



**ImageWorks**

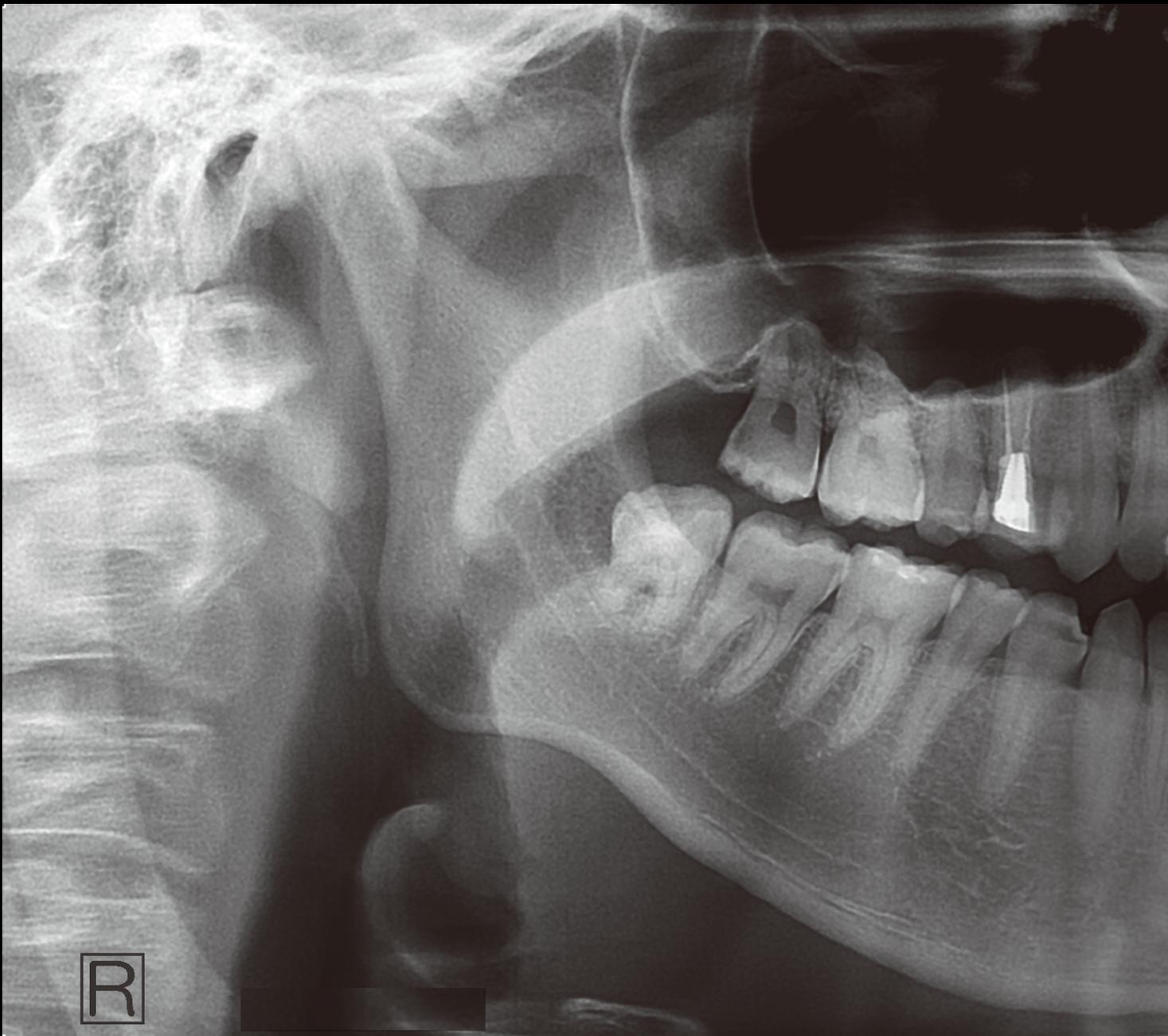


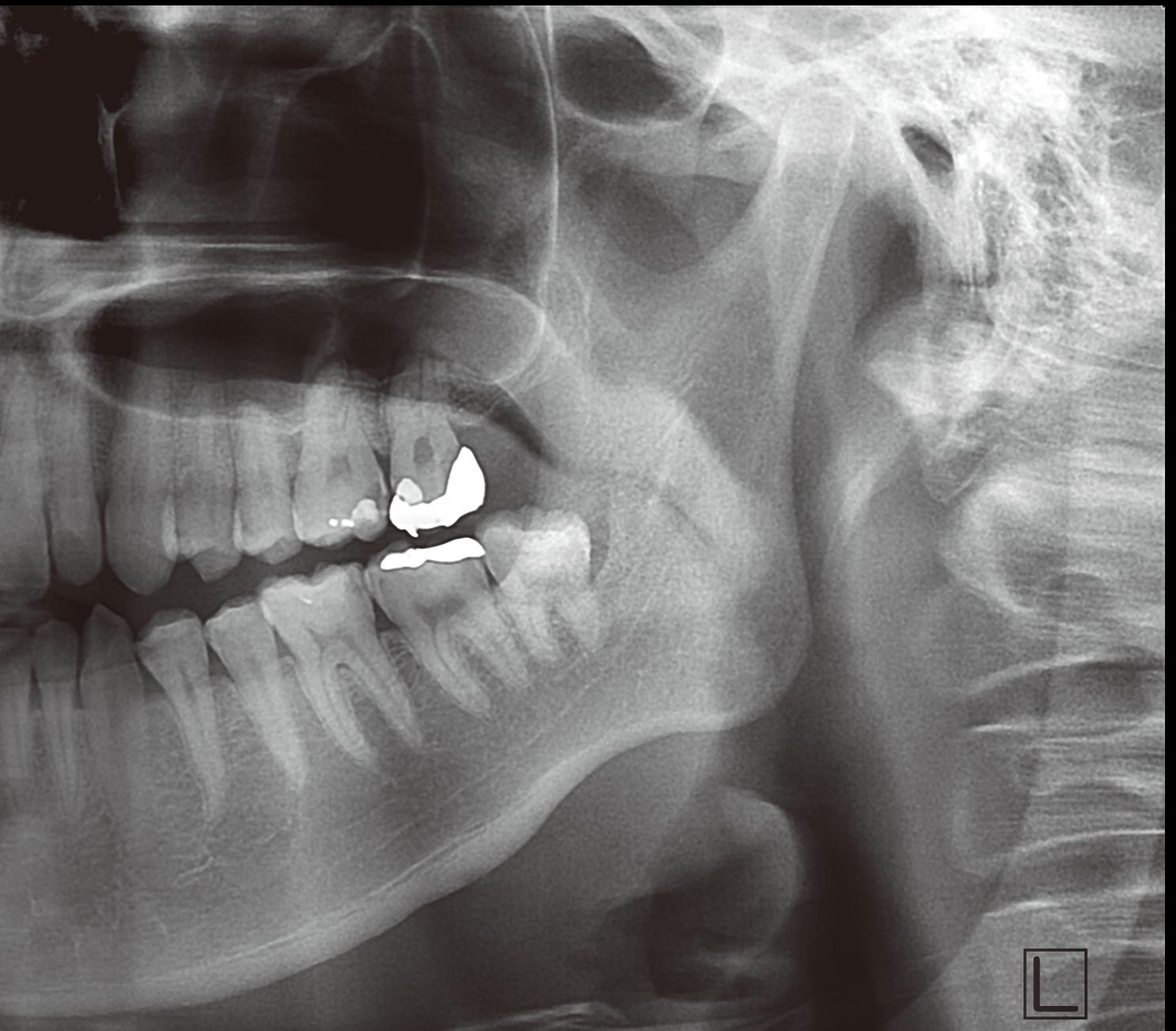
*Panoura*

**XERA**

*Panoramic and  
CBCT Imaging  
System*

*Transform Your  
Practice with 3D*





# 2D

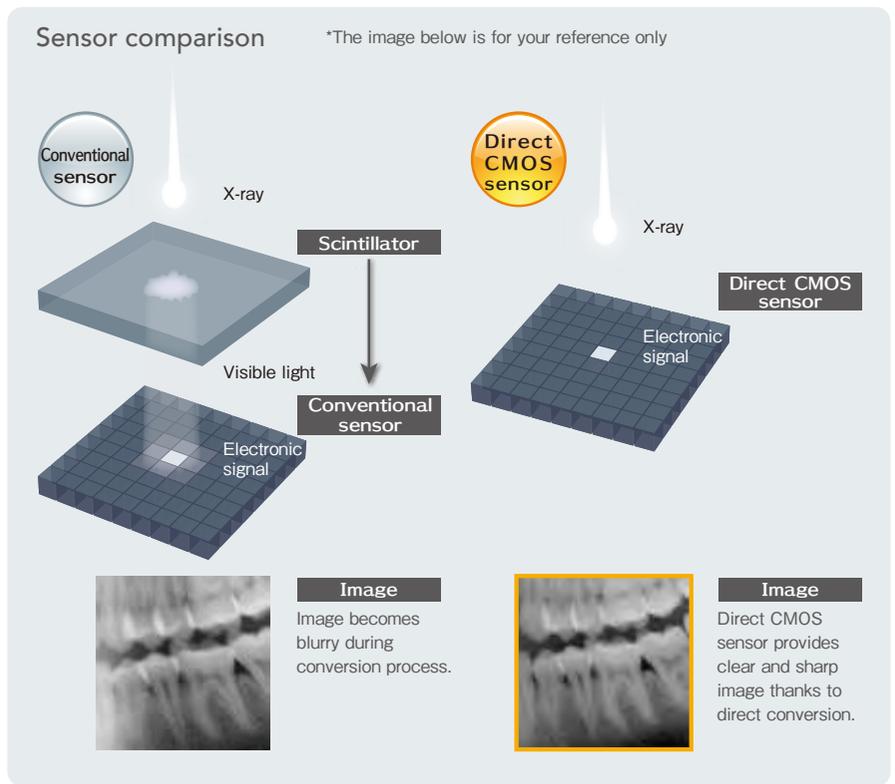
