

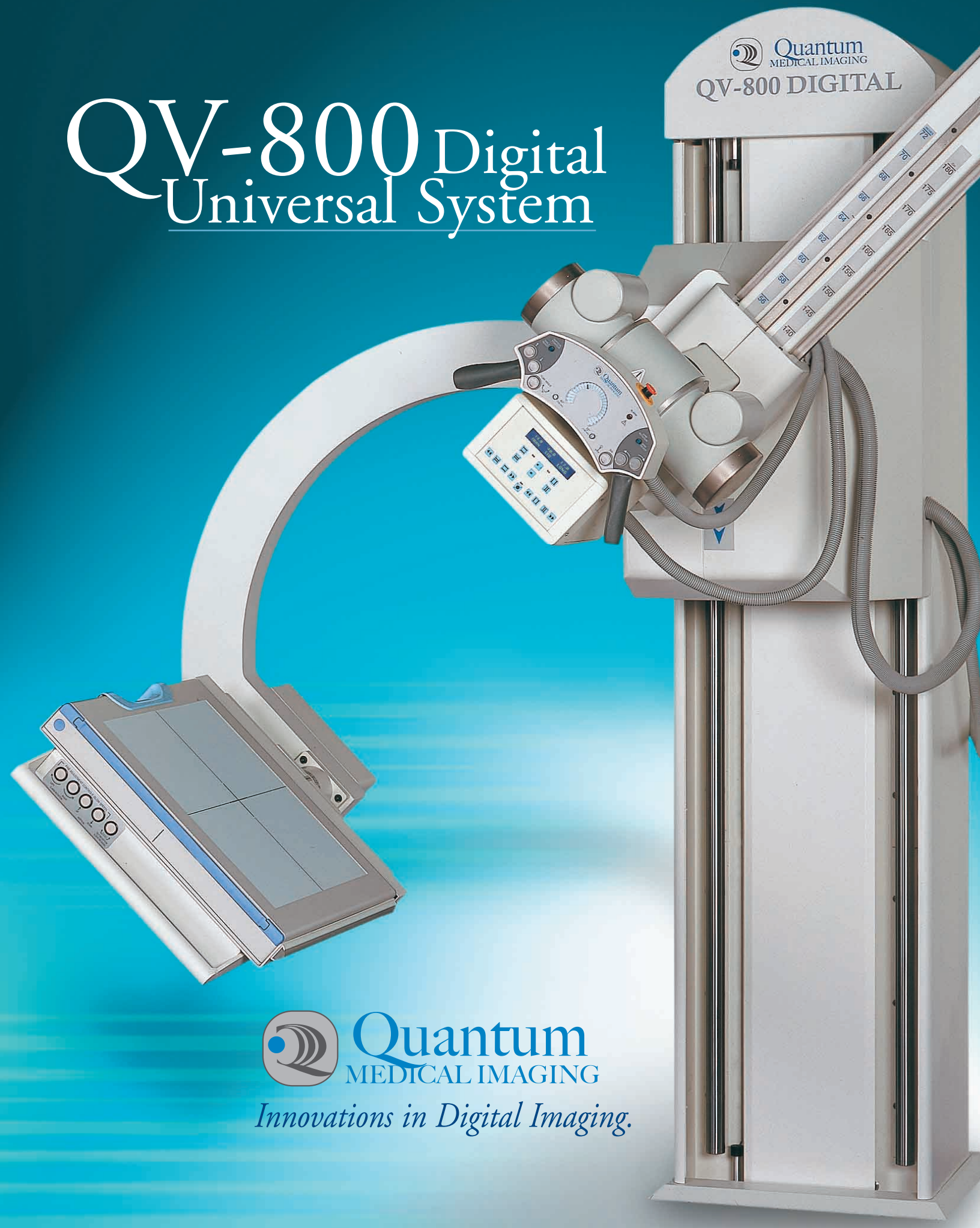
QV-800 Digital Universal System

Quantum
MEDICAL IMAGING
QV-800 DIGITAL



Quantum
MEDICAL IMAGING

Innovations in Digital Imaging.



CORPORATE INFORMATION

CORPORATE OVERVIEW

Quantum Medical Imaging is one of the worlds leading manufacturers of high quality medical radiographic systems, both digital and conventional, for hospitals and imaging centers. Our innovative design concepts, such as the QV-800 Digital Universal System, have revolutionized the industry by offering superior performance and enhanced diagnostic capability.

