stomdevice



3D Cone beam CT
& Digital Radiography
Dedicated to Otorhinolaryngology

RAYSCAN

доставкой по Росси Г

stomdevice



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

Multi-functional imaging solution

RAYSCAN m+ is an unique 2-in-1 imaging solution, combining Cone Beam CT and Digital Radiography, designed for ENT specialists.



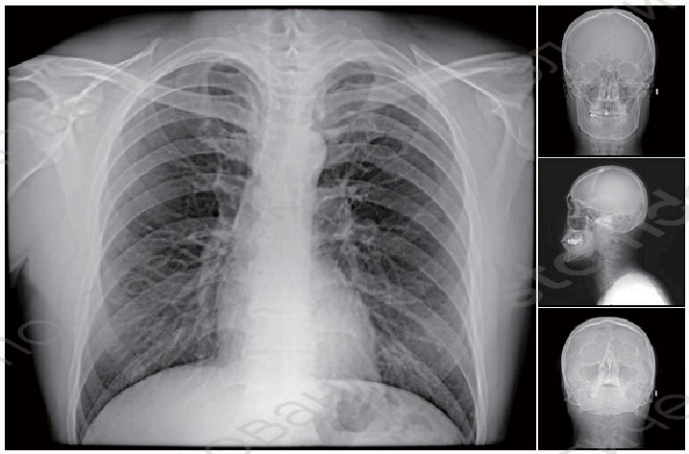
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

stomdevice



3D CBCT applications

- Otology and cochlear Implant
- Neurotology and temporal bone
- Rhinology and sinus surgery
- Pediatric otorhinolaryngology



2D Digital radiography

- Chest exam : PA / AP / Lateral
- Laryngology
- Skull : PA / AP / Lateral / Waters
- Neck

