stomdevice

MORITA



Sharp down to the last detail. For reliable diagnoses.

Veraview X800

Thinking ahead. Focused on life.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

A sharp-eyed view: Absolutely sharp images and maximum patient health

The Veraview X800 dental X-ray system brings every detail to light, in absolutely sharp resolution. With its maximum resolution (voxel size of 80 µm) and innovative functions, this ultra-class system provides the perfect foundation for a thoroughly reliable diagnosis. And it consistently keeps your patients' health in mind in other ways, too. Because there's no reason you can't combine optimum image quality with a low radiation dose. As is proven in several ways by the combined panoramic, cephalometric, and 3D imaging system – for example, with eleven different fields of view that always ensure the lowest dose while providing the best image quality.



Unique image quality:
The Veraview X800's impressive 3D images also let you modify X-ray images afterwards. The system offers a number of new panoramic functions as well, including Adaptive Focal Point (AFP) and Adaptive Gray Scale (AGS). The best possible conditions for an all-around perfect diagnosis.

---

iF GOLD AWARD 2017

Outstanding performance: The Veraview X800 itself is picture-perfect – as the jury for the iF Design Awards agreed. They awarded it a gold medal for its exterior style.

stomdevice



Face-to-face positioning:
Face-to-face positioning ensures better communication with your patient as you focus the laser beam localizer for the laser. At the same time, the flexible control panel assists with precise patient positioning, because you can input all settings via easily understandable pictograms, without taking your eyes off your patient.

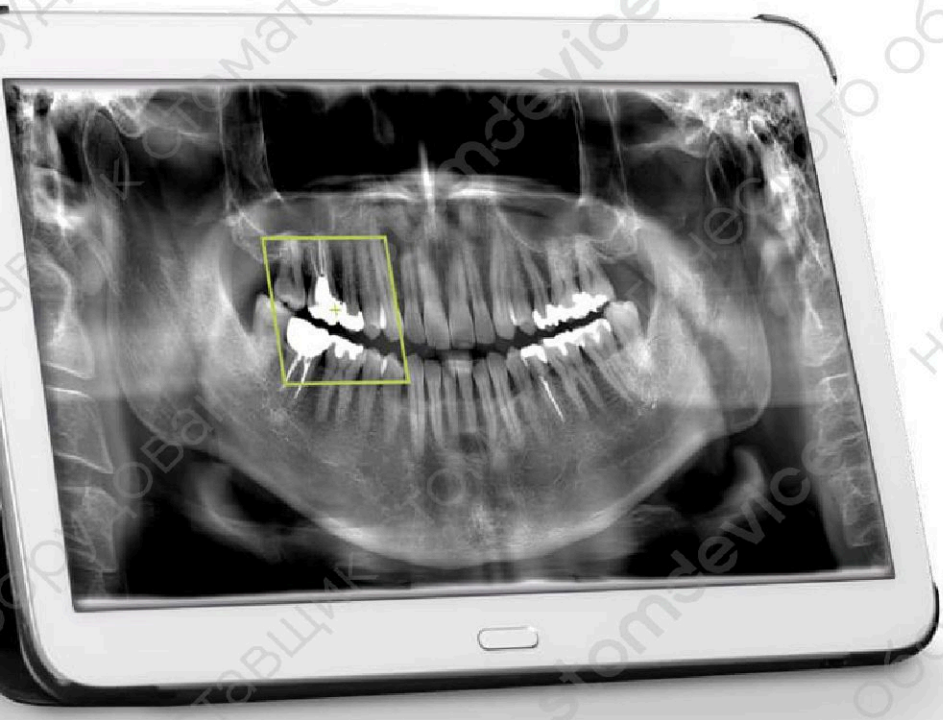
Comfortable for patients:
The chin rest, which can be lowered to 1,005 mm, means that even small patients or patients with limited movement can be positioned easily and comfortably.

Three different selections:
The Veraview X800 comes in three selections – S, M and L – with or without the cephalometric function. A variety of stand configurations are also available.



Precise positioning: Defining fields, imaging them precisely

The scout function lets you define the regions you want imaged, easily and precisely, before you take a partial 3D image.