QV-800 IS A SYSTEM DESIGNED BY TECHNOLOGISTS, FOR TECHNOLOGISTS

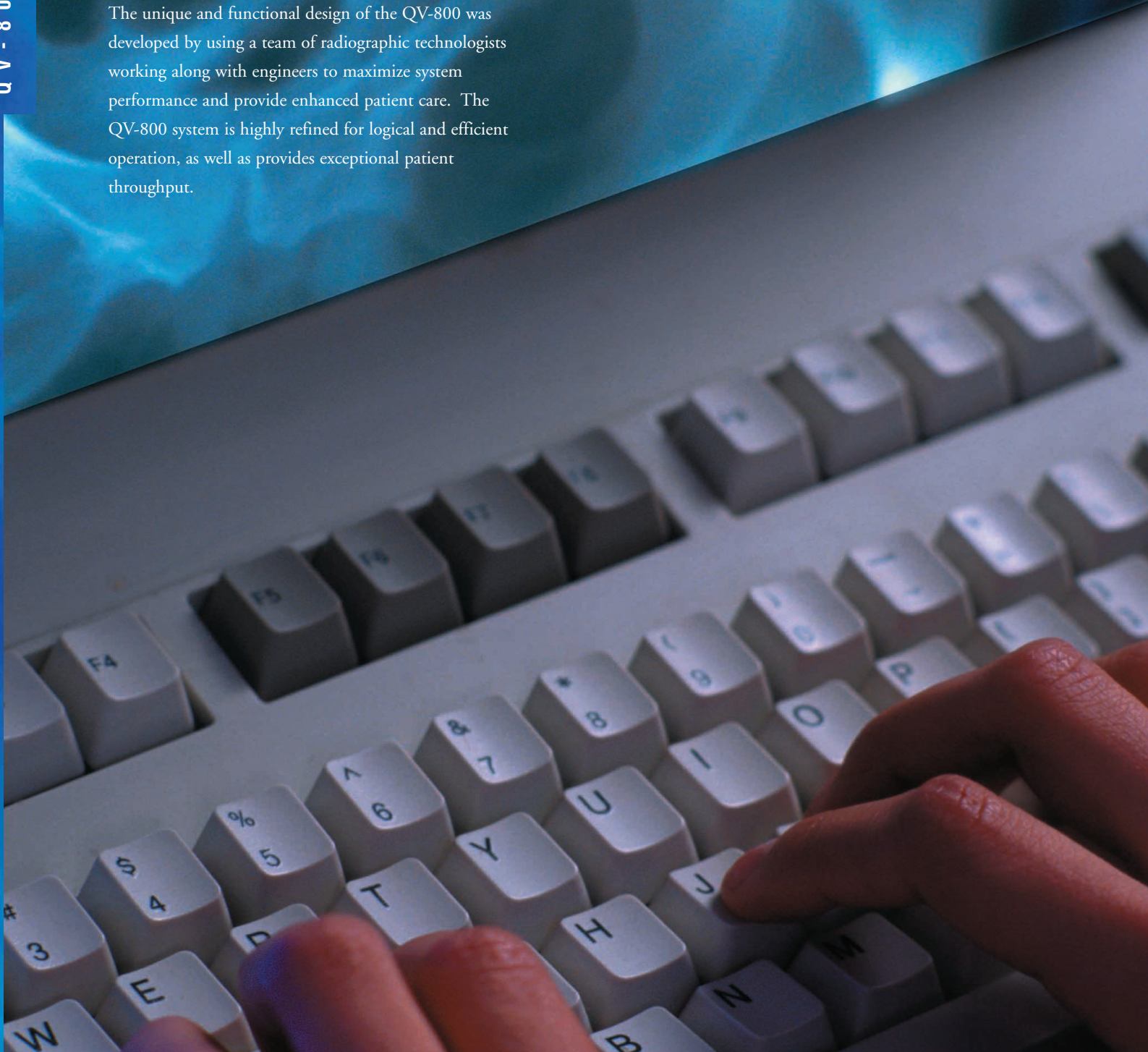
The unique and functional design of the QV-800 was developed by using a team of radiographic technologists working along with engineers to maximize system performance and provide enhanced patient care. The QV-800 system is highly refined for logical and efficient operation, as well as provides exceptional patient throughput.

DIGITAL IMAGING

With a focus on today's technology, all Quantum systems provide a path for system conversion from analog imaging to Quantum's digital imaging platform, "D-QiX."

