

Surgical Mobile C-Arm X-ray System

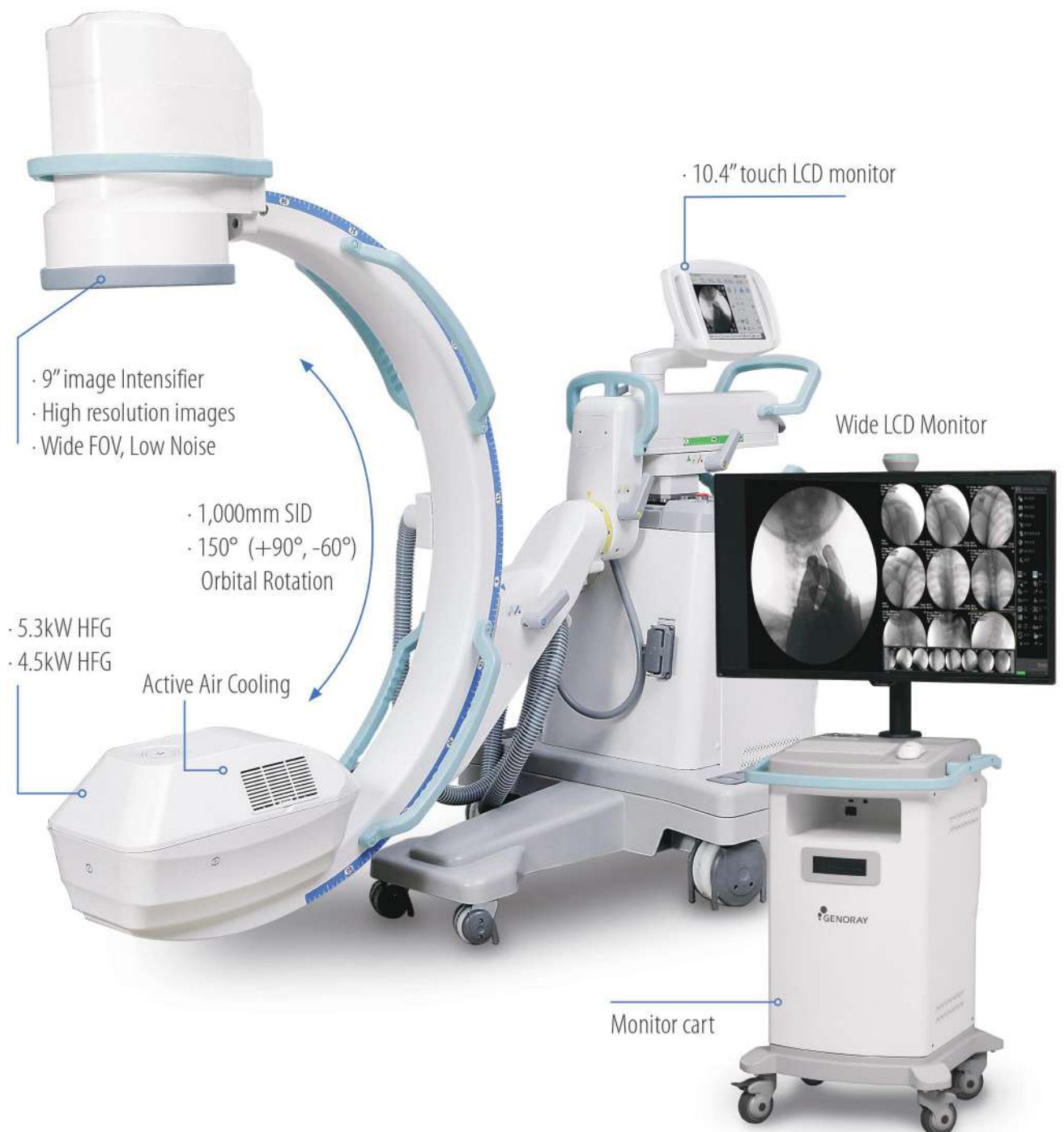
4.5kW

OSCAR classic

Surgical Mobile C-Arm X-ray System **4.5kW**

OSCAR classic

Oscar Classic offers comfortable and well-balanced operation for the users. Easy-to-use operating panel enhances live communication between operators.



