

Upright Radiographic Systems

by **Universal**

Personalized Upright
Imaging Solutions



*Digital, CR and Analog
Imaging Solutions
to meet your specific
needs and budget*

Universal

Serving the Medical Profession
for Over 75 Years.

Digital Imaging Solutions

DC Choice™ Complete Digital Suite

- **A simple, yet sophisticated, cost effective** direct digital x-ray system that eliminates the need for cassettes, film, chemistry, automatic film processor, darkroom, film storage, and monthly maintenance.
- **Delivers high-quality digital images** utilizing a powerful 500 mA high frequency generator. The APR techniques increase diagnostic and operator efficiency and throughput.
- **A fraction of the time** required for x-ray exams to be completed when compared to conventional film systems with the added convenience of being able to manipulate, store and forward the image electronically for consultation.



Simulated digital suite shown with optional pedestal mount for control console.

Digital upgrades are also available!

Enhance your existing system with a digital wall stand or choose one of our CR solutions.

Standard Features



Tubestand:

- Mounts floor-to-wall or floor-to-ceiling
- Tube rotation enables precision alignment of the tube for non-angled, angled and upright views
- Convenient display gives indication of tube rotation
- 6' (183 cm) tracks allows for 40" (100 cm) and 72" (180 cm) digital imaging
- Stainless steel bearings assures smooth vertical and horizontal tubestand movement
- Electro magnetic locks provide positive positioning of vertical and horizontal tubestand positions

Digital Detector Wall Stand:

- Full-bodied floor to wall mounted column
- Digital detector has extensive column travel
- Stainless steel bearings will provide years of smooth digital detector travel
- Electro magnetic lock maintains digital detector height

Tube / Collimator

- 200,000 heat unit 0.6 x 1.5 mm focal spot tube for high resolution
- Manual collimator with laser light and swivel mount

Digital Radiography Acquisition Package Consisting of:

- 3k x 3k, 9 megapixel array
- 16" x 16" image field
- 3.1 lp/mm resolution
- Image displayed in less than 10 seconds
- 400 speed screen/film equivalent
- 20" monitor, 1600 x 1200 resolution
- DICOM Send, Store, Modality Worklist and Print
- Patient information database
- R & L & A & P markers
- Window level, zoom & pan
- Remote PC access

Acquisition Station

The acquisition station with 20" monitor is located in the x-ray suite behind a lead barrier. The acquisition station allows you to instantly view the acquired image for feedback and verification. Once the image is accepted and the exam complete, the image is sent to a work-station or PACS. Typically, the workstation is where diagnostics are performed for consultation, image manipulation, electronic forwarding, etc.



Picture Archiving and Communication Systems (PACS)

(PACS) are computers or networks dedicated to the storage, retrieval, distribution and presentation of images. PACS offers many conveniences for the high volume facilities where digital imaging studies would reach the maximum capacity of a hard drive in three or four months. We have found that the workstation will be sufficient in many applications. A no obligation, free consultation with one of our dedicated digital consultants and local independent representatives can give you specific recommendations for image storage.

Call toll free, 800-800-6006 to schedule an appointment.

Workstation

A separate workstation with DICOM (standard for digital imaging) viewing and manipulation software would be located in an area away from the x-ray suite. The viewing software provides the ability to manipulate the image for optimal image quality. Manipulation includes such capabilities as zooming, contrast adjustment, measuring, annotations, etc. In addition to enhancing image quality, the viewing software gives you the capability to burn images onto a CD/DVD and forward electronic files via the internet for consultation.



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... a name trusted for over 75 years.

The Digital World, Your Options

The advent of digital imaging has created an overwhelming interest on the part of many practitioners. As with radiographic equipment, there are multiple choices in capturing digital images. The following are brief descriptions of three of those options.

CR, Computed Radiography

Universal offers the Kodak Point-of-Care CR120 & CR140 systems which use computed radiography technology. An image is created using a cassette containing a phosphor plate that replaces the conventional cassette with intensifying screens. The cassette with phosphor plate is placed in the cassette tray. Once the exposure is made, the cassette is removed and placed into the Kodak Point-of-Care reader that scans and digitizes the image. The digital image is displayed on the monitor within 30 to 40 seconds. After the image has been digitized, the plate is then automatically erased for reuse. The Kodak Point-of-Care automatic erase feature eliminates the need to place the cassette in one compartment to read and in another compartment to erase as required by some CR units.

