

# OEC One ASD

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## OEC One ASD

Experience the image quality expected from OEC image processing and enjoy convenience in a compact, all-in-one mobile C-arm.

### Imaging

Experience detailed imaging with OEC One ASD

- Full-size live and reference images from aSi flat detector to 4K display, processed with OEC image processing.
- See large, detailed 30 cm (11.8 inch) Squirrel images and preserve 100% of data when rotated.
- Live Zoom enables panning to area of interest and zoom up to 4X with no change in dose, which can minimize repositioning and retakes.
- Outline anatomy of interest or device on image screen with Digital Pen to plan procedures.
- Review contrast previously injected after exposure is terminated with Fluorostore, potentially minimizing additional exposures needed.
- Automatically reduce 50% dose with low dose mode. Reduce further by selecting pulsed imaging mode and removing grid.
- Confirm needle positioning in pain management procedures with real-time digital subtraction and up to 8 fps Cine.

### Efficiency

Enjoy ease of use with intuitive interface

- Images are within reach with the 4K 27 inch UHD display, on an articulating arm that adjusts to surgeon's line of sight.
- Synchronize workflow with OEC Touch control panel. Quickly access imaging features such as Live Zoom, Digital Pen and Fluorostore, to adjust images to surgeon's preference.
- Achieve deep angles with 55° Overscan and easily lock position with radial dial brakes during procedures.
- Five-minute standby power supports quick transport from room to room without turning off the system. Protects against patient data loss when power is interrupted.

### Versatility

Optimize space with compact all-in-one C-arm design

- With 36% smaller footprint,\* the OEC One ASD easily fits into tight spaces or small operating rooms.
- Point-and-shoot imaging offered in two configurations to suit clinical demands.
- Designed for pain management, orthopedic, spine, general surgery, and urology procedures.
- Expand image viewing options with optional OEC Display Cart.
- Designed to ensure Patient Health Information (PHI) remains confidential while managing user access to the system.



## Detector



### 21 cm aSi Flat Detector (ASD)

- aSi - Amorphous Silicon
- DQE(0): 70%
- Passive Matrix: 1520 x 1520 pixels
- Pixel Pitch: 139  $\mu\text{m}$
- Nominal resolution (at display):
  - 21 cm: 3.4 lp/mm
  - 15 cm: 3.4 lp/mm
  - 11 cm: 3.4 lp/mm
- Multiple mode magnification
  - Live Zoom fluidly from 1 to 4X with no change in dose
  - Fixed tri-mode Mag settings: 21 cm/15 cm/11 cm
- Anti-scatter grid
  - Designed to improve image detail
  - Removable by hand with status indicator on display
  - 74 lines/cm, f0 100

## Image Display



### C-arm Display

- 4K 27 inch (69 cm) Ultra high definition (UHD) Color 10-bit display
  - Displays two split screens with 11.8 inch (30 cm) Live and Reference Images
  - Squircle shaped image retains 100% of image when rotated for no cropped image view
  - 3840 x 2160 display resolution
  - 600 cd/m<sup>2</sup> maximum brightness
  - Contrast ratio (LCD Panel), typical: 1000:1
  - Touchscreen interface with anti-reflection
- Display mounted on an articulating arm
  - Viewable from all four sides of the C-arm
  - Position display by crossing articulating arm above and within C-arm footprint
  - 210° swivel at mainframe and 180° swivel at center of arm
  - 15.8 inch (40 cm) up/down vertical travel
  - 180° image display swivel
  - 5° up/25° down tilt
  - 178° horizontal and vertical viewing angle

### OEC Display Cart (Optional)

- Review OEC One ASD C-arm images on an additional 2K high-definition LCD display
- Mirrors display of connected OEC One ASD C-arm
- Comfortable display viewing with adjustable height range of 16 inch (41 cm)
- Effortlessly move around with compact footprint
- Functional with flat surface workspace and storage shelf