GOLD STAR NETWORK

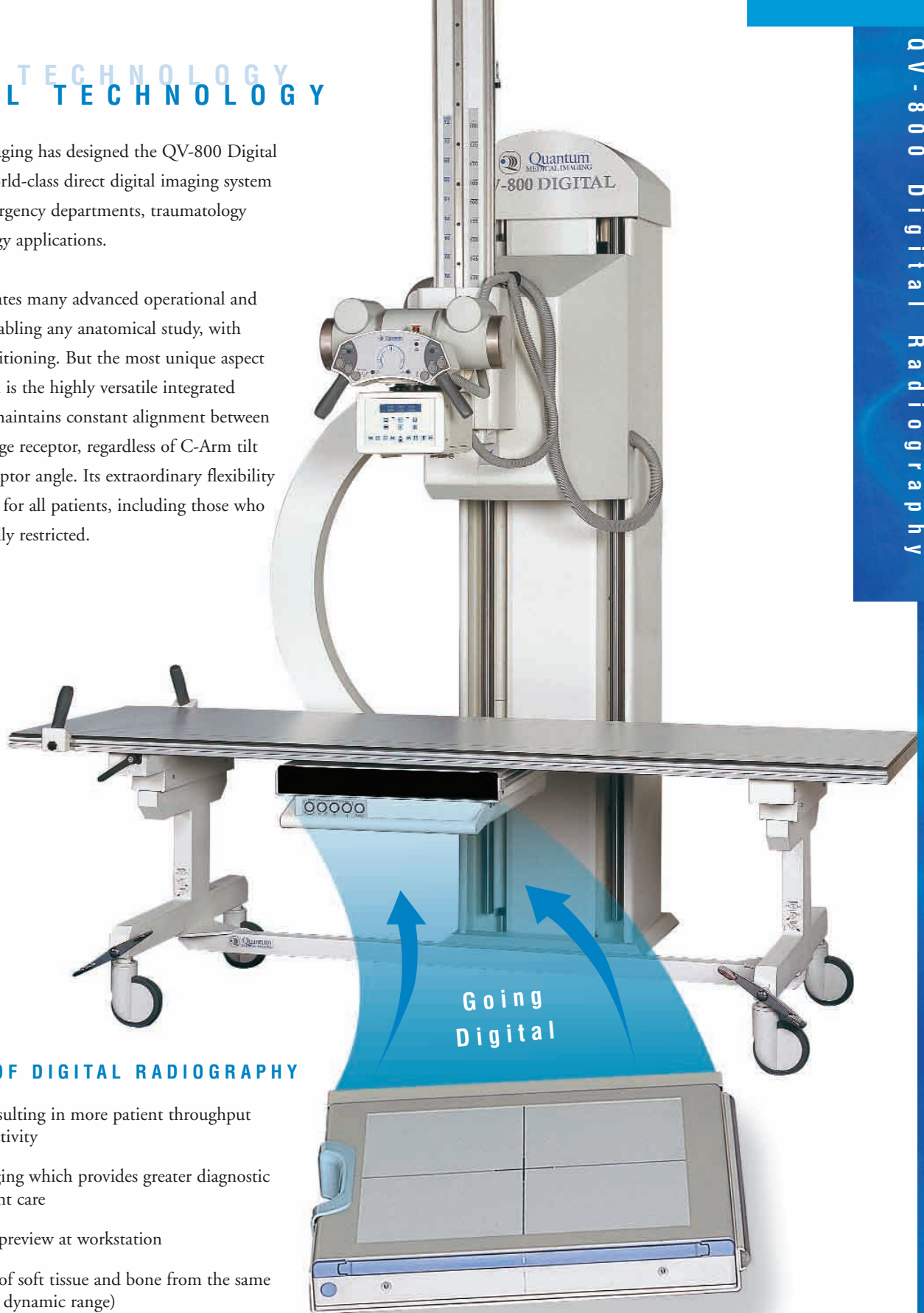
A worldwide dealer network provides factory-authorized sales and service for all Quantum Medical Imaging systems and products. As members of Quantum's Gold Star Network, these dealers have been recognized for their excellence in technical support and customer service.



DIGITAL TECHNOLOGY DIGITAL TECHNOLOGY

Quantum Medical Imaging has designed the QV-800 Digital Universal System, a world-class direct digital imaging system for use in hospital emergency departments, traumatology and all general radiology applications.

The QV-800 incorporates many advanced operational and ergonomic features, enabling any anatomical study, with virtually unlimited positioning. But the most unique aspect of the QV-800's design is the highly versatile integrated C-arm design, which maintains constant alignment between the x-ray tube and image receptor, regardless of C-Arm tilt positions or image receptor angle. Its extraordinary flexibility makes the system ideal for all patients, including those who are disabled or physically restricted.



ADVANTAGES OF DIGITAL RADIOGRAPHY

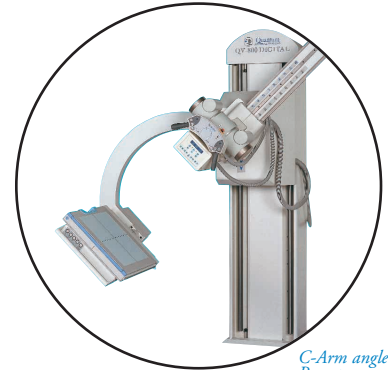
- * Faster exam times, resulting in more patient throughput and increased productivity
- * High-resolution imaging which provides greater diagnostic confidence and patient care
- * Instantaneous image preview at workstation
- * Greater visualization of soft tissue and bone from the same study exposure (wide dynamic range)
- * Elimination of cassettes and cassette handling functions
- * Significant reduction in repeat patient exposures
- * Seamless integration into PACS networks

The QV-800 is a single detector system that provides filmless radiography while offering exceptional system positioning capabilities. Using a highly sensitive digital detector, the QV-800 provides excellent detailed radiographic images for optimized diagnostic capabilities.

