Panoura 18S
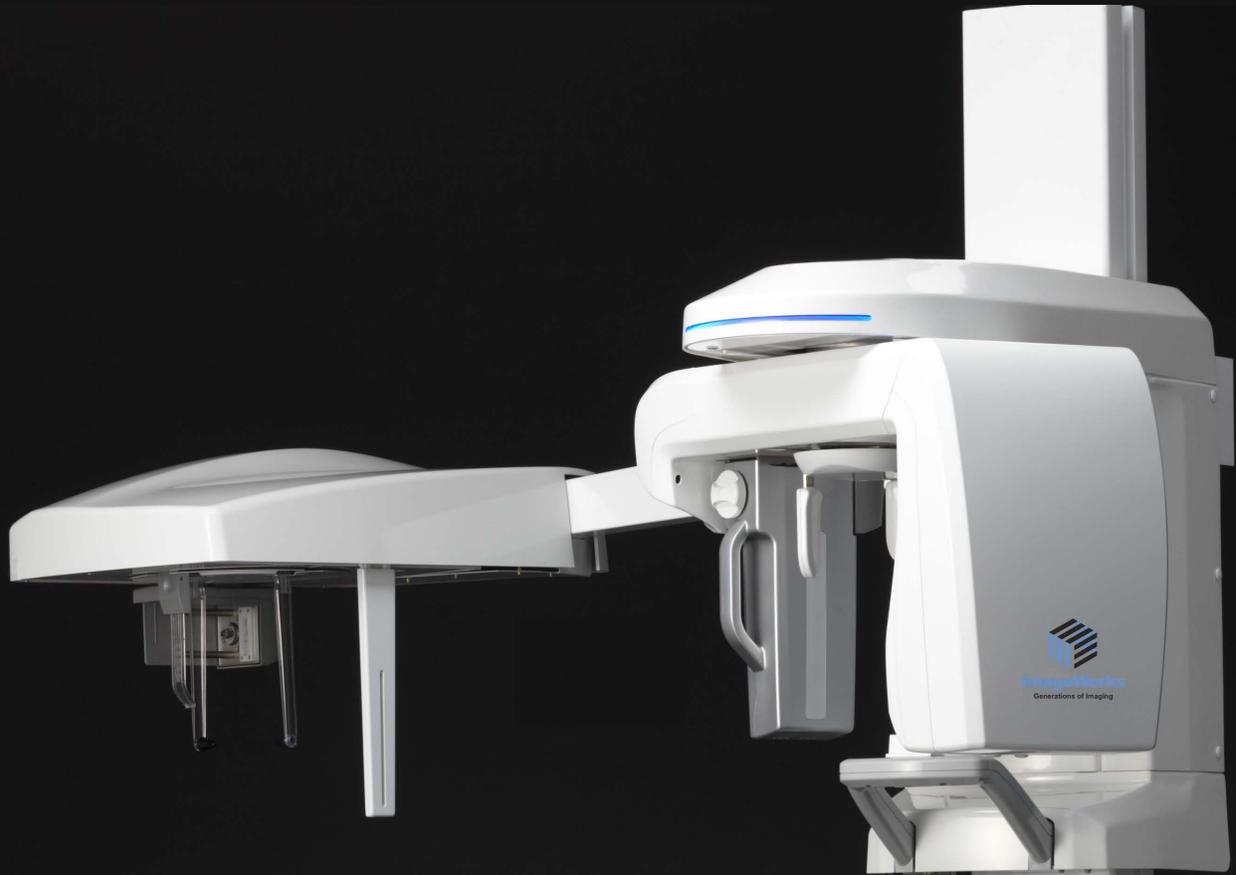## Panoramic System

The Panoramic That Gives You More

ImageWorks
Generations of Imaging

www.imageworkscorporation.com/Panoura

1 Super high definition image quality for a precise diagnosis

■ A Cadmium-Telluride Direct Conversion CMOS sensor and a unique image construction technology