ImageWorks

Clearer imaging.
Clearer decisions.

X-ERA

Face to face positioning

0.2mm X-ray tube focal spot

In-house software

X-ERA

360° scan in 12 sec.

Various exposure modes

Multi layer dental clipping
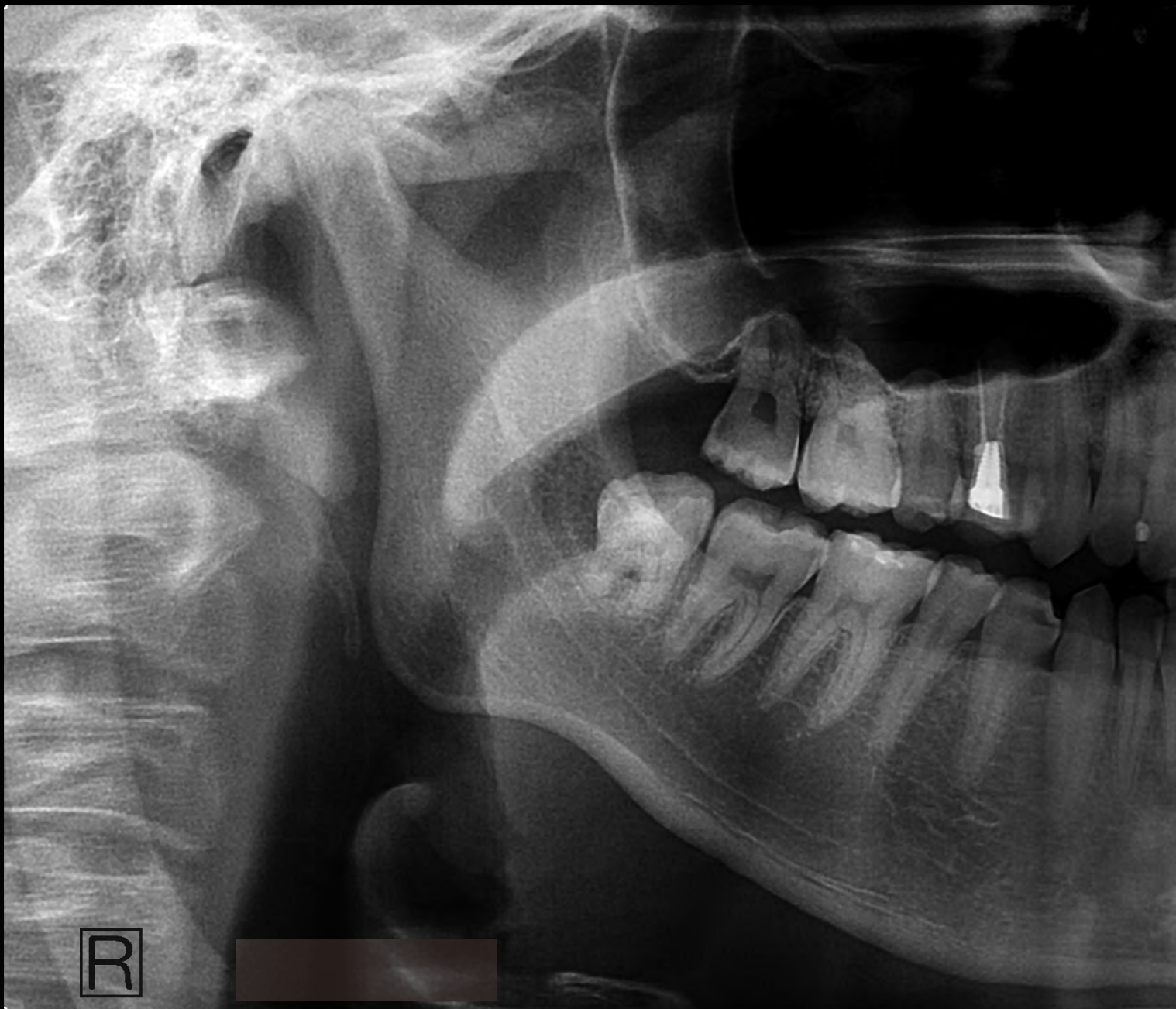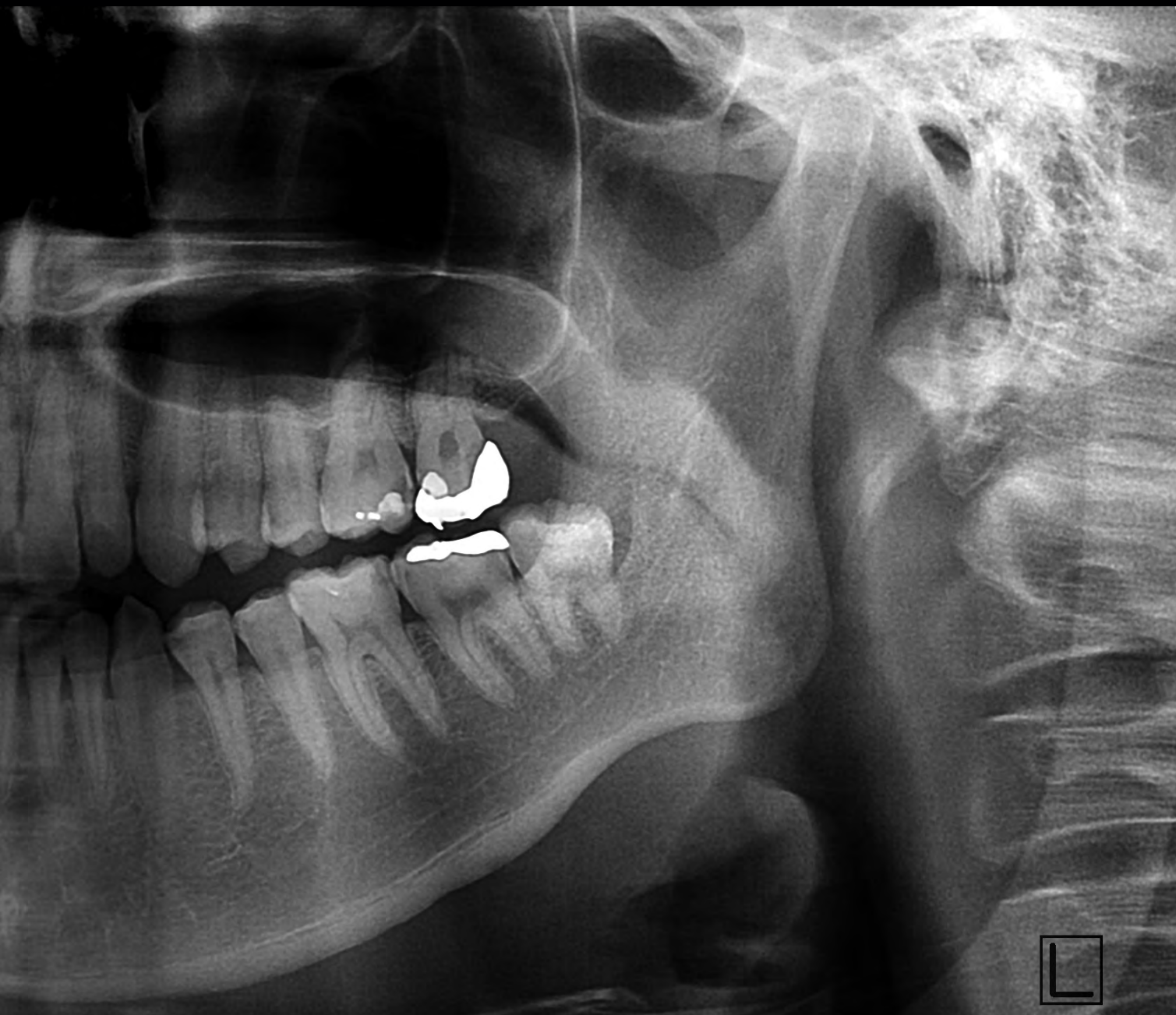
2D