## Tube

### X-ray Tube

- Stationary anode
  - Heat capacity: 76,000 HU
  - Cooling rate: 37,000 HU/min
- Dual focal spot
  - Small focal spot: 0.6 x 1.4
  - Large focal spot: 1.4
- Tube assembly total filtration: 6.00 mm Al equivalent
- Housing
  - Heat capacity: 900,000 HU
  - Cooling rate: 12,500 HU/min
- On-screen tube heat capacity indicator
- Smart Technique: Heat management technology reduces X-ray technique to continue fluoro when system reaches high temperature. User alerted of reduction in X-ray technique

## Generator

### X-ray Generator

- 40 kHz high frequency
- 2.5 kW power
- kVp Range: 40 - 110 kVp for all imaging modes
- Continuous high level fluoroscopy (HLF) up to 16 mA
- Digital Spot up to 20 mA for 200 - 240V systems\* (10 mA for 100 - 120V systems)
- Pulsed fluoroscopy up to 25 mA

\* For 200 - 240V systems, 12mA is the default service mode set up but user can configure to 20mA  
 Availability of select models, configurations, and options varies by country.  
 Please contact your local sales representative.  
 510(k) pending at the US FDA. Not available for sale in the United States.

## Imaging Acquisition Modes

Mode	Description	mA Range	Pulse Rate	AutoTrak (ABS, mA, kVp)	Low Dose	Auto or Manual
<b>Continuous Fluoroscopy</b>	Standard fluoroscopy mode optimizes image quality while minimizing overall dose with low continuous mA	0.1 – 12 normal 0.2 – 16 HLF	N/A	●	0.1 – 6 low dose	●
<b>Pulsed Fluoroscopy</b>	Selectable based on user preference. Reduces X-ray dose to patient and operator	0.1 – 12 normal 0.2 – 25 HLF	1, 2, 4, 8 pps	●	0.1 – 6 low dose	●
<b>Digital Spot</b>	Radiographic Digital Mode. A short-duration, high-mA exposure to produce a high-quality single image with automatic exposure termination and image save	up to 20 mA* (up to 10 mA for 100 – 120 V systems)	N/A	●	N/A	●

N/A: non- applicable

## Image Processing

<b>Image Resolution</b>	<ul style="list-style-type: none"> <li>1.5 k x 1.5 k x 14 bit</li> <li>Up to 32-bit digitization depth</li> </ul>
<b>AutoTrak Automatic Brightness Stabilization (ABS)</b>	<ul style="list-style-type: none"> <li>Automatically seeks the subject anatomy anywhere within the imaging field</li> <li>Selects the optimum imaging technique by varying mA, kVp, and gain</li> <li>Adjusts to anatomical size and location</li> <li>Provides uniform image quality throughout the entire image</li> </ul>
<b>Smart Window</b>	<ul style="list-style-type: none"> <li>Dynamically senses the collimator position and automatically adjusts image brightness and contrast</li> </ul>
<b>Smart Metal</b>	<ul style="list-style-type: none"> <li>Minimizes the effect of metals on image quality</li> <li>Automatically adjusts brightness and contrast and allows user to adjust sensitivity levels for optimum image quality when metal is present in the imaging field</li> </ul>
<b>Adaptive Dynamic Range Optimization (ADRO)</b>	<ul style="list-style-type: none"> <li>Reduces blooming when capturing images of anatomy with varying density</li> <li>Enhances anatomy of interest while attenuating background features</li> </ul>
<b>Noise and Motion Artifact Reduction</b>	<ul style="list-style-type: none"> <li>Optimizes image quality by reducing noise during fluoro and at Last Image Hold</li> <li>Reduces lag and improves detail in images when moving the C-arm, repositioning anatomy of interest, or introducing a tool into the field of view</li> </ul>
<b>Image Presetting</b>	<ul style="list-style-type: none"> <li>High contrast or high brightness</li> </ul>

\* For 200 - 240V systems, 12mA is the default service mode set up but user can configure to 20mA  
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## Advanced Features

