



X-ray Grids



Radiography System



Detector



Software



Computed Radiography



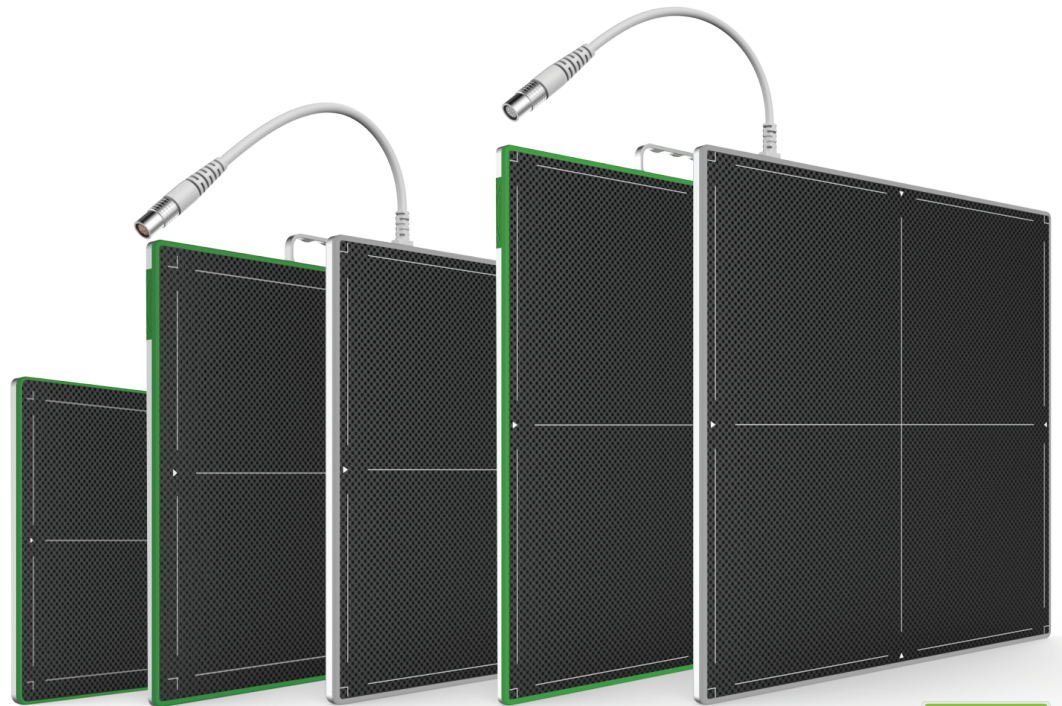
X-ray Accessories



Diagnostics



RF Treatment



# Clear Vision REF series

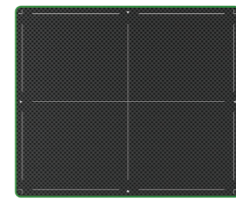
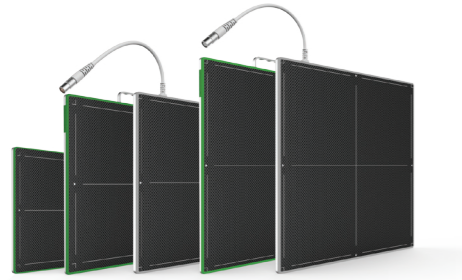
Clear Vision REF series X-ray flat panel detectors incorporate the proven technology of amorphous silicon. The amorphous silicon photodiode array and TFT underneath convert invisible X-ray photons into visible photons, and then into electric charges.

The electron signals are measured and amplified in the data line, and then converted to digital signals by the Analog/Digital converter. Finally, the digital signals are transmitted to a PC for processing to form an image. High DQE, high spatial resolution, extraordinary dynamic range and ultra-low noise are hallmarks of our Clear Vision REF series. Each Clear Vision REF detector is submitted for FDA and CE approval.

