HUESTISMEDICAL
making it affordable™

Remanufactured C-Arm

OEC 9600 Remanufactured C-Arm

Remanufactured OEC 9600 C-arms from Huestis Medical offer excellent imaging results at a remarkable price. Even more remarkable is our ability to deliver performance and safety features guaranteed to meet or exceed original manufacturer's specifications.

Thoroughly remanufactured, our OEC 9600 C-arms are restored to like-new condition through multi-step processes. We disassemble, mechanically and electronically restore, refinish, calibrate, and perform final testing and QA on each C-arm. Our full line of OEC C-arms offers imaging excellence and reliability, at an affordable price.

X-Ray System

Generator

- High frequency
- 4.5 kW full-wave
- Up to 120 kVp
- Up to 75 mA for radiographic film exposures
- Continuous fluoro boost mode up to 12 mA
- Pulsed fluoro mode
- Pulsed fluorography mode up to 40 mA
- Full power from standard outlet 120V/15A
- Patented energy buffer design

X-Ray Tube

- Rotating anode X-ray tube
- Focal spots: 0.3 mm and 0.6 mm
- Anode heat capacity: 300,000 H.U.
- Anode cooling rate: 60,000 H.U./min
- Housing heat capacity: 1,600,000 H.U.
- Anode diameter: 3.1 in
- Anode angle: 10°
- X-ray tube cooling fan (Neuro Vascular & Cardiac)

Collimator

- Iris collimation with dual opposing semi-transparent shutters allow elliptical, round and rectangular collimation
- Iris and shutters are continuously variable
- All functions remotely controlled from the C-Arm control panel

Fluoroscopy Mode

- Focal spot: 0.3 mm
- kVp range: 40 – 120 kVp
- Maximum ripple: typically 1% at 120 kVp/5 mA
- mA range: 0.2 – 5.0 mA normal mode, 1.0 – 12 mA continuous fluoro boost mode
- Auto and manual modes
- Continuous, one-shot or pulsed operation
- ABS varies mA, kVp and camera gain
- User specific ABS tables

Pulsed Fluoroscopy Mode

- Focal spot: 0.3 mm
- kVp range: 40 – 120 kVp
- mA range: 0.2 – 5.0 mA
- Pulse rate: 1, 2, 4, or 8 pulses per second
- Pulse width: 30 or 50 milliseconds
- Computer controlled ABS, mA, kVp and camera gain

Digital Spot Mode

Standard with the Expanded Surgical Platform (ESP)

- Enhanced digital fluorographic one-shot with 12 mA boost
- Automatically terminates exposure and stores enhanced image to 200 image storage archival disk

Radiographic Mode

- Focal spot: 0.3 mm or 0.6 mm
- Focal spot automatically selected
- mAs range: 1 – 300 mAs
- kVp range: 50 – 120 kVp
- Cassette holder (optional)
  10 in x 12 in (24 cm x 30 cm) 9 in I.I.
  14 in x 14 in (35 cm x 35 cm) 12 in I.I.

Video Imaging System

9 in Image Intensifier

- Tri-mode 9 in/6 in/4.5 in image intensifier
- Central resolution (typical):
  4.5 in: 64 lp/cm
  6 in: 56 lp/cm
  9 in: 48 lp/cm
- Peripheral resolution at 70% radius (typical):
  4.5 in: 58 lp/cm
  6 in: 52 lp/cm
  9 in: 44 lp/cm
- DQE: 75% (typical at 1.7 Hz)

12 in Image Intensifier (optional)

- Tri-mode 12 in/9 in/6 in image intensifier
- Central resolution (typical):
  6 in: 56 lp/cm
  9 in: 50 lp/cm
  12 in: 44 lp/cm
- Peripheral resolution at 70% radius (typical):
  6 in: 54 lp/cm
  9 in: 48 lp/cm
  12 in: 42 lp/cm
- DQE: 75% (typical at 1.7 Hz)

Video Monitors

- Dual 16 in square, black etched, anti-glare, anti-static
- 525 lines, FastScan flicker-free
  73 Hz non interlaced VGA compatible
- Ambient room light sensor
- Multi-LED X-ray "ON" indicator
- Remote window/level controls

T.V. Camera

- High resolution CCD camera
- Full frame capture
- 360° motorized rotation
- On-screen orientation indicator (real-time feedback without fluoro)
- Left-right image reversal
- Top-bottom image reversal
- Negative mode
- Bandwidth: 10.5 MHz
- Video signal: Standard RS 170 A
  60 Hz, 525 line
- Aspect ratio: 4:3
- Computer controlled features:
  - Gain
  - Blanking
  - Camera iris

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Remanufactured C-Arm

Both C-Arm and workstation are light and compact for easy transportation and maneuverability. Balanced weight distribution and user-friendly steering provide for "push or pull" operation.