DR, Direct Radiography / CCD, Charged Coupled Device

The Universal **DCChoice™** utilizes a digital image receptor, similar to a digital camera. The digital receptor is energized by the x-ray beam and captured by a high resolution CCD camera. To clarify, x-rays strike a scintillation material and are then converted to light. The light is then captured by the CCD camera. The image is displayed on a monitor in less than 10 seconds. CCD technology is the most cost effective direct digital imaging solution.

DR, Direct Radiography, Flat Panel Detector

There are two types of DR panel technologies. Due to limited application and high cost, these technologies are typically found in hospital settings. In both DR panel technologies, the detector directly captures the image and displays it on a monitor within 7-10 seconds.

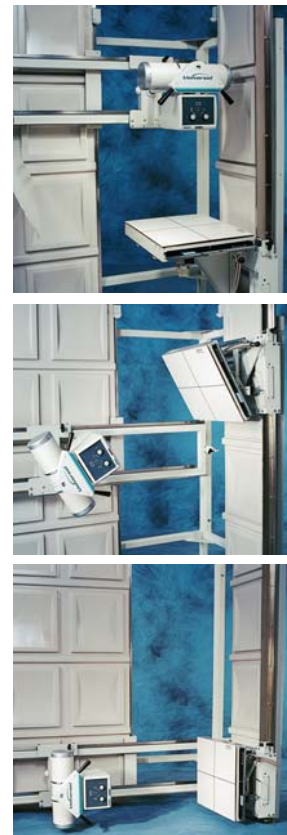
Clearly there are many advantages to digital imaging. Contact us at 800-800-6006 to discuss the option best suited for your clinic. Our knowledgeable staff and extensive dealer network will be able to assess if digital imaging is a viable option for your practice.

Film-Based or CR Imaging Solutions

PreciseView

The design of the PreciseView delivers a real clinical edge. In addition to offering precise positioning and alignment - a major contributor to high quality radiographs - the PreciseView provides maximum ease of operation with time-saving single motion positioning for virtually all upright and extremity exams.

PreciseView was designed to make positioning easier for both patient and doctor or technician. Virtually effortless movement is assured by the use of precision stainless steel bearings, which allow smooth and precise tube positioning, both horizontally and vertically. Precise positioning means fewer repeats, less film waste and faster throughput. Single-motion positioning reduces patient positioning by up to 80%. This is accomplished through interlocking the tube positioning structure to the image receptor when performing procedures where the central ray is 90 degrees to the patient. Angled and extremity views are accommodated by simply disengaging the tube-image receptor interlock through the use of a 'T' handle pin and placing the receptor in a horizontal position.



Upright Raymaster

The Universal Raymaster system is thoroughly at home in private, group, or clinical applications. It provides full radiographic capabilities, from skull to weight bearing studies.



Standard Features:

Tubestand:

- Mounts floor-to-wall or floor-to-ceiling
- Tube rotation for non-angled, angled and upright views
- Display gives indication of tube rotation
- 6' (183 cm) tracks allows for 40" (100 cm) and 72" (180 cm) film distances
- Stainless steel bearings for smooth movement
- Electro magnetic locks for positive positioning of vertical and horizontal tubestand positions

Vertical Wall Stand:

- Counterbalanced for effortless movement
- 17" x 17" (43 cm x 43 cm) grid cabinet
- Front panel with patient centering line
- 103 Line, 8:1 fine line grid for superior film quality
- Cassette tray accepts 14" x 17" (35 cm x 43 cm) and smaller cassette sizes, both inch and metric
- Electro magnetic lock maintains cabinet height
- Extensive vertical travel of 75.25" (191 cm) allows for views from skull to weight bearing

Options:

- 8' (244 cm) or 12' (366 cm) tubestand tracks
- 17" x 17" (43 cm x 43 cm) bucky for wall stand
- 10:1 or 12:1 ratio grid for wall stand
- Ion chamber to accept AEC capability of generator
- 14" x 36" (35 cm x 91 cm) grid cabinet or reciprocating bucky for wall stand (Model 3547)

Universal provides generator selections to meet the needs and budget of the practice.

