

SERASMART



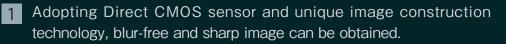
Next-generation premium high-definition diagnostic X-ray system

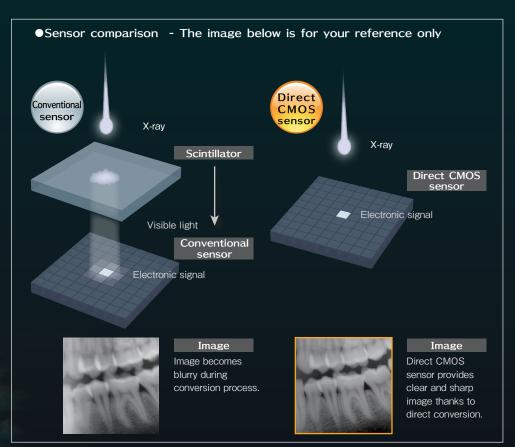
X-era Smart - Finally debut!

X•ERASMART

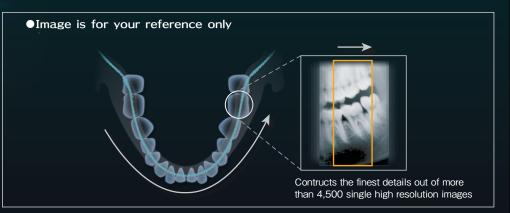


1 Super high definition clinical image quality for accurate diagnosis





2 Constructs the finest details of more than 4,500 single high resolution images to provide sharp and high-definition image. (16 bit 65,536 grading)





Direct CMOS sensor

Semiconductor that is used for photon counting directly converts X-ray to electronic signal and create a blur-free image.

Conventional sensor

Conventional sensor converts X-ray to visible light by scintillator, and CCD element transforms the light into electronic signal. In that process, scintillator cause the electrons to diffuse, resulting in the blury image.

features

XERA The name X-ERA stands for X as mathematical symbol for the unknown, also for neXt generation, for eXceed, and for eXtend. And ERA for the beginning of new period.

2 Multi Focal Layer Technology enables optimal focusing

1 Unique panoramic image construction technology (Image Creator) automatically selects the most optimal focal layer position as exposure completes. Re-focusing on any spots is also possible to reconstruct the clear image.





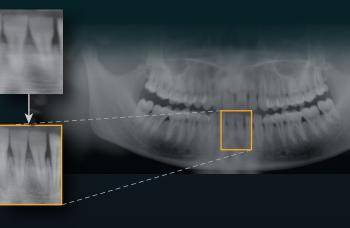
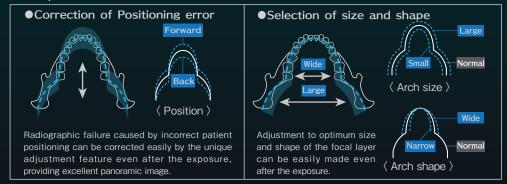




Image Creator Focal layer position and shape can be adjusted to optimally focus the blurry imaged spot.

2 Active tomography allows reconstruction of the image corresponding to anatomical shape and size of each patient even after the exposure.



3Patient Dose reduced by 50%

Direct CMOS sensor enables the high quality image while reducing the patient dose by 50%. (Compared to other YOSHIDA equipment) By minimizing the exposure time, patient dose is also minimized. It also reduces risk of the retake due to the radiographic failure caused by patient's movement.