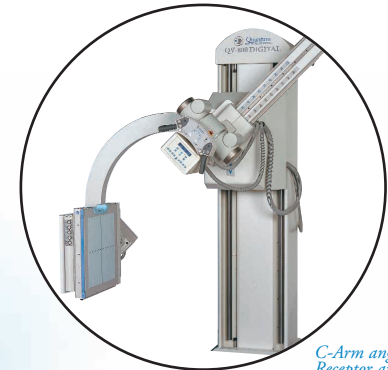


POSITIONING FLEXIBILITY AND EASE OF USE

The remarkable flexibility of the QV-800 system makes patient positioning and system adjustment quick and easy. The x-ray tube source and the image receptor remain in constant alignment for fast and accurate imaging. The system's operator-friendly controls, dual speed motorized movements, and collision sensing electronics enable smooth, single-handed operation.



*C-Arm angle: +35°
Receptor angle: 0°*



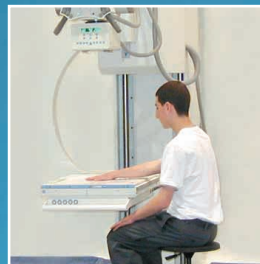
*C-Arm angle: +35°
Receptor angle: -35°*

Universal system design permits installation within a minimal amount of floor space!

SAFETY

Collision sensors are designed into the electronic movement controls, for both vertical travel and C-Arm positioning. In addition the receptor unit includes a "collision sensing bumper" designed for additional safety.

I N N O V A T I O N S I N D I G I T A L I M A G I N G



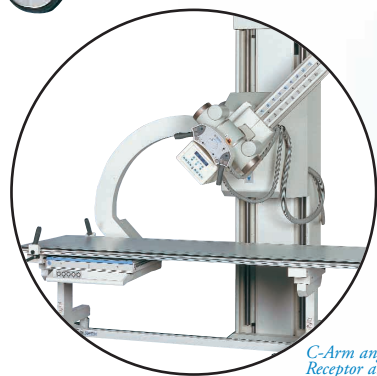
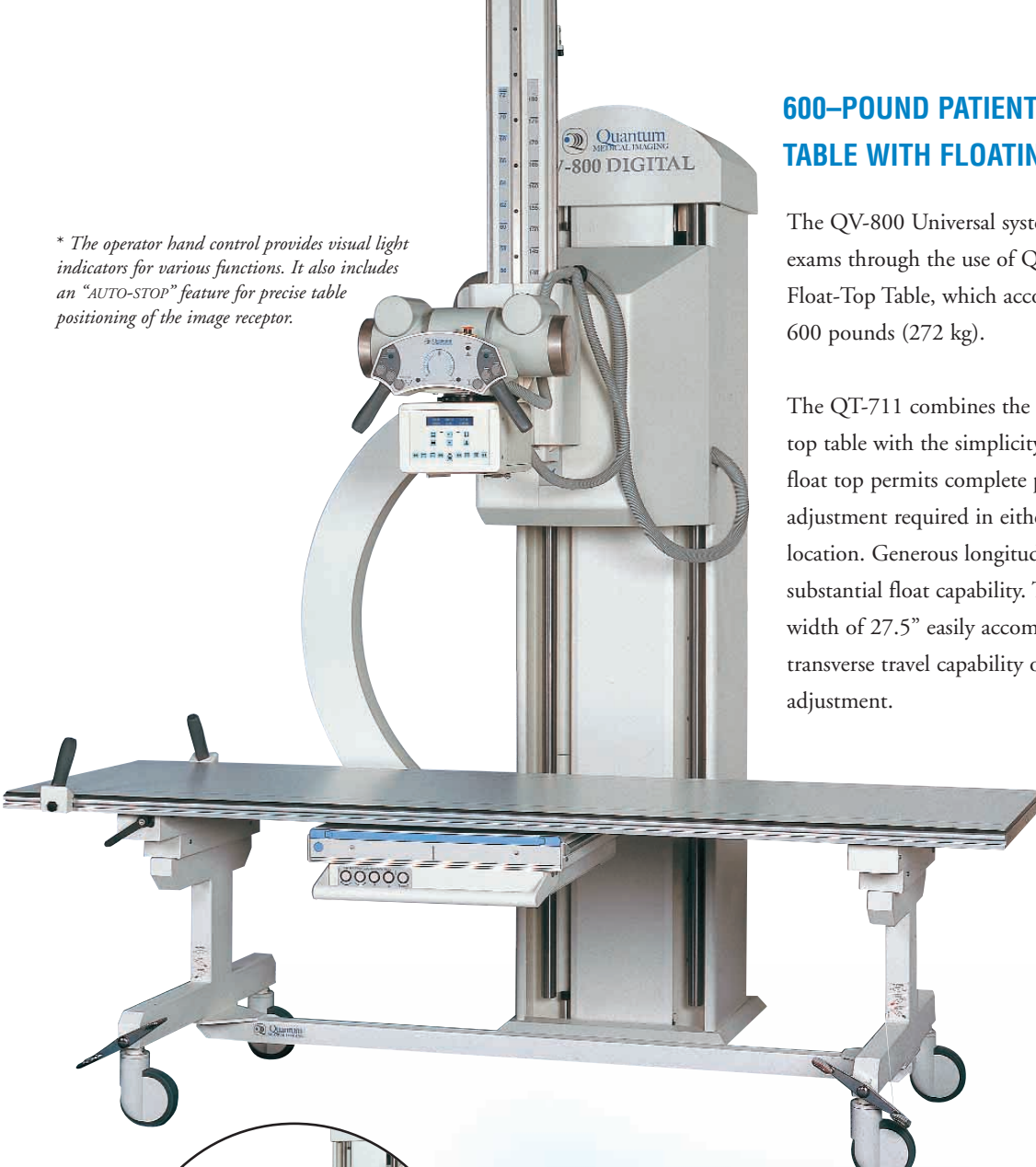
600-POUND PATIENT CAPACITY MOBILE EXAM TABLE WITH FLOATING TOP ADJUSTMENT