1. X-ray Generator (HF Inverter 60kHz)

Input

- 1) Phase : Single
- 2) Line Frequency (Inverter control frequency) : 60kHz
- 3) Line Voltage : AC 220V \pm 10%
- 4) Nominal Peak Output Power : 4.5kW

Output

- 1) Radiography Rating
 - Digital Snap Shot : 40-120kV, 2mA-40mA
 - Film Mode : 40-120kV, ~45mA , 0.6mAs-200mAs
- 2) Fluoroscopy ratings
 - Continuous Mode - Small Focus : 40kV-120kV, 0.2mA-6.0mA
 - Large Focus : 40kV-120kV, 2mA-20.0mA
 - Pulse Mode - Small Focus : 40kV-120kV, 0.2mA-10.0mA
 - Large Focus : 40kV-120kV, 2.0mA-20.0mA
 - Pulse Rate : 1,2,4,8,15 f/s

* Power and Dose Management – Easy selection of suitable power and dose levels for each patients

2. X-ray Tube (Dual Focus Stationary Anode Tube)

Electrical Data

- 1) Circuit : DC(Center Grounded)
- 2) Operational Tube Voltage(Nominal Voltage) : 40-120kV
- 3) Focal Spot(Nominal Focal Spot Values)— Small: 0.5mm, Large: 1.4mm
- 4) Input Energy : 1.2kW at 0.5mm, 4.5kW at 1.4mm

Mechanical Data

- 1) Tube Dimension
 - Tube Length : 164mm
 - Tube Diameter : 50mm
- 2) Target angle : 15°
- 3) Filtration : 3.0mm Al
- 4) X-Ray Coverage : 430mm x 430mm @ SID 909mm

Other Ratings

- 1) Anode Heat Storage Capacity : 70,400HU (50kJ)
- 2) Anode Heat Dissipation : 46,480HU/min
- 3) Housing Heat Capacity : 2,217,600 HU

3. X-Ray Image Intensifier

- 1) Image Intensifier Type : Triple Mode 9"
- 2) Central Resolution :
 - N(9") : 52 lp/cm
 - M1(6") : 58 lp/cm
 - M2(4.5") : 68 lp/cm
- 3) Contrast Ratio(at N mode) : 30:1(10% Area Contrast)
- 4) DQE : 65%(IEC Standard)

CCD Camera

- 1) Effective Pixel : 1,024(H) x 1,024(V)
- 2) Scanning System: 30 f/s, 40MHz, progressive
- 3) Frequency: horizontal: 31 KHz, Vertical: 30 KHz
- 4) Pixel Sampling Resolution: 16bits

4. C-Arm and Stand Mechanical (Geometry or Physical Specifications)

C-Arm with Mechanical Brakes

- 1) Source to Image-receptor Distance(SID) : 1000mm
- 2) Free Space : 780mm (Remove cone : 810mm)
- 3) C-Arm Depth : 780mm
- 4) Orbital Rotation : 150° (90,+60)°
- 5) Horizontal Movement : 200mm
- 6) Vertical Travel : 500mm
- 7) Panning Motion(Wig/Wag) : ±12.5°
- 8) Pivot Rotation(Lateral Rotation) : ±230° (limited)
- 9) Lowest Lateral Height : 1,080mm
- 10) (a) C-Arm : 800 X 1900 X 1800 mm / 337kg (±5%)
(b) Monitor Cart : 830 X 590 X 1680 mm / 100kg (±5%)

Collimator

- 1) Operation : Manual / Remote Drive
- 2) Construction : 2Unit
 - (a) 4axis Asymmetric Lead Shutter
 - (b) Circle Iris Lead Shutter
- 3) Velocity:
 - (a) Open-Close : 5sec (Full stroke)
 - (b) Rotation : 15sec / 180°

Collimation Modes :

- Virtual : Operator selects desired field of view, while reducing the amount of radiation exposure.
- Automatic : Prevention of unnecessary X-Ray exposure by collimating and focusing on the area of interest.