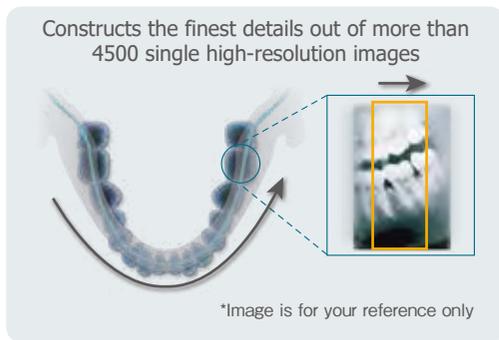
*High image quality with confidence*

The X-era produces an uncompromised high-quality image providing fine detail. It also enhances workflow by minimizing the time spent on image the image-capture process.

# Super high-definition clinical image quality for accurate diagnosis

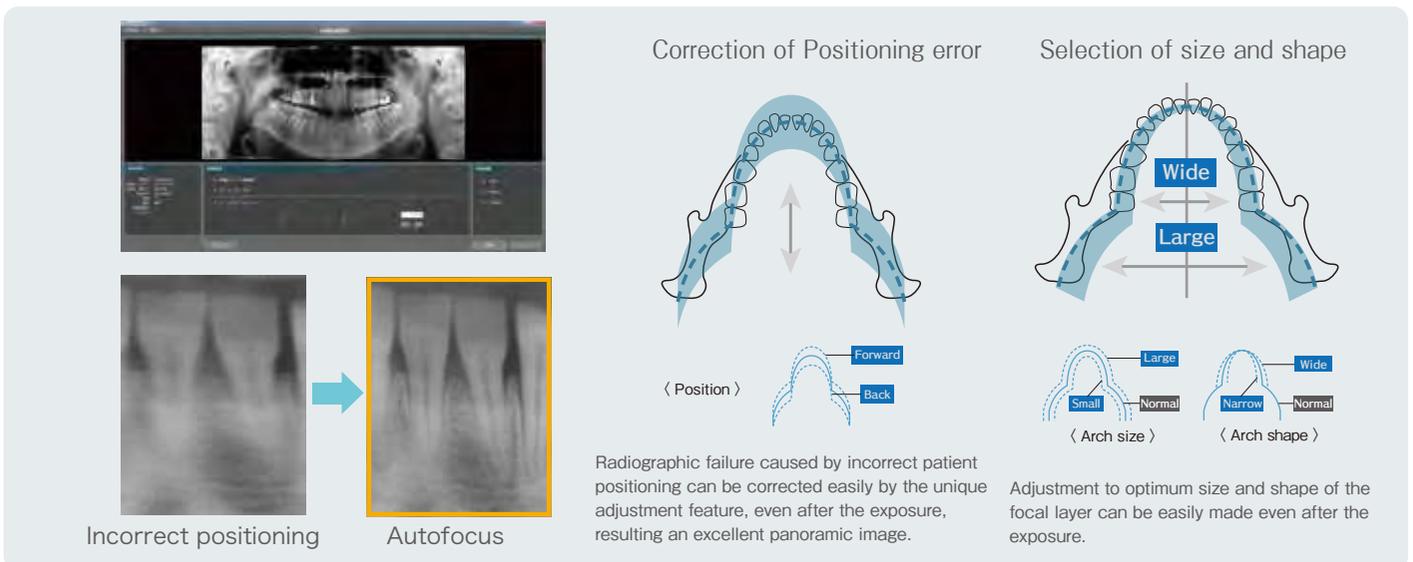
A Direct CMOS sensor and one-of-a-kind image construction technology creates blur-free and sharp images.