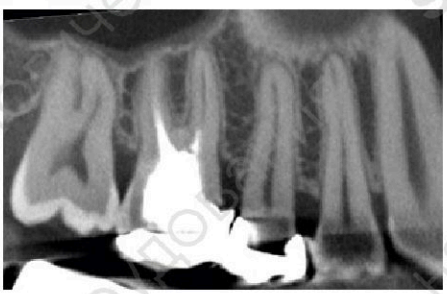
Panoramic Scout
By specifying the region of interest in a panoramic image, positioning and exposure for a limited field CBCT is very simple. This reduces the stress for the patient. After taking a CBCT exposure, double click on the cross mark in the panoramic image to display the CBCT data for that region.

Two-directional Scout
The region of interest is specified by taking lateral and frontal scout images. These images are used to accurately position for a limited field CBCT exposure.





■ Axial section image



■ Sagittal section image



■ Frontal section image

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

Extra-sharp images: The smallest details at a glance

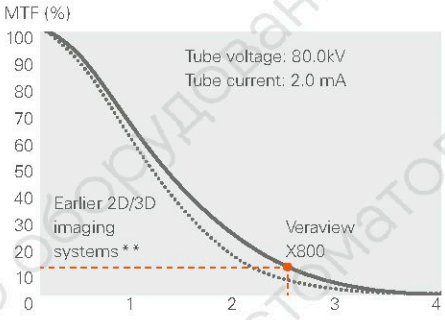
Sharp imaging plays a key role in patient health. The sharper the image, the more accurate the diagnosis – and the better and better-focused the treatment.

Sharp performance:
Peak values of 80 µm and 2.5 LP/mm
This is where the Veraview X800 is especially impressive, with an absolutely top performance and uncompromising resolution. Voxel size for images in the Ø 40 mm × H 40 mm field of view (FOV) is a surprising 80 µm – yielding a brilliant resolution of 2.5 LP/mm.

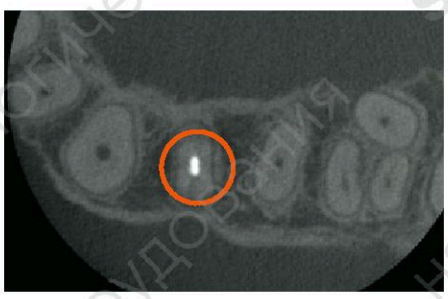
MTF (Modulation Transfer Function) is one way to objectively evaluate the line-pair resolution and objectively expresses how many line-pairs and at what level of contrast can be discriminated. Generally, if MTF is 10%, naked eye discrimination is possible. Spatial resolution does not depend only on voxel size.



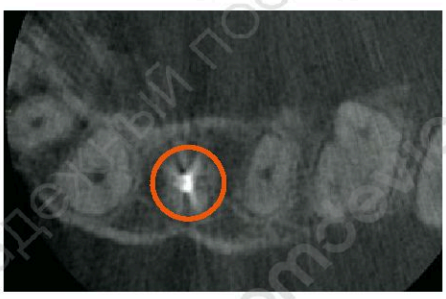
A comparison shows just what that means. The extremely high resolution Veraview X800 image (voxel size 80 µm, resolution 2.5 LP/mm) is more detailed, with less artifacts.



**Veraviewepocs 3D series



High resolution, voxel size 80 µm



Standard, voxel size 125 µm**

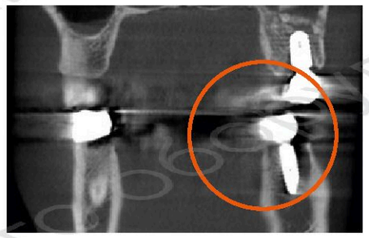
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

Minimal artifacts: Best image quality for the most reliable diagnoses

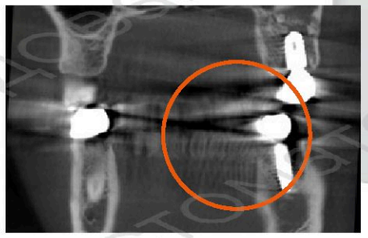
For a clear diagnosis, you need a clear X-ray image. Artifacts in an image can mimic pathological alterations that can even lead to false findings. That's why it's so important to keep these "false positives" from showing up in the first place, and to smooth the way for an unambiguous, reliable diagnosis.