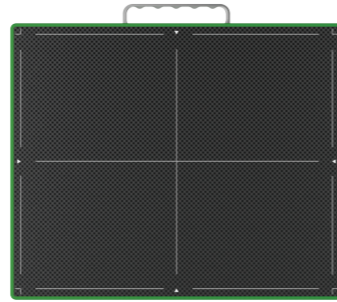
## Also available

- 750C (10x12", AED, Tethered Cassette)
- 1500C (14x17", AED, Tethered Cassette with Handle)
- 1500P (14x17", AED, Wireless with Cover and Handle)

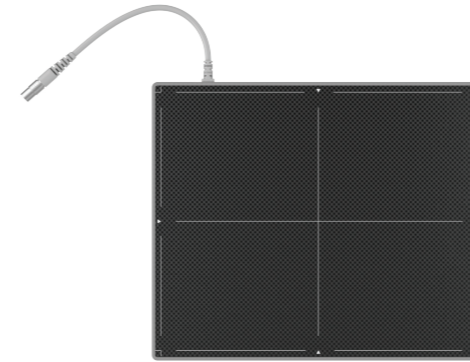
# Clear Vision REF series



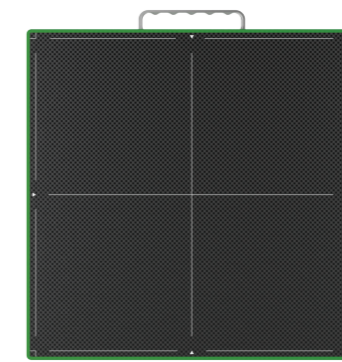
750CW



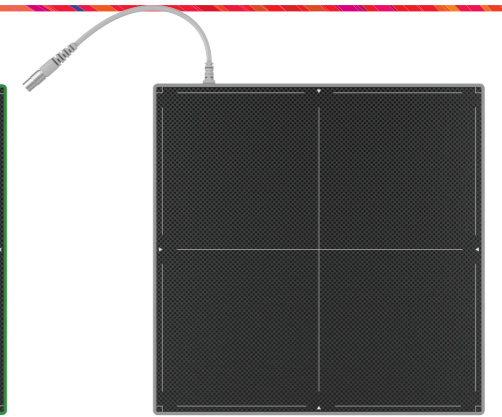
1500CW



1500L



1800CW



1800L

## Specifications

Sensor	750CW	1500CW	1500L	1800CW	1800L
Scintillator	Direct Deposit CsI:TI	Direct Deposit CsI:TI	Direct Deposit CsI:TI	Direct Deposit CsI:TI	Direct Deposit CsI:TI
Active Area	307.2 x 244.32 mm	433.7 x 354.8mm	433.7 x 354.8mm	433.5 x 433.5 mm	434 x 434 mm
Pixel Array	2560 x 2048	2816 x 2304	2816 x 2304	2816 x 2304	2816 x 2816
Pixel pitch	120 μm	154 μm	154 μm	154 μm	154 μm
Image Quality					
Limiting Resolution	4.16 lp/mm	3.25 lp/mm	3.25 lp/mm	3.25 lp/mm	3.25 lp/mm
MTF	70% ... .. (@ 1 lp/mm) 40% ... .. (@ 2 lp/mm) 25% ... .. (@ 3 lp/mm) 15% ... .. (@ 4 lp/mm)	70% ... .. (@ 1 lp/mm) 40% ... .. (@ 2 lp/mm) 22% ... .. (@ 3 lp/mm)	70% ... .. (@ 1 lp/mm) 40% ... .. (@ 2 lp/mm) 22% ... .. (@ 3 lp/mm)	70% ... .. (@ 1 lp/mm) 40% ... .. (@ 2 lp/mm) 22% ... .. (@ 3 lp/mm)	70% ... .. (@ 1 lp/mm) 40% ... .. (@ 2 lp/mm) 22% ... .. (@ 3 lp/mm)
DQE	(RQA5, 14μGy) ~ 70% ... .. (@ 0 lp/mm) ~ 40% ... .. (@ 3 lp/mm)	(RQA5,27μGy) ~ 65% ... .. (@ 0 lp/mm) ~ 20% ... .. (@ 3 lp/mm)	(RQA5,27μGy) ~ 65% ... .. (@ 0 lp/mm) ~ 20% ... .. (@ 3 lp/mm)	(RQA5) ~ 65% ... .. (@ 0 lp/mm) ~ 33% ... .. (@ 3 lp/mm)	(RQA5,27μGy) ~ 65% ... .. (@ 0 lp/mm) ~ 20% ... .. (@ 3 lp/mm)
A/D Conversion	16 bits	16 bits	16 bits	16 bits	16 bits
Communication					
Communication interface	Gigabit Ethernet 2.4G/5GHz, 300 Mbps	Gigabit Ethernet 2.4G/5GHz, 300 Mbps	Gigabit Ethernet 2.4G/5GHz, 300 Mbps	Gigabit Ethernet 2.4G/5GHz, 300 Mbps	Gigabit Ethernet
Image Acquisition Time	2-3 sec	2-3 sec (wired) 4-5 sec (wireless)	2-3 sec	2-3 sec (wired) 4-5 sec (wireless)	2-3 sec
Exposure control	F <sup>2</sup> AED Manual Sync	F <sup>2</sup> AED Manual Sync	F <sup>2</sup> AED Manual Sync External Sync	F <sup>2</sup> AED Manual Sync	F <sup>2</sup> AED Manual Sync External Sync