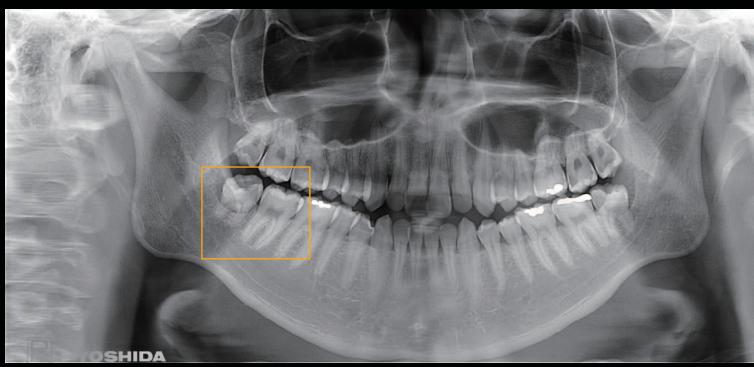


Child mode is featured to assure the safety of child patient.

Next generation premium

Premium high-definition Standard Panoramic

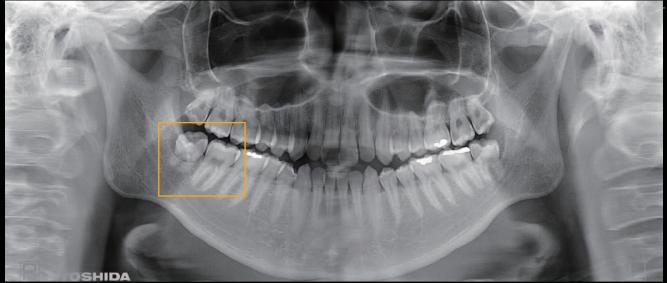




Adopting high-definition Direct CMOS sensor, unique panoramic construction algrithm actualizes the direct conversion from X-ray to electronic signal, creating super high-definition image with lower noise.

Various Exposure time can be selected to suit for each patient and clinical need High speed exposure mode



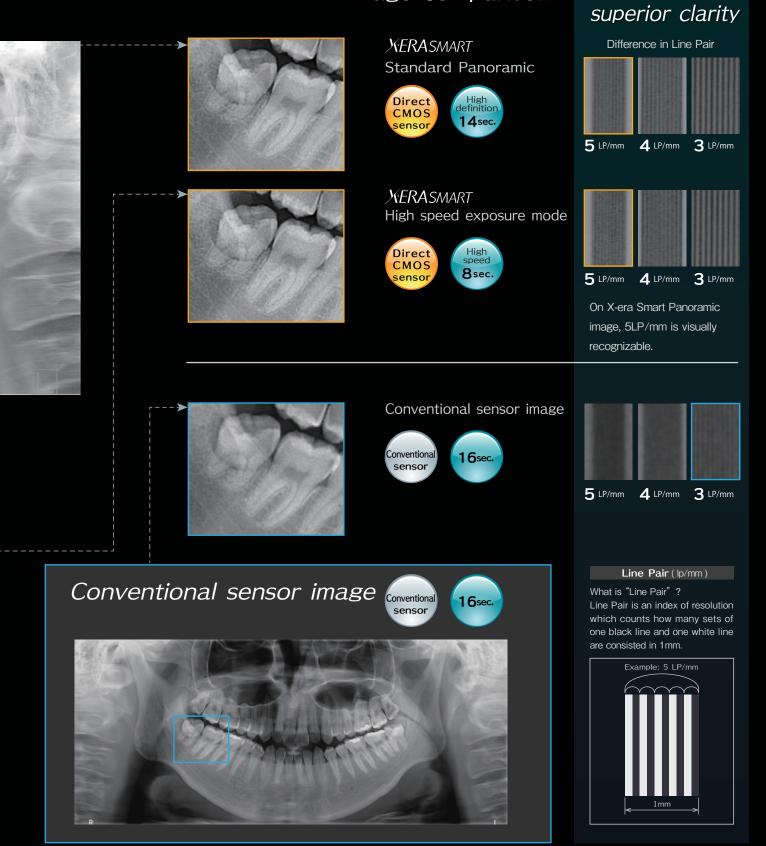


Even 8 second exposure provides high image quality optimal for accurate clinical diagnosis.