The sensor constructs the finest details of more than 4,500 single high resolution snapshots to provide extra crisp high-definition images. (16 bit 65,536 gray shades)



## Multi Focal Layer Technology enables optimal focus

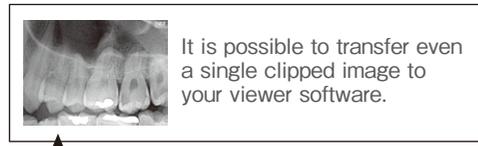
Even after taking pictures, you can reconstruct images matching the patient's dentition size and shape, thus reducing the risk of re-take.



## Selectable Cephalometric sensor type



# Multi layer dental clipping

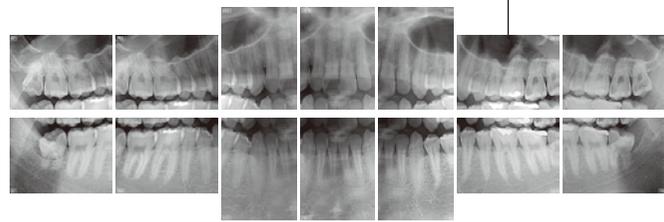


It is possible to transfer even a single clipped image to your viewer software.

The 18-image method can also be used for clipping.



10-image method



14-image method

## 2D exposure mode

Cephalometric exposure mode



< Lateral view >

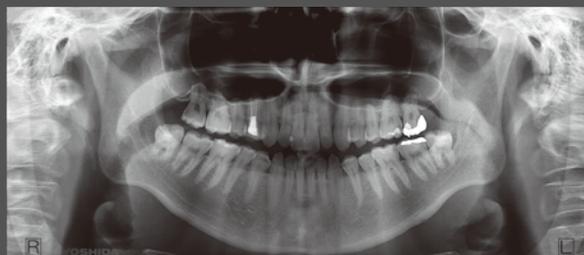


< PA view >



< Carpus view >

Panoramic exposure mode



< Standard panoramic >



< Child panoramic >



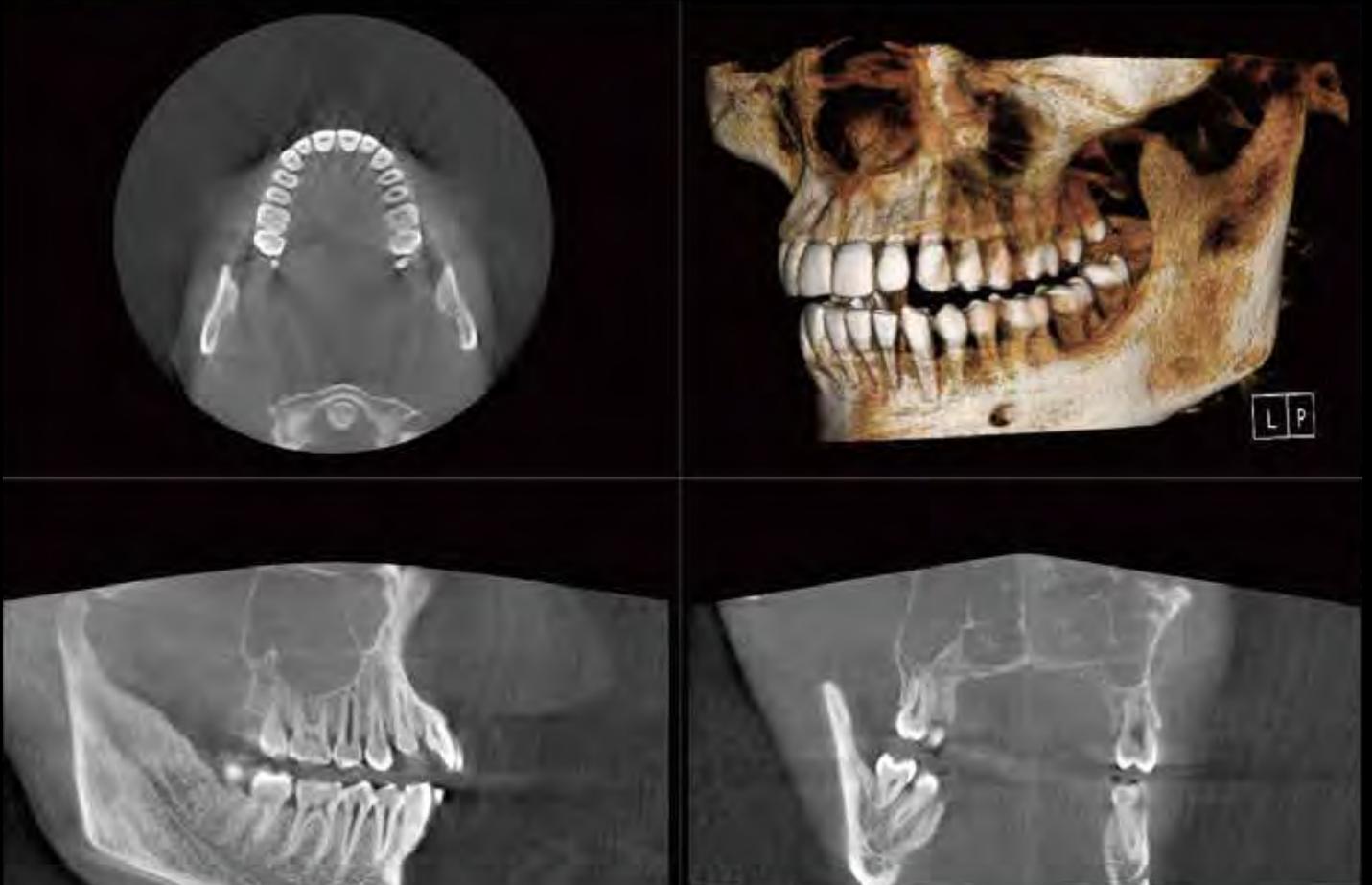
< TMJ 4 views > < TMJ 2 views >

\*Pictures above are of TMJ4 views.



< Bitewing >

# 3D

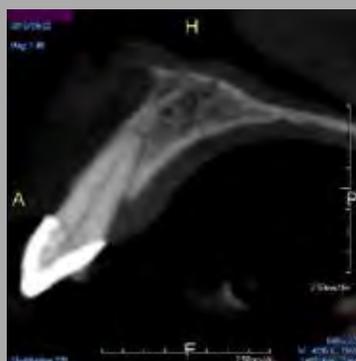