<b>Live Zoom</b>	<ul style="list-style-type: none"> <li>Digitally zoom up to 4X larger on imaged anatomy during a fluoro shot or Cine run</li> <li>Live Zoom uses the same dose rate as normal images, and less dose compared to images in Mag mode</li> <li>Enable on OEC Touch by two-finger pinch on live image and Last Image Hold</li> <li>Minimize repositioning C-arm by panning to area of interest on image</li> </ul>
<b>Digital Pen</b>	<ul style="list-style-type: none"> <li>Draw lines on image display for planning or educational purposes</li> <li>Bright blue color marks remain present until deleted from image</li> </ul>
<b>Measurements</b>	<ul style="list-style-type: none"> <li>Set calibration, measure distance and angles on image</li> <li>Unit of measurement configurable to mm, inch, or French</li> </ul>
<b>Annotations</b>	<ul style="list-style-type: none"> <li>Annotate markers such as L (left), R (right), A (anterior), P (posterior), H (head) and F (foot) in addition to directional arrows</li> <li>Crop images to shade portions of the image on the left area of the display</li> <li>Add text comments</li> </ul>
<b>Cine Runs</b>	<ul style="list-style-type: none"> <li>Automatic image playback</li> <li>Play/pause and forward/back at recorded speed and half speed</li> <li>Frame by frame or multiple frame review, including touchscreen slider</li> <li>Trim Cine to desired frame sequence before exporting</li> </ul>
<b>Fluorostore</b>	<ul style="list-style-type: none"> <li>After fluoro is released, save most recent frames of unsaved acquisition for review, up to 240 frames, with touch of a button on OEC Touch control panel</li> </ul>
<b>Reference Image Hold</b>	<ul style="list-style-type: none"> <li>During a subtraction run, an un-subtracted reference image can be viewed on right side of display, and toggle between un-subtracted image and reference image</li> <li>Live Zoom with Reference Image Hold for simultaneous display of digitally magnified anatomy on left screen, anatomy being imaged in top right corner and reference image held on right screen</li> </ul>
<b>Peak Opacify</b>	<ul style="list-style-type: none"> <li>For observing contrast flow in subtracted and un-subtracted runs</li> <li>When selected, image displayed presents the darkest pixels acquired for each point of a Cine run</li> </ul>
<b>Landmarking</b>	<ul style="list-style-type: none"> <li>Allows variation of the percentage of background anatomy that displays in a subtracted image</li> </ul>
<b>Re-Registration (Pixel Shift)</b>	<ul style="list-style-type: none"> <li>Allows alignment of the mask to image to produce an accurate registration by realigning the mask with selected image</li> </ul>

Standard Features	
<b>Image Adjustments</b>	<ul style="list-style-type: none"> <li>• Live and static image zoom and roam</li> <li>• Optimized Last Image Hold</li> <li>• Dynamic recursive filter with adaptation to motion. Allows user to adjust noise filter levels to produce high image quality and provides optimum image quality even when motion is introduced to the field</li> <li>• Automatic and manual digital brightness and contrast control</li> <li>• Auto adaptive non-uniformity correction</li> <li>• Image edge enhancement for live and post-processed images</li> <li>• Negate mode</li> <li>• Save and auto-save</li> <li>• Swap and auto-swap</li> </ul>
<b>Image Orientation</b>	<ul style="list-style-type: none"> <li>• 360-degree real-time rotation for live and static images. Allows image positioning without additional exposure</li> <li>• Reverse image left-to-right or invert image top-to-bottom</li> </ul>
<b>Collimation</b>	<ul style="list-style-type: none"> <li>• PreView indicates collimator positions on image display</li> <li>• Collimators include Iris and rotatable double leaf tungsten</li> </ul>