## 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)
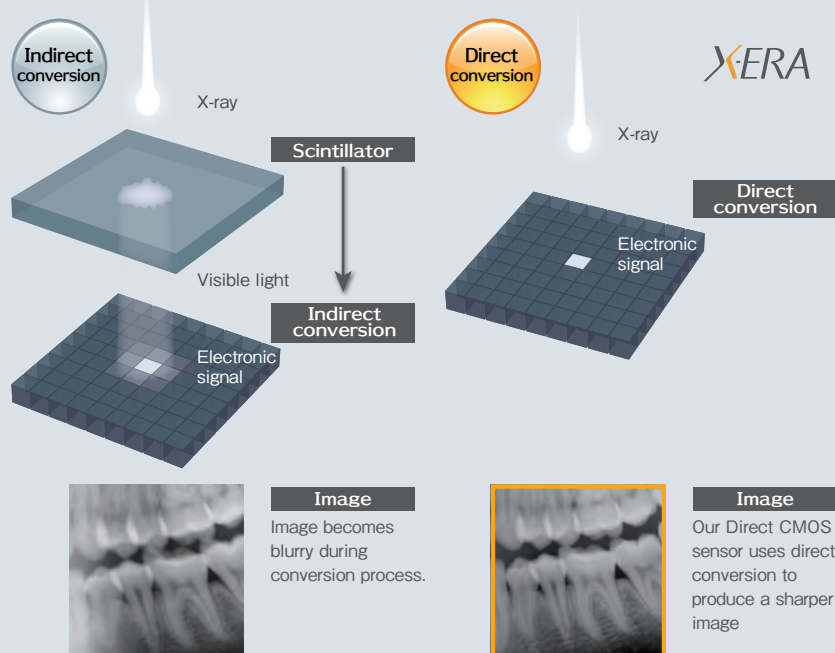
Captures the finest details from more than 3,600 high-resolution images
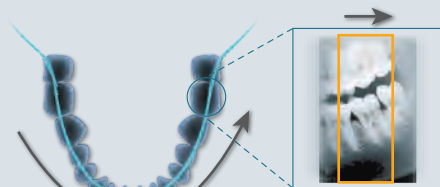
*Image is for illustration purposes only

Indirect conversion vs. Direct conversion
*The diagram below is for illustration purposes only

Indirect conversion

X-ray

Scintillator

Visible light

Indirect conversion

Electronic signal

Direct conversion

X-ray

Direct conversion

Electronic signal

X-ERA

Image
Image becomes blurry during conversion process.

Image
Our Direct CMOS sensor uses direct conversion to produce a sharper image

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.
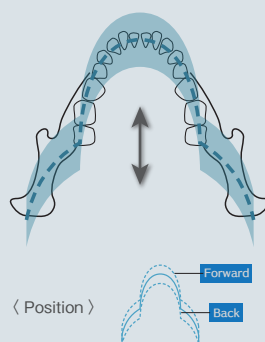
< Incorrect positioning >

< Autofocus >

Easily correct positioning errors

〈 Position 〉

Forward

Back

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.

Select dentition size and shape

Wide

Large

〈 Arch size 〉

Large

Small

Normal

〈 Arch shape 〉

Wide

Narrow

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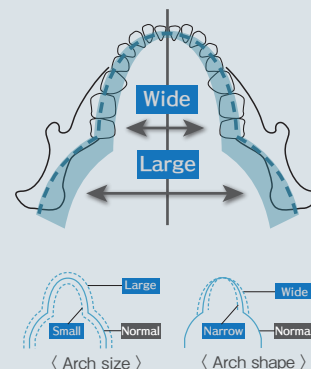
Easily adjust images to the optimal size and shape of the focal layer, even after the X-rays have been taken.

