

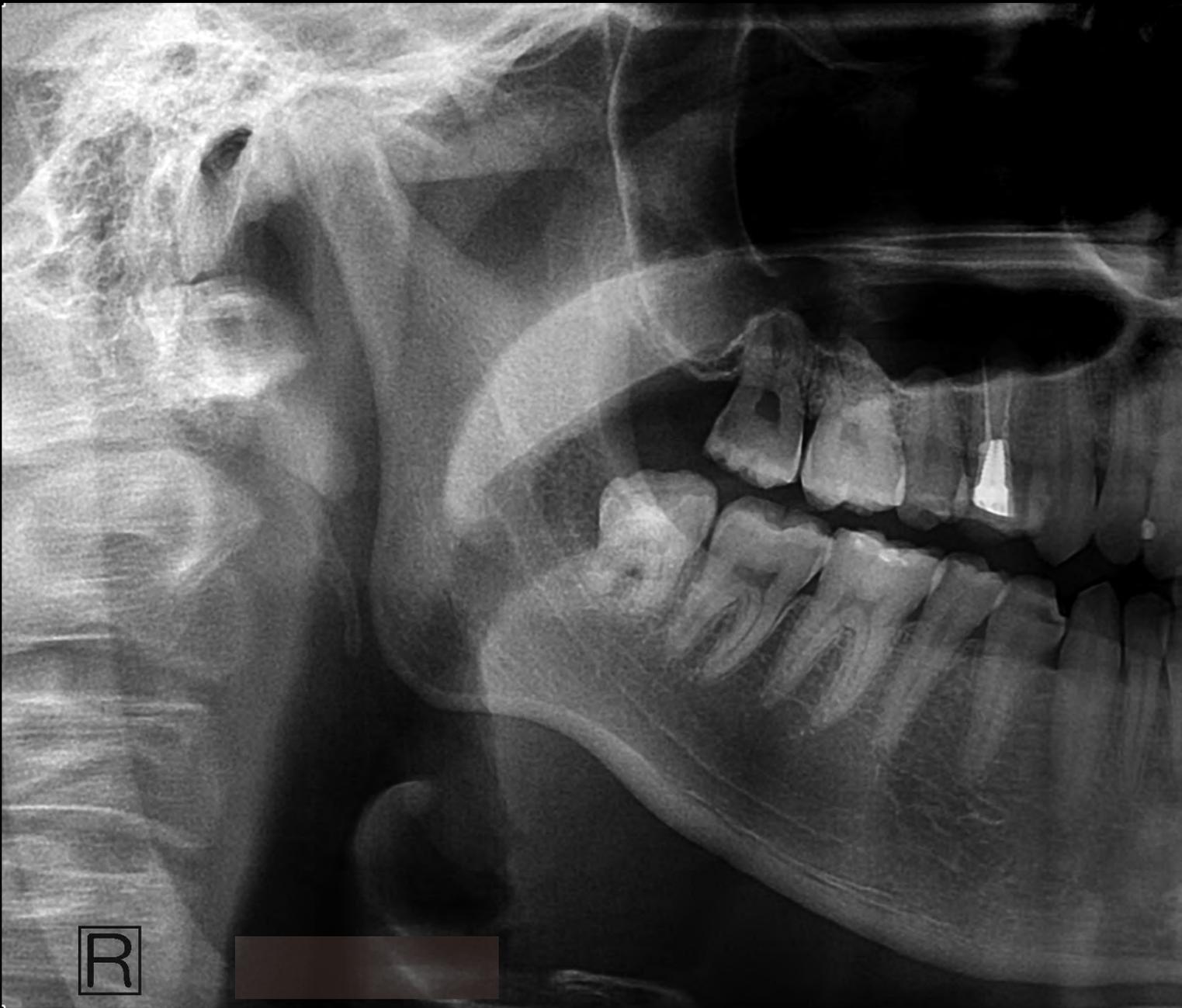


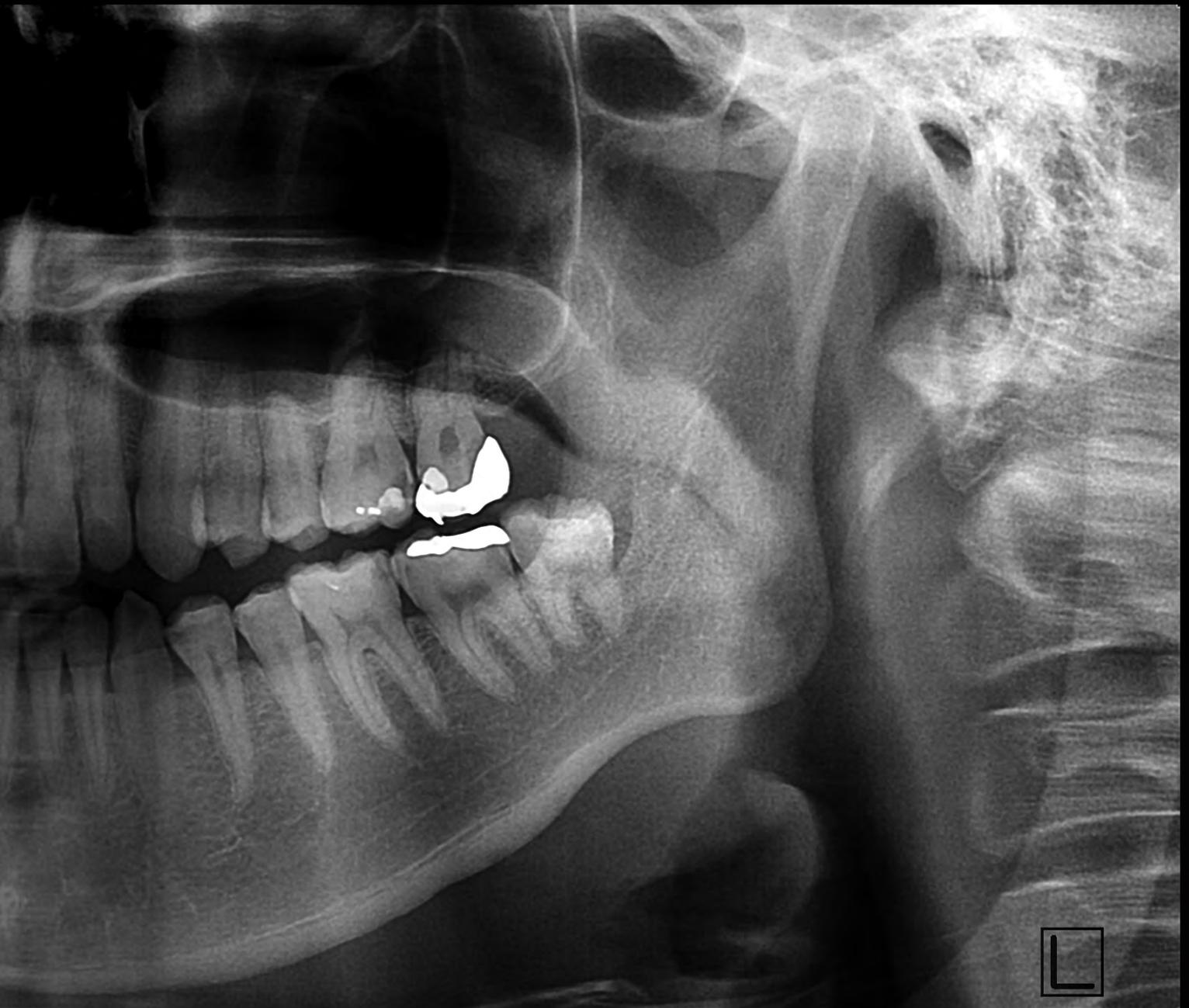
**ImageWorks**



*Clearer imaging.  
Clearer decisions.*

**X-ERA**





# 2D

*Superior image quality for a confident diagnosis*

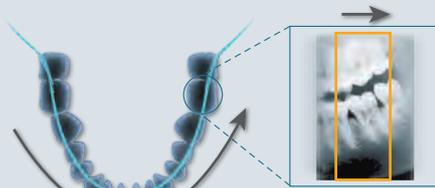
X-era produces a crisp, high-quality image with uncompromised clarity, revealing a finer level of detail on every capture. It reduces the need for retakes and minimizes the time spent on post-capture image enhancement.

# High-definition clinical image quality for an accurate diagnosis

X-era is designed with a direct CMOS sensor and unique image construction technology, enabling it to produce a sharper image.