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



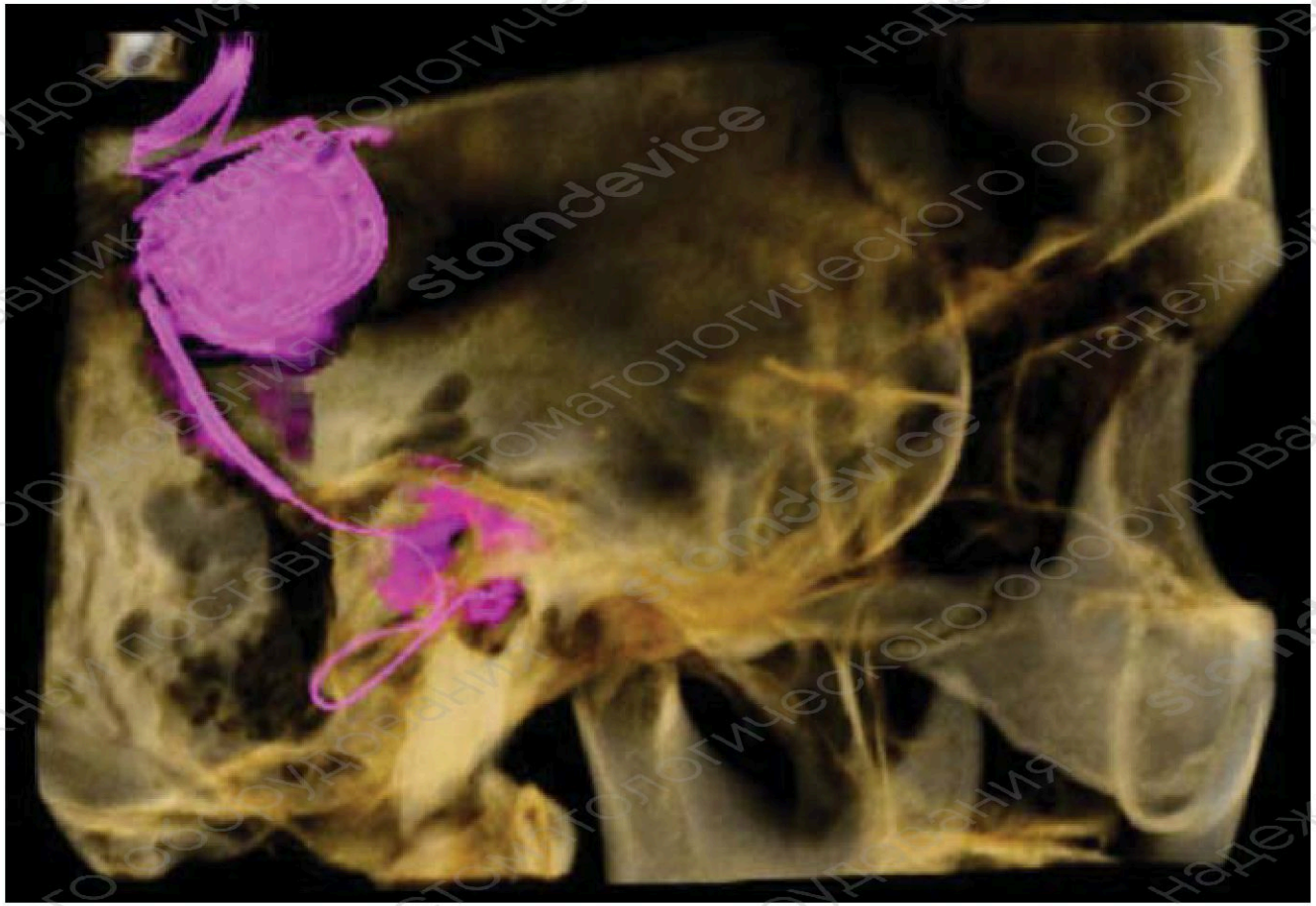
RAYSCAN m+

The state-of-the-art CBCT technology provides more accurate 3D images and 2D digital radiography options lead you to the best possible outcomes

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

stomdevice

Otology & Neurotology



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

Diagnosis › Planning › Treatment

High definition CT quality enables to make precise diagnosis even on small anatomic structures of cochlea and auditory ossicles.

* Images are courtesy of SOREE Ear Clinic







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

Diagnosis 〉**Planning** 〉Treatment

Case study of cochlear implant planning

The application of CBCT to cochlear implant surgery

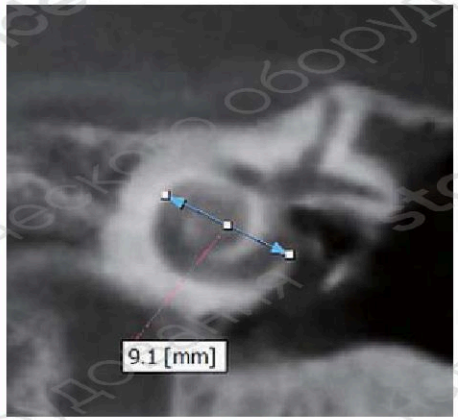
"An accurate measurement of the length of the cochlea is a selection of the optimal type of implant, which is essential for preserving residual hearing as maximally as possible."



Dr. Bae, SC

the principal doctor of the Soree Ear Clinic

"Using a high resolution cone beam CT, a line passing from the round window and the spiral center of the cochlea to its lateral wall can be correctly drawn. Thus,
the length of the cochlea is measured."



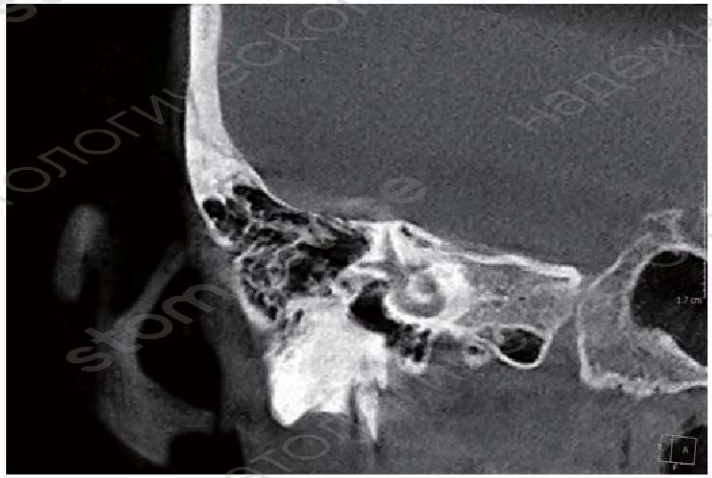
Cochlea length
= 2.62A x ln (1.0+θ/235)
= 2.62A x
ln (1.0+990/235)
(θ=2+3/4turn=990°)

by Escude et al. 2006

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

Diagnosis 〉Planning 〉**Treatment**

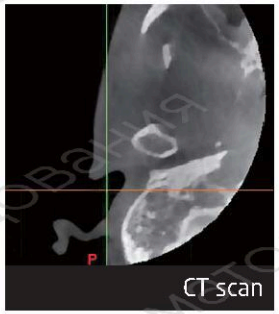
Diagnosis before implant surgery

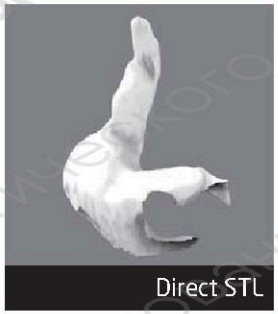


Follow-up after implant surgery



Ray Digital solution I : Hearing Aid CT to shell printing *









* In progress of regulatory approval. Will be available in market soon. **Opened to discuss business partnership**