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
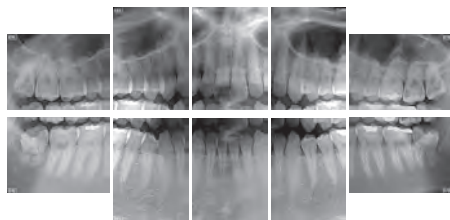
Preferred Functionality

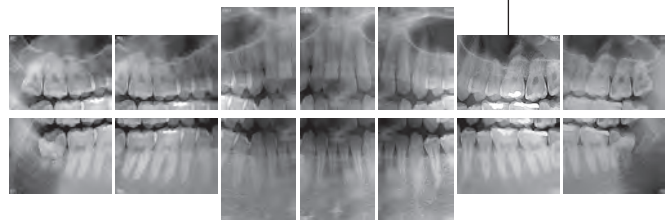X-ERA

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

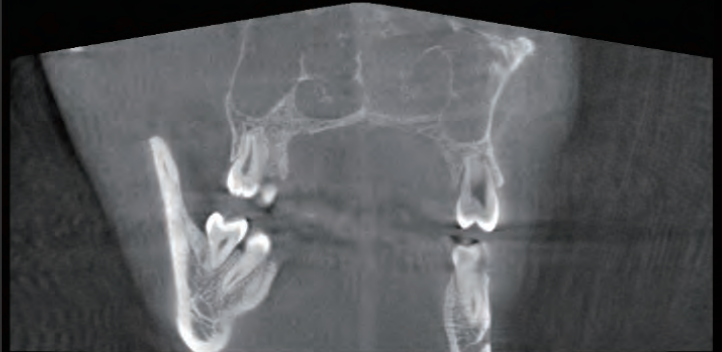< Lateral view>

< 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
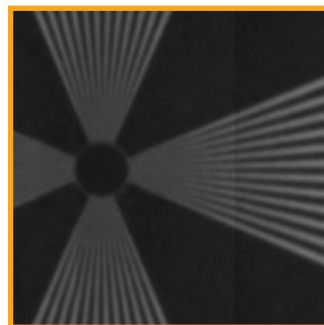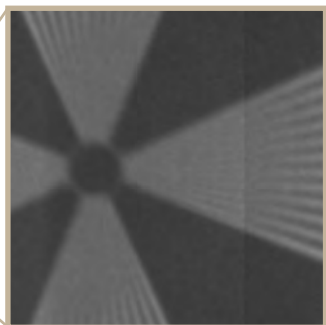for you to incorporate 3D imaging into daily practice.

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.
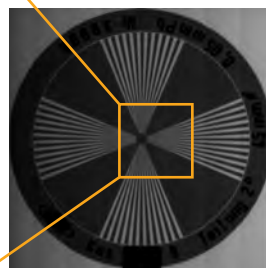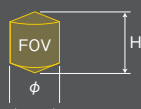
0.2mm
X-ray tube focal spot

0.5㎜ X-ray tube

XERA **0.2㎜** X-ray tube

3D exposure modes

Concept of FOV
φ×H mm

XERA

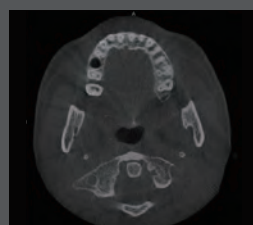| Mode	FOV	Images	XERA
Endodontic, Impacted tooth extraction	64mm / φ44mm		○
Maxillary sinus observation, Implant	79mm / φ80mm		○
Impacted tooth observation (both sides), Full mouth implant	79mm / φ110mm		○
TMJ full mouth observation, Respiratory tact observation	79mm / φ156mm		○
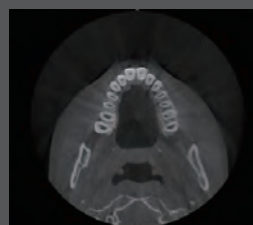
Clinical Examples