A clever concept: Horizontal X-ray beam for CT and panorama exposure
By shifting the Flat Panel Detector (FPD), the angle of the X-ray beam can be changed from horizontal for CT exposures to 5° up to suppress the obstructing shadow of the hard palate for panorama exposures. By doing this, the unit can make both highquality CT and panorama images.





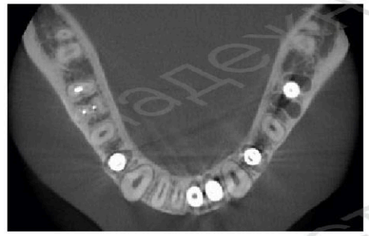
CBCT exposure with a horizontal beam



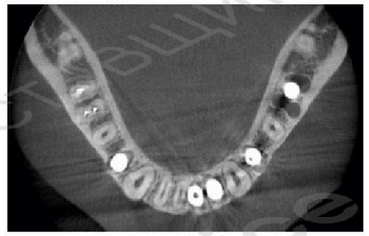
CBCT exposure with a raised beam



Greater image or lower dose: 360° or 180° exposure
If you want to get the greatest possible detail, you can use the 360° mode. But depending on the indication, the 180° mode is also available, which entails a shorter exposure time and a lower radiation dose.



360° mode



180° mode

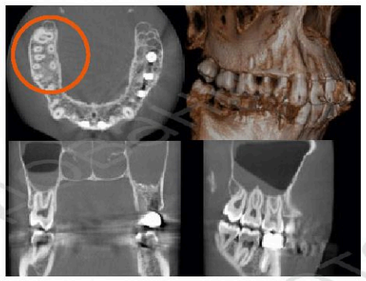
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

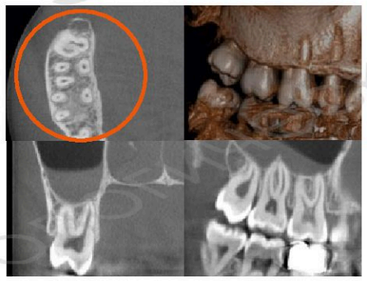
Eleven fields of view: Always a perfect setting

With eleven fields of view (FOVs), the X-ray system provides the diagnostic confidence needed for planning a successful treatment. Following the ALARA principle (as low as reasonably achievable), you can choose the optimum FOV for your diagnostic issue. So you always have the best possible image of the region of interest – even as you minimize the radiation dose.

Field of view (FOV)	Voxel size	180° mode	360° mode	S	M	L
Ø 40 × H 40 High Res	**0.080 mm**					
Ø 40 × H 40	0.125 mm	✓	✓	✓	✓	✓
Ø 40 × H 80						
Ø 80 × H 40	0.125 mm	✓	✓	–	✓	✓
Ø 80 × H 50						
Ø 80 × H 80						
R 100 × H 40 [1]	0.125 mm	✓	–	–	✓	✓
R 100 × H 50 [1]						
R 100 × H 80 [1]						
Ø 150 × H 50 [2]	0.320 mm	–	✓	–	–	✓
Ø 150 × H 75 [2]						
Ø 150 × H 140 [3]						

[1] R100: Dental arch FOV Ø 100 equivalent
[2] Data used equivalent to 180° exposure
[3] Two 360° exposures, upper and lower. Data used equivalent to 180° exposure





New: Zoom reconstruction
Now, for the first time, there's a combined 2D/3D imaging system with a function for zoom reconstruction. From an image with a 125 µm voxel size, you can reconstruct a high-resolution image segment at 80 µm – without having to take another image. This function, however, is not available for the Ø 150 field of view (FOV).



Everything included:
Dental arch FOV function
A uniquely shaped field of view (FOV) with a Ø 100 mm encompasses the entire dental arch. The result: an image of the full dental arch at a low radiation dose.

Smart savings:
Dose reduction function
In areas with low bone density, the applied radiation is easily reduced. That makes it possible to lower the radiation dose to the patient by up to 40% compared to when the function is turned off.

Focused treatment plans:
11 selectable FOV
The broad range of eleven different FOVs answers every dental question – whether in implantology, periodontology, endodontology, oral surgery and orthodontics, or general dentistry.

