



GE OEC Fluorostar Compact*

GE OEC Fluorostar Series*

Experience the beauty of maneuverability in imaging

The improved GE OEC Fluorostar is the most lightweight and agile full-sized OEC C-arm ever developed. But don't underestimate the power and versatility of this truly compact C-arm. Providing beautiful image quality in applications from basic orthopedic to vascular, the OEC Fluorostar can be moved and positioned quickly in most any type of procedure room. With a C-arm this nimble offering a variety of quality features and functions, the new definition of art in agility is OEC Fluorostar.

- All-in-one, super-lightweight system with a small footprint.
- Superb image quality with point and shoot operation.
- Versatile applications including vascular capabilities.

* The GE OEC Fluorostar Compact comes with one or two monitors mounted on the c-arm. The monitor cart is optional. The OEC Fluorostar Series requires a monitor cart as no monitor is mounted on the c-arm. The GE OEC Fluorostar Compact and GE OEC Fluorostar Series will be referred as "GE OEC Fluorostar" throughout this document unless otherwise stated.



X-ray System

Generator

- 20 kHz high frequency
- 2.2 kW monoblock
- Compact monoblock design
- Housing heat capacity: 953,000 HU
- Housing cooling rate: 15,000 HU/min
- Up to 110 kVp
- Up to 8 mA in fluoroscopic mode
- Up to 20 mA for radiographic film exposure
- High Performance Pulsed Mode up to 8 mA
- Up to 25 frames per second in Cine mode
- Pulse width: 50 ms
- Digital spot up to 8 mA

X-ray Tube

- Stationary anode X-ray tube
- 0.5 and 1.5 nominal focal spots
- Tube assembly total filtration >3.9 mm Al
- Anode heat capacity: 46,000 HU
- Maximum anode cooling rate: 48,000 HU/min
- On-screen tube heat indicator

PreView Collimator

- On-screen collimator position indication
- PreView iris and double leaf collimator
- Independent adjustable asymmetric shutters
- Adjusts collimators without X-ray exposure

Digital Subtraction Angiography - DSA (Option)

- Subtraction
- Peak-Opacification
- Roadmapping

Standard Fluoro Mode

- kVp range: 36 -110
- mA range: 0.2 - 3
- Auto and manual fluoro modes

Hip Fluoro Mode

- kVp range: 36 -110
- mA range: 0.2 - 5.4
- Auto and manual fluoro modes

Low Dose Fluoro Mode

- kVp range: 36 -110
- mA range: 0.2 - 3
- Auto and manual fluoro modes

Pulsed Fluoro Mode

- kVp range: 36 -110
- mA range: 0.2 - 5.4
- Pulse rate: 1, 2, 4, 8 pps
- Auto and manual fluoro modes

Low Dose Pulsed Fluoro Mode

- kVp range: 36 -110
- mA range: 0.2 - 3
- Pulse rate: 1, 2, 4, 8 pps
- Auto and manual fluoro modes

High Performance Pulsed Fluoro Mode

- kVp range: 36 -110
- mA range: up to 8
- Pulse rate: 1, 2, 4, 8 pps
- Auto and manual fluoro modes
- Pulse width: 50 ms

Digital Cine Pulse Mode (Option)

- kVp range: 36 -110
- mA range: up to 8
- 1, 2, 4, 8, 25 fps
- Auto and manual fluoro modes
- Pulse width: 50 ms

Digital Spot Mode

- kVp range: 36 - 110
- 8 mA
- Automatic exposure termination
- Image can be saved automatically

Radiographic Mode

- mA range: 20 (13 for 100-120 V and Series system)
- mAs range: up to 80 (52 for 100-120 V and Series system)
- Exposure Time: 0.1 - 4 seconds
- Computer controlled exposure time
- Film cassette holder: 25.4 cm x 30.5 cm (10" x 12") (optional)

Video Imaging System

Precise-Imaging features

- AutoWindow: Automatically adjusts brightness and contrast to produce high quality image.
- Auto Exposure Rate Control
- Average filter
- Edge Enhancement filter
- Preset imaging profiles: standard, dense anatomy (Hip), hand, chest/thorax, reduced dose.

9" Image Intensifier

- Tri-mode 9"/6"/4.5" (23 cm/15 cm/11 cm) image intensifier tube
- Minimum central resolution (at monitor):
 - 9" (23 cm): 2.0 lp/mm
 - 6" (15 cm): 2.8 lp/mm
 - 4.5" (11 cm): 3.2 lp/mm
- DQE: 65% (typical)
- Grid: 8:1 ratio

Video Camera

- High resolution 1k x 1k CCD camera
- Full digital interface
- Fixed gain control

Video Display

- 19" (48 cm) monochrome TFT-LCD flat screen
 - Tilt motion: 9 degree
 - Viewing angle: 160 degree horizontal and vertical
- Minimum brightness: 800 Cd/m²