Software Configuration	Standard	PMCare
<b>Imaging Acquisition Modes</b>		
Fluoroscopy	1, 2, 4, 8, Continuous	1, 2, 4, 8, Continuous
High Level Fluoro (HLF)	1, 2, 4, 8, Continuous	1, 2, 4, 8, Continuous
Digital Spot	●	●
Peak Opacification		●
Re-Registration (Pixel Shift)		●
Variable Landmarking		●
<b>CINE Recording</b>		
4 fps		360 minutes
8 fps		180 minutes
Fluorostore		●
Cine Trim		●
<b>Image Processing and Other Features</b>		
Adaptive Dynamic Range Optimization (ADRO)	●	●
AutoTrak Automatic Brightness Stabilization (ABS)	●	●
Smart Window	●	●
Smart Metal	●	●
Noise and Motion Artifact Reduction	●	●
Live Zoom	●	●
Digital Pen	●	●
Reference Image Hold	●	●
Tungsten Collimator	●	●
PreView Collimator	●	●
Digital Image Rotation	●	●
Static Image Storage	150,000	150,000
Footswitch	Two pedal* Three mode pairs	Two pedal* Four mode pairs
Hand Switch	●	●
Room-in-Use Indicator Interface	●	●
Patient Privacy Control	●	●
DICOM	+	+
Laser Aimer on Detector Side	+	+
Laser Aimer on Tube Side	+	+
Measurement and Annotation	+	+

+ Indicates optional  
\* Wireless option



### Point-and-shoot imaging

OEC One ASD is designed to automatically optimize imaging while at the same time providing control to adjust images according to your preference. Capture images with simple point-and-shoot functionality for a variety of procedures.

Clinical Applications	Top Features*
<b>Pain Management</b>	<ul style="list-style-type: none"> <li>• Confirm needle positioning with Subtraction at selectable fps</li> <li>• Go back a few frames or review the last fluoro sequence with Fluorostore</li> <li>• Display reference image with additional un-subtracted reference image</li> <li>• Utilize up to four preset mode pairs from footswitch or OEC Touch, including Digital Spot</li> </ul>
<b>Orthopedic</b>	<ul style="list-style-type: none"> <li>• Minimize blooming when metal is introduced to the field with Smart Metal</li> <li>• Smart Window improves bone edge sharpness by detecting collimator position and automatically adjusts brightness and contrast</li> <li>• Achieve deep angles with 55° Overscan</li> </ul>
<b>Spine</b>	<ul style="list-style-type: none"> <li>• 55° Overscan for deep angulation capabilities</li> <li>• Expect automated image quality with AutoTrak, that locates region of interest and adjusts image technique when anatomy is not properly centered</li> <li>• Create a sharp image from the first shot with Automatic Brightness Stabilization (ABS) that selects the optimal imaging technique to ensure X-ray penetration</li> <li>• Greater detail and less blooming with Adaptive Dynamic Range Optimization (ADRO) that simultaneously improves visibility of anatomical detail when capturing images of anatomy with varying density</li> </ul>
<b>General Surgery</b>	<ul style="list-style-type: none"> <li>• Fluidly zoom from 1X to 4X and pan to area of interest with Live Zoom</li> <li>• Point-and-shoot imaging with enhanced OEC Software features: Optimized Last Image, Enhanced Motion Artifact Reduction, Adaptive Dynamic Range Optimization (ADRO), Smart Metal, Smart Window and Automatic Brightness Stabilization (ABS)</li> <li>• Optimize space with all-in-one design that fits in tight spaces or small operating rooms</li> <li>• Select the technique that best adjusts to your clinical needs, with pre-defined fluoro modes; low dose, pulsed fluoro, or HLF</li> </ul>
<b>Urology</b>	<ul style="list-style-type: none"> <li>• Increase visibility of small anatomy with Live Zoom</li> <li>• Enhance anatomy of interest while attenuating background features with Adaptive Dynamic Range Optimization (ADRO)</li> <li>• Outline anatomy of interest on image screen with Digital Pen</li> </ul>

\*Included but not limited. To confirm features available by configuration refer to page 9 Availability of select models, configurations, and options varies by country. Please contact your local sales representative. 510(k) pending at the US FDA. Not available for sale in the United States.