produces sharp images that are free of spinal artifacts.
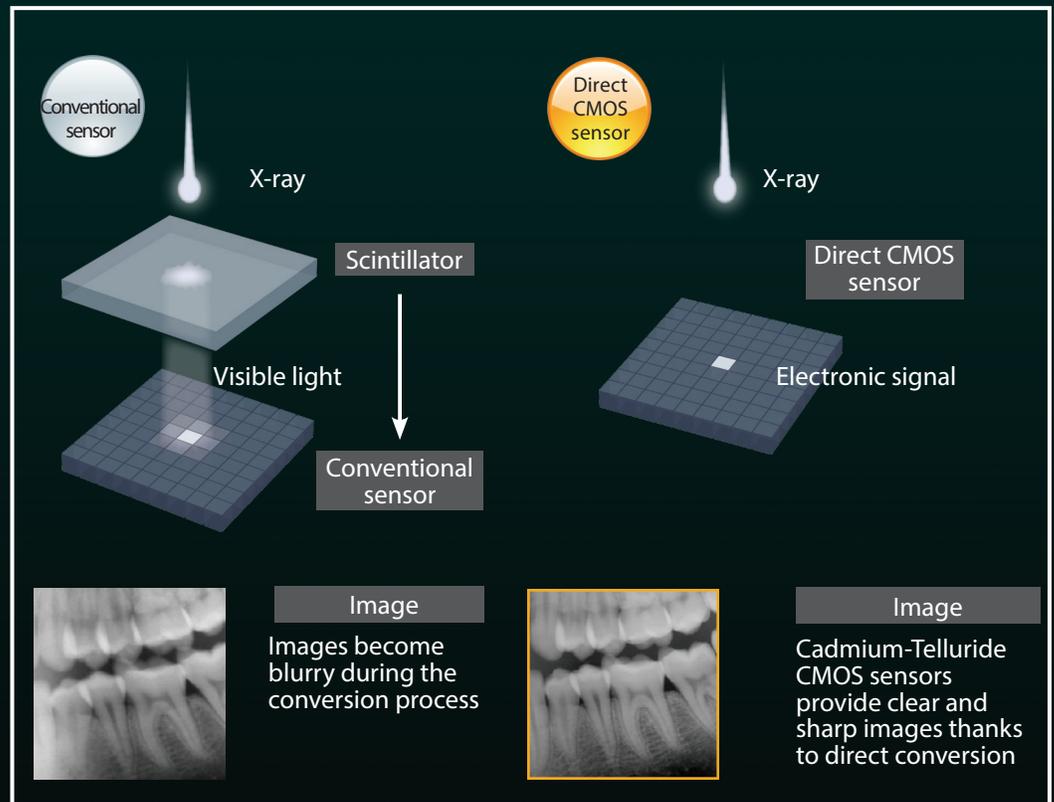
Direct Conversion Cadmium-Telluride CMOS sensor

Semiconductor that is used for photon counting directly converts X-rays to electronic signals and creates blur-free images.
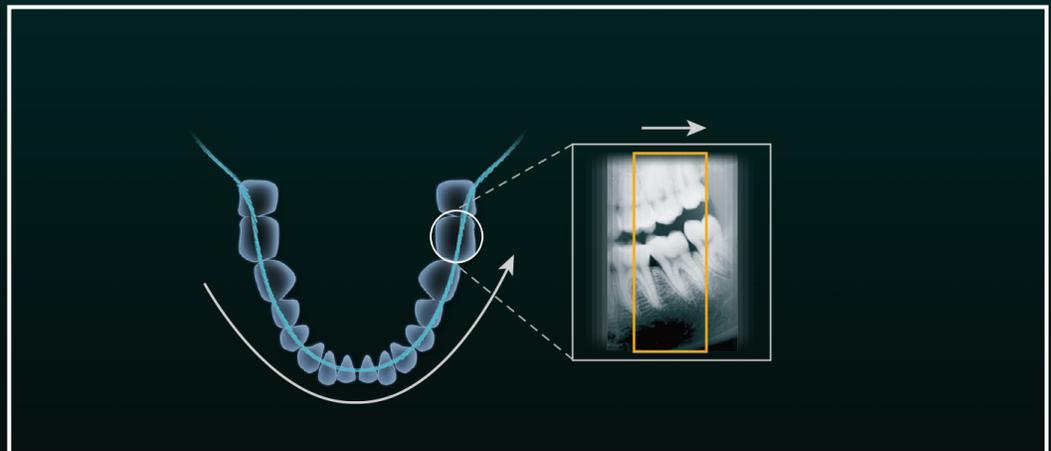
Conventional sensor