Universal generators range from our budget friendly HE425 400 mA single phase model to a variety of high frequency generators.

HE425

The HE425 Universal 400 mA microprocessor controlled generator is synonymous for accuracy, safety, reliability, quality and ease-of-use. The added power enables use of shorter time to stop motion and provides peace-of-mind in penetrating patients that conventional 300 mA generators typically cannot accommodate. The HE425 is ideally suited for the value conscious buyer.



High Frequency Generators

Universal offers a variety of high frequency generators that combine electronic technology with advanced microprocessor control design.

Universal high frequency generators are available in 300, 500 and 600 mA output. Among the choices is our exclusive MPX525 two-point or APX525 three-point technique selection generator which allows the technician to choose the mode of operation they are most comfortable with. In the two-point mode, the generator allows selection of mAs and kVp or independent selection of mA, kVp and time. The three-point model adds APR (Anatomically Programmed Radiography).

Penetration of heavier patients is assured with selection of our powerful 500 or 600 mA generator. In addition, the added power will deliver higher mR/mAs desirable when using DR or CR today or in the future.

Our standard wall mount control panel allows installation in a very restricted space. An optional pedestal stand is also available.

Over the past 75 years Universal has been providing generators that are user-friendly, powerful, compact, reliable and flexible. Regardless of your generator choice or installation site requirements, our wide selection will give you peace of mind in producing quality images.

Which option is best for my practice?

Good Choice

The Upright Raymaster System combines economy and flexibility to provide a wide range of diagnostic procedures with a traditional upright film-based system at an affordable price.

The Kodak Point-of-Care CR120 is a CR system ideally suited for clinics with low exam volumes. This is a good entry level solution where scan times are not as critical.

Better Choice

The Revolutionary PreciseView precision alignment and positioning system simplifies all your x-ray procedures and reduces operating costs. Choose from our variety of generators - from the basic 400 mA, 125 kVp single phase to state-of-the-art 300, 500 or 600 mA high frequency with or without anatomical programming.

The Kodak Point-of-Care CR140 is a CR system ideal for CR examinations in busy clinics and specialty practices.

Best Choice *DCChoice™*

The DCChoice™ Digital Imaging System

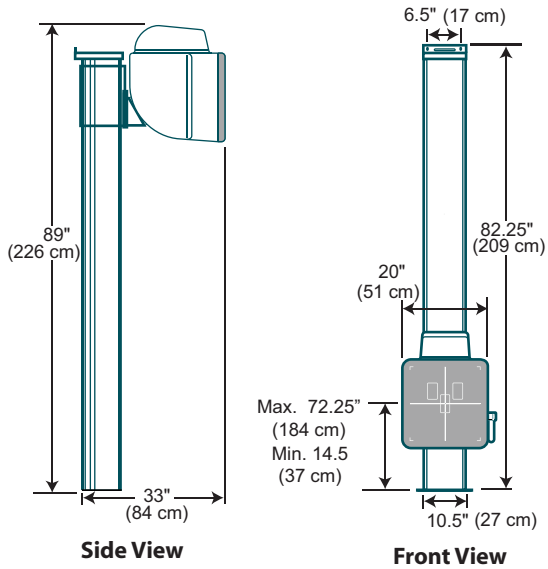
delivers quality digital images in as little as 7 - 10 seconds. Coupled with our powerful 500 mA high frequency generator, penetration of heavier patients is assured. The fine focal spot x-ray tube (0.6 - 1.5 mm) packaged with the *DCChoice™* further enhances image quality.