Combines the finest details of more than 3,600 single high resolution images to provide a sharp and high-definition scan. (16 bit 65,536 grading)

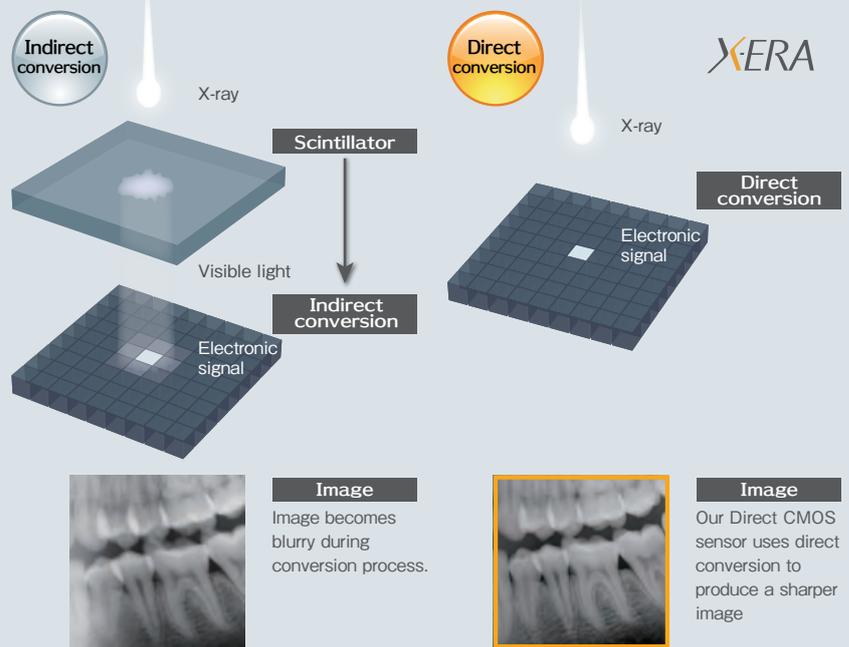
Captures the finest details from more than 3,600 high-resolution images



\*Image is for illustration purposes only

## Indirect conversion vs. Direct conversion

\*The diagram below is for illustration purposes only



## Multi Focal Layer Technology zeroes in on any detail

Pinpoint any area to gain a clear view for your diagnosis. Even after capturing the images, you can reconstruct them to match the patient's dentition size and shape, thus reducing the risk of retake.

**Easily correct positioning errors**

**Select dentition size and shape**

Forward Back

Wide Large

Small Normal Large Normal

Normal Normal

< Position >

< Arch size >

< Arch shape >

< Incorrect positioning >

< Autofocus >

Radiographic failure caused by incorrect patient positioning can be corrected easily by the unique adjustment feature, even after the exposure, resulting in a nearly flawless panoramic image.

Easily adjust images to the optimal size and shape of the focal layer, even after the X-rays have been taken.

## Cephalometric sensor options



### Cephalometric (Type 1)

Manually adjust sensor for Cephalometric or Panoramic scans

Cost efficiency



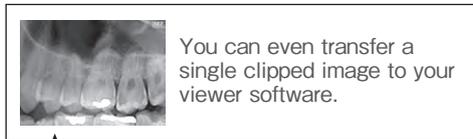
### Cephalometric (Type 2)

Use the software to effortlessly switch between fixed Cephalometric and Panoramic sensors

Preferred Functionality



# Multi-layer dental clipping

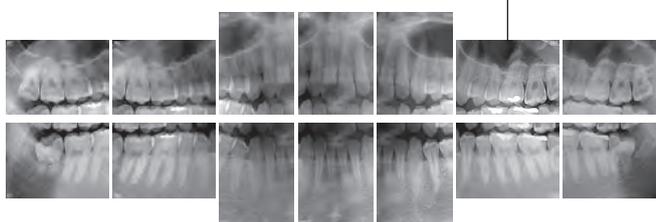


You can even transfer a single clipped image to your viewer software.

18-image method is also available.