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

stomdevice

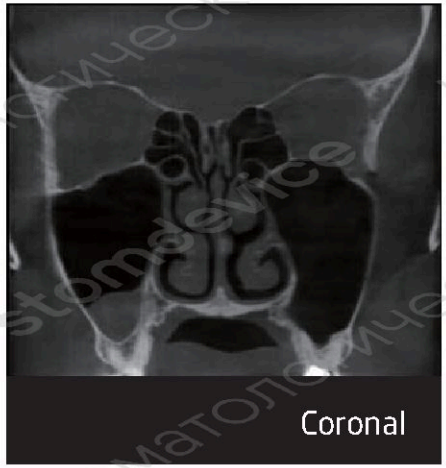
Rhinology & Sinus

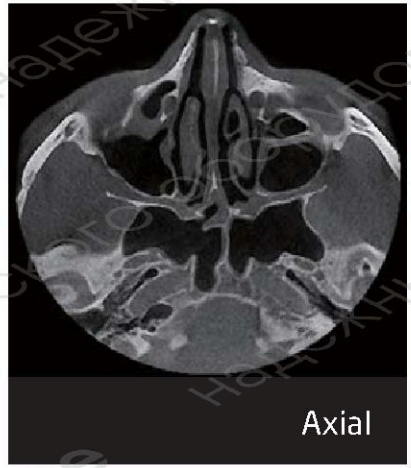


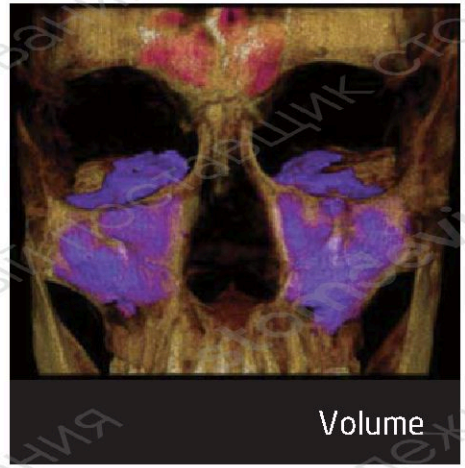
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

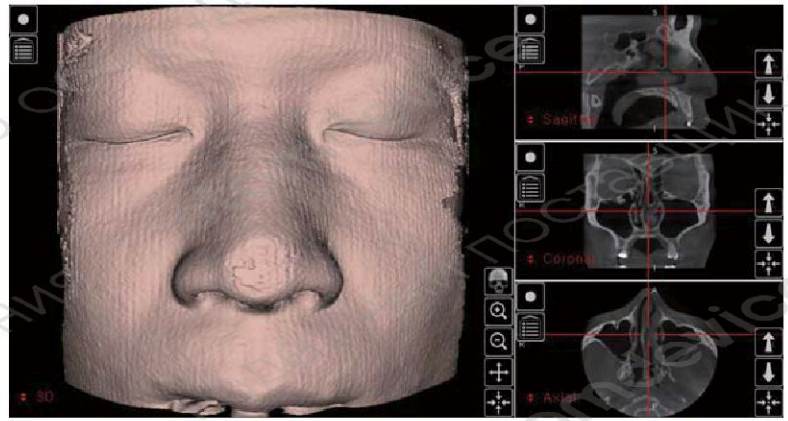
Diagnosis 〉Planning 〉Treatment

Clear 3D images of sinus visualize detailed morphological information among air, bones and soft tissues.
You can see more complete view of the anatomy which is not seen on 2D.