** The operator hand control provides visual light indicators for various functions. It also includes an "AUTO-STOP" feature for precise table positioning of the image receptor.*

The QV-800 Universal system simplifies recumbent exams through the use of Quantum's QT-711 Mobile Float-Top Table, which accommodates patients up to 600 pounds (272 kg).

The QT-711 combines the convenience of a four-way float top table with the simplicity of a mobile table. The unique float top permits complete patient coverage with no adjustment required in either the subject or the table location. Generous longitudinal travel (15") provides substantial float capability. The table length of 85" and table width of 27.5" easily accommodates most patients, and a transverse travel capability of 5" permits effortless table adjustment.

The QT-711's tabletop height of 27.5" makes patient transfers simple and safe. The table's 5" caster wheels, with foot-operated locks, allow effortless table repositioning.



*C-Arm angle: +35°
Receptor angle: +35°*

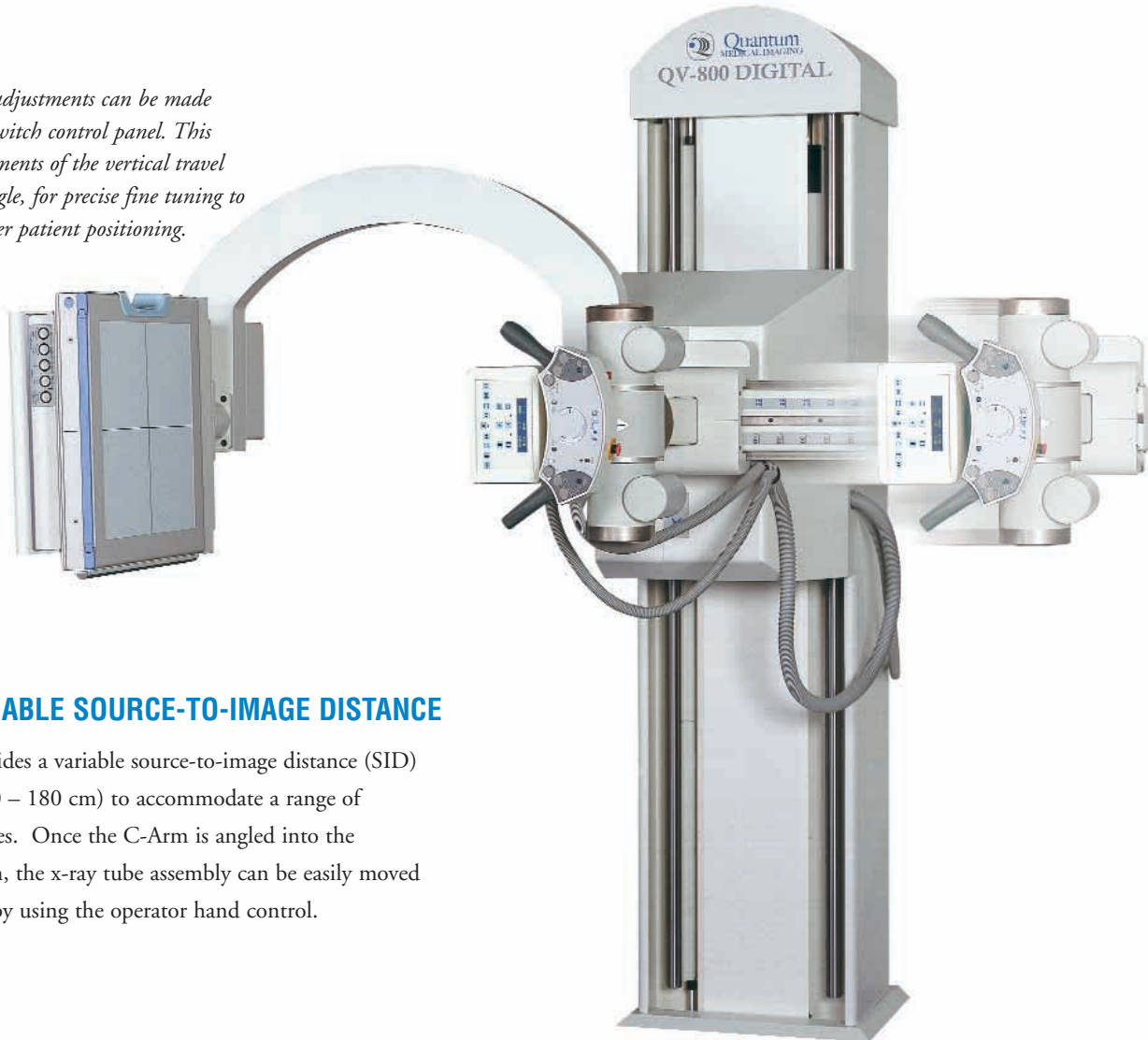
** "QT-711" table shown above includes the QT-DLW locking option which allows left and right side wheels to lock with one lever on each side. It also includes a "steering" position for easy table relocation.*