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.
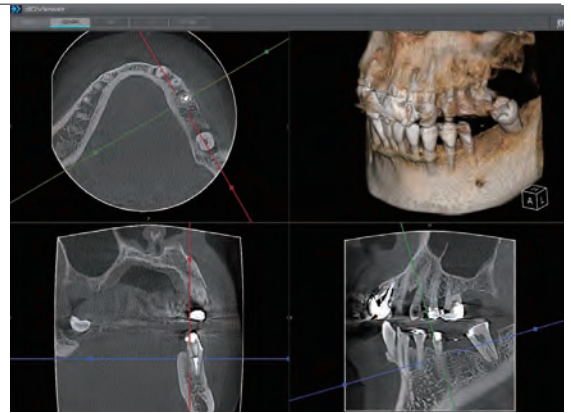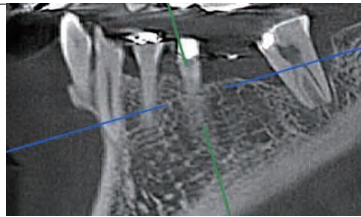

Buccolingual view   Mesiodistal view

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
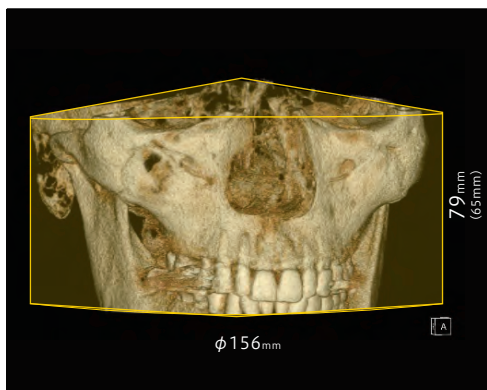patient in a wheel chair can also comfortably be accommodated.
Switch easily between Panoramic and 3D exposure by simply changing the bite blocks.

Easy patient positioning
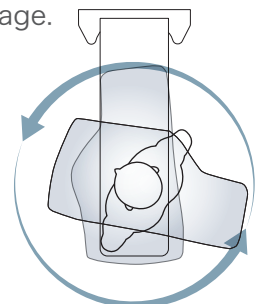
Compact design fits in smaller X-ray rooms.

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

φ156mm

79mm (65mm)

A

Even with X-era's largest FOV size (Φ 156 mm × 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.
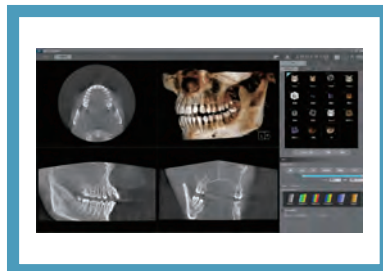
Scan

Select scan mode using the quick and intuitive interface

View

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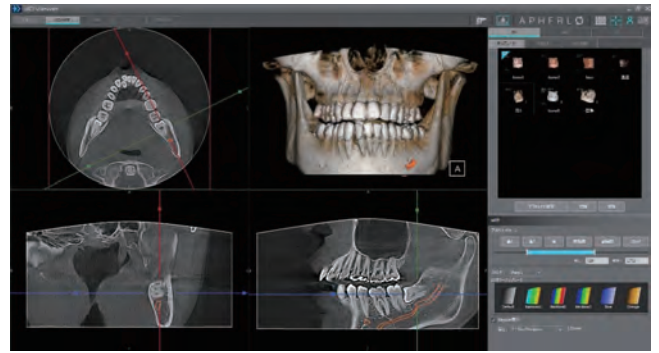
Edit

