

SERIES 9000™

Basic Specifications



X-RAY SYSTEM

Generator

- High frequency, 2.5 kHz
- 7.5KW full-wave
- Up to 120 kVp
- Up to 100 mA for Radiographic exposures
- Fluoro boost capability

X-ray tube

- Eimac® rotating anode
- Focal spots: 0.3 mm and 1.0 mm
- Anode heat capacity: 300,000 HU
- Anode cooling rate: 60,000 HU per minute
- Housing heat capacity: 1,200,000 HU
- Collimator: Twin leaf, motorized, rotatable

Fluoroscopy Mode

- Focal spot 0.3 mm
- kVp range: 40-120
- Maximum ripple: Typically 1% @ 120 kVp/5mA
- mA range: 0.5-5.0 normal 2.5-20mA boosted (optional)
- Auto and manual modes
- Continuous or pulsed

- ABS varies mA, kVp and camera gain

Radiographic Mode

- Focal spot: 0.3mm or 1.0mm
- Focal spot size automatically selected
- kVp range: 50-120
- mAs range: 1-300

Cassette Holder

- 10" x 12" or 20cm x 30 cm

VIDEO IMAGING SYSTEM

Image Intensifier

- Input screen: 6" (standard)
- Central Resolution: 44 lp/cm (typical)
- Peripheral Resolution: 36 lp/cm (typical)
- Contrast Ratio: 20:1 (typical)
- QDE: 60% (typical)
- Input screen: 6"9" (optional)

TV Camera

- Full 360° motorized rotation
- Left-right scan reversal

- Negative mode
- Automatic gain control
- Video signal: Standard RS-170, 60Hz/525 interlaced (50 Hz/625 optional)
- Camera tube type: Vidicon

Video Monitors

- Two 15" monitors mounted at eye level, side-by-side
- Remote brightness and contrast controls

IMAGE STORAGE

- Video Resolution: 512 x 512 x 8 bits
- Last image hold
- Memory Capacity
 - Fluoro mode: 4 images
 - Integrate mode: 3 images
 - Enhance integrate mode: 2 images

IMAGE PROCESSING

Dynamic averaging (real-time)

- Significant image improvement is achieved by taking the average of several successive images and displaying the outcome in real-time. The resultant fluoroscopy has a higher signal-to noise ratio thus a cleaner image is displayed
- Frames averaged: Low, high (selectable)

Integrate (one shot)

- The same noise reduction advantages of dynamic averaging with an automatic termination of the X-ray beam when the process is complete

- Frames averaged: Low, high (selectable)

Enhance Integrate

- All the features of integrate (one shot) with automatic enhancement of edge detail

PHYSICAL SPECIFICATIONS

Mechanical

- Free space in arc: 6": 29.5" 6"9": 27.0"
- Depth of arc: 23"
- Arc movement: 111°
- Left/right scan: ±11°
- Vertical travel: 18" motorized
- Horizontal travel: 18"
- L-arm rotation: ±185° motorized
- Reversible C-arm: Manual (flip-flop)

Dimensions

Main C-arm frame (in most compact position):

- Length: 77.6" (197cm)
- Height: 66.2" (168cm)
- Width: 34.0" (86cm)

Monitor Cart:

- Length: 31" (78cm)
- Height: 60" (152cm)
- Depth: 26" (66cm)

Electrical

- Input power: 115V @ 20 amps
- 50 Hz (optional)



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LR-050032-01