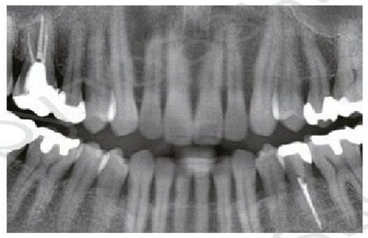
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

stomdevice

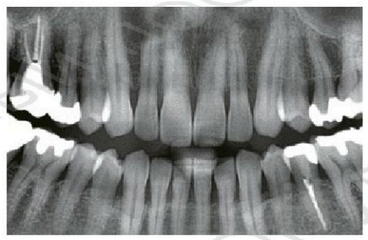
Sharp panoramic images: Brilliant all around

Just for diagnostics or a dental implant – any successful extensive treatment plan relies on a full overview of the teeth and mandibular bone. The Veraview X800, with its numerous innovative functions, offers brilliant opportunities for excellent contrast and consistent high resolution.

Focus on high resolution: The AFP function
The AFP (Adaptive Focal Point) function analyzes multiple layers of exposures. It checks each region, chooses the optimum panoramic layer, and recomposes them into a new image. The result: Everything in the image from the root apex to the incisor region is in perfect focus.



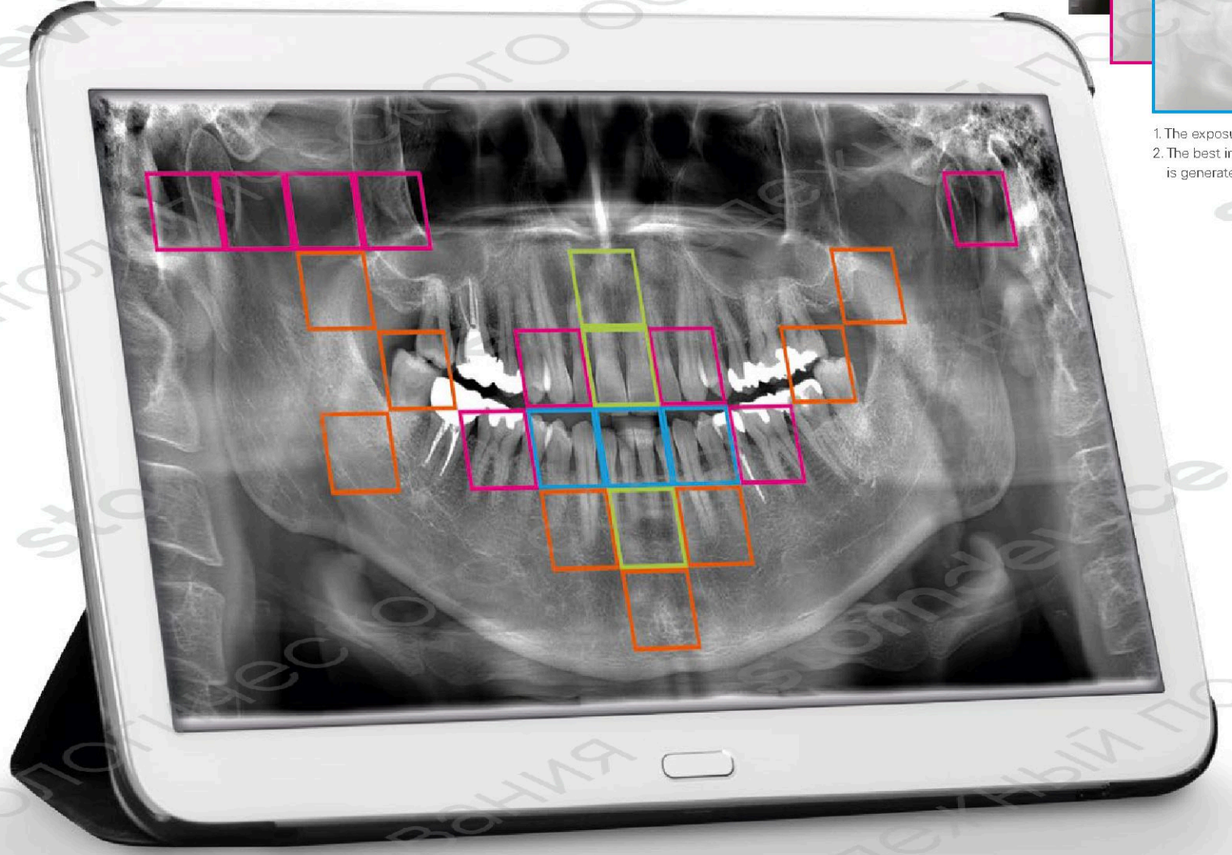
AIE-HD (without AFP)

