

Q-Rad-DIGITAL

DRX SERIES

Radiographic Systems



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 integrated DR Systems with wireless detector technology available in all Quantum Radiographic system configurations, Ceiling mounted or Floor mounted. The "DRX Series" incorporates 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 Digital 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.



MULTIPLE DETECTOR COMBINATIONS

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

Single-detector: 14"x17" wireless cassette, shared among the wall stand, table/table top

Dual-detector: Fixed 17"x17" in wall stand and 14"x17" wireless cassette for tablet/table top.

Dual-detector: Two (2) 14"x17" wireless cassettes 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, 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.

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

INCREASED WORKFLOW OF WIRELESS CASSETTE

- 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

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

Tech Vision™

WITH DR IMAGE PREVIEW

INNOVATION FOR THE TECHNOLOGIST

The TECHVISION™ multi-color touch panel screen mounted at the tube stand hand grip allows the technologists full remote generator control for AEC & manual technique selection from within the exam room, while remaining close to the patient during exams, improving patient care and productivity.

TECHVISION™ provides full "2-way" generator integration with DR console for control and display of generator parameters with DR "Image Preview and Study Management" within the exam room. Image recall allows review of any previous image for the current patient.



Tech Vision™

WITH DR 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.



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 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 provides 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 VERTICAL WALL STAND - (QW-420-D)

Quantum's Vertical Wall Stand, VERTI-Q, allows for a variety of imaging: from skull through lower extremities, with its counter balanced travel and minimum focal spot-to-floor distance.



Shown Vertical Wall Stand (VERTI-Q)



Also available as a QW-420-TD Tilting Wall Stand.

"DR-TRAY" BY QUANTUM*

* 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



Q-Rad-DIGITAL DRX SERIES

FLOOR MOUNTED SYSTEMS

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



SYSTEM FLEXIBILITY

Q-Rad-Digital Floor Mounted Systems are available as either single detector 14"x17" wireless cassette shared among table, wall, & tabletop, or dual-detector stationary 17"x17" in the wall stand and 14"x17" wireless cassette for table or table top.

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 Shown Includes:

QS-550 Deluxe Floor Mount Tube Stand with TECHVISION
"Quiet-Lift" Elevating, Float-Top Table (QT-750)
VERTI-Q Vertical Wall Stand (QW-420)

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.

Q-Rad-DIGITAL DRX SERIES

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)