Coronal

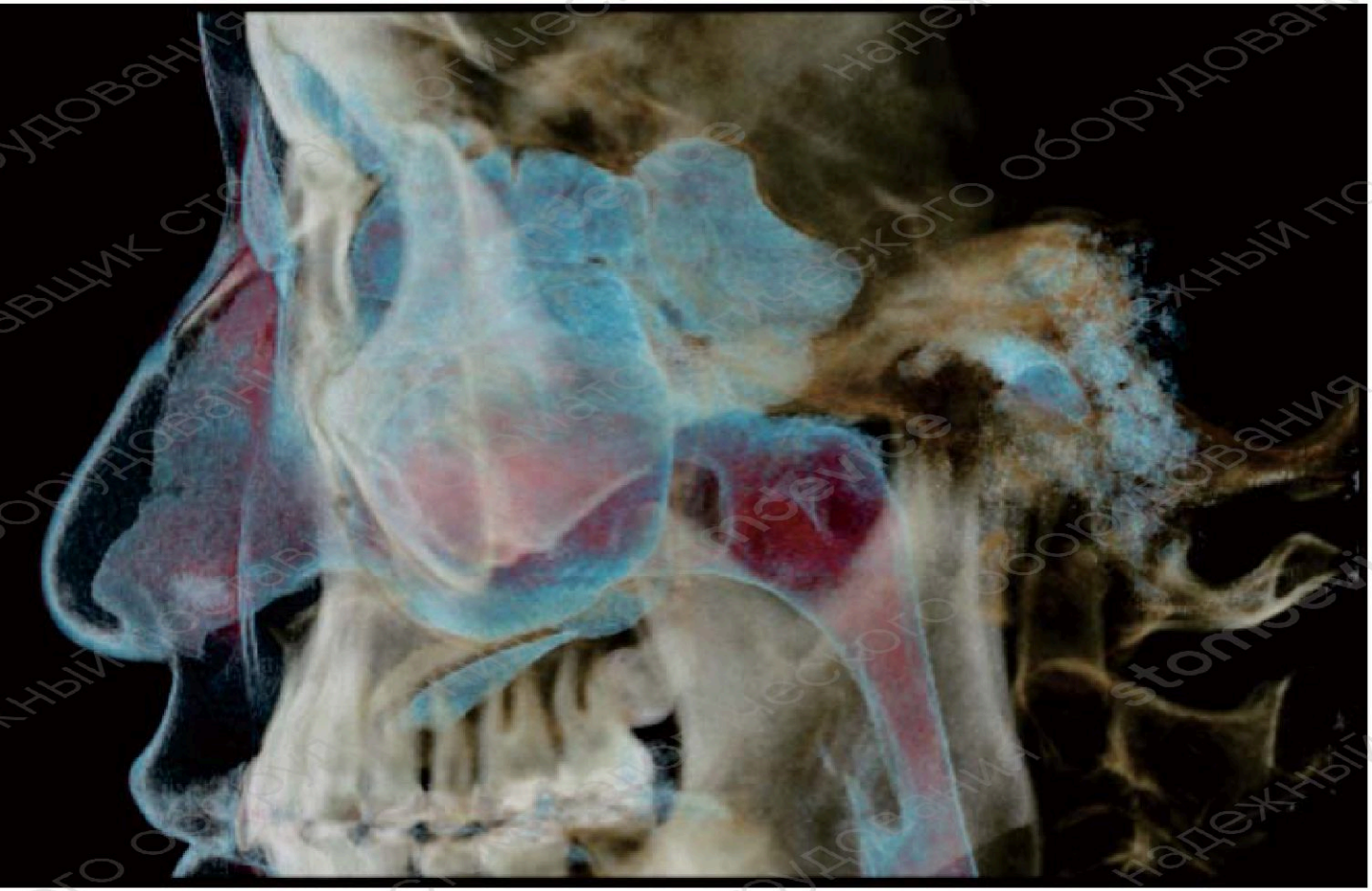

Axial


Volume


Integration with ENT navigation

stomdevice

Sleep Disorder



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

Diagnosis 〉Planning 〉Treatment

RAYSCAN m+ provides 3D CT diagnosis for patient airway related to obstructive sleep apnea(OSA) which can be directly printed for OSA treatment.