10-image method



14-image method

## 2D exposure modes

Cephalometric exposure mode



< Lateral view >



< PA view >



< Carpus view >

Panoramic exposure mode



< Standard panoramic >



< Small patient panoramic >

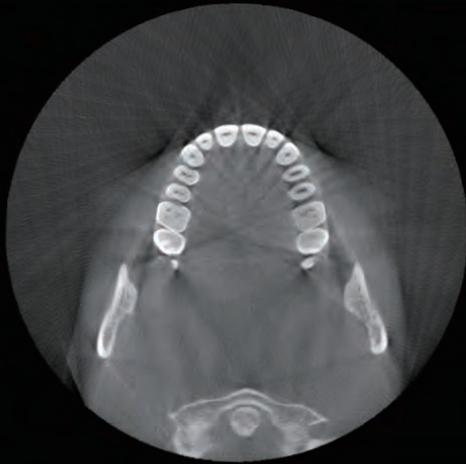


< TMJ 4 views × TMJ 2 views > \*Images above reflect TMJ4 views.



< Bitewing >

# 3D



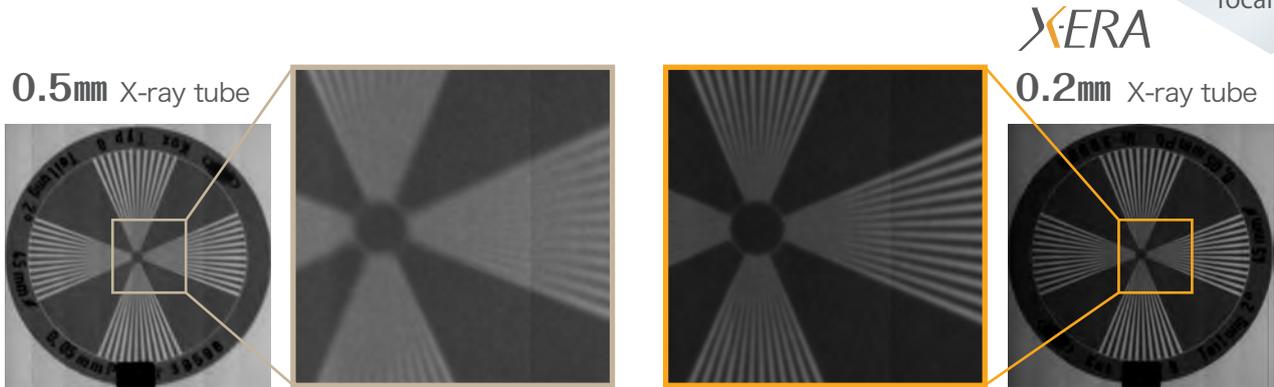
## *Exceptionally sharp 3D imaging to meet the needs of every doctor*

X-era provides fast 3D scanning with brilliant results. It captures pristine, high-definition 3D images to accommodate a comprehensive range of clinical needs. In addition, we've shortened the scan time, reducing the burden on patients and making it easier for you to incorporate 3D imaging into daily practice.

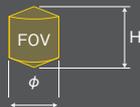
# High-definition 2D/3D image with high focus

With a focal size of only 0.2mm, X-era produces higher-definition images with less blurring, making your diagnoses even easier.

**0.2** mm  
X-ray tube focal spot



## 3D exposure modes



Concept of FOV  
 $\phi \times H$  mm

X-ERA

Endodontic,  
Impacted tooth extraction



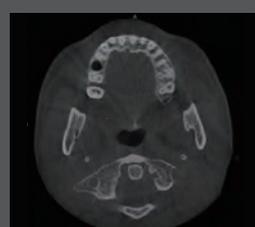
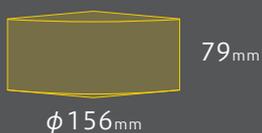
Maxillary sinus observation,  
Implant



Impacted tooth observation (both sides),  
Full mouth implant



TMJ full mouth observation,  
Respiratory tract observation



# Clinical Examples

Multiple scan modes accommodate a wide range of clinical needs. The examples below illustrate how each mode can bring clarity to common clinical conditions.

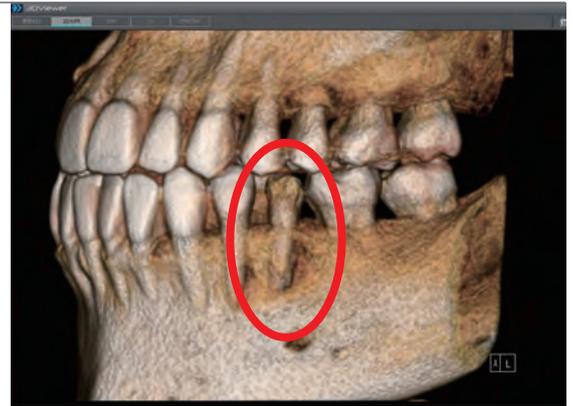
## Endo

A three-dimensional scan allows for a clear diagnosis of a spreading lesion, for example, letting you evaluate it easily from all angles.



