENHANCING DIGITAL IMAGING PROCEDURES



ROLLING LATERAL CASSETTE HOLDER (QR-LCH) FOR PORTABLE DR PANELS AND/OR CR & FILM CASSETTES

- Quick and Secure maneuverability around the x-ray exam room
- Accommodates portable DR, CR or Film Cassettes up to 14" x 17"
- Assists in acquiring cross-table lateral exams, as well as many other specialty views
- Provides positioning of image receptor either at or below table top to eliminate image cut-off during cross table examinations
- Height Adjustable positioning with Vertical travel of up to 45.9" (116.6 cm)
- Single-Handed Vertical Adjustment Locking Mechanism
- Receptor Rotation: +/- 90° for more angle flexibility
- Receptor Tilt: 0° through 90°
- Quick Locking 5" Caster Wheels



LATERAL CASSETTE HOLDER (QT-LCH-P)

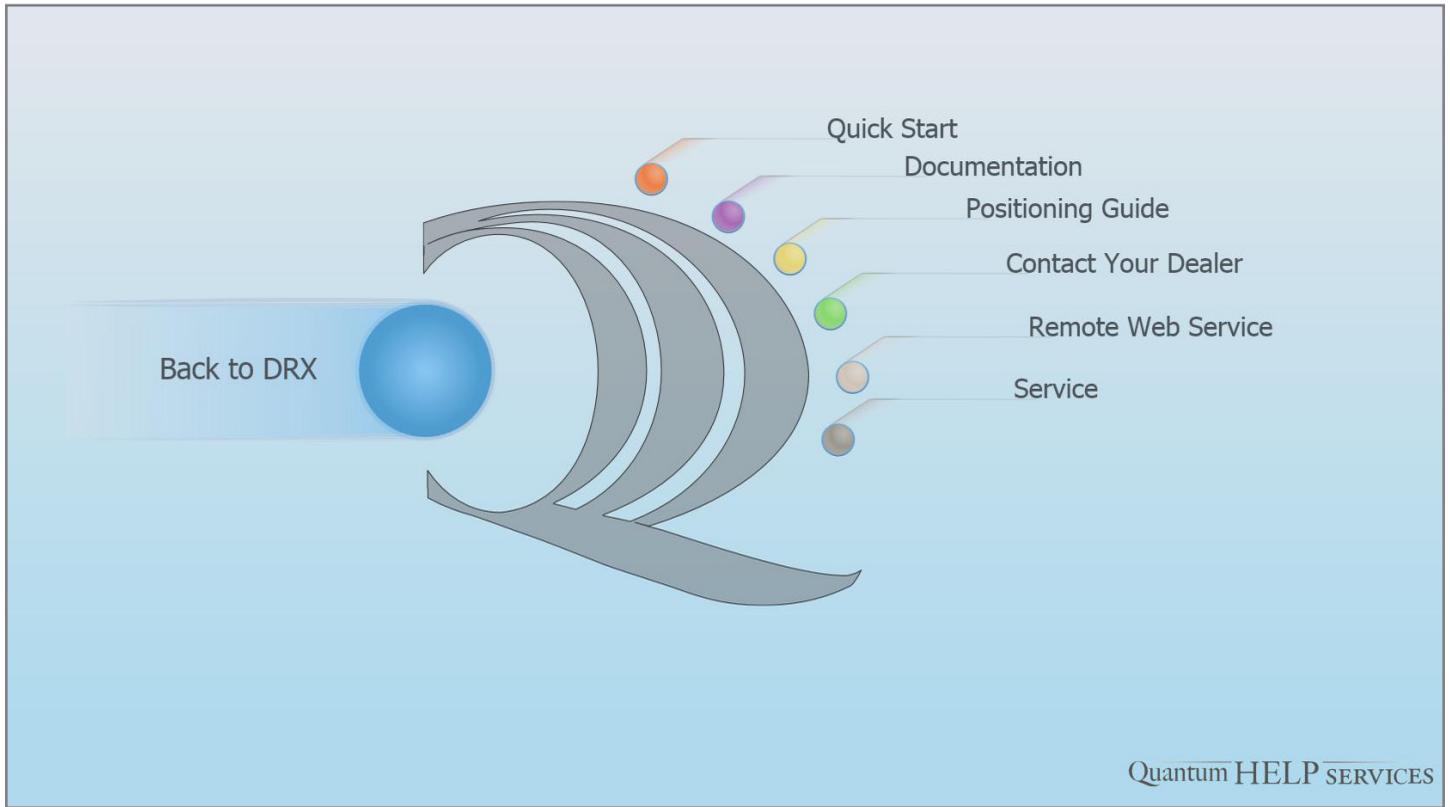
- Mounts to Quantum Table Rails
- Accommodates portable DR, CR or Film Cassettes up to 14" x 17"
- Articulating swivel Arm (+/-90°) allows for variety of angled positions, along table-top
- Provides positioning of image receptor either at or below table top to eliminate image cut-off during cross table examinations
- Angulation: complete receptor control (+/-35°) for patient positioning



TABLE TOP CASSETTE HOLDER (QT-TCH)

- Quick and Easy positioning on the x-ray table top
- Accommodates portable DR, CR or Film Cassettes up to 14" x 17"
- Assists in acquiring cross-table lateral exams, as well as many other specialty views
- Effortless maneuverability with table top scratch protection

ADVANCED DIGITAL SYSTEMS REQUIRE EXCEPTIONAL SUPPORT FEATURES



Quantum HELP SERVICES

With just the touch of the HELP button on the screen, you can easily access a wide variety of easy-to-use support services and information. From basic quick start info, to documentation of operators and service manuals the information is right at your fingertips. Powerful tools guide the operator through basic operation. Support phone numbers, text messaging and e-mail contacts are just a touch away.