## *3D that benefits all doctors*

Capturing high resolution 3D volumes have never been easier on the doctor and the patient. With industry-leading image quality in combination with intuitive software, fast scanning and universal integration, the X-era makes 3D imaging accessible for every dental professional.

## High definition 2D / 3D image requires focus

By incorporating one of the smallest focal sizes in the industry of 0.2 mm, the X-era creates ultra high-definition images with less blurring.



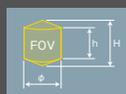
0.5mm X-ray tube



0.2mm X-ray tube

Comparison between two different focal spots scanned under the same conditions

## Flexible for all dental clinical needs



FOV Dimensions  
 $\phi \times H$  (h) mm

XERA

Endodontic,  
Impacted tooth  
extraction  
 $\phi 44\text{mm} \times 64\text{mm}$  (61mm)



Maxillary sinus,  
Implant  
 $\phi 80\text{mm} \times 79\text{mm}$  (72mm)



Full mouth implant  
 $\phi 110\text{mm} \times 79\text{mm}$  (69mm)



TMJ full mouth,  
Respiratory tract  
 $\phi 156\text{mm} \times 79\text{mm}$  (65mm)



# Clinical Example

Scan modes that support every clinical need

## Endo

Three-dimensional diagnosis is made possible so a case can be examined from all directions.



