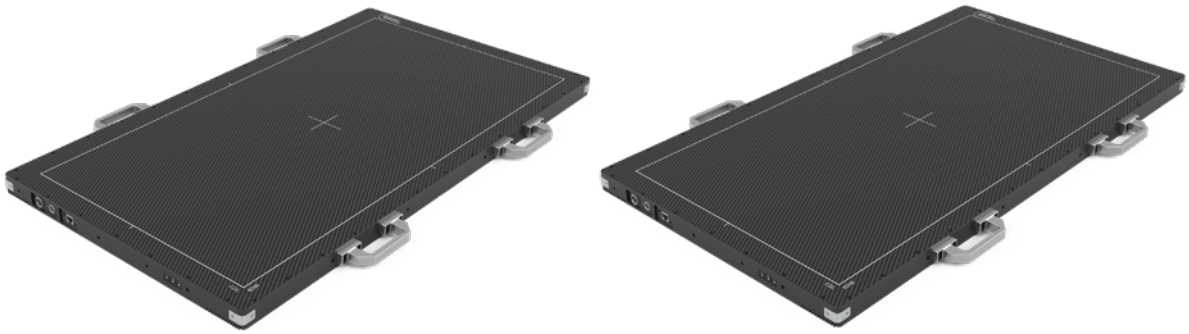

THINK
BIG
Then double it.
X-PANEL XL series
Reimagining medical CBCT

X-PANEL XL series

The largest dynamic single-glass TFT X-ray flat panel detector family



Choose the best option for your needs

Compare size, imaging speed, and performance against conventional 43 × 43 cm medical CBCT solutions.

X-Panel 4386a FPM-CSV-TG
Medical CBCT

Extra-large dynamic imaging for medical CBCT and fluoroscopy.

Field of view
Active area 2x larger

Industry standard

Acquisition time
Over 2x faster

Industry standard

X-Panel 4386a FPM-CSV-TG-S
Radiotherapy CBCT

Extra-large kV CBCT imaging with internal shielding for image-guided radiation therapy (IGRT) environments.

Field of view
Active area 2x larger

Industry standard

Acquisition time
Over 2x faster

Industry standard

Capture more. Scan faster. Reimagine CBCT.

X-Panel 4386a FPM brings Detection Technology's extra-large single-glass thin-film transistor (TFT) platform to medical imaging. With a 430 × 860 mm active area — twice the imaging area of a conventional 43 × 43 cm detector — it enables broader anatomical coverage in a single acquisition and opens new possibilities for large-field-of-view CBCT imaging.

Combining a continuous single-glass a-Si-TFT sensor, direct-deposition CsI scintillator, fast dynamic imaging and high-speed 10G Ethernet connectivity, X-Panel 4386a FPM is designed for medical CBCT applications where coverage, image quality and efficient workflows matter.

Key benefits of X-Panel 4386a FPM

Twice the imaging area
430 × 860 mm active area captures more anatomy in a single acquisition

Larger field of view
Enables reconstructed fields of view up to 50 cm, depending on system geometry

High-speed dynamic imaging
Fast readout with flexible binning and ROI modes for different imaging protocols

Seamless single-glass architecture
No seams or gaps across the imaging area, helping avoid seam-related artifacts

Fewer acquisitions
Broader anatomical coverage can reduce the need for multiple acquisitions

Reduced image artifacts
More complete coverage can reduce truncation artifacts, while faster acquisition can help limit motion-related degradation

Designed for medical integration
10G Ethernet, Windows and Linux SDK support, and built-in anti-scatter grid (ASG) mounting

Two application-focused configurations
Optimized product variants for medical CBCT and IGRT