*C-Arm angle: -20°
Receptor angle: -20°*

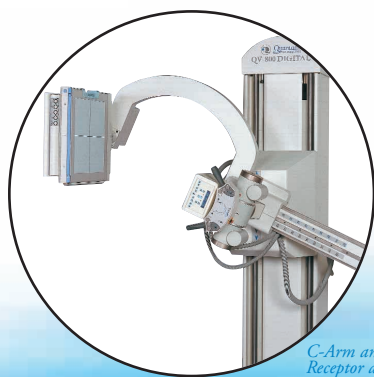


Slow speed system adjustments can be made from the receptor switch control panel. This provides for adjustments of the vertical travel and the C-Arm angle, for precise fine tuning to accommodate proper patient positioning.

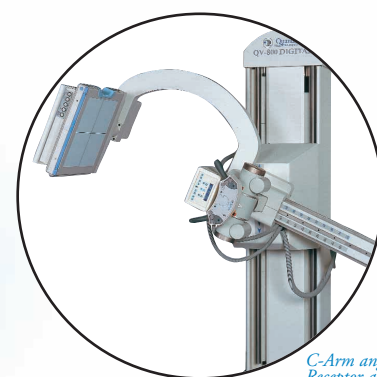


40" - 72" VARIABLE SOURCE-TO-IMAGE DISTANCE

The QV-800 provides a variable source-to-image distance (SID) of 40" to 72" (100 – 180 cm) to accommodate a range of radiographic studies. Once the C-Arm is angled into the horizontal position, the x-ray tube assembly can be easily moved from 40" to 72", by using the operator hand control.



C-Arm angle: +115°
Receptor angle: +15°



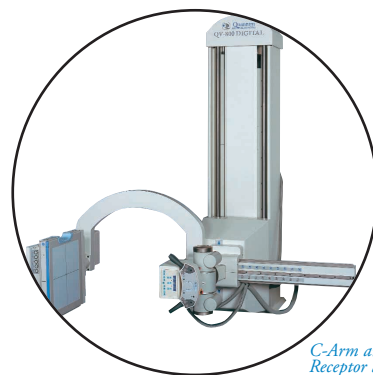
C-Arm angle: +115°
Receptor angle: 0°

I N N O V A T I O N S I N D I G I T A L I M A G I N G



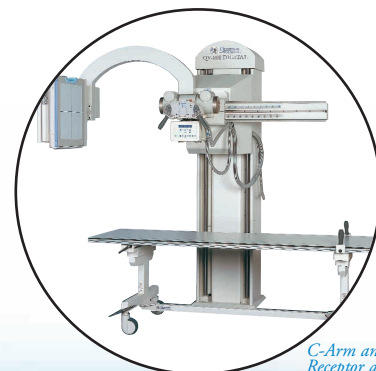
SKULL PROCEDURES THROUGH LOWER EXTREMITIES, THE QV-800 DOES IT ALL.

The exceptional versatility of the QV-800 permits virtually unlimited positioning. Vertical travel of the C-arm is dual-speed motorized and easily allows for weight bearing exams on children (15" floor-to-focal-spot distance) and skull exams for adults. The system's main C-arm rotates 180°, and includes auto stops at 0°, 90°, 135°, and -45°. The image receptor rotates within a range of +/- 45° to provide for various studies.