Upgrade your existing system

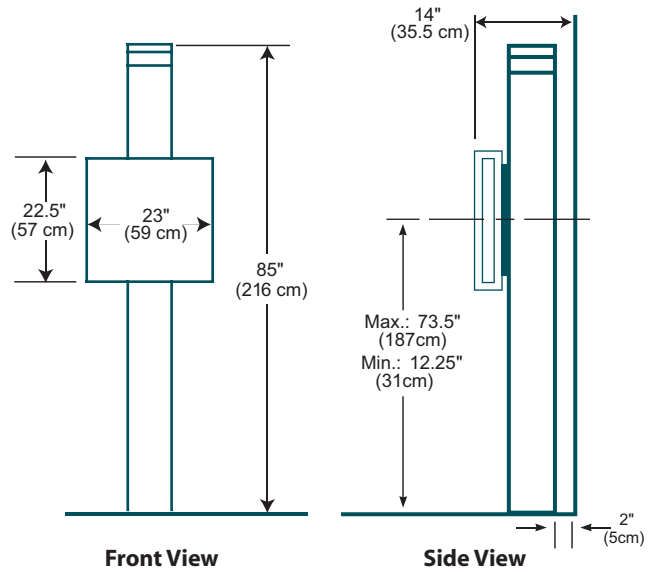
The *DCChoice™* has the flexibility to upgrade seamlessly with a variety of high frequency x-ray generators. Upgrading your existing wallstand with the *DCChoice™* digital upgrade will bring added value to your practice and enhance your diagnostic capabilities.

... a name trusted for over 75 years.

DCChoice Digital Detector

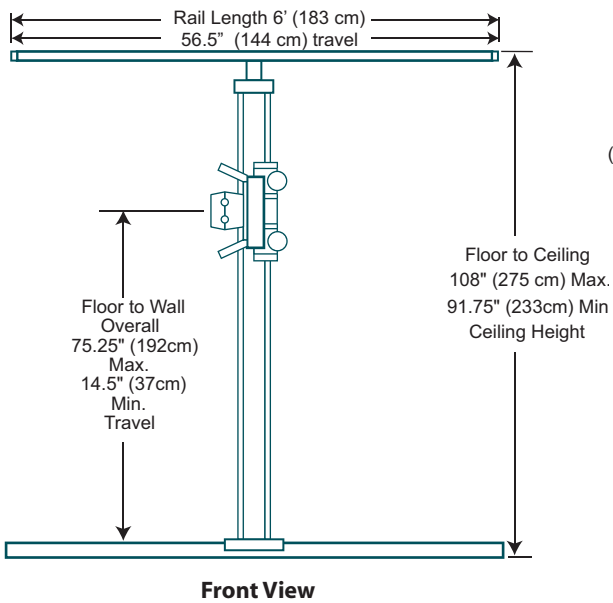


Upright Raymaster Wallholder

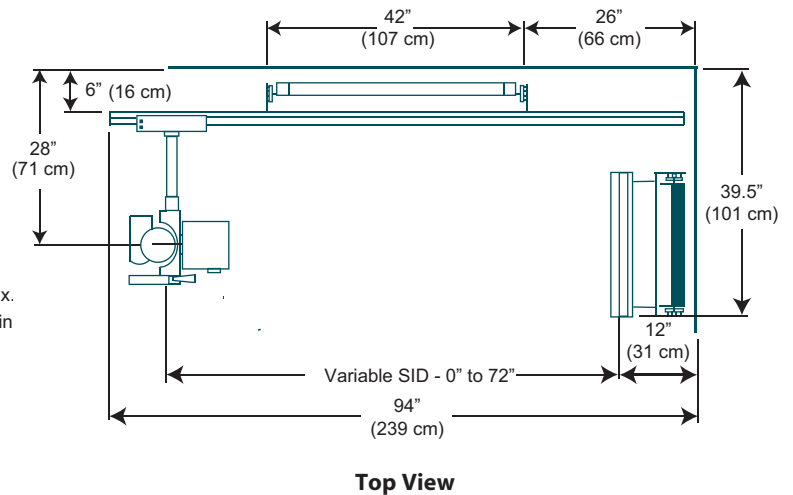


FW/FC Tubestand

(Common on DC Choice & Upright Raymaster)



PreciseView



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Rev. 5/07 Upright Systems



Complies with all CDRH performance standards in effect at the date of manufacture. As we strive for constant improvement, specifications are subject to change without notice. UL Classified
 An ISO13485 & ISO9001 Certified Facility



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