CHAT

Chat (AUDIO + VIDEO) with your service representative. Save \$\$ on service technician travel expenses and speed up your service maintenance turn around time at the same time.

DOWNLOAD

Download files and maintenance instructions. Transfers files between the work station and a service representative.

E-MAIL OR TEXT

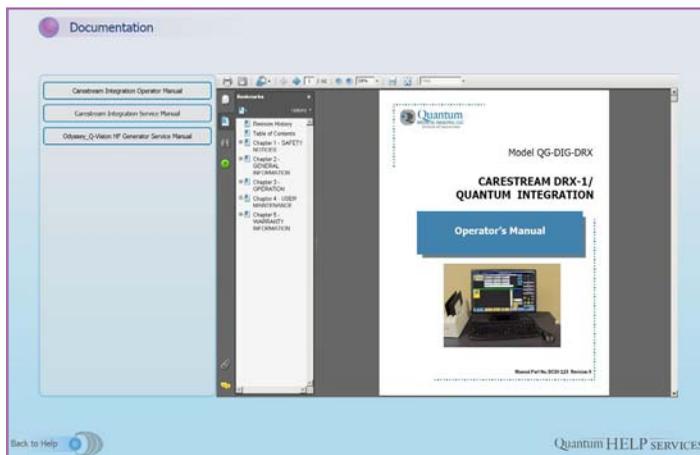
Use E-mail or TEXT to submit your service request directly from the console. This allows you to contact your dealer and or service representative directly from the DRX console. Send a customized message to their mail box or simply send a quick text to your representatives phone.

COLOR REFERENCE CHART

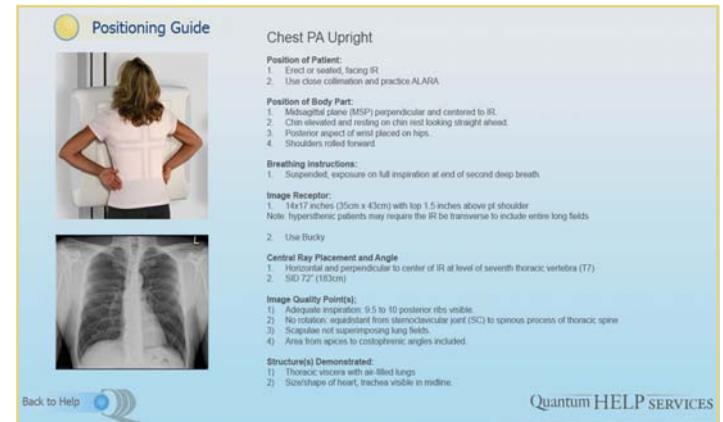
Quick Start: Provides a quick overview of system workflow and operations in 4 easy steps.



Documentation: A quick reference to operator and technical manuals



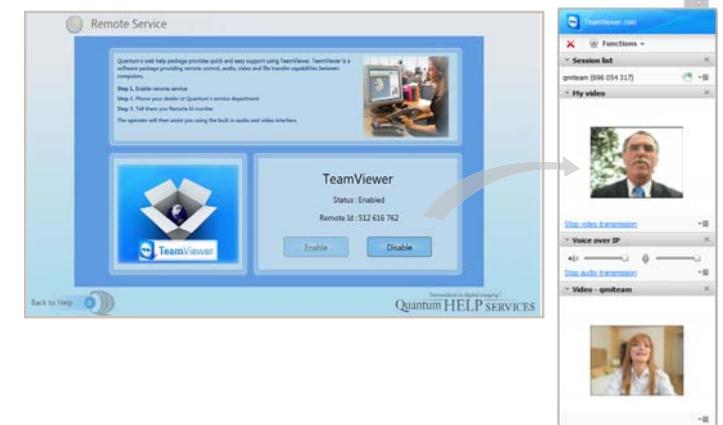
Positioning Guide: Provides detailed instructions for routine study positioning. The guide includes patient/body part positioning, breathing instructions and central ray placement/angle, with photo & illustration guidance.



Contact: Provides full contact information to your regional dealer and service provider



Remote Service: You can utilize the WEB - Based Remote Support and Service worldwide; via the built-in web browser (internet access required). System is equipped with video camera and audio mic.



Service: Using a user password, key operators can also access complete History Reporting logs, APR Editor, language change or a host of other useful information.

Pioneering technology from the premiere innovator in imaging...



CORPORATE OVERVIEW

Quantum Medical Imaging is a highly innovative company which designs and manufactures high quality medical radiographic systems for hospitals and imaging centers around the world. The company's mission is to supply the radiographic imaging industry with superior products for enhanced diagnostic capability.

DESIGNED FOR TECHNOLOGISTS

Designed by a team of engineers with extensive input from technologists, Q-Rad-DIGITAL "DRX Series" systems are highly refined for logical and efficient operation. This unique approach to system development simplifies radiographic examinations and assures that Quantum products meet the growing needs of radiology. Quantum's technology is proven in thousands of clinical installations worldwide. From the design stage through final product testing, Quantum Q-Rad-DIGITAL "DRX Series" systems integrate high quality, durable materials for robust construction and advanced electronics for optimal performance. Rigorous manufacturing standards and the commitment to evolving technologies assure long-term system value and customer satisfaction. The company's radiographic system solutions are backed by our "Gold Star" network of factory-authorized dealers, for sales and service.



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