## Patient Exam



- Patient exam features include:
  - New exam entry and edit
  - Patient-centric view of exams
  - Manual deletion of exam(s)
  - Display multi-modality exams
  - View older exams
  - Resume performed exams
  - Search performed/scheduled exams
- HIPAA SecureView with password protection, blank screen function, and delete all patient information

## OEC Touch Control Panel



### C-arm Control Panel

- Intuitive interface brings control with simple swipes of four screens
- Quickly access functions during procedures, including X-ray controls, Fluorostore, Live Zoom, Digital Pen, mode pair switching, laser aimers\* and more
- OEC recognizable control icons and colors
- 10.1 inch (26 cm) touchscreen system control with 1280 x 800 high resolution
- Positioning preference with:
  - 30° up/10° down tilt
  - 270° side/side swivel
  - 160° horizontal and vertical viewing angle

## Positioning Aides



- Green laser aimers (Class 2) on detector\* and tube\* side with accessible on/off controls
- Color-coded radial dial brakes and easy-reach long C-arm handles
- Achieve deep angles with 55° Overscan
- Easily adjust display to surgical line of sight with articulating arm

## Dose Management



- Low dose mode provides 50% dose reduction from standard fluoroscopy
- Low dose combined with pulsed fluoroscopy can provide up to 90% reduction from standard fluoroscopy
- Live Zoom enables up to 4X increased imaging size with no change in technique
- Software design provides balance of dose and image quality
- Anti-scatter grid removable by hand, no tools needed
- Dose reduction positioning tools: Real-time rotation for static images, PreView collimator and laser aimers\*
- Skin spacer accessory\*\* increases the distance of skin to X-ray focal spot
- Dose rate, accumulative dose, and Dose Area Product (DAP) displayed
- Radiation Dose Structure Report (RDSR) export via DICOM or print

Image Management	
<b>Storage</b>	<ul style="list-style-type: none"> <li>150,000 static image storage</li> <li>180 min to 360 min Cine run storage, depending on fps and configuration</li> </ul>
<b>USB Export</b>	<ul style="list-style-type: none"> <li>Export images in BMP, JPEG, DICOM, OEC One compatible, or MP4 format</li> <li>Remove Patient Information</li> </ul>
<b>Image Directory</b>	<ul style="list-style-type: none"> <li>Retrieve and review images</li> <li>Export and import images</li> <li>Delete images</li> </ul>
<b>DICOM*</b>	<ul style="list-style-type: none"> <li>Worklist</li> <li>DICOM Print</li> <li>Query and Retrieve</li> <li>Image Storage and Commitment</li> <li>Modality Performed Procedure Step (MPPS)</li> <li>Wireless DICOM</li> <li>TLS (Transport Layer Security) with OEC Secure</li> </ul>
Connectivity	
<b>External Video Output</b>	<ul style="list-style-type: none"> <li>Display Port output to 4K display - one port <ul style="list-style-type: none"> <li>Full screen, left screen, left image</li> <li>Auto adaptive resolution up to 3840 x 2160</li> </ul> </li> <li>Convert from DP to HDMI and from DP to DVI</li> <li>Display Port output to 2K display- one port* <ul style="list-style-type: none"> <li>Full screen</li> <li>1920 x 1080 high resolution</li> </ul> </li> <li>BNC output - one port* <ul style="list-style-type: none"> <li>Left image</li> <li>NTSC/PAL</li> <li>16:9/4:3</li> </ul> </li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>Two ports</li> </ul>
<b>Ethernet</b>	<ul style="list-style-type: none"> <li>One port</li> </ul>
<b>Room Interface</b>	<ul style="list-style-type: none"> <li>One port</li> <li>Interactive interface for Room in Use Indicator, X-ray on Indicator, Injector in Use Indicator or Door Open Detector</li> </ul>
<b>Wireless Data Transfer*</b>	<ul style="list-style-type: none"> <li>802.11 a/b/g/n</li> <li>2.4 GHz/5 GHz</li> <li>Support WEP encryption, WPA/WPA2-Personal and Enterprise</li> </ul>
<b>Printers*</b>	<ul style="list-style-type: none"> <li>Thermal Hardcopy</li> <li>Wireless printer transmitter*</li> <li>DICOM printer support <ul style="list-style-type: none"> <li>Multi-format: 1x1, 1x2, 2x1, 2x2, 2x3, 3x3, 3x4, 4x4, 4x5, 5x4</li> <li>Multi-copy capability</li> </ul> </li> <li>Built in storage shelf on C-arm</li> </ul>
Security	
<b>User Identity Management</b>	<ul style="list-style-type: none"> <li>Configurable advanced password rules set by administrator</li> <li>Multiple role-based user set up: standard, admin, and quality control</li> <li>Emergency Case setup</li> </ul>
<b>Operating System</b>	<ul style="list-style-type: none"> <li>Linux-based operating system (SUSE)</li> </ul>
<b>System Security</b>	<ul style="list-style-type: none"> <li>Solid State Drive (SSD) encryption at rest</li> <li>Audit logs of operating system and application</li> <li>FIPS 140-2 encryption compliance</li> <li>OEC Secure for additional cyber security requirements</li> </ul>