Conventional sensors convert X-rays to visible light through scintillation, then the CCD element transforms the light into electronic signals. In that process, the scintillator cause the electrons to diffuse, resulting in blurred images.

Conventional sensor

Direct CMOS sensor

X-ray

Scintillator

Direct CMOS sensor

Visible light

Electronic signal

Conventional sensor

Image

Images become blurry during the conversion process

Image

Cadmium-Telluride CMOS sensors provide clear and sharp images thanks to direct conversion

■ This process compiles more than 4,500 single high resolution images into one sharp, high-definition panoramic X-ray. (16-bit = 65,536 gray levels)

quality panoramic images

2 AutoFocus: Stop Missing Anatomy in your Scan

With most panoramics, if the anatomy falls outside of the machine's single, narrow focal plane (usually because of positioning), you may be stuck with unclear anatomy. With AutoFocus from ImageWorks, the system casts a wide net by capturing over 50 focal planes. It's hard to miss!
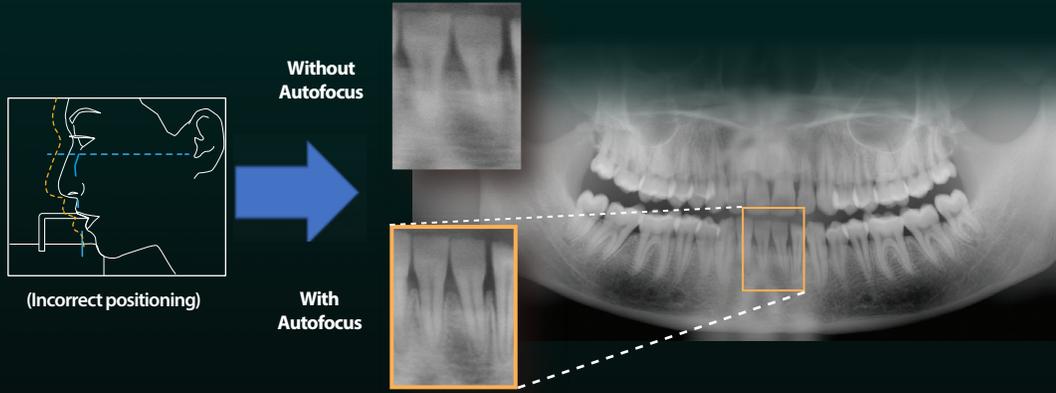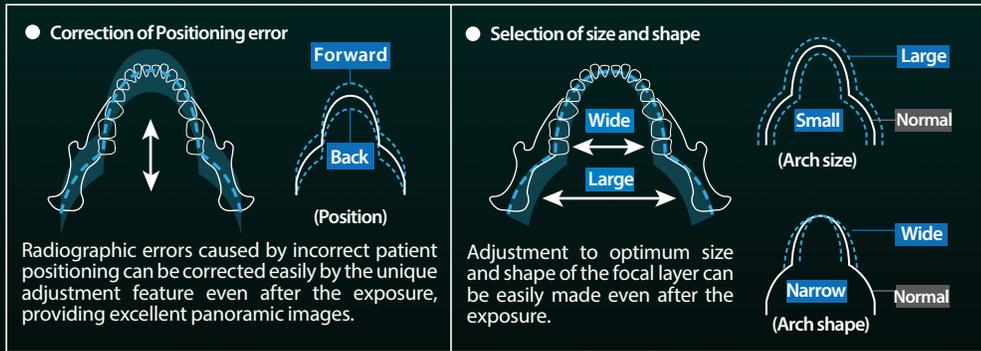
Without Autofocus

With Autofocus

(Incorrect positioning)

Image Creator

Want to further optimize to see the tip of a particular root? The software will change the focal plane so it's optimized for that location. No additional scans needed.

