

LONG DESCRIPTIONS

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S20002HW- Brivo OEC 785/Essential C-arm System

Brivo OEC 785/Essential C-arm System, offers clarity, simplicity and dependability in a reliable workhorse system. This system has a “point and shoot” simple user interface which can help any user get the right image with confidence.

Generator

- 40kHz high frequency
- 2.2kW monoblock
- Housing heat capacity: 900,000HU
- Housing cooling rate: 12,500HU/min
- Up to 110kVp
- Up to 20mA for radiographic film exposure
- Continuous high level fluoro (HLF) up to 12mA
- Digital spot up to 16mA

X-ray Tube

- Rotative anode X-ray tube
- Dual focal spot:
 - Small focal spot: 0.6mm x 1.4mm
 - Large focal spot: 1.4mm x 1.4mm
- Tube assembly total filtration 3.35mm Al
- Anode heat capacity: 90,000HU
- Maximum anode cooling rate: 37,000HU/min
- On-screen tube heat capacity indicator

9" Image Intensifier

- Tri-mode 9"/6"/4.5" (23cm/15cm/11cm) image intensifier
- Minimum central resolution (at monitor):
 - 9" (23cm): 2.0 lp/mm
 - 6" (15cm): 2.6 lp/mm
 - 4.5" (11cm): 3.1 lp/mm

PreView Collimator

- On-screen collimator position indication
- PreView iris collimator
- PreView tungsten rotatable double leaf collimator
- Adjusts collimators without X-ray exposure

Video Display

- Dual medical 19" (48cm) LCD with anti-glare panel.
 - Color or monochrome monitor (Optional)
 - Tilt motion: 7 degree up / 10 degree down
 - Swivel motion: 180 degree
- Maximum brightness: 1000 Cd/m² (Monochrome monitor, Optional)
- Maximum contrast: 900:1 (Monochrome monitor, Optional)
- 1280 x 1024 high resolution
- Digital Visual Input (DVI) interface for external monitors (optional)

Precise-Imaging features

- AutoTrak
 - Automatically seeks the subject anatomy anywhere within the imaging field and selects the optimum imaging technique
 - Automatically adjusts to anatomical size and location
 - Provides uniform image quality throughout entire image
 - Simplifies operation
- Smart Window
 - Dynamically senses the collimator position and automatically adjusts brightness and contrast to produce high image quality



- Smart Metal
 - Automatically detects the metal in field and optimizes image quality
 - Allows user to adjust automatic brightness and contrast sensitivity levels to metal
 - Provides optimum image quality even when metal is introduced to the field

Image Processing

- 1k x 1k x 16 bit image processing
- Dynamic recursive filter with adaptation to motion
 - Allows user to adjust noise filter levels to produce high image quality
 - Provides optimum image quality even when motion is introduced to the field
- Automatic digital brightness and contrast control
- Manual digital brightness and contrast control
- Auto adaptive non-uniformity correction
- Image edge enhancement
- Image negate mode
- Image save and auto-save
- Image swap and auto-swap
- Last image hold (LIH)
- Image zoom and roam
- Left-right image reversal
- Top-bottom image invert
- Digital Image Rotation
 - 360 degree real-time rotation for live and static images
 - Image positioning without additional exposure
- HIPAA SecureView
 - Password protection
 - Blank screen function
 - Delete all
- Measurement Software (Optional)
 - Distance measurement
 - Angle measurement
 - Multi-unit support (French, mm, Inch)
 - User calibration
- Image Annotation
 - Arrows and markers
 - Comments
 - Cropping
- 100,000 images storage

Brilliant-Dose Management Platform

- Unique hardware & software design to get balance of dose and image quality
 - Dynamic camera gain control for low dose imaging
 - High DQE image intensifier
 - Full digital image processing
- Doseless positioning
 - Laser aimer on tube and image intensifier
 - Preview collimator
 - Real time rotation for static images



- Provide real-time dose information
 - Dose rate, accumulative dose, DAP
 - Multi-unit support, (Gy, Rad)
- Lower dose imaging mode for pediatrics
 - Removable grid (optional)
 - Additional filter (optional)
 - Low dose mode
 - Pulsed imaging mode
- Dose summary data output & archive
 - Dose summary export & print out
 - Dose information transfer via DICOM (RDSR)

User Interface

- Automated system operation requires minimum operator interface
- Emergency login mode
 - No password needed
 - Basic imaging function available
- Multi-functional controls
 - Footswitch with save button (Optional)
 - Handswitch
- Simplified water-resistant keyboard
- Multi-purpose image directory
 - Retrieve and review images
 - Export images
 - Import images
 - Delete images
- Customize functions
 - Workstation set-up
 - Mainframe set-up
 - Multi-language set-up
 - Date/time set-up
 - DICOM interface set-up
- Review station
 - Workstation works alone
 - Image review and DICOM operation available
- Image Intensifier side and tube side laser aimer (Optional)

Hardcopy/Connectivity

- CD/DVD writer (Optional)
- USB memory stick port
- Integrated DICOM storage(Optional)
- Integrated film/paper printer (Optional)
 - No film developing required
- DICOM printer support
 - Multi-format, 1, 2, 4 on 1
 - Multi-copy capability
- Radiographic film cassette holder (Optional)



Pediatric Application Kit

- Removable grid (Optional)
- Additional filter (Optional)

Integrated Uninterruptible Power

- Patient Image data protection
- Orderly shutdown

Regulatory Compliance

- IEC60601-1 2nd Ed. and 3rd Ed. (Plus
- Collateral and Particular Standards)
- JIS 4704, 4702, 4703
- MDD 93/42/EEC
- GB9706.1

C-arm Mechanics

Physical Specifications	
Mainframe	
System length	70.3 in (179 cm)
System height	67.1 in (170.5 cm)
System width	30.7 in (78 cm)
Weight	573 lbs (260 kg)
C-arm	
SID	39.4 in (100 cm)
Free space in arc	30.7 in (78 cm)
Depth in arc	26 in (66cm)
Orbital rotation	120° (90°underscan /30°overscan)
Lateral rotation	410° (+205°/-205°)
Lateral height	40.2 in (102 cm)
Wig/wag	25° (+12.5°/-12.5°)
Horizontal travel	8.0 in (20 cm)
Vertical travel	17.5 in (44.5 cm)
Workstation	
Height	65.7 in (167 cm)
Width	35.4 in (90 cm)
Depth	25 in (64 cm)
Weight	375 lbs (170 kg)
Monitor swivel	±90°
Monitor tilt motion	+7°/-10°

A20011MS - 1 Clinical application day on-site

The user will receive 1 day of training.
It is an on-site session.

In order to ensure training highest quality, only up to 4 people maximum are invited to participate.

At the end of the training session, surgeons/technicians/radiographers will be able to:

- Properly perform standard procedures,
- Make full use of the attached workstation with the viewer and post-processing tools.