\*Optional.

Availability of select models, configurations, and options varies by country. Please contact your local sales representative.

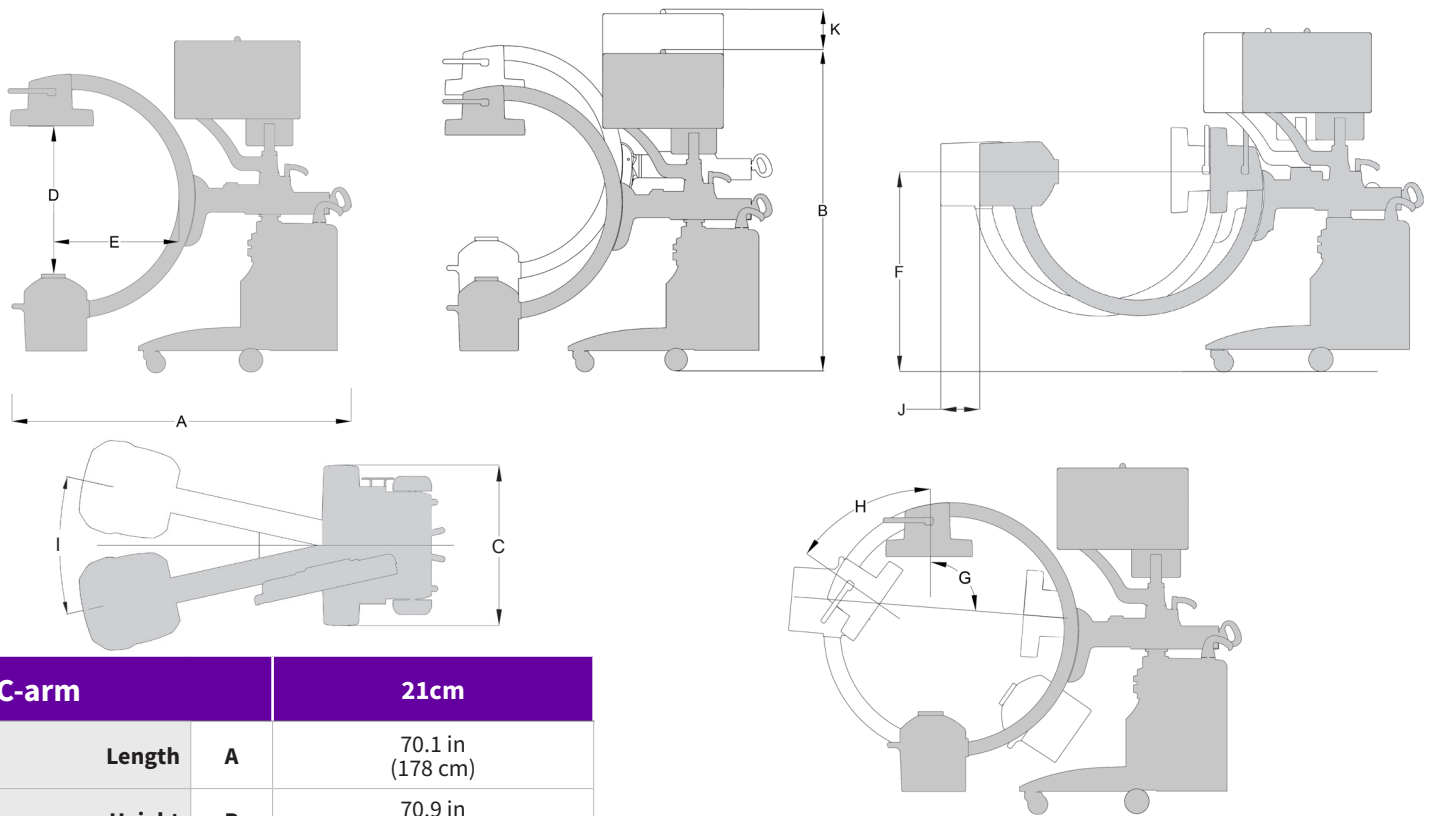
510(k) pending at the US FDA. Not available for sale in the United States.