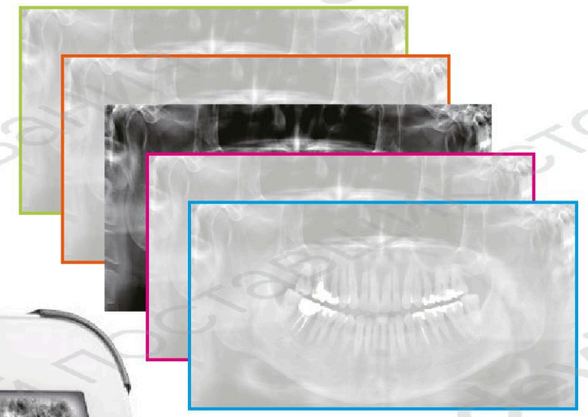


AIE-HD (with AFP)

Real-time dose adjustment: The DDAE function
With the DDAE (Digital Direct Auto Exposure) function, the flat panel detector detects X-ray transparency in real time during an exposure, and then adjusts the amount of X-rays emitted to create images with a significantly improved dynamic range.

The royal road: Combining multiple functions
A number of functions, including AFP, AGS, and AIE-HD, can be combined. The result is images that are consistently in precise focus and clearly show the regions of interest.



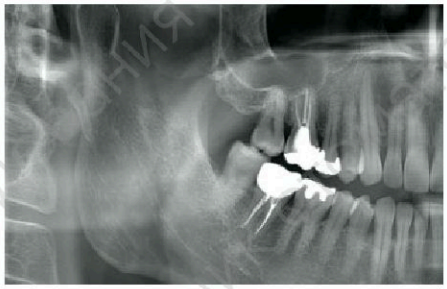


1. The exposures have numerous image layers.
2. The best image layer for an optimum image is generated for each region.

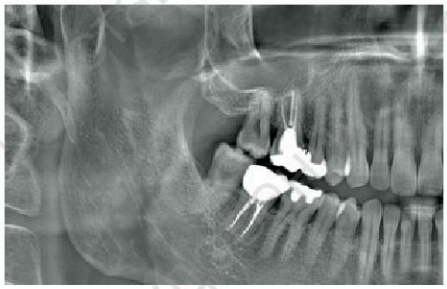
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ



Sharp contrast:
The AGS function
The AGS (Adaptive Gray Scale) function automatically adjusts density to get the best possible contrast clear across the image. As a result, the entire panoramic image is clearly displayed – dental arch, mandibular bone, TMJ and more.

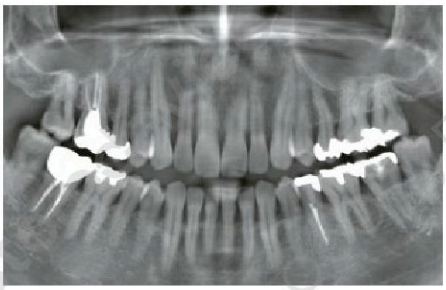


AFP + AIE-HD (without AGS)

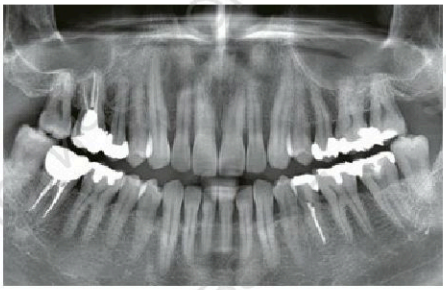


AFP + AIE-HD (with AGS)

Automatic optimization:
The AIE-HD function
The AIE-HD (Auto Image Enhancement – High Definition) function optimizes panoramic image processing to make every detail sharp and clear.



AFP + AGS (without AIE-HD)



AFP + AGS (with AIE-HD)

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

stomdevice

Face-to-face design: Communicating on the same level

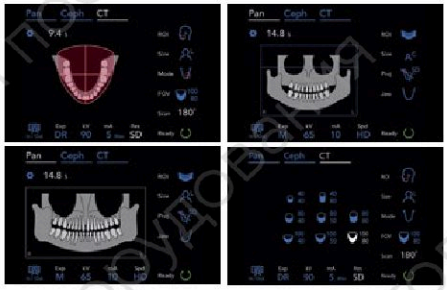
One element of treatment that's often underestimated is communication with the patient – yet it's the foundation for a trusting doctor-patient relationship and can also make treatment procedures significantly easier. It's a point we factored in from the outset in designing the Veraview X800.