EasyOp user friendly, one button operation of all functions.

On-screen orientation indicator allows image rotation to indicated position without generating X-rays.

Image Processing

Expanded Surgical Platform (ESP)

- 4 image storage with last image hold 640 x 512 x 10 bit
- Frame averaging (low, medium, high)
- One-shot frame integration (low, medium, high)
- MARS (motion artifact reduction)
- Patient annotation keyboard
- Digital window/level
- Real-time auto-histogramming
- Negate
- On-line help menus
- Laser aimer/localizer (optional)
- 200 image storage with last image hold
- 6 image storage on 3-1/2 in floppy disk (removable)
- 16 image collage of 200 image disk
- TrackPad with superkey
- Variable edge enhancement (TrackPad)
- Variable zoom & roam (TrackPad)
- Patient directory with minified image scroll (TrackPad)
- Continuous fluoro boost mode up to 12 mA
- Pulsed fluorography mode up to 40 mA
- Digital Spot Mode
- Anatomical markers
- Relative measurement capability (TrackPad):
  - Angles
  - Widths
  - Lengths
- Procedural dose log (mA, kVp, time, patient)
- Multi-function infrared remote control (optional)
- 4 fps to 15 fps digital disk (optional)

Vascular Module

Includes all Expanded Surgical Platform (ESP) features plus adds:

- Real-time subtraction
- Roadmapping
- Peak opacification
- Re-registration (TrackPad)
- Variable landmarking (TrackPad)
- Mask save/recall
- Relative measurement capability (TrackPad):
  - Percent stenosis
  - Lengths, widths
  - Angles
- 15 fps digital disk:
  - Record/play rate: 1, 2, 4, 8, or 15 fps
  - Record time: 75, 37, 18, 9 or 5 minutes
  - Image storage: 4,500 digital images
  - Instant image access with TrackPad
  - Synchronized to pulse with generator, CCD camera and image processor.

Neurovascular Module

Available only with the Expanded Surgical Platform (ESP). Includes all ESP features plus adds:

- Real-time subtraction
- Roadmapping
- Peak opacification
- Re-registration (TrackPad)
- Variable landmarking (TrackPad)
- Mask save/recall
- Relative measurement capability (TrackPad):
  - Percent stenosis
  - Lengths, widths
  - Angles
- 30 fps digital disk:
  - Record/play rate: 1, 2, 4, 8, 15 or 30 fps
  - Record time: 150, 75, 37, 18, 10 or 5 minutes
  - Image storage: 9,000 digital images
  - Instant image access with TrackPad
- Synchronized to pulse with generator, CCD camera and image processor

Hardcopy Options

- Radiographic film capability
- Thermal printer
- Digital laser camera interface
  - P831 protocol
- DICOM 3.0 interface

System Control

- Entire system is computer controlled
- Software upgradable
- Multi-function infrared remote control (optional)
- Hand held X-ray remote control (optional)
- Multi-function footswitch

Standard C Mechanical

- Source to image distance: 39 in (990 mm)
- Free space in arc: 31 in (787 mm)
- Depth of arc: 26 in (660 mm)
- Arc orbital movement: 115˚/9 in, 112˚/12 in
- Left/right wig-wag scan: ±11˚
- Vertical travel: 18 in motorized (457 mm)
- Horizontal travel: 8 in (203 mm)
- L-Arm rotation: ±180˚ motorized
- Reversible C-Arm: 180˚ manual flip-flop

Super C Mechanical (optional)

- Source to image distance: 39 in (990 mm)
- Free space in arc: 31 in (787 mm)
- Depth of arc: 33 in (838 mm)
- Arc orbital movement: 151˚
- Left/right wig-wag scan: ±11˚
- Vertical travel: 18 in motorized (457 mm)
- Horizontal travel: 8 in (203 mm)
- C-Arm rotation: 280˚/100˚

C-Arm Dimensions

- Length: 78 in (1994 mm)
- Width: 33.0 in (838 mm)
- Height: 86 in (2191 mm)

Workstation Dimensions

- Depth: 27 in (692 mm)
- Width: 27 in (692 mm)
- Height: 64 in (1632 mm)

Electrical

- Input power (50 Hz or 60 Hz):
  100 V 15A
  110 V 15A
  120 V 15A
  200 V 8A
  220 V 8A
  240 V 8A

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