Buccolingual view

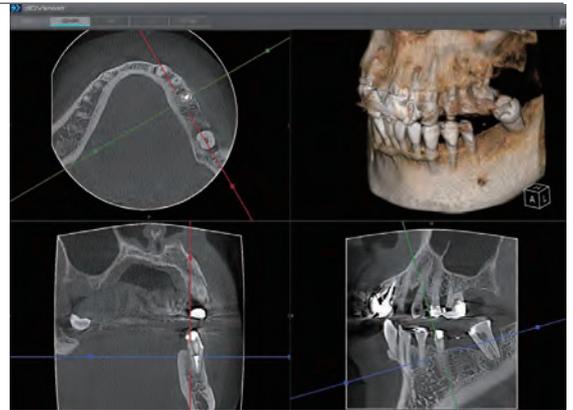
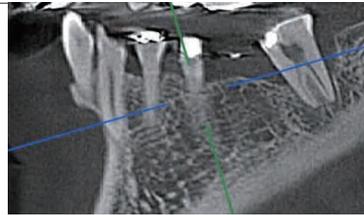
Mesiodistal view



3D volume view

## Perio

Three-dimensional examination allows you to make an accurate diagnosis in areas that are difficult to confirm in 2D. In addition, the 3D imaging gives patients a clearer picture of their diagnosis, making it easier for them to understand, which also benefits the process of obtaining informed consent.



## EXT <Horizontally Impacted Wisdom Tooth>

With X-era's 3D imaging, you can easily discern the positional relation between the mandibular canal and the root apex, helping you determine the best approach for surgery.



# Design Philosophy

X-era has been carefully designed to benefit both doctors and patients. Regardless of the scanning area or diagnosis, capturing images is quick, easy and comfortable, thanks to exclusive design features. These features help to reduce the burden on both doctor and patient.

## Face-to-face positioning

The arm is designed with a 55-degree angle so it is optimized for patient entry and positioning. A patient in a wheel chair can also comfortably be accommodated.

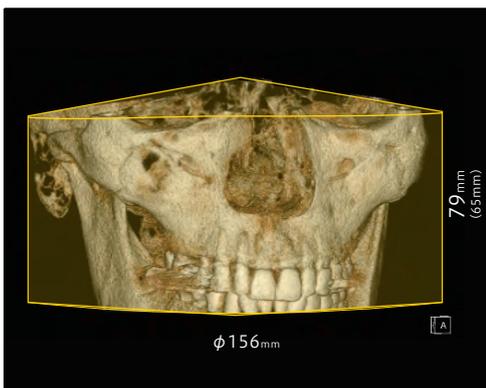
Switch easily between Panoramic and 3D exposure by simply changing the bite blocks.



Easy patient positioning

*Compact design fits in smaller X-ray rooms.*

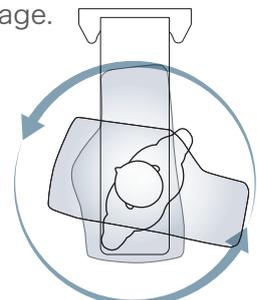
## 360° CT scan in just 12 seconds—with our largest FOV



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



## *In-house software ONESYSTEM*

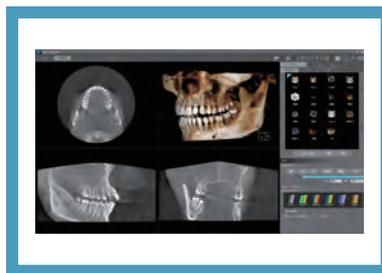
Our imaging software is intuitive and easy to use. It's designed with a wide range of practical functions for your daily practice, from scanning to patient consultations.