Ray Digital solution II : Sleep apnea CT to sleep appliance printing *

1 Patient exam by 3D CT



RAYSCAN m+



Airway diagnosis

2 CT scan of tooth information

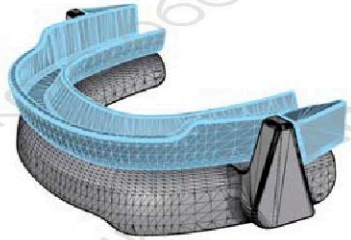


CT Impression Scan



Direct STL

3 Customized OSA by a design lab



OSA Digital Design

4 3D Print@your.clinic



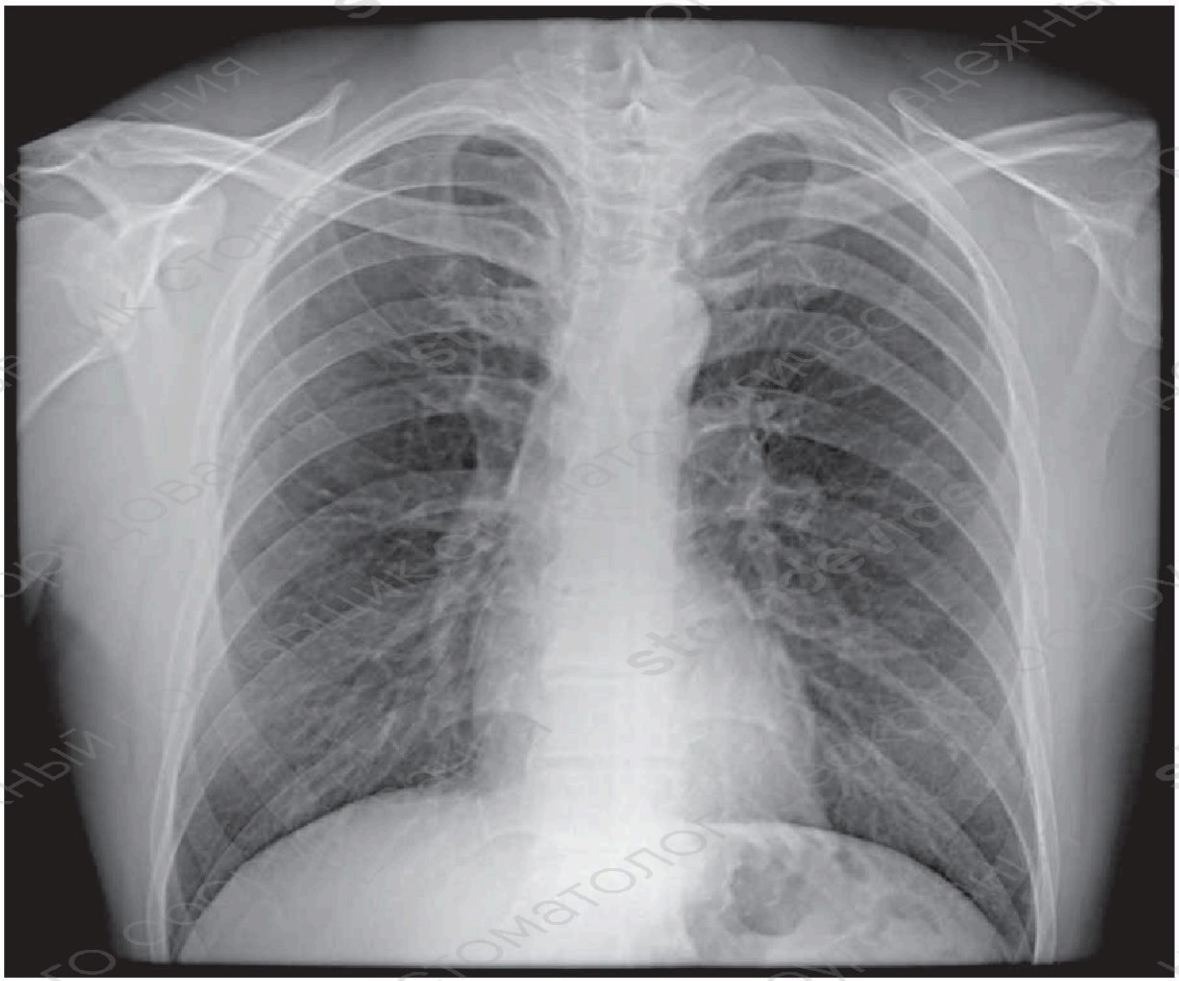
RAYDENT (3D printing)

* In progress of regulatory approval. Will be available in market soon. **Opened to discuss business partnership**

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

stomdevice

2D Radiographic Diagnosis



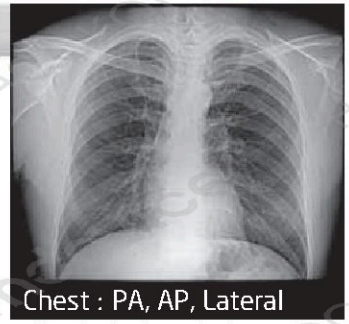
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

Medical grade 2D diagnosis

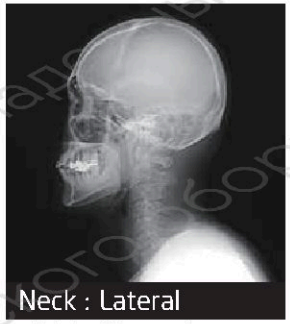
Medical grade detectors provide high resolution images for each clinical practice.



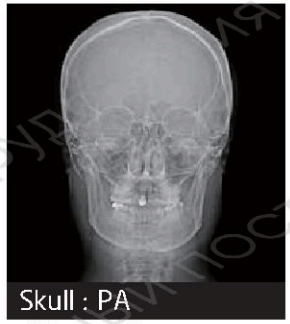
43x43 cm
a-Si Detector
127um



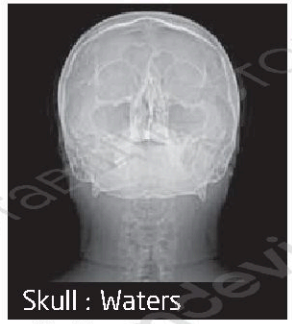
Chest : PA, AP, Lateral
- Foreign body aspiration
- Lung condition



Neck : Lateral
- Epiglottitis, esophagus, trachea
- Sphenoid, frontal, ethmoid adenoids, tonsils, cervical vertebrae