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

● Correction of Positioning error

Forward

Back

(Position)

Radiographic errors caused by incorrect patient positioning can be corrected easily by the unique adjustment feature even after the exposure, providing excellent panoramic images.

● Selection of size and shape

Wide

Large

Large

Small

Normal

(Arch size)

Wide

Narrow

Normal

(Arch shape)

Adjustment to optimum size and shape of the focal layer can be easily made even after the exposure.
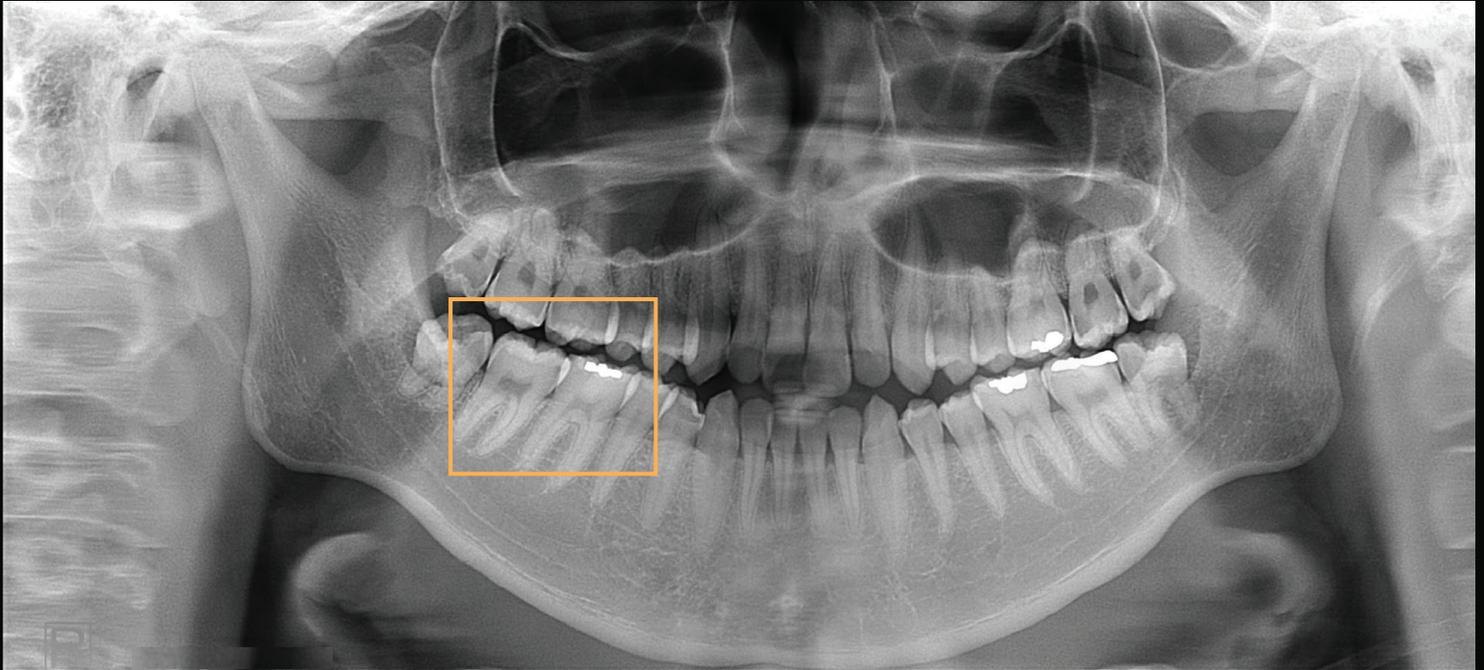
3 Patient dose reduced by 50%

Direct CMOS sensor enables high quality images while reducing the patient dose by up to 50%.
Patient dose is also minimized by shorter exposure times, reducing the risk of retakes caused by patient movement.

High speed 8 sec.