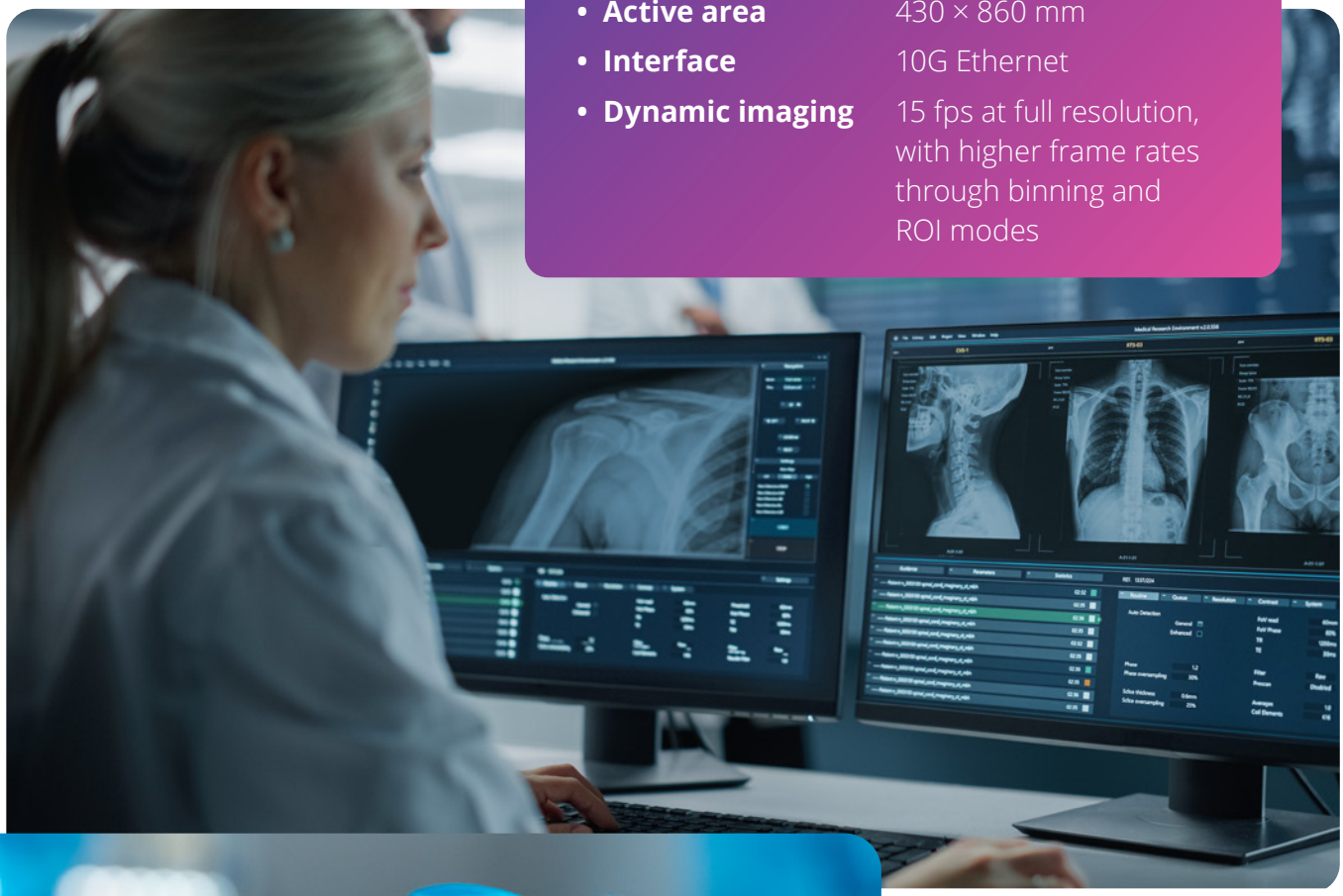
Applications

- Whole-body and long-axis CBCT
- Intraoperative and mobile CBCT
- Image-guided radiotherapy (IGRT)
- Patient positioning and adaptive radiotherapy workflows
- Weight-bearing extremity imaging
- Medical fluoroscopy and dynamic X-ray imaging





- **Technology** Single-glass a-Si-TFT
- **Scintillator** Direct-deposition CsI
- **Pixel pitch** 140 µm
- **Pixel matrix** 3072 × 6144
- **Active area** 430 × 860 mm
- **Interface** 10G Ethernet
- **Dynamic imaging** 15 fps at full resolution, with higher frame rates through binning and ROI modes