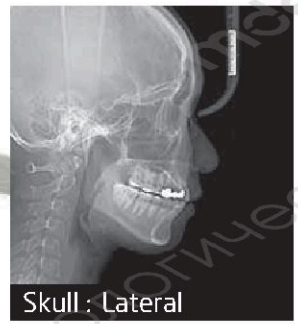
Skull : PA
- Maxillary sinus



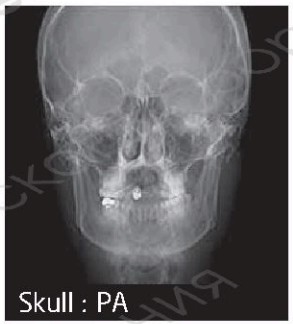
Skull : Waters
- Maxillary sinus



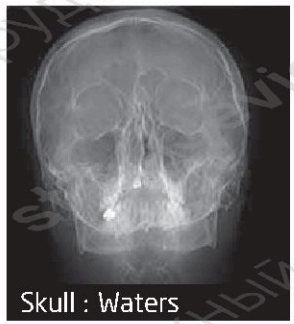
26x24 cm
CdTe Detector*
100um
* Direct conversion



Skull : Lateral
- Epiglottitis, esophagus, trachea
- Sphenoid, frontal, ethmoid adenoids, tonsils



Skull : PA
- Maxillary sinus



Skull : Waters
- Maxillary sinus

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

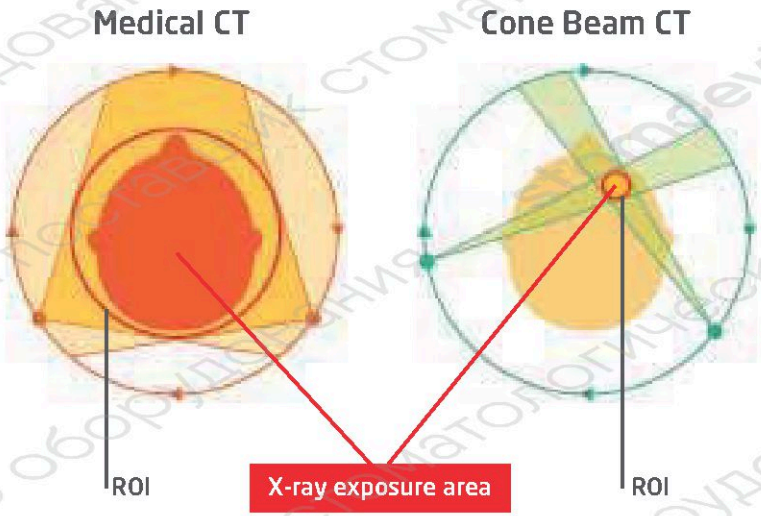
stomdevice

Our ways toward patient safety

High ← **Dose Level**

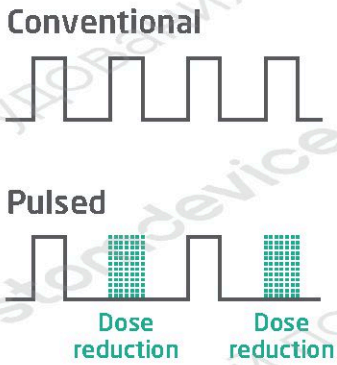
1 Less radiation dose with Cone Beam CT

Cone Beam CT has lower radiation dose than conventional medical CT exam, according to many known scientific papers. A key ability of cone beam CT is to change the field-of-view by modulating the cone beam width. Tight beam-width and shorter scans also contribute to reducing radiation doses.



2 Short Pulsed X-ray

Pulsed X-ray operates to admit short pulse of X-ray into patient that relatively reduce radiation dose than continuous one.

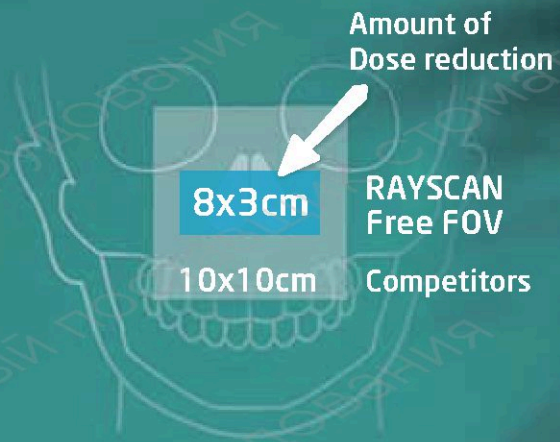


https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

Low

3 Visible Light Guide

Simply move the visible guiding light to select the area of interest for diagnosis.



