

Detector Sizes and Applications:

20 x 22 cm and 31 x 31 cm Flat Panel Detectors

Interventional Vascular , Cardiovascular, Mobile c -arm, Image guided surgical c-arm system, and cone beam CT.

IMAGING PERFORMANCE

Pixel Size:	150 microns
Pixel Depth:	14 bit on board ADC
Binning Modes:	1x1, 2 x 2, 3 x 3
Total Pixels (15x 15):	Active Area: 15 cm x 15cm 1548 x 1548 1548 pixels
Total Pixels (20 x 22):	Active Area: 20 cm x 22 cm 2064 x 2236 Pixels 1032 x 1118 2 x 2 binning
Total Pixels (31 x 31):	Active Area: 31 cm x 31 cm 3096 x 3096 Pixels Center ROI Active Area: 20 cm x 20 cm 2048 x 2048 cm (1 x 1) 1024 x 1024 cm (2 x 2)
X-Ray Conversion Layer	600 microns CsI
Saturation Level:	450 KE-in High Gain 2.2 Me in Low Gain
Pixel Gain:	4.3 uV/e in High Gain 1 uV/e in Low Gain
Readout Noise:	4.7 LSB 3.1 LSB
Dynamic Range:	71 dB 75 dB
Dark Current:	~8000 e/s/pixel
Fill Factor:	>70%
DQE:	>70% at 0.5 lp/mm

MAXIMUM FRAME RATES:

15 x 15 cm Flat Panel Detector

Full Resolution:

Fiber Interface (30 fps)

Dual Cat 5 (30fps), cat 5 (24 fps)

Camera Link (30 fps) 3 x 3 binning (1k x 1k resolution)

20 X 22 CM FLAT PANEL DETECTOR

Full Resolution:

Fiber Interface (30fps)

Dual Cat 5 (30 fps), cat 5 (18 fps)

Camera Link (22.5 fps) 2 x2 binning (1k x1k resolution)

31 X 31 CM FLAT PANEL DETECTOR

Full Resolution:

Fiber Interface (30 fps)

Dual Cat 5 (24 fps), cat 5 (12.5 fps)

Camera Link (15 fps)

2 x 2 binning or Center ROI 1 x 1 binning

PHYSICAL DIMENSIONS:

36.4 cm x 39.4 cm x 4.65cm

DETECTOR INTERFACES:

The Flat Panel Detector Interfaces to OEM supplied Image Acquisition Systems using Cat 5 GigE Vision, Fiber, or Camera Link Interfaces

Fully Integrated with the MX 200e /MX 300e Image Acquisition Systems

Custom Detector Interfaces for OEM customers

Command Processor Compatible Mode

X-RAY GENERATOR INTERFACE

Automatic triggering by Automatic Exposure Sensing

X-Ray trigger output. TTL (0-3V)

Custom X-Ray Generator Interfaces for OEM customers

REGULATORY:

CE Mark according to Medical Device Directive



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DIGITAL RETROFIT FOR GE OEC SERIES C-ARMS

SPECIFICATIONS

- **Interconnection Hardware and Interface For Existing Wiring**
 - Uses existing wiring
 - No additional wiring necessary
- **Maintains Existing Controls and Operational Procedures**
 - No Retraining Required
- **Weight Compensated For Balance**
 - No Adjustments Required
- **Compatible Timings And Format For Use Of Existing Image Processor**
- **Preserves Automatic Generator Control Such As Auto Brightness Control**
- CMOS sensor imaging technology
- Low noise
- High DQE
- High gain mode for Fluoroscopy Exposure Levels
- Low gain mode for Radiographic and Serial Radiographic Imaging
- Automatic Exposure Sensing
 - Used for Automatic Exposure Control
 - External trigger for Image Acquisition
- X-Ray Generator Synchronization (X-ray Exposure Trigger Output)
- Absence of Image Lag, Ghosting and other Artifacts
- Maximum Frame Rate at Full Resolution
- Smart Detector Option to perform Gain, Offset, and Pixel Correction
- Complete Integration with MX 200e/MX 300e Image Acquisition Systems
- GigE, Fiber, or Camera Link Interface

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