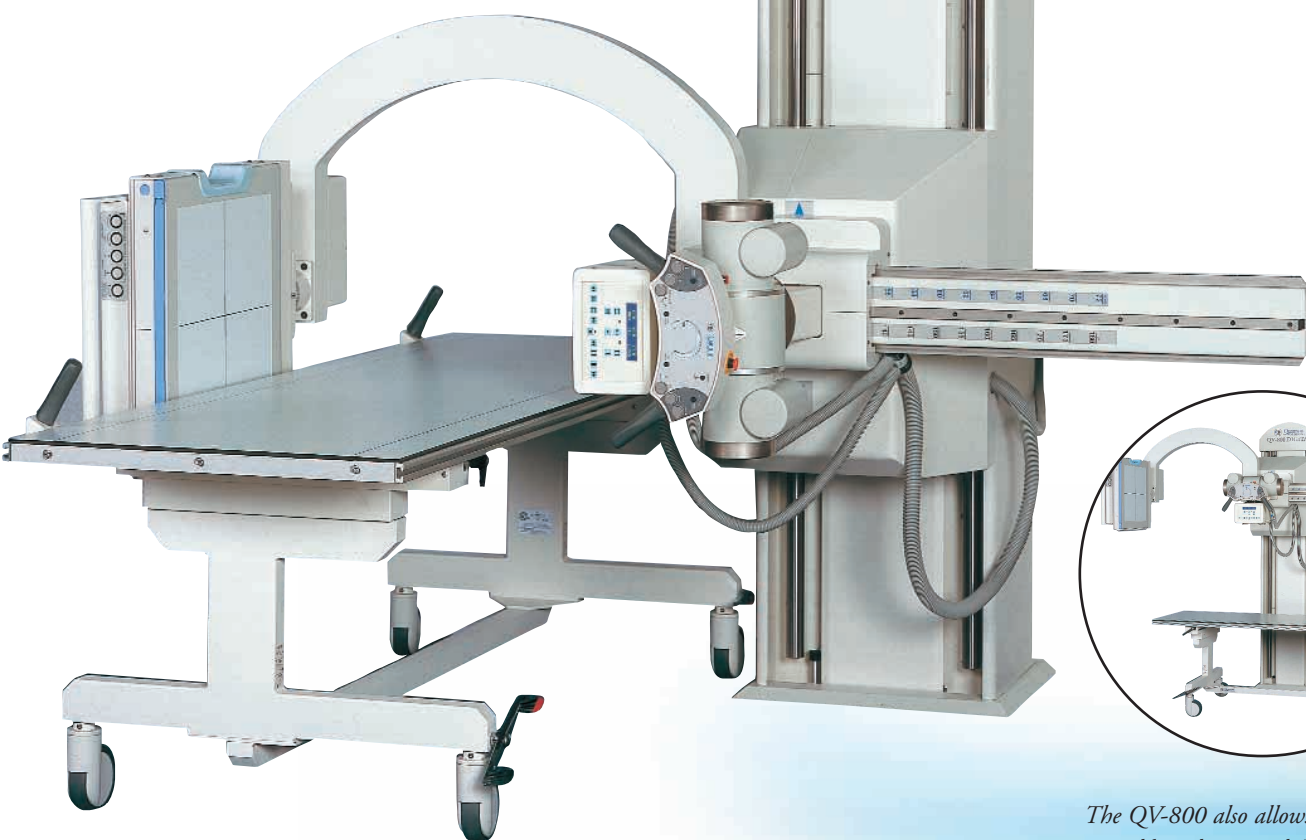
C-Arm angle: +90°
Receptor angle: 0°

The QV-800 system includes collision sensing electronics for patient and equipment safety.



C-Arm angle: +90°
Receptor angle: n/a
Tube Assembly angle: -90°

The QV-800 also allows for the x-ray tube head assembly to be rotated (+/- 135°) for specialty studies using a remote digital receptor or alternate image capture system (CR or film).



The QV-800's unique C-arm design accommodates cross-table examinations using the mobile table. The QT-711 table shown above also includes a floating-top design for easy patient positioning.