- Maximum brightness: 1000 Cd/m²
- Minimum contrast: 800:1
- 1280 x 1024 high resolution
- External video output:
 - DVI-I connector (includes both analog VGA and DVI-D signals)
 - Fixed resolution of 1280 x 1024 pixels

Image Processing

Image Processing

- 1k x 1k x 12 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
- Image edge enhancement
- Image negate mode
- Image save and auto-save
- Image swap
- Last image hold (LIH)
- Image zoom (up to 1 600%) 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
- Image Annotation
 - Laterality (Left/Right)
 - Comments
- 15,000 images storage

Exam Management

- Patient information
 - Examination list
 - Customized patient information
- X-ray DAP/Dose display & summary
- X-ray DAP/Dose summary export & print out
- DICOM interface (Option)
 - Storage
 - Print
 - Work-list
 - Radiation Dose Structured Report (RDSR)
 - MPPS
- Wireless Ethernet (Option)
 - LAN IEEE 802.11a/b/g/n. Supports WEP (64/128), WPA-PSK (TKIP/AES), WPA2-PSK (AES), IEEE 802.1X (EAP-PEAP, EAP-TLS, EAP-TTLS, EAP-FAST, EAP-LEAP) security methods.

(The Wireless Ethernet option may not be available in all areas.)

User Interface

- Entire system is computer controlled and software upgradeable
- User-friendly dual touchscreen control at the c-arm simplifies operation
- Automated system operation requires minimum operator interface

- Multi-functional controls
 - Footswitch with save button and mode toggle function
 - Handswitch
- Multi-purpose image directory
 - Retrieve and review images
 - Copy images
 - Post-processing of saved images
- Customize functions
 - Multi-language set-up
 - Date/time set-up
 - DICOM interface set-up
- Integrated laser aimer devices from Image Intensifier and X-Ray tube (optional)

Dose Management Platform

- Positioning without additional exposure
 - Laser aimer on tube and image intensifier (Optional)
 - Preview collimator
 - Digital image rotation (360°)
 - Left to right image rotation
 - Top to bottom image invert
- Provide real-time dose information
 - Dose rate, accumulative dose, DAP
- 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)

Additional Features

Other Image Storage Options

- CD/DVD writer (Optional)
- USB memory stick port
- Integrated DICOM storage (Optional)

Hardcopy Options

- Integrated film/paper printer (Optional)
- DICOM printer support
 - Multi-format, Up to 20 images from 1 patient on 1 film (limit set by the printer)
- Radiographic film cassette holder (Optional)

Pediatric Application Kit

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

Electrical

- Input power (60 Hz or 50 Hz)
 - 100V/110V/120V @ 13A
 - 200V/210V/220V/230V/240V @ 8A

Operating Range

- Temperature: 10° to 40°C
- Humidity: 20%-80% non-condensing

Physical Specifications

Mainframe	
System length	163 cm (64 in)
System height	171 cm (68 in)
System width	79 cm (31 in)
Weight	Series 255 kg (562 lbs) Compact 285 kg (629 lbs)
C-arm	
SID	98 cm (38 in)
Free space in arc	76 cm (30 in)
Depth in arc	66 cm (26 in)
Orbital rotation	120° (90°underscan / 30°overscan)
Lateral rotation	450° (+225°/-225°)
Lateral height	106 cm (42 in)
Wig/wag	20° (+10°/-10°)
Horizontal travel	20 cm (8 in)
Vertical travel	43 cm (17 in)
Monitor Cart	
Height	167 cm (66 in)
Width	82 cm (33 in)
Depth	60 cm (23.6 in)
Weight	77 kg (170 lbs)
Monitor swivel	180° (+90°/-90°)
Monitor tilt motion	9° (+4.5°/-4.5°)

Regulatory Compliance

The GE OEC Fluorostar system is CE labeled in accordance with 93/42/EEC (Medical Device Directive). According to Annex IX of this directive the system was assigned to class IIb. The system was tested and found to comply with IEC 60601-1:2005+A1:2012 including applicable collateral and particular standards, including but not restricted to the following:

- X-RAY TUBE ASSEMBLY Maxiplus 3000, IEC 60601-2-28:2010
- INTERVENTIONAL X-RAY EQUIPMENT GE OEC Fluorostar, IEC 60601-2-43:2010
- X-RAY EQUIPMENT for RADIOGRAPHY and/or RADIOSCOPY GE OEC Fluorostar, IEC 60601-2-54:2009