## Operations

<b>User Interface</b>	<ul style="list-style-type: none"> <li>• Touchscreen control on both image display and OEC Touch control panel simplifies operation</li> <li>• Quick mode function to produce images in emergency cases. Enables basic functions such as Exam Management, Cine, Zoom and Image processing without login password</li> <li>• Room-in-use and X-ray on Indicator interface</li> </ul>
<b>System Setup</b>	<ul style="list-style-type: none"> <li>• Setup tab provides access to system information, default settings, and configuration management including: System Information, Date/Time, Exposure, Cine, Security settings, DICOM Interface, Maintenance, Network Connection, Login &amp; Log Off</li> </ul>
<b>Standby Power</b>	<ul style="list-style-type: none"> <li>• Five-minute power loss protection</li> <li>• Supports quick room to room transport</li> <li>• Patient image data protected when AC power is interrupted or lost</li> <li>• Controlled shutdown</li> </ul>
<b>X-ray Controls</b>	<ul style="list-style-type: none"> <li>• Multifunctional controls offer maximum flexibility to control X-ray generation. Switches may be used to generate X-rays or save images             <ul style="list-style-type: none"> <li>- Footswitch (wireless optional)</li> <li>- Hand switch</li> </ul> </li> <li>• Set default mode pairing as preferred to switch between two to four mode pairs on Footswitch or OEC Touch control panel</li> </ul>
<b>C-arm Key Switch</b>	<ul style="list-style-type: none"> <li>• Three positions:             <ul style="list-style-type: none"> <li>- Enabled X-rays and powered movement</li> <li>- Disabled X-rays and powered movement</li> <li>- Disabled X-rays, enabled powered movement</li> </ul> </li> <li>• Emergency stop button located on mainframe</li> </ul>
<b>Operating Range</b>	<ul style="list-style-type: none"> <li>• Temperature Range 10° to 35° C (50° to 95° F)</li> <li>• Humidity Range 20% to 80% (non-condensing)</li> </ul>
<b>Electrical</b>	<ul style="list-style-type: none"> <li>• Input power (60 Hz or 50 Hz)             <ul style="list-style-type: none"> <li>- 100V/110V/120V @ 20A</li> <li>- 200V @ 12A</li> <li>- 220V/230V/240V @ 10A</li> </ul> </li> </ul>