5. Operation Panel (10.4" Touch Monitor)

Specification

- 360° Rotational
- Screen : 10.4" Color TFT LCD
- Resolution : 1024 x 768
- Aspect Ratio : 4:3
- Maximum Brightness : 400 cd/m²
- Viewing angle (L/R/U/D) : 70/70/60/80

Features

- Live Image Display and Image Movement: Rotation, Reverse, Flip, Zoom
- Automatic Brightness Control / Manual Parameter Setting
- Exposure Mode Selection: Pulse Rate, Noise Reduction, Dose Level
- Collimator Modes and Area Selection: Iris / 4 Way Shutters
- Anatomic Preset Mode Selection
- Motion, Metal Detection On/Off
- Laser Point On/Off
- Save Image

6. Acquisition Workstation

Computer and Software

- CPU : Intel I5
 - GPU : GTX 2060(6GB)
 - RAM : 8GB
 - SSD : 128GB + 256GB
 - HDD : 1TB*
 - OS : Win10
 - Removable Storage : CD/DVD & USB2.0
- * : Option

Displays

- Screen: 19" LED Color Display: 2Units
- Image Matrix: 1280 x 1024 Pixels
- Maximum Brightness: 250cd/m²
- Contrast Ratio: 1000:1
- Aspect Ratio: 16:9

DICOM Features

- DICOM Modality Worklist
- DICOM Storage
- DICOM Query/Retrieve
- DICOM Import/Export (DVD/USB)
- DICOM Print
- DICOM Worklist MPPS
- DICOM Storage Commitment
- DICOM Radiation Dose SR

7. Software “ZENIS”

1. Smart review (Automatic image save) *: Option
2. DNR(Digital Noise Reduction)
3. Edge Enhancement
4. Low Dose Mode (Low dose image processing, Structured dose reporting, AKR *, DAP *)
5. Tools
 - Image Layout Mode
 - Select / Zoom/ Panning
 - Pencil / Calibration /
 - Invert / Rotation / Horizontal, Vertical change
6. A-Package (Digital Subtraction Angiography) *
 - Cine Image Acquirement for DSA
 - Land-marking
 - Tracing
 - Roadmap (Masking, Pixel Shift, Brightness and Contrast Control)

8. Operating Environment

For Storage

- Temperature: -15°C - +45°C
- Relative Humidity: 10% - 90% RH (no dew condensation)
- Atmospheric Pressure: 500 - 1060hPa

For Operation

- Temperature: -15°C - +45°C
- Relative Humidity: 30% - 85% RH (no dew condensation)

Caution

- Exposure to moisture
- Exposure to direct sunlight
- Exposure to dust place
- Exposure to high humidity
- Exposure to condition has problem with ventilation
- Exposure to salty air
- Exposure to chemical or harmful gas



GENORAY Co.,Ltd.

512, 560, Dunchon-daero, Jungwon-gu,
Seongnam-si, Gyeonggi-do, 13230, Korea
Tel. +82-31-627-3900 Fax. +82-31-737-8016
genoray@genoray.com
www.genoray.com

Genoray America Inc.

147 E. Bristol Lane Orange, CA 92865 USA
Tel. +1-855-436-6729 Fax. +1-714-786-8919
inquiry@genorayamerica.com
www.genorayamerica.com

Genoray EU GmbH

Westhafenstr. 1 13353 Berlin, Germany
Tel. +49-30-509-694-98 Fax. +49-30-530-198-08
info@genorayeuropa.com

Genoray Japan

2F Ishibashi-Bldg, 1-4-15 Shinyokohama, Kouhoku-ku,
Yokohama-city, kanagawa, 222-0033 Japan
Tel. + 81-45-620-4971 Fax. +81-45-620-4972
Info@genorayjapan.co.jp
www.genorayjapan.co.jp