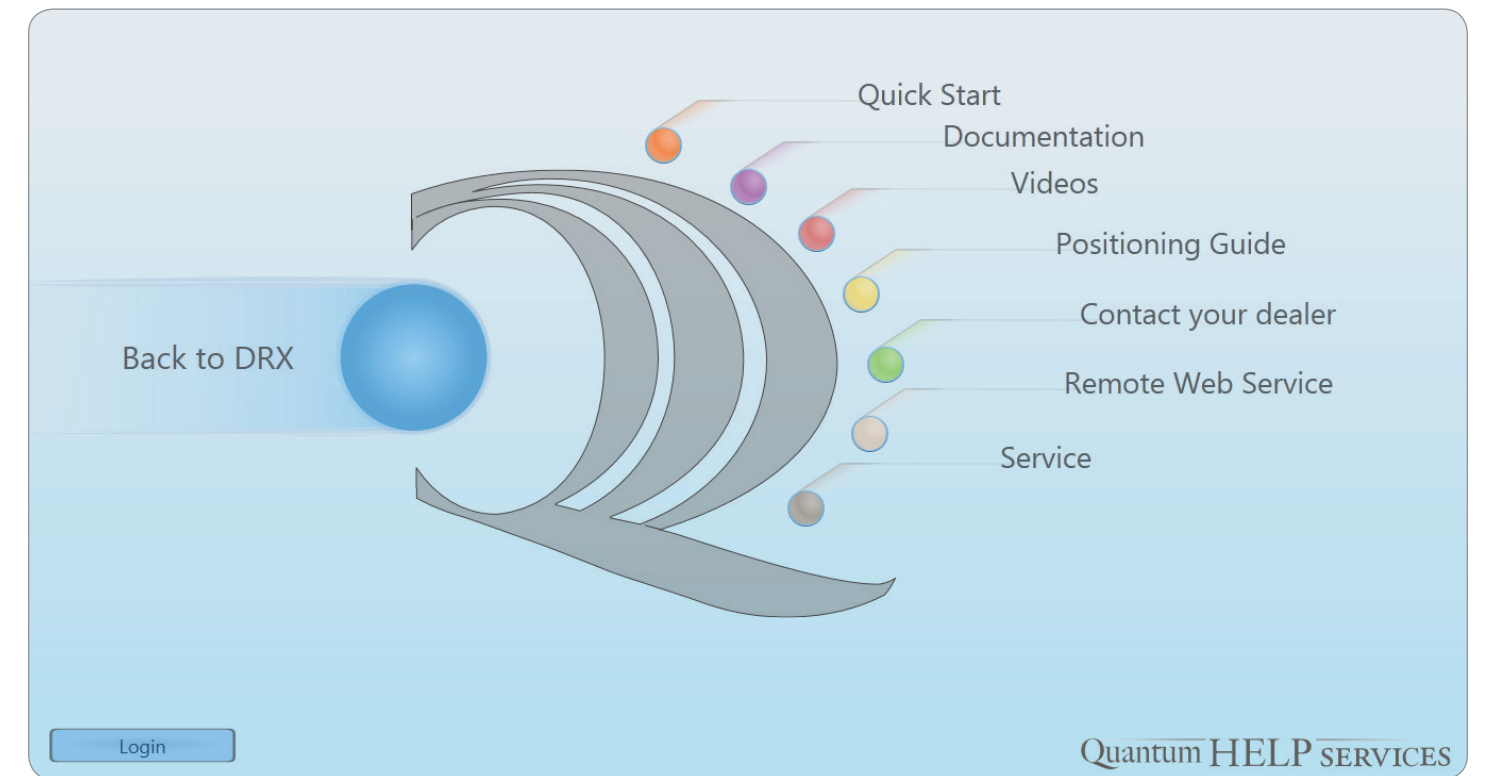
- Mounts to Quantum Table Rails
- Accommodates portable DR, CR or Film Cassettes up to 14" x 17"
- Articulating swivel Arm (+/-90°) allows for variety of angled positions, along table-top
- Provides positioning of image receptor either at or below table top to eliminate image cut-off during cross table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



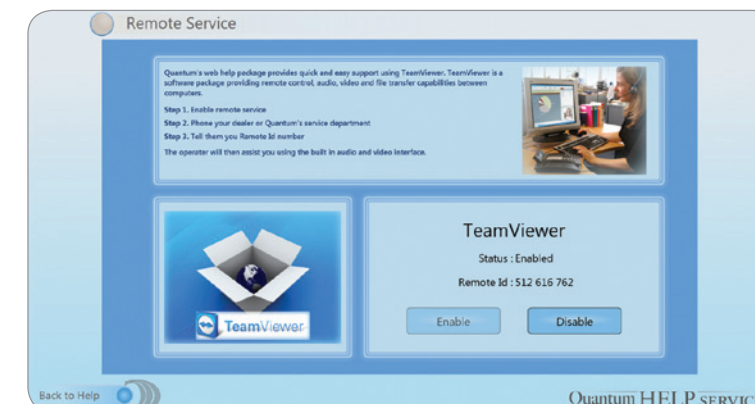
Quantum HELP SERVICES

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 full documentation of all operators and service manuals right at your fingertips. Powerful tools guide the operator through basic operation. Support phone numbers, text messaging, e-mail contacts are just a touch away.

COLOR REFERENCE CHART

- **Quick Start:** Provides a quick overview of operation
- **Documentation:** A quick reference to operator and technical manuals
- **Videos:** Instructional videos with screen capture providing system overviews and workflow examples

- **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 a 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.



Quantum Medical Imaging, LLC | Division of Carestream
2002 Orville Drive North
Ronkonkoma, NY 11779 USA
Tel: (631) 567-5800
Fax: (631) 567-5074
www.quantummedical.net