Next generation premi

Premium high-definition

Standard panoramic: 14 seconds

Direct CMOS sensor

High definition 14 sec.
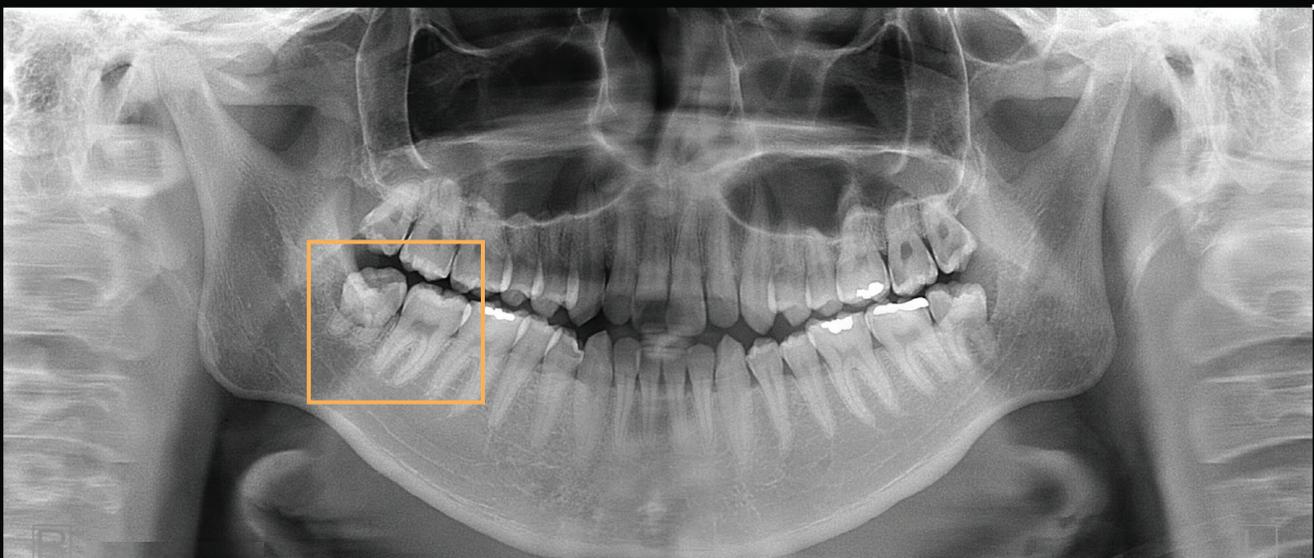

A high-definition Cadmium-Telluride CMOS sensor and a unique panoramic construction algorithm actualize the direct conversion from X-ray to electronic signals, creating high-definition images with lower noise.

Various exposure times can be selected based upon patient and clinical needs

High speed exposure mode: 8 seconds

Direct CMOS sensor

High speed 8 sec.

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

um high definition
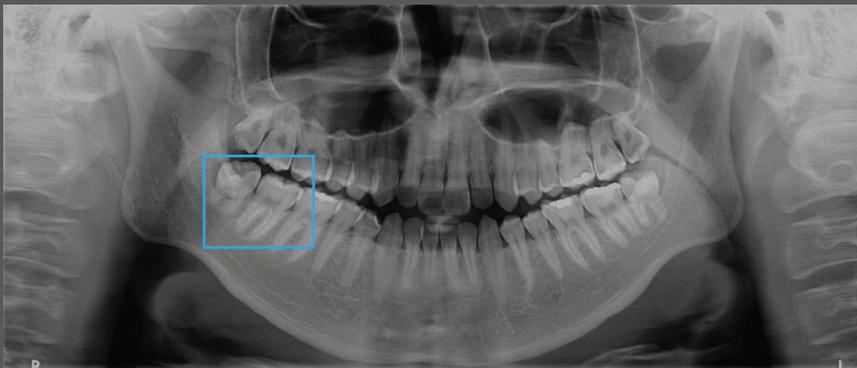
Image comparison

Panoura 18S
Standard panoramic

- Direct CMOS sensor
- High definition 14 sec.

Panoura 18S
High speed exposure mode

- Direct CMOS sensor
- High speed 8 sec.