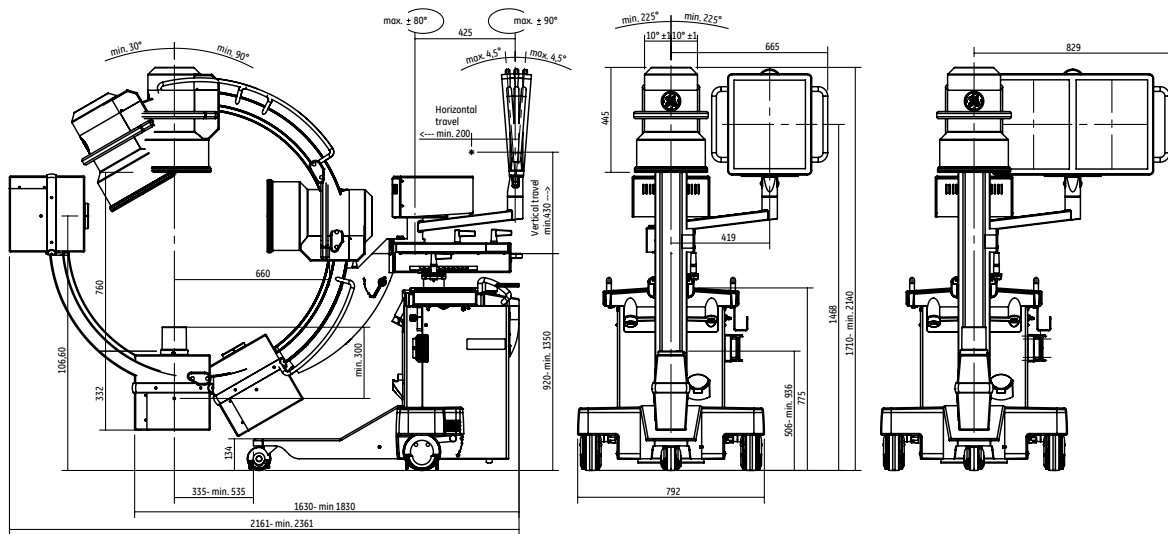
Dimensions

All dimensions in mm

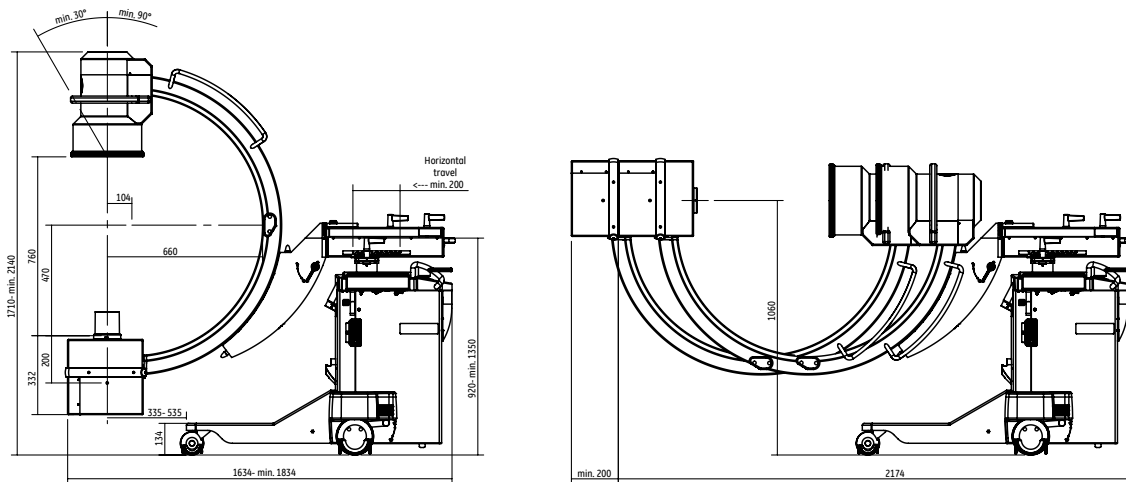
GE OEC FLUOROSTAR Compact and Compact²

GE OEC FLUOROSTAR Compact

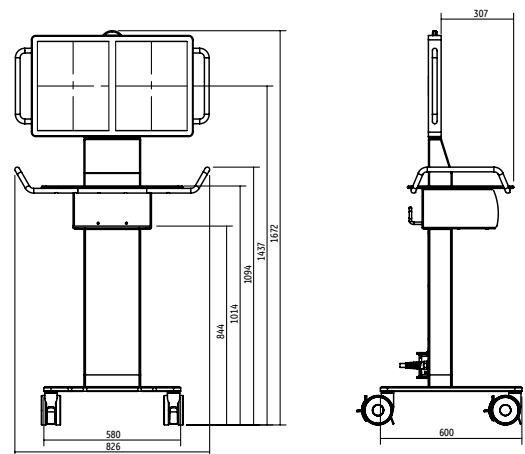
GE OEC FLUOROSTAR Compact²



GE OEC FLUOROSTAR Series



GE OEC FLUOROSTAR Monitor Cart (MC6)



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GE OEC Medical Systems, Inc., doing business as GE Healthcare.

OEC Fluorostar may not be available in all areas, check with your GEHC Sales Representative.

OEC Fluorostar is not available for sale or distribution in the United States.

Marketing Communications GE Medical Systems

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GE imagination at work