Buccolingual view



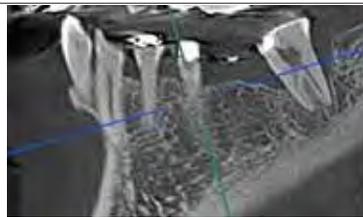
Mesiodistal view



3D volume view

## Perio

Three-dimensional examination enables accurate diagnosis for areas that are hard to confirm in 2D. In addition, bone absorption can be better explained to the patient in three dimensions leading to greater case acceptance.



## Extraction (Horizontally Impacted Wisdom Tooth)

The relative position between the mandibular canal and the root apex can now easily be visualized in three dimensions. Creating the surgical plan is now dramatically more efficient and more effective.



# Design philosophy

A design that not only creates a clinically invaluable image, but also makes the capture process easy on the doctor and the patient.

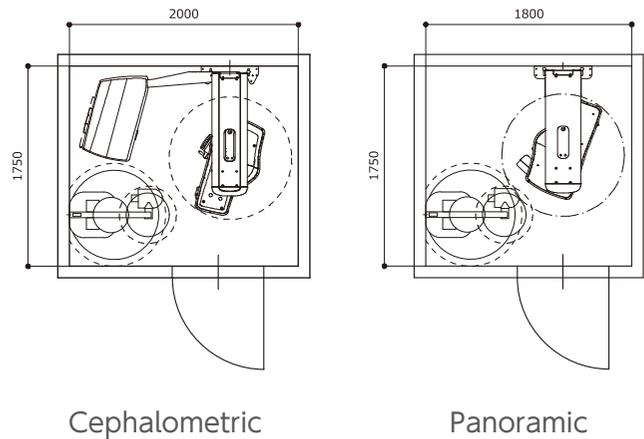
## Face-to-face positioning

The angle of the arm is designed to be 55 degrees, which is optimal for patient's entry and positioning. Patients in wheelchairs can also be scanned.

Switching between Panoramic and 3D exposure is also very easy.



Compact design to fit in small X-ray room.



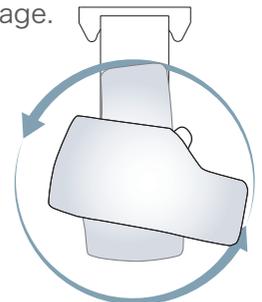
## 360° CT scan in just 12 seconds—with our largest FOV



Even with X-era's largest FOV size ( $\Phi$  156 mm  $\times$  79 mm), a full 360-degree 3D scan takes as little as 12 seconds. High-speed scans reduce the risk of patient movement, thus minimizing motion artifacts in the image.

12  
sec.

360°  
scan



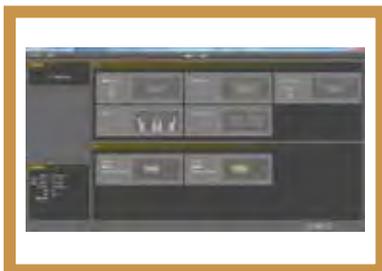
# VIEWER



## ONESYSTEM Imaging

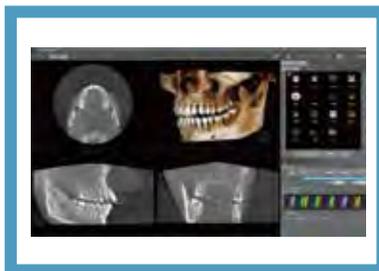
Viewer software offers intuitive operation for your daily practice, from scanning to the patient consultation.