Mechanical					
Dimension	333 x 268 x 15 mm	460 x 384 x 15 mm	460 x 384 x 15 mm	460 x 460 x 15 mm	460 x 460 x 15 mm
Weight	2.3 kg	3.7 kg	3.4 kg	4 kg	3.4 kg
Power					
Maximum Power (standby/ operating)	< 8W / 17W	< 8W / 20W	< 8W / 20W	< 8W / 20W	< 8W / 20W
Power Supply	100-250V AC	100-250V AC	100-250V AC	100-250V AC	100-250V AC
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 Hz	50 / 60 Hz
Battery	3260 mAh, 14.8V	3260 mAh, 14.8V		3260 mAh, 14.8V	

Detector



Software



## ExamVue DR Software



Optimized UI design for Touch screen

Multi-task Patient

Imaging and Annotation Tools  
(Window level, Zoom, Pan, Crop, Invert, Rotation, Angle, Label, Text)

Powerful User Features  
(Image stitching, Image import / export, Image comparison, Multi view, Image expansion, Full screen, Auto collimation, Reject/Accept)

Smart Window Level

DICOM3.0 Compatibility

Post Image processing mode for each body part

Changeable Skin color (Green Tea, Strawberry, Mint, Chocolate, Banana, Vanilla)

## ExamVue PACS Software



Worklist Tools



Image Delete



Edit Patient



File In/Out



DICOM Send



Merge



Compare



Comment



Report

Flexible Resolution

Support DICOM Q/R, DICOMDIR

Support Multiple Viewer

Changeable Skin Color (Blue, Pink, Black)

Support Dual Monitor Function (Worklist, Viewer)

DICOM 3.0 Compatibility

Imaging and Annotation Tools

### Image Viewer

DICOM Open, Image Save, User Layout, DICOM Print, DICOM Send, DICOM Header Information, Zoom / ROI Zoom, Fit Image, Panning, ROI Window Leveling, Invert, Rotation, Flip, Annotation Show & Hide

### Image Annotation

Text, User TEXT, R/L Mark, Length, Angle, Cobb Angle, Rectangle, Ellipse, Polygon, Free hand, Line profile, Histogram, \*Chiropractic Tool, \*Norberg Angle, VHS

\*Chiropractic Tool for Medical

\*Norberg Angle, VHS for Veterinary

JPI Healthcare Co., Ltd.

608-ho, 28, Digital-ro 33-gil, Guro-gu, 08377 Seoul, Korea

82-2-2108-2580 82-2-2108-1180

www.jpi-korea.com