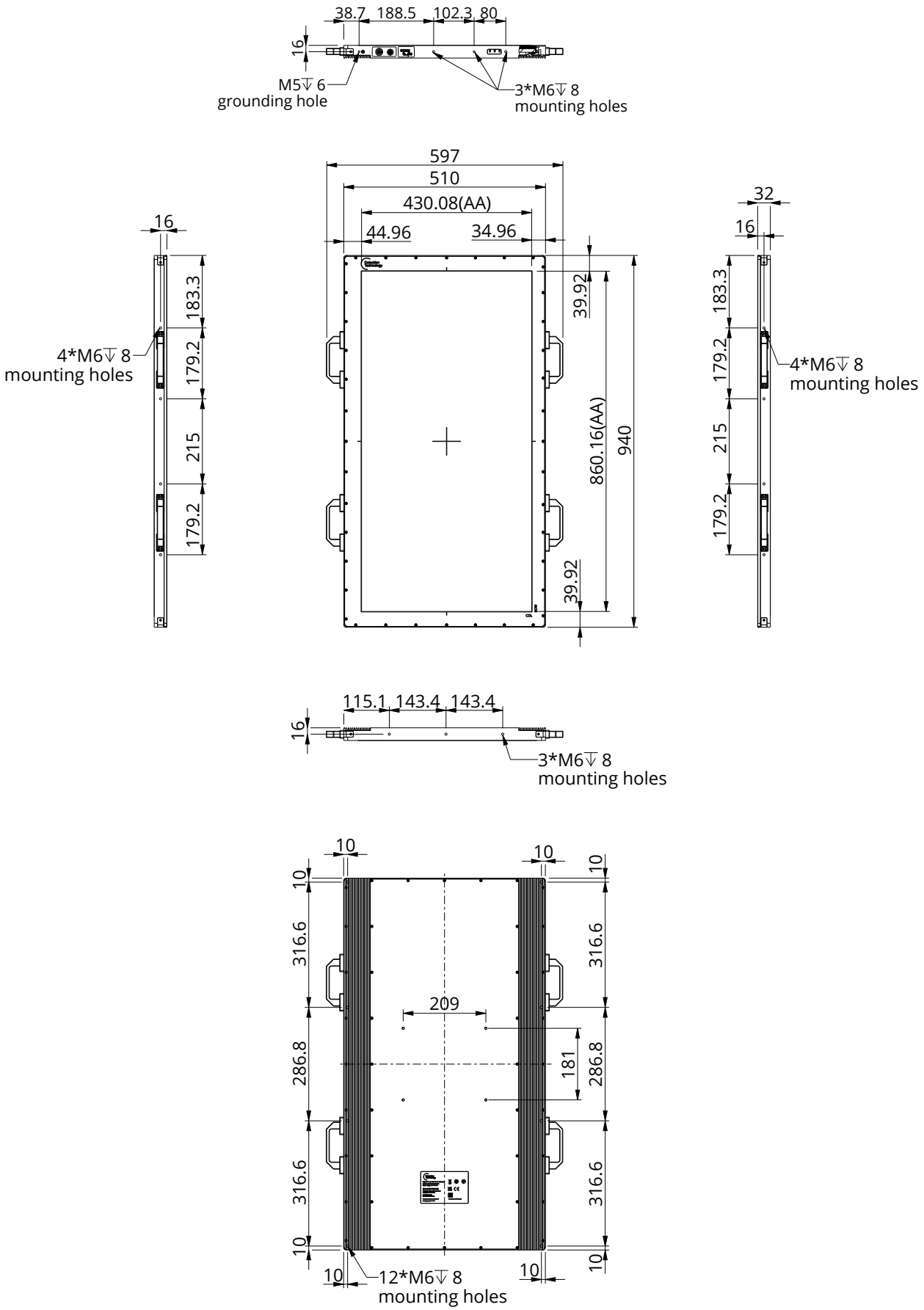




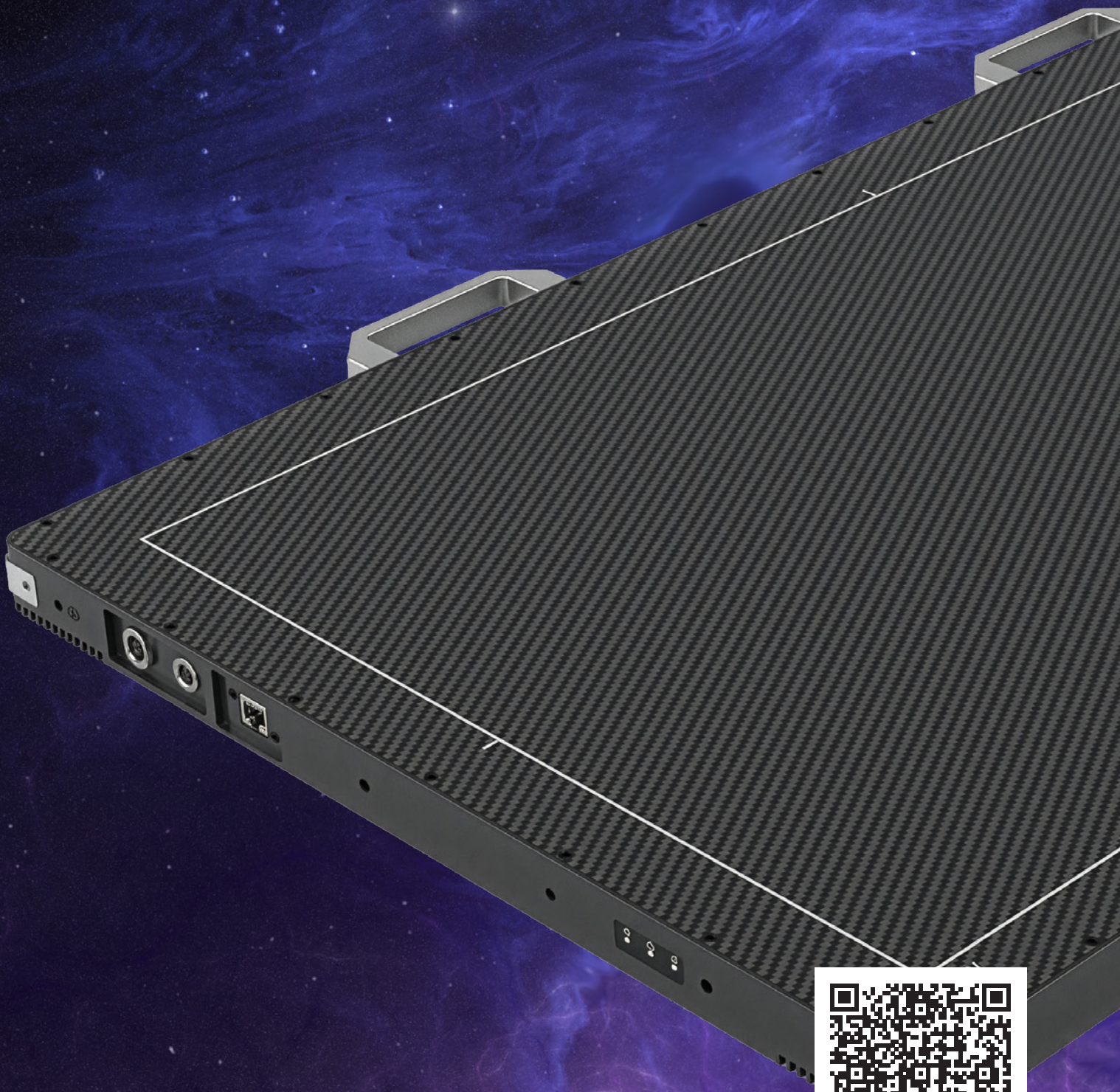
Technical specifications

Product	X-Panel 4386a FPM-CSV-TG	X-Panel 4386a FPM-CSV-TG-S
Technology		
Sensor	Single-glass a-Si-TFT panel	Single-glass a-Si-TFT panel
Scintillator	CsI	CsI
Active area	430 × 860 mm	430 × 860 mm
Pixel matrix	3072 × 6144	3072 × 6144
Pixel pitch	140 µm	140 µm
ADC	16 bits	16 bits
Interface		
Data interface	10G Ethernet	10G Ethernet
Frame rate	15 fps (1×1) / 30 fps (2×2) / 45 fps (3×3) / 60 fps (4×4) Higher frame rates with ROI modes	15 fps (1×1) / 30 fps (2×2) / 45 fps (3×3) / 60 fps (4×4) Higher frame rates with ROI modes
SDK support	Windows / Linux (Ubuntu)	Windows / Linux (Ubuntu)
Mechanics		
Dimensions (H x W x D)	940 x 510 x 32 mm	940 × 510 × 32 mm
Weight	27 kg	52 kg
Environmental		
Temperature	10–40°C operating –20–50°C storage	10–40°C operating –20–50°C storage
Humidity	30–75% RH (operating/non-condensing)	30–75% RH (operating/non-condensing)
IP Rating	IPX0	IPX0
Power		
Consumption	42 W	42 W
Application		
Primary applications	Medical CBCT, fluoroscopy	kV CBCT imaging in IGRT
Internal radiation shielding		Included for radiotherapy environment
Regulatory		
Medical standards	Designed to comply with IEC 60601-1 and IEC 60601-1-2	Designed to comply with IEC 60601-1 and IEC 60601-1-2

X-Panel 4386a FPM outline



Detection Technology



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Watch video