### Scan



Quick and intuitive operation to select scan mode

### View



For viewing and manipulating images

### Edit



Stress-free operation

## 2DViewer

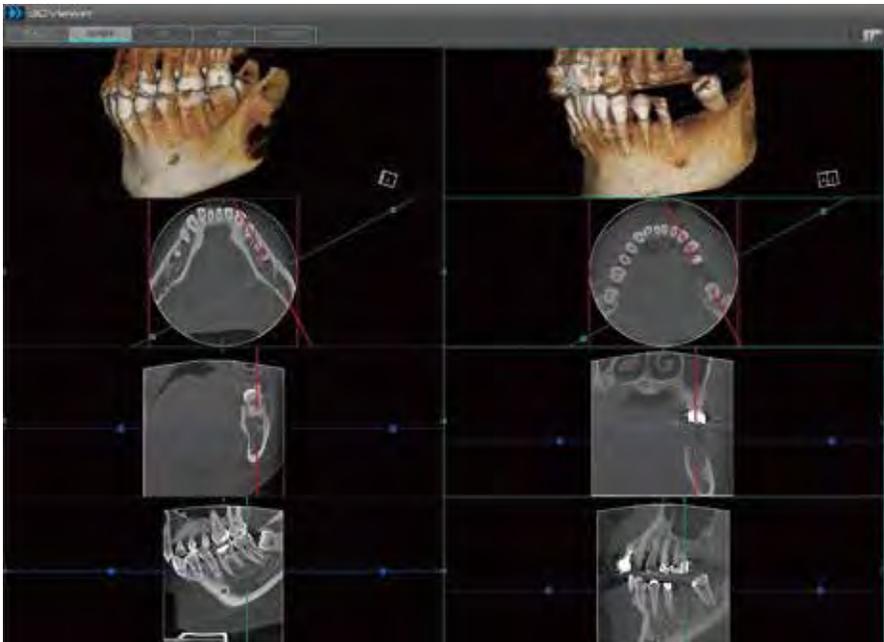


Viewing of panoramic, intraoral and camera images are possible in one screen or images can easily be integrated into most major dental imaging platforms.

## 3DViewer



With the click of a mouse, easily retrieve 3D volumes or plans created with those volumes.



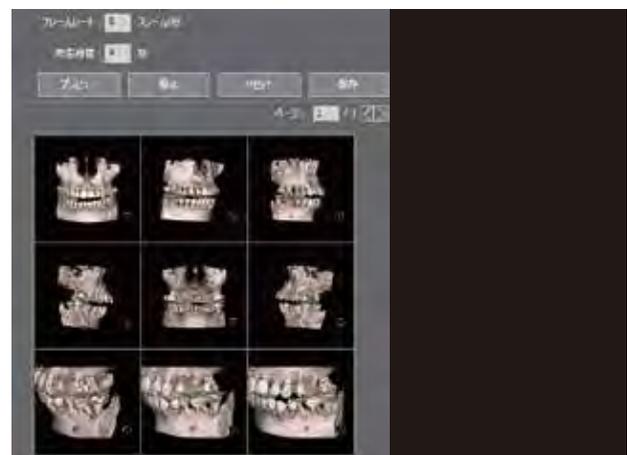
### Multiview

Comparing between pre/post-operative condition is possible by displaying all images on the screen.



### 3D cross-section

3D cross-sections allow a view of any desired sliced plane. With a simple, yet powerful interface, any location can quickly be viewed from any axis to gain information that cannot be generated from a 2D modality.



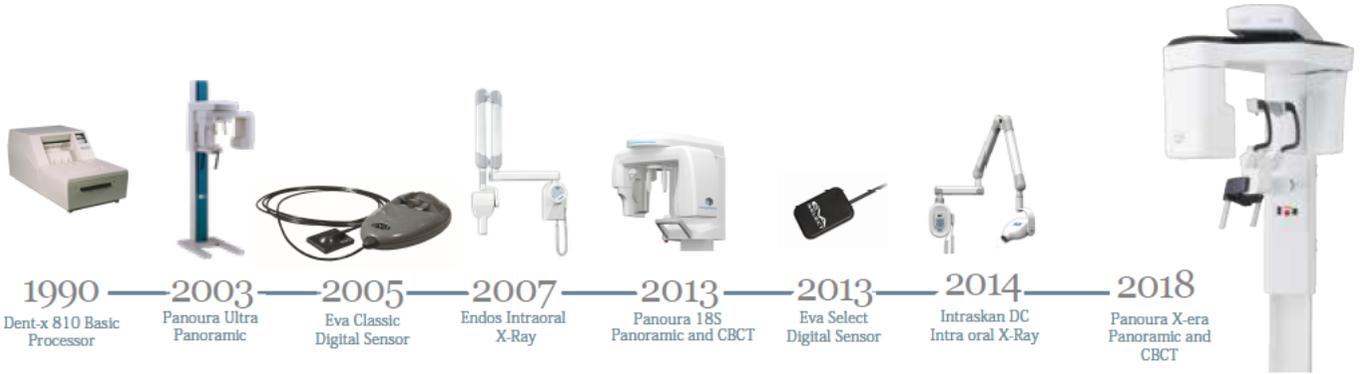
### 3D movie

3D Movie creates compelling presentation material to share with colleagues or patients. Bring your treatment plan to life in a way that static volumes can't.