Flexible:
A freely movable control panel
The control panel moves freely so it can be used from the front or side, making it easier to position the patient. You can easily set and check everything without taking your eyes off the patient.

Easy: Positioning for direct patient contact
Face-to-face positioning makes it easier both to communicate with the patient and to position the laser beam.

Intuitive: A pictogram user interface
The touch panel works intuitively and effortlessly using pictograms.

Comfortable: Adjustable chin rest for patients of any height
The Veraview X800 is meant to fit the patient – and not vice versa. That's why the chin rest can be lowered to as little as 1,005 mm. Which means that the X-ray system can be precisely adapted to patients of different heights, including those using a wheelchair.



Easier treatments: Direct patient communication



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

stomdevice

Reduce X-ray dose: Less radiation – more protection

X-ray exposure has decreased dramatically since digital imaging systems were introduced – but patient health remains a core concern. That's why we do all we can to keep reducing dose in order to provide the greatest possible protection. In 2D images especially, the Veraview X800 scores with many innovative features.

Smart and smaller:
Partial panoramic images
When you use the partial panoramic mode for 2D images, the focus is pared down to the essentials. The result: The region of interest is clearly visible, while the surrounding areas get a significantly lower dose.

Gentle to the little ones:
Special children's setting
The children's setting for 2D images reduces irradiation time within the desired region. But grown-ups benefit too. Depending on how big the patient is, you can set the unit for a large, average, or small patient and thereby optimize the relationship between benefits and patient dose.

Also considered:
A choice of three image layer orbits
No patient is exactly like any other – people differ not just in size but in many other ways, including the shape of the dental arch. That's why the exposure layer for 2D images can be optimally adjusted to the patient's dental arch. Three types of image layer orbits are available: narrow, standard, and wide.





Custom tailored: Because you select the patient's size, each person gets only the optimal dose for a good image.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ



Bite-wing exposure
To keep the exposed area small for 2D images, bite-wings can be chosen on the left, the right or on both sides, depending on the indication.

Well selected:
Partial cephalometric images
For cephalometric exposures, three regions can be selected individually in order to reduce the X-ray exposure for the patient. All the same, increasing tube voltage to 100 kV still allows high-quality exposures with a resolution of 96 µm.



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

Network integration: Well-networked everywhere

Good network integration and easy image display on a PC or tablet are important technical features that support smooth daily routines.

PC or tablet:
i-Dixel Web
CBCT and 2D images can be displayed on any PC or tablet computer using a conventional web browser without installing any special software, which is convenient and helpful for patient consultation.



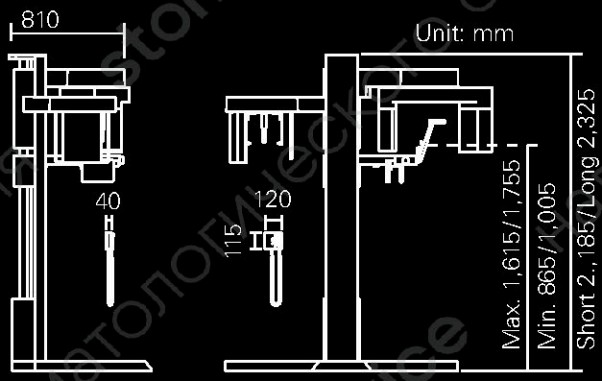
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