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

stomdevice



Wide touch screen

- 10" wide monitor and intuitive user interface
- Image preview to verify your exam

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

Single touch of practice operations

Wireless remote control

High sensitivity and non-directional make easy operation

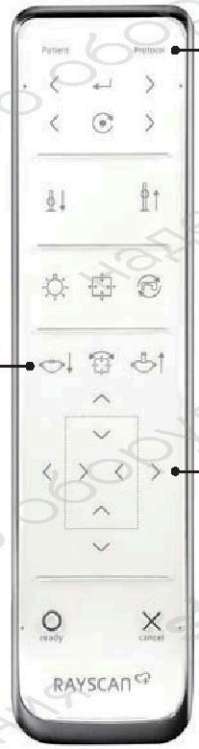
Protocol selection



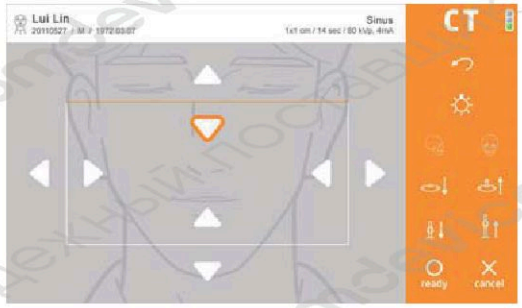
Motorized positioning

Motorized height adjustment
to set correct patient position





Free FOV / Light Guide



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

stomdevice

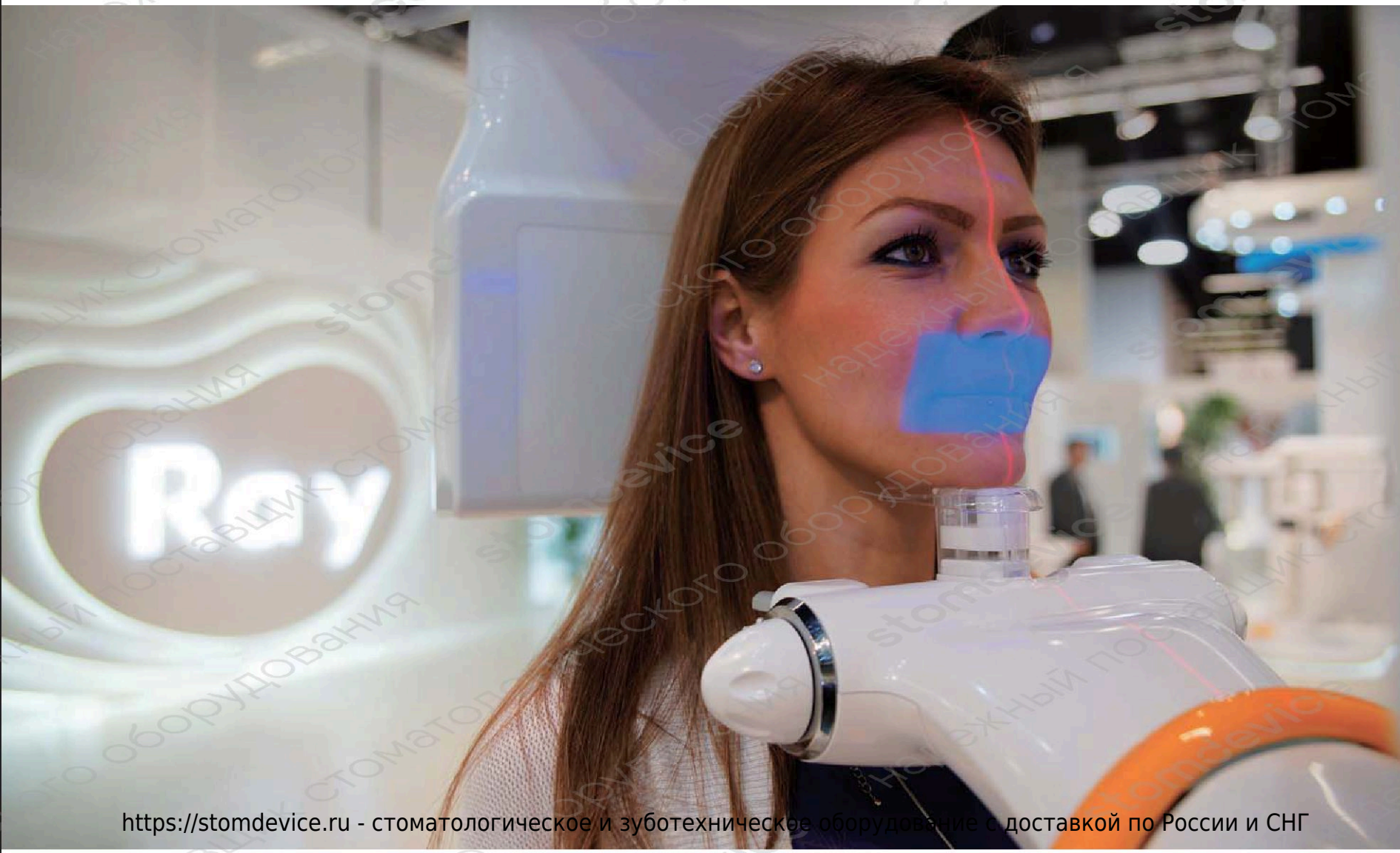
Clinical field-of-views

3D Applications			Free FOV (Light Guide Range) Min.(cm)	Free FOV (Light Guide Range) Max.(cm)
ENT	Sinus		12x3	15x10
ENT	Ear		L/R 12x6 Both 12x6	16x10
OSA	TMJ		L/R 8x6 Both 12x6	12x10 16x10
OSA	Airway		12x3	16x10
OSA	Jaw		8x3	12x10