## C-arm Dimensions

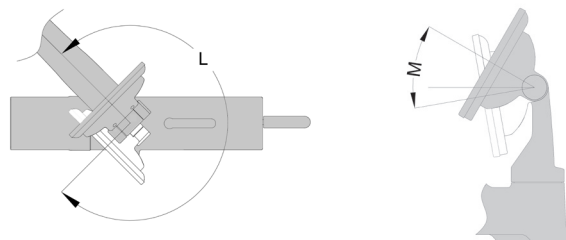


C-arm		21cm
Length	A	70.1 in (178 cm)
Height	B	70.9 in (180 cm)
Width	C	30.7 in (78 cm)
Free space in arc	D	30.7 in (78 cm)
Depth in arc	E	26.0 in (66 cm)
Lateral height	F	40.2 in (102 cm)
Source to Image Distance		39.4 in (100 cm)
Weight		695 lbs (315 kg)

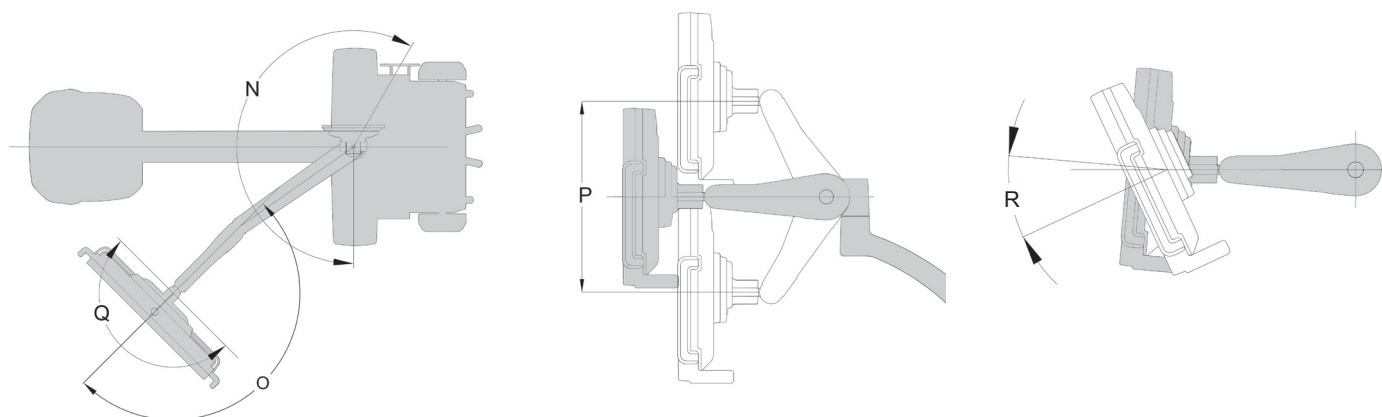
Movement		21cm
Orbital rotation	G/H	150° (95°/55°)
Lateral rotation		410° (205°/205°)
Wig/Wag	I	25° (+12.5°/-12.5°)
Horizontal travel	J	7.9 in (20 cm)
Vertical travel	K	17.5 in (45 cm)

## OEC Touch control panel – Ranges of Motion

Movement		
Swivel	L	270° (+135° /-135°)
Tilt	M	40° (+30° /-10°)



## Image Display Arm



### Movement

Swivel at mainframe	N	210° (+90°/-120°)
Swivel at center of arm	O	180° (+170°/-10°)
Image display vertical travel	P	40 cm (15.8 in) 20 cm (7.9 in) up/down
Image display swivel	Q	180° (+90°/-90°)
Image display tilt	R	30° (+5°/-25°)

### Regulatory Compliance

- IEC60601-1 ED3 with collateral and particular standards
- IEC 60601-1-2 2014/AMD1:2020
- GB9706.1, GB9706.103, GB9706.228, GB9706.254, GB9706.243, GB7247.1
- 21 CFR Subchapter J part 1020.30-32
- 21 CFR Subchapter J part 1040.10-11
- IEC 61910-1: 2014 Radiation dose structured reports

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