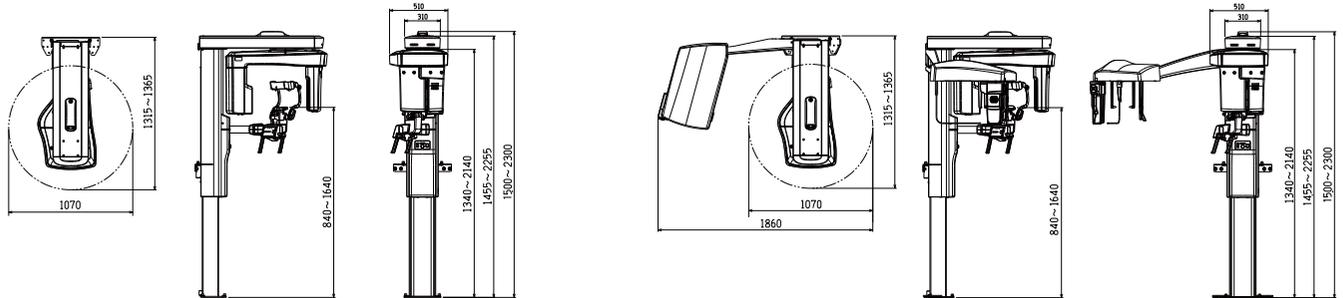


*ImageWorks has been providing innovative dental imaging solutions for over 30 years. Our focus is helping dental practices maximize the return on their imaging assets.*

**ImageWorks**



**Dimensions**



**Technical data**

**Panoramic**

- Sensor .....Direct CMOS Sensor
- Grading .....16 bit (65,536 grading)
- Exposure time .....7, 12 sec. (Panoramic)  
.....1.7 sec.x4 (TMJ)
- Magnification factor ..1.3-1.4 (Panoramic exposure, TMJ exposure)
- Pixel.....100 µm isotropic/pixel  
.....1,510x3,341 pixel (Panoramic)\*

\*Horizontal pixel may change by the adjustment of layer.

**Cephalometric**

- Sensor .....Direct CMOS Sensor
- Exposure time ..... 8 sec./12 sec. (PA),  
.....10 sec./15 sec.(LA),  
.....8 sec./12 sec. (Carpus)
- Magnification factor ..1.1
- Pixel .....2605pixelx2266pixel (LA)  
.....2097pixelx2266pixel (PA/Carpus)

**3D**

- Sensor ..... CMOS Sensor
- Exposure size ..... Xera MF  
φ44mmx64mm (61mm) 90µm  
φ80mmx79mm (72mm) 150µm  
φ110mmx79mm (69mm) 180µm  
φ156mmx79mm (65mm) 230µm  
Xera NF  
φ44mmxH64mm (61mm) 90µm  
φ85mmxH64mm (58mm) 150µm
- Voxel size
- Exposure time  
Standard .. 12 sec. (same for all exposure size)  
High def... 16 – 20 sec.

**Common spec.**

- Tube voltage.....70 - 90kV
- Tube current.....2.0 - 4.0 mA
- Power supply .....AC100-120V±10%,  
.....AC220V-240V±10%
- Total filtration.....2.5 mm Aluminum
- Operating condition  
Temperature.....10 to 40°C (50 to 104°F)  
Relative humidity...30 to 75% (no condensation)  
Atmospheric pressure .....700 to 1060 hPa
- To install, the equipment needs to be wall-mounted.

***We know that most dentists are also business owners who focus on getting the best value for their investment. Based in Elmsford, NY for over 30 years, ImageWorks has been manufacturing dental imaging solutions that provide great return on investment. This value stems not only from the quality of our products, but also the quality of our people.***

**The ImageWorks Full Dental Imaging End to End Solution**



**Imaging Software**



**Digital Intraoral Sensors**



**Intraoral X-Rays**



**Panoramic and Cephalometric X-Rays**



**CBCT Systems**



Call 914-592-6100 or email [Custserv@imageworkscorporation.com](mailto:Custserv@imageworkscorporation.com)

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