Technical specifications: Everything at a glance

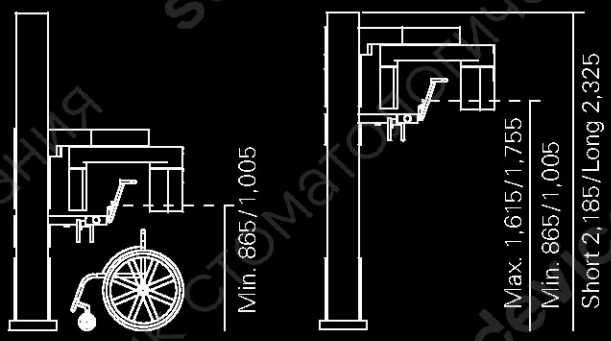
Name:	Veraview X800
Model:	X800
Order selections:	F40 (S) / R100 (M) / F150 (L)
Rating:	AC 220 / 230 / 240 ; 50 / 60Hz
Power Consumption:	2,0 kVA
Weight:	Approx. 185 kg (approx. 220 kg with cephalometric)
Manufacturer:	J. MORITA MFG. CORP.
X-ray Tube Voltage:	60–100 kV (depending on exposure mode)
X-ray Tube Current:	2–10 mA (depending on exposure mode)
Nominal Focal Spot:	0.5
Panoramic Exposures:	High speed mode (standard panoramic) approx. 7.4 sec. Fine mode (standard panoramic) approx. 14.8 sec.
Panoramic Regions: (consistent magnification)	Standard Panoramic – standard, orthographic, shadowless Pedodontic Panoramic – standard, orthographic, shadowless Maxillary Sinus Panoramic – anterior, posterior Quadruple TMJ, partial panoramic, bite-wing exposure Distances measured on a panoramic image are not equal to the actual distances.
CBCT Exposure Time:	Approx. 9.4 sec. (180°) / approx. 17.9 sec. (360°)
CBCT Exposure FOV:	F40P / F40CP (cephalometric extension) - Ø 40 x H 40, Ø 40 x H 80 R100P / R100CP - Ø 40 x H 40, Ø 40 x H 80 - Ø 80 x H 40, Ø 80 x H 50, Ø 80 x H 80 - R 100 x H 40, R 100 x H 50, R 100 x H 80 F150P / F150CP - Ø 40 x H 40, Ø 40 x H 80 - Ø 80 x H 40, Ø 80 x H 50, Ø 80 x H 80 - R 100 x H 40, R 100 x H 50, R 100 x H 80 - Ø 150 x H 50, Ø 150 x H 75, Ø 150 x H 140
Direction and Size:	LA 220 x 250, PA 220 x 200 mm

Wear protective aprons and coverings as necessary during X-ray exposure. The unit must be fixed to the floor and wall when installed. If minimal layout dimensions are used, there may be very little space to move around inside the booth.

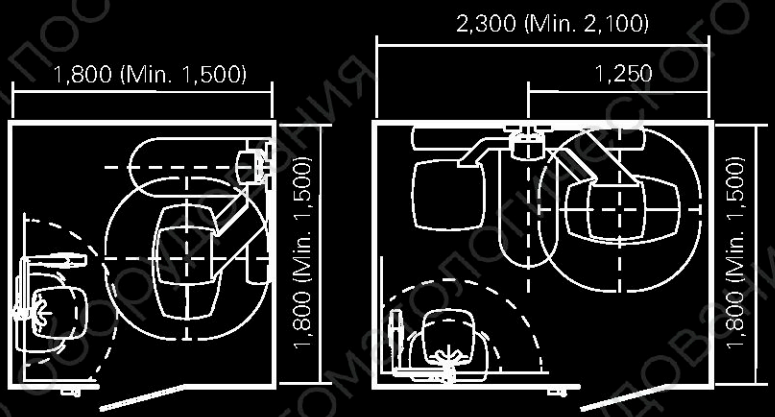
stomdevice



X800 - F40CP / R100CP / F150CP
(Panoramic, cephalometric and CBCT exposures)



X 800 - F 40P / R 100P / F 150P
(Panoramic and CBCT exposures)



stomdevice

Diagnostic and Imaging Equipment

Treatment Units

Handpieces and Instruments

Endodontic Systems

Laser Equipment

Laboratory Devices

MORITA

Distribution
J. Morita Europe GmbH
Justus-von-Liebig-Str. 27a
63128 Dietzenbach
Germany
T +49. 6074. 836 0, F +49. 6074. 836 299
www.morita.com/europe

Development and Manufacturing
J. MORITA MFG. CORP.
680 Higashihama Minami-cho, Fushimi-ku
Kyoto 612-8533
Japan
T +81. 75. 611 2141, F +81. 75. 622 4595
www.morita.com

Subject to technical changes and errors.
JME EN FA 0517 *1.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