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OEC 9600 Surgical C-Arm Specifications Sheet



Features Generator

High frequency
40kW full-wave
Up to 120kVp
Up to 75rnA for radiographic film exposures
Continuous fluoro boost mode up to 12mA (optional)
Pulsed fluoro mode
Pulsed fluorography mode up to 40mA (optional)
Full power from 110V 15A
Patented energy buffer design

X-Ray Tube

Rotating anode X-ray tube
Focal spots: 0.3mm and 0.6mm
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: 3.1Ø
Patented energy buffer design

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: 0.3mm
kVp range: 40-120
Maximum ripple: typically 1% @ 120kVp/5mA
mA range: 0.2-5.0 normal mode, 1.0-12mA continuous fluoro boost mode (optional on SP)
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: 0.3mm
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
kVp range: 40-120 kVp

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

Video Imaging System – 9” Image Intensifier

Tri-mode 9”/6”/4.5” image intensifier
Central resolution (typical): 4.5”: 64 lp/cm 6”: 56 lp/cm 9”: 48 lp/cm
Peripheral resolution (@ 70% radius (typical): 4.5”: 64 lp/cm 6”: 52 lp/cm 9”: 44 lp/cm
¥ DQE: 75% (typical (ct 1.7Hz) 12” Image Intensifier Available only with the Expanded Surgical Package (ESP), Vascular Modules or Neuro Vascular Module.
Tri-mode 12”/9”/6” image intensifier
Central resolution (typical): 6”: 56 lp/cm 9”: 50 lp/cm 12”: 44 lp/cm
Peripheral resolution (@ 70% radius (typical): 6”: 54 lp/cm 9” 48 lp/cm 12”: 42 lp/cm ¥ DQE: 75% (typical (@ 1.7Hz)

T.V. Camera

High resolution CCD camera
Full frame capture
360¼ motorized rotation (auto home position)
On-screen orientation indicator (real-time feedback without fluoro
Left-right image reversal
Top-bottom image reversal Negative mode
Bandwidth: 10.5MHz
Computer controlled features: - Gain - Blanking - Camera iris

Video Monitors

Dual 16” square, black etched anti-glare, anti-static
525 lines, FastScan flicker-free 73Hz non interlaced VGA compatible
Ambient room light sensor
Multi-LED X-ray “ON” indicator
Radiographic film capability
Digital laser camera interface - P 831 protocol
DICOM 3.0 interface **Optional**

System Control

Entire system is computer controlled software upgradeable
Multi function infrared remote control (optional)
Hand held X-ray remote control
Multi function footswitch
Remote window/level controls (optional)
Image Processing Surgical Platform (Sp)
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)
Enhanced integration (low, medium, high)
MARS (motion artifact reduction)
Patient annotation keyboard
Digital window/level
Real-time auto-histogramming
Negate
On-line help menus

Physical Specifications

Monitor Cart
Length = 27” (69 cm)
Height = 64” (163 cm)
Depth = 27” (69 cm)

Main C-arm Frame

Length = 76 “ (193 cm)
Height = 68” (173 cm)
Depth = 33” (84 cm)
SID = 39” (99 cm)
Free space in Arc = 31” (79 cm)
Depth of Arc = 26” (66 cm)
Vertical travel = 18” (46 cm)
L-arm rotation = 180 Degree
Horizontal scan = 11 Degree

Integrated 2-on-I or I-on-I hardcopy camera **(optional)**

Laser aimer/localizer **(optional)**

Continuous fluoro boost mode up to 12mA **(optional)**

General Surgical Package (optional) Available only with the Surgical Platform (SP)

64 image storage with last image hold

16 image collage

Expanded Surgical Platform (ESP) (Optional) Includes all the Surgical Platform (SP) features plus adds

200 image storage with last image hold

6 image storage on 3 1/2" 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 12mA

Digital Spot Mode

Anatomical markers

Relative measurement capability (Track Pad): - Angles - Widths - Lengths

Procedural dose log (mA, kVp, time, patient)

Integrated S-VHS VCR (optional)

Multi function infrared remote control (optional)

4 fps or 15 fps digital disk (optional)

Basic Vascular Module (optional) Available only with the Expanded Surgical Platform (ESP)

Pulsed fluorography mode up to 40mA

Real-time subtraction ¥ Roadmapping with peak opacification

Relative measurement capability (TrackPad) - Percent stenosis - Lengths, widths - Angles

Integrated S-VHS VCR (optional)

8 fps digital disk - Record/play rate: 8 fps - Record time: 20 seconds - Image storage: 160 digital images - Instant image access with

TrackPad - Synchronized to pulse with generator, CCD camera and image processor

Vascular Module (optional) Available only with the Expanded Surgical Platform (ESP)

Pulsed fluorography mode up to 40mA

Real-time subtraction

Roadmapping

Peak opacification

Re-registration (TrackPad)

Variable landmarking (TrackPad) Mask save/recall

Relative measurement capability (TrackPad): - Percent stenosis - Lengths, widths - Angles

Integrated S-VHS VCR (optional)

4 fps digital disk - Record/play rate: 1, 2 or 4 fps - Record time: 22, 11 or 6 minutes - Image storage: 1,350 digital images - Instant image

access with Track Pad - Synchronized to pulse with generator, CCD camera and image processor.

15 fps digital disk (optional)

Neurovascular Module (optional) Available only with the Expanded Surgical Platform (ESP)

Pulsed fluorography mode up to 40mA

Real-time subtraction

Roadmapping

Peak opacification

Re-registration (TrackPad)

Variable landmarking (TrackPad)

Mask save/recall

Relative measurement capability (TrackPad): - Percent stenosis - Lengths, widths - Angles

Integrated S-VHS VCR (optional)

30 fps digital disk - Record/play rate: 1, 2, 4, 8, 15 or 30 fps - Record time: 150, 75, 40, 20, 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