### *Scan*



Select scan mode using the quick and intuitive interface

### *View*



View and manipulate various types of images with just a few clicks

### *Edit*



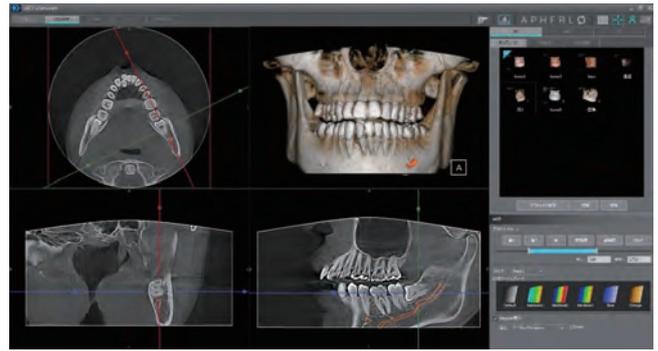
Customize the look of your images without hassle or confusion

## 2Dviewer



You can view panoramic and imported images, such as intraoral and camera images, on one screen. The interface makes it easy to magnify or compare images as needed.

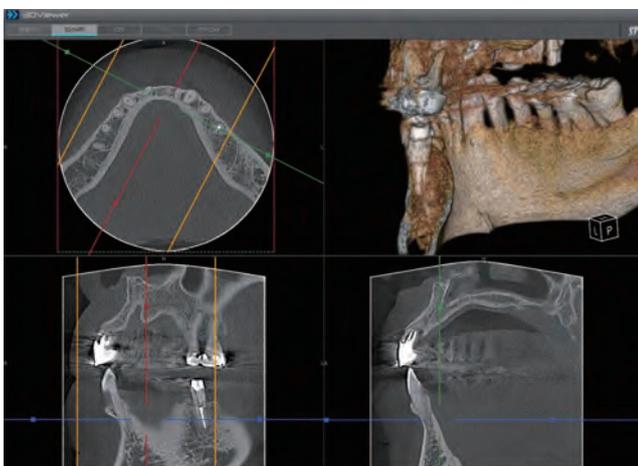
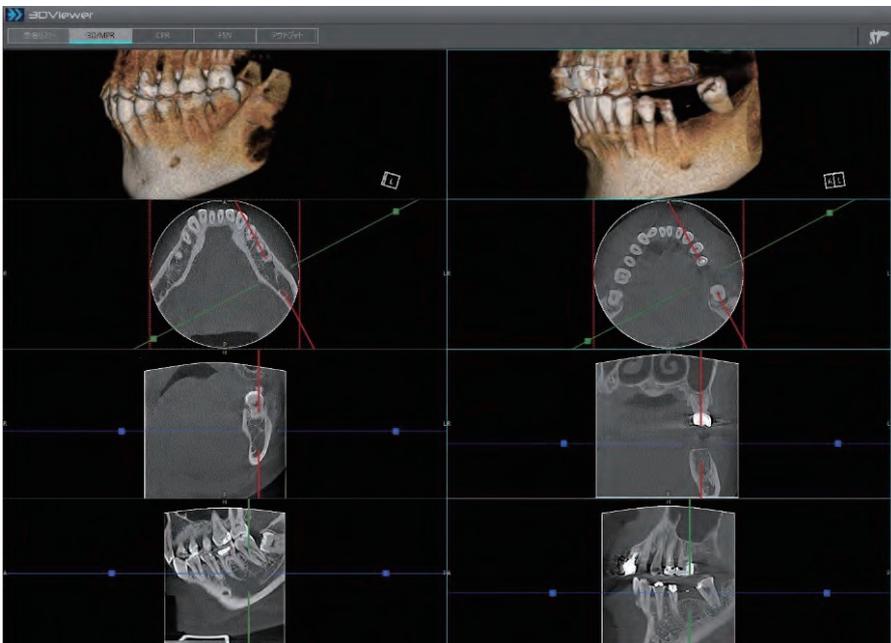
## 3Dviewer



With the click of a mouse, you can easily evaluate the 3D images from all angles, gathering the information you need to make an accurate diagnosis.