Specifications

QV-800 DIGITAL UNIVERSAL RADIOGRAPHIC SYSTEM:

Main C-Arm Rotation Assembly:

- Dual Speed Motorized rotation movement
- Collision sensing electronics and automatic safety sensing
- 180° range of rotation (135° to - 45°)
- Automatic stops at 0°, 90°, 135° and - 45°

Main C-Arm Vertical Assembly:

- Dual Speed Motorized vertical travel
- Collision sensing electronics and automatic safety sensing
- Counterbalanced with FAIL-SAFE braking system
- 53 inches (1346 mm); in horizontal position
- 18 inches (457 mm); in vertical position

Operator Handgrip Control Unit:

- Multi-function, fingertip control buttons for C-Arm vertical and rotation movements (Rotation only at 40° SID)
- Source-to-Image Distance control switch; with 40" and 72" visual indicators - (LED type)
- Angulation display for x-ray tube position
- System Ready and Alarm LED Indicator lights, with manual emergency stop

Variable Source-to-Image Distance (SID):

- Variable SID of 40" through 72" (100 -180 cm)
- Automatic stop and lock positions at 40" and 72"
- Electro-magnetic FAIL-SAFE braking system

Image Receptor Assembly:

- Angulations of +/- 45°, with indicator of angle
- Electro-magnetic FAIL-SAFE fingertip control locking system
- Collision sensing electronics and safety sensing bumper

X-Ray Tube Head Assembly:

- Angulations of +/- 135°, with angle display
- Electro-magnetic locking system

NOTES: 1) Includes Power Supply for QV-800 Unit
2) Left hand loading only available (image receptor on left side)
3) System is available for either Direct Digital or Conventional Film receptors

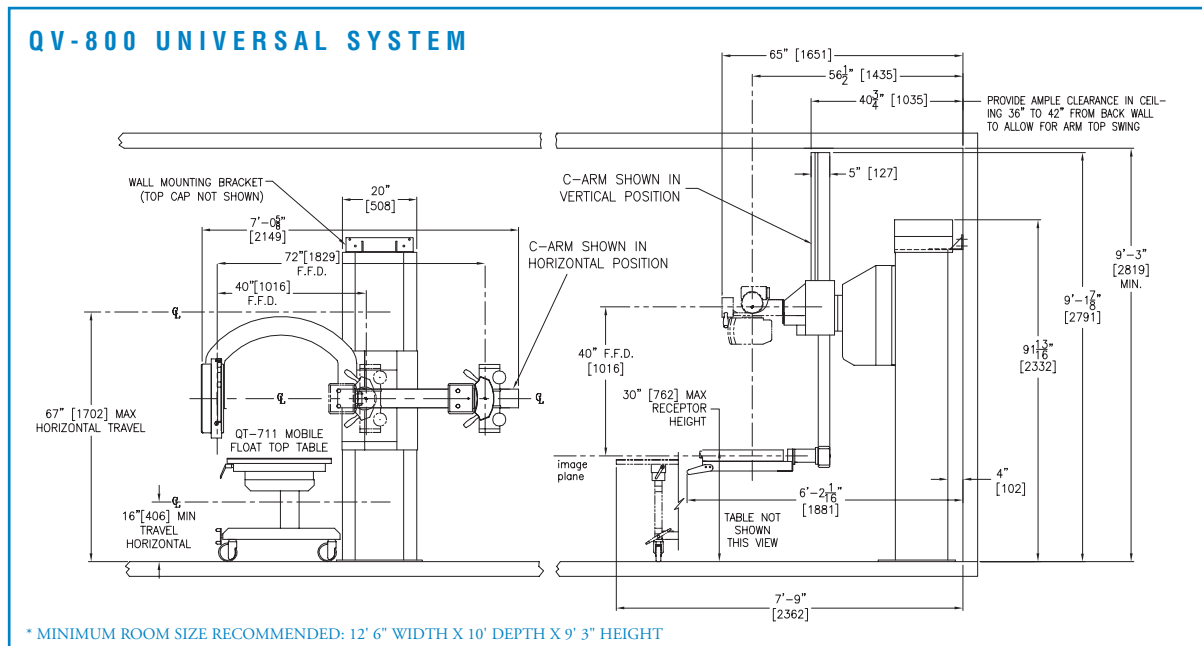
QT-711 MOBILE FLOATING-TOP RADIOGRAPHIC TABLE:

- Patient Weight capacity: 600 lbs. (272 kg)
 - Table Length 85" (216 cm)
 - Table Longitudinal Travel +/- 7.5" (15" Total / 38 cm)
 - Table Width 27.75" (70.5 cm)
 - Table Transverse Travel +/- 2.5" (5" Total / 12.7 cm)
 - Table Height: 27.5" (70 cm) * other sizes available – consult factory
 - Includes one set (2) Patient Grips
 - Accessory rails (both sides)
 - Table-top Markings: two lines along table length, to indicate actual image area
 - Hand locking device for control of floating table-top
 - Locking caster wheels (5"), all wheels lock (each wheel locks separately)**
- ** See QT-DLW option for Dual Locking ability

OPTION FOR QT-711 TABLE

QT-DLW DUAL / TWIN LOCKING WHEEL SETS:

- Allows Left and Right side wheels to lock with one lever for both wheels (Four wheels lock with two pedals, front mounted)
- Includes "steering" wheel feature: left and/or right wheel sets lock a 0° or 90°, when table is moved



Specifications subject to change without notice.

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Innovations in Digital Imaging.

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