Conventional sensor image

- Conventional sensor
- 16 sec.

Conventional sensor image

- Conventional sensor
- 16 sec.

Exposure modes

Panoramic exposure mode

Standard Panoramic

TMJ 2 Views

Child Panoramic

Bitewings

Vertical Bitewings
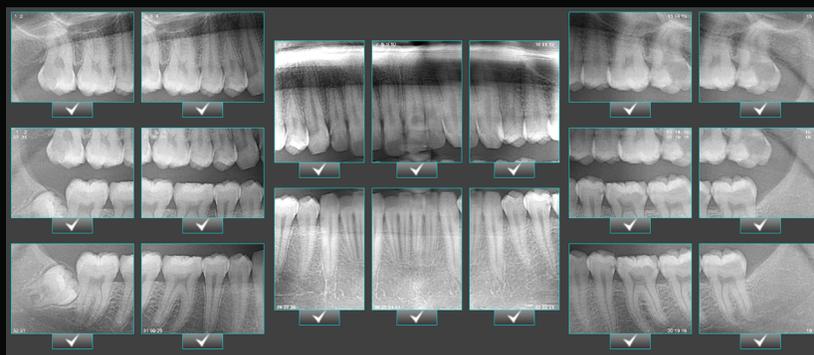
Cephalometric exposure mode

PA View

Lateral View

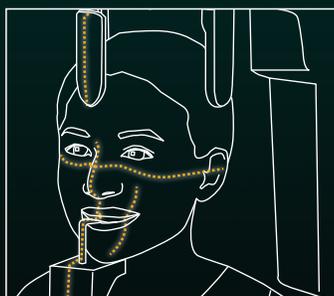Carpus View

FMX Clipping

Clip 18 separate images from the panoramic that can each can be used individually.
Generate the entire study in 14 seconds!