high-definition

Image comparison

Evidence of



Exposure Modes

For smooth operation
Simple Exposure Mode



 \langle Standard Panoramic \rangle



 \langle TMJ 2 views \rangle



 \langle Child panoramic \rangle

For various diagnosis needs Cephalometric Exposure Mode



 \langle PA view \rangle



 \langle Lateral view \rangle



< Carpus view >

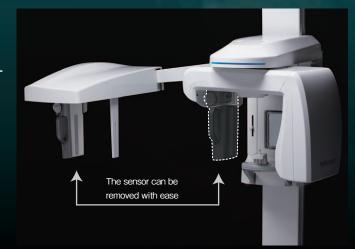
Easy Upgrade to cephalometric

With the same simple operability and compact body, it can be easily upgraded to cephalometric as needed. Simply change the sensor position from panoramic to

cephalometric, and cephalometric exposure can be performed.

*Sensor corresponding to cephalometric is needed.





Pursued usability

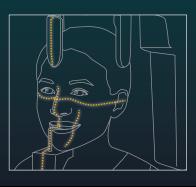
3-point head support

Patient's head is supported at 3 positions to keep it in place during exposure.



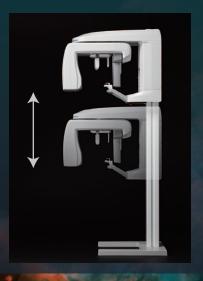
Simple positioning

3 directional beam enables optimal positioning.



Elevation range of 800mm

The chinrest height is adjustable in 800mm range to adapt to all types of patients, from a child to adult, and patient on the wheelchair.



Space efficiency and compact design

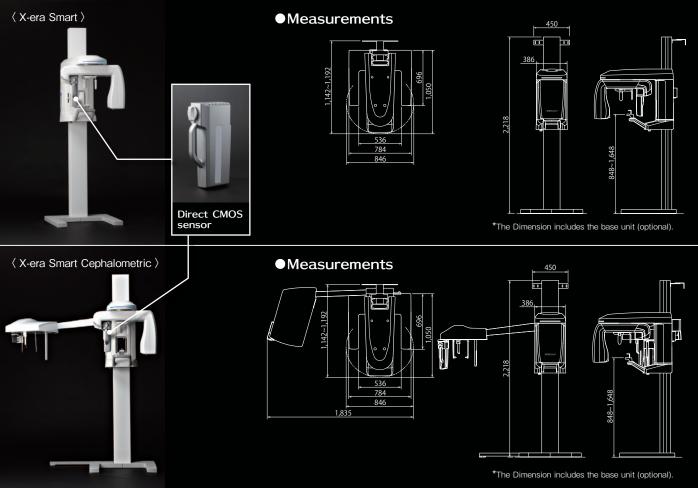
Assisting position can be either right or left side depending on the space availability and room arrangement.

It enables the efficient use of the limited space of X-ray room.



X:ERASMART

X-era series model corresponding to digital. Premium high definition.



Technical data

X-era Smart							
Sensor	Direct CMOS sensor	Pixel	100μ m isotropic/pixel		Type of X-ray generation MIR-100		
Grading	16bit (65,536 grading)		1,350×3,150 pixel (Panoramic)		Tube voltage	58~82 kV	
Exposure time 8, 14, 16 sec. (Panoramic)			2,266×2,039 pixel (Cephalometric PA/carpus)		Tube current	2.0~10 mA	
	4 sec.× 2 (TMJ)		2,266×2,548 pixel (Cephalometric LA)		Power supply	AC100V 50/60 Hz	
	8.0, 10.0 sec. (Cephalometric/carpus)	Weight	125~160 Kg (Panoramic type)		Input	1.5 kVA	
Nominal	1.2 ~ 1.29 (Panoramic, TMJ)		165~200 kg (Cephalometric type)		Total filtration	2.5 mm Aluminum	
Magnificatio	on 1.1 (Cephalometric/carpus)						

The product specifications vary depending on the area of purchace. Please contact our international buisiness division for more information.

CONTACT

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MD 554641/ISO 13485 : 2003



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