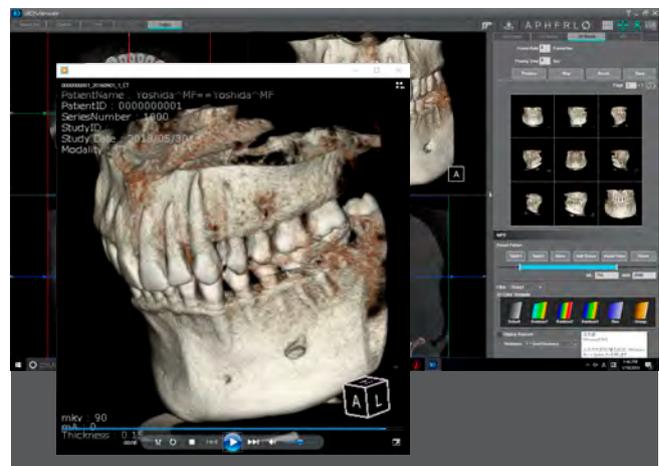
## Multiview

Quickly compare pre- and post-operative images on one screen to give patients a clear picture of their treatment progress.



## 3D image cutting feature

3D volume images can be cut to view a sliced plane. This is useful in a variety of diagnoses: for example, when determining the buccolingual shape of the defective part or when checking the cross section of the tooth axis.

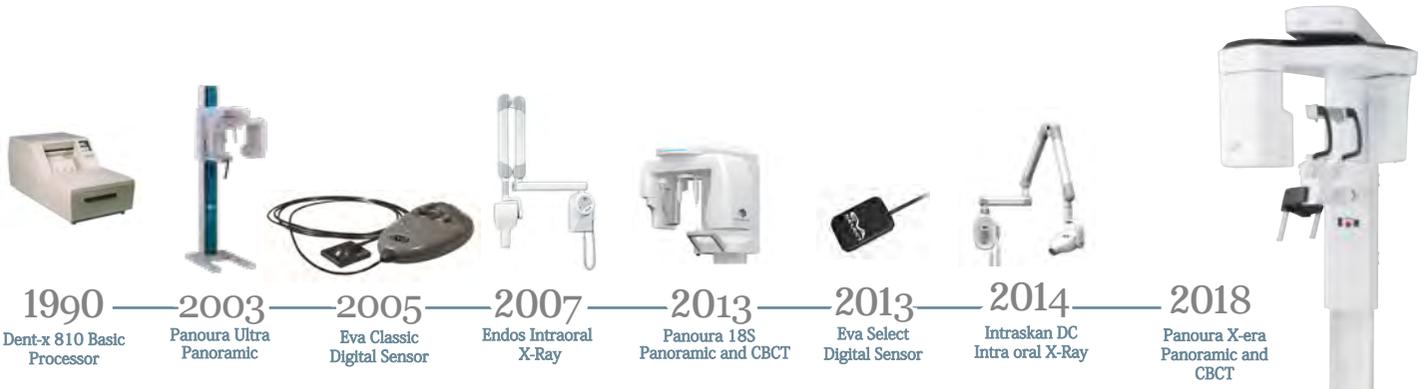


## 3D movie

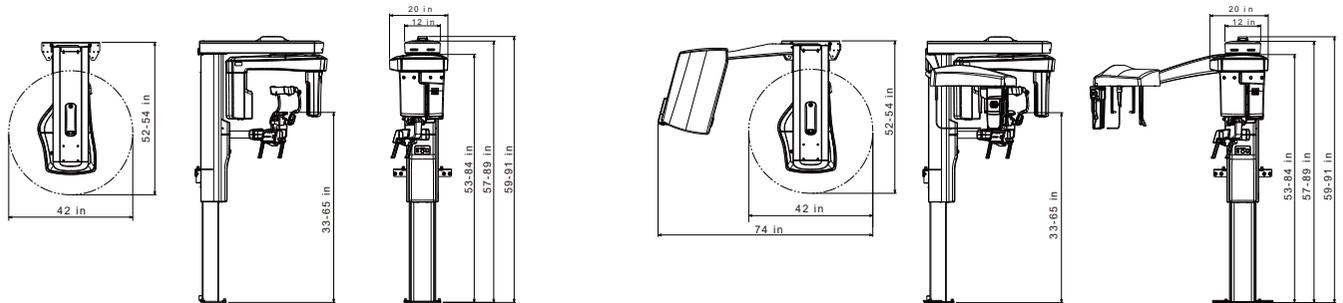
Easily generate a 3D animation of your images to use as presentation material or for transferring data to doctors or patients.



*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.*



**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)

Visit us at [www.imageworkscorporation.com](http://www.imageworkscorporation.com)