3-point head support

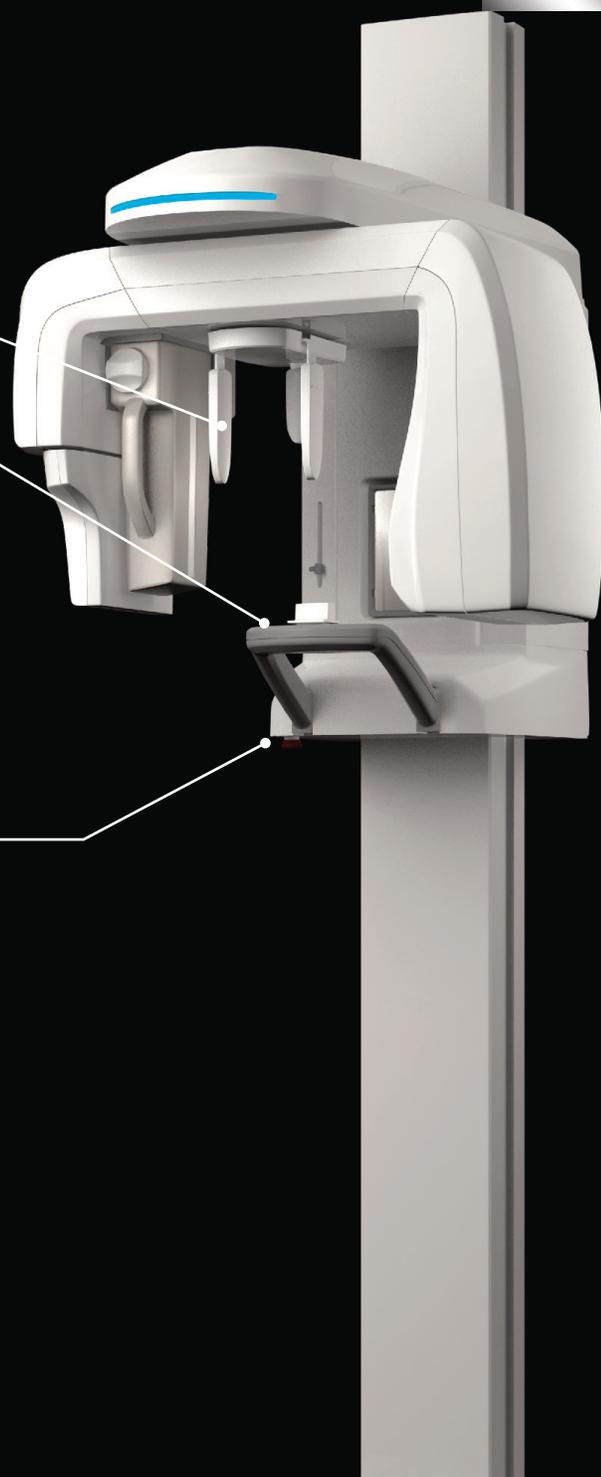Patient's head is supported at 3 positions to keep it in place during exposure.
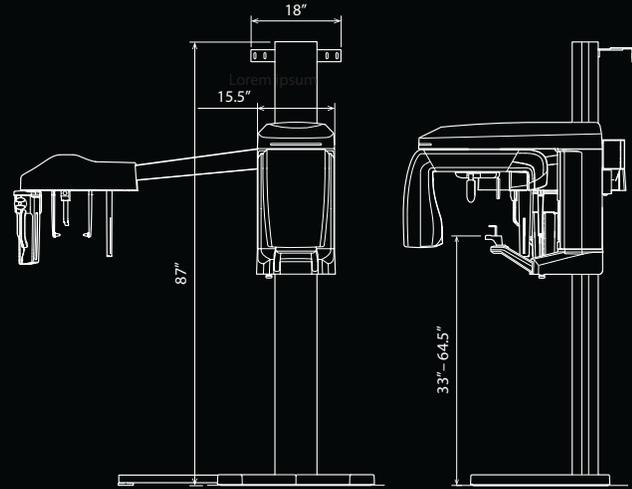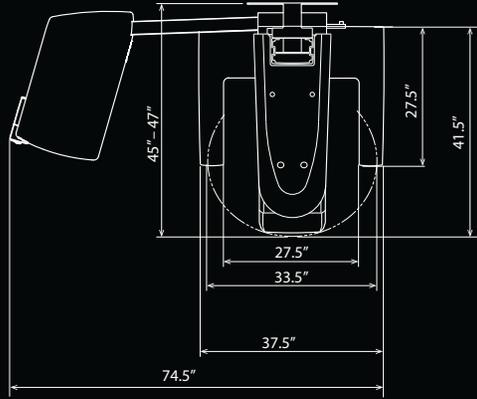
Simple positioning

Elevation range of 800mm

The chinrest height is adjustable in an 800mm range to adapt to all patient types, from child to adult, to a patient in a wheelchair.

Panoura 18S System Specifications

Basestand shown in image is optional, and not standard part of package

Technical Specifications:

Sensor: Cadmium Telluride Direct Conversion CMOS

Levels of Gray: 16 Bit (65,536 Levels of Gray)

Magnification: 1.2 - 1.29 (Panoramic, TMJ)

Pixel Size: 100 µ

Exposure Times (Sec):

Panoramic Adult: 8, 14, 16

Panoramic Child: 6, 11, 13

TMJ: 4 x 2

Cephalometric: 8, 10

Focal Spot: 0.5 mm

Tube Voltage: 58 - 82 kVp

Tube Current: 2 - 10 mA

Power Supply: 120 VAC +/- 10%

Input: 2 kVa

Total Filtration: 2.5 mm Aluminum

Weight:

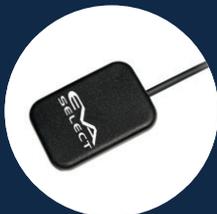Pan-only: 287 lbs

Pan with Cephalometric: 375 lbs

SM-D168-02

We know that most dentists are also business owners who focus on getting the best value for their investment. ImageWorks has been manufacturing dental imaging solutions in Elmsford, NY for over 30 years. Our focus is providing 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

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Digital Intraoral Sensors

Intraoral X-Rays

Panoramic and Cephalometric X-Rays

CBCT Systems

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