Customize the look of your images without hassle or confusion
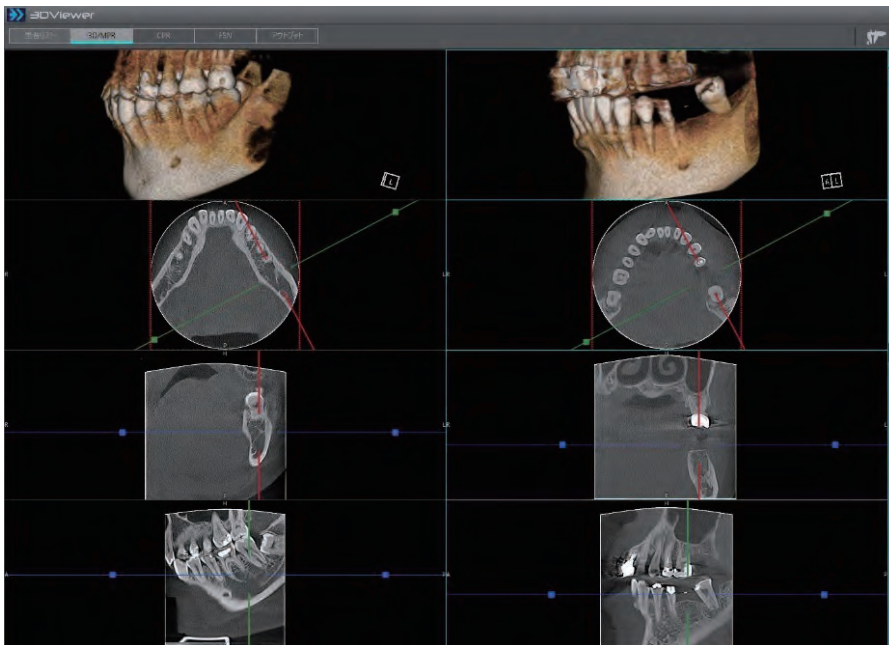
» 2DViewer

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.
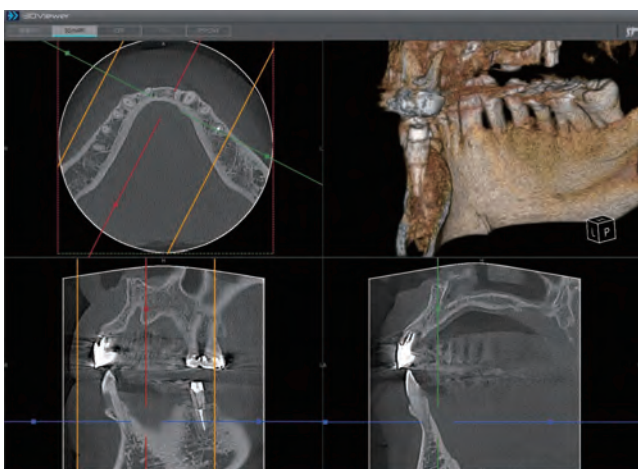
» 3DViewer

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.
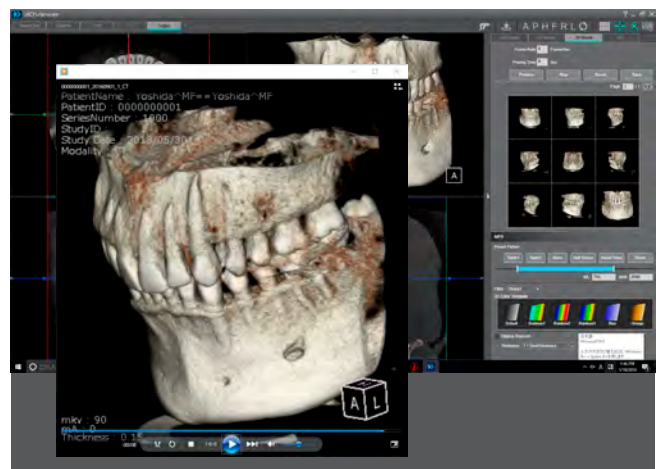
3D movie

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