2D Applications			Free FOV (Light Guide Range) Min.(cm)	Free FOV (Light Guide Range) Max.(cm)
DR	Chest		8x8	42x42
DR • Scan Ceph	LAT		8x8	42x42 • 26x24
DR • Scan Ceph	PA/AP		8x8	42x42 • 26x24
DR • Scan Ceph	Waters		8x8	42x42 • 26x24
DR • Scan Ceph	Carpus		8x8	42x42 • 26x24

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

Light Guide Free FOV



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

stomdevice

Technical specifications

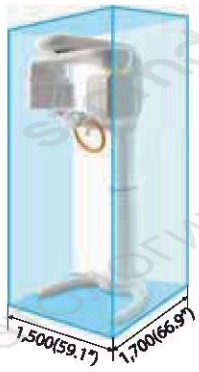
RAYSCAN m+ (Model: RCT710)

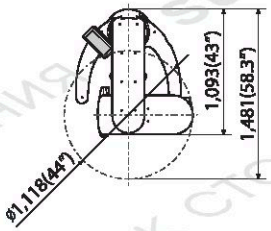
Specifications are subject to change without prior notice.

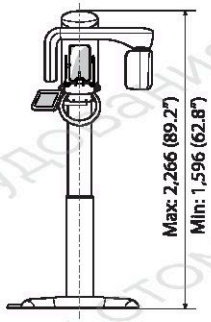
Patient positioning	Standing (wheelchair accessible)		
Focal spot	0.5mm		
Tube current	4~17mA		
Tube voltage	60~90kVp		
Detector type	CT (Default)	Scan Ceph (Option)	DR (Option)
	CMOS	CdTe detector	a-Si TFT
FOV / Image size	Max. 16x10cm	Max. 26x24cm	Max. 42x42cm
Free FOV support	Yes	Yes	Yes
Voxel / Pixel size	180~400μm	100μm	127μm
Exposure time	14sec	4.9~9.9sec	Max. 3sec (0.2~0.8)

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

CT

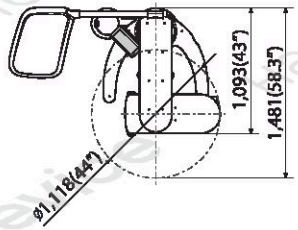


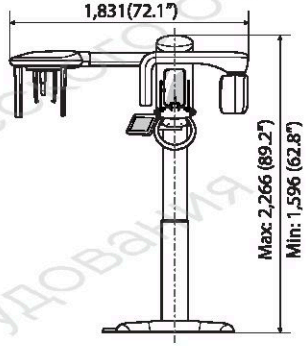




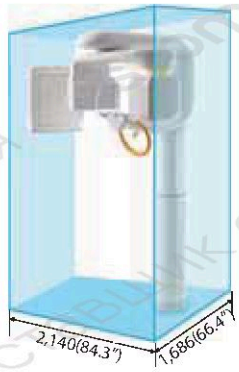
Scan Ceph

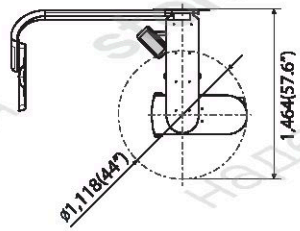


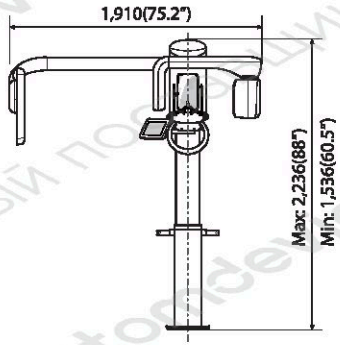




DR







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

stomdevice

Ray Digital solution

Opened to discuss strategic partnership.

For more information or inquiries,
please visit **www.raymedical.com**
or contact your local representative.

Design and specifications are subject to change without notice.

Ray Co., Ltd.

332-7, Samsung!-ro, Hwaseong-si, Gyeonggi-do, 18380, Korea
Phone +82.31.605.1000
Email ray_overseas@raymedical.co.kr
Web www.raymedical.com

RBS-MOZ(rev.C)

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