Cone Beam 3D Imaging
NewTom
what's next

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According to the standards in force, in extra-EU areas the availability and specifications of some products and/or characteristics may vary. Please contact your local distributor for further information. Pictures are for illustration purpose only.

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UNLIMITED DIAGNOSTIC POTENTIAL

DC III

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TECHNICAL SPECIFICATIONS.

2D images		
2D version	**PAN Standard | PAN DC^{III}**	**CEPH Standard | CEPH DC^{III}**
Main Examinations	▪ Panoramic Multilayer ▪ Quadrants, ▪ Bitewing ▪ Maxillary Sinuses (AP and LL) ▪ TMJ PA-LL	Adds, with respect to the PAN version, teleradiography ▪ Latero-Lateral ▪ Antero-Posterior ▪ Carpus
Child examination	Yes	Yes
Maximum resolution	6.3 - 7.5 lp/mm (Pixel 70-80 µm)	5.6 lp/mm (Pixel 90 µm)
Contrast level	23% (at 3 lp/mm) | 43% (at 3 lp/mm)	32% (at 2.5 lp/mm) | 82% (at 2.5 lp/mm)
Maximum size (cm)	26 (length); 15 (height)	29-30 (length); 22-23 (height)
Reduced size (cm)	Length x Height ▪ 22 x 13 (Child PAN); ▪ 17 x 12 (Complete DENT) ▪ 13 x 9 (BITEWING Right or Left)	Length x Height ▪ 21-22 x 22-23 (Adult) ▪ 29-30 x 20 (Child) ▪ 21-22 x 20 (Child)
Maximum image data size	8 MB	14 MB
Magnification factor	PAN 1.25 (constant)	1.13
ECO Scan scan time	Adult: 6 s | Child: 5.7 s	Low Adult: 4.5 s | Child: 3.2 - s 3.3 s
Standard scan time	Adult: 12.3 s | Child: 11.2 s	Complete Adult: 7.5 - 9 s
Advanced filters	ApT (Autoadaptive picture Treatments)	
FULL-TOUCH 10"** console and Multimedia Pack on-boardthe machine	Optional	

3D images			
3D version	**PRIME**	**ADVANCED**	**PROFESSIONAL**
Main Examinations	Compared to the 2D version, it features 3D analysis of: ▪ 2 dental arches in a single scan for adults and children with reduced collimation; ▪ maxillary region with maxillary sinuses; ▪ studies localised to DENTAL region of interest or to single TMJ.	Compared to the PRIME version, it features 3D analysis of: ▪ upper airways, either complete or partial, with variable collimation for frontal sinuses, nose and throat; ▪ zygomatic implants; ▪ one internal ear; ▪ localised study of few teeth with maximum collimation or maximum effective resolution for endodontic examinations or to evaluate micro-fractures.	Compared to the ADVANCED version, it features 3D analysis of: ▪ the whole Dental-Maxillofacial region; ▪ both ears; ▪ panoramic view with two temporomandibular joints; ▪ cervical column.
Child examination	Yes	Yes	Yes
Resolution	Voxel from 68 - 300 µm	Voxel 68 - 300 µm	Voxel 68 - 300 µm
Maximum field of view (cm)	10 (diameter); 8 (height)	13 (diameter); 16 (height)	16 (diameter); 18 (height)
Available fields of view FOV Diameter x Height (cm)	▪ 10 x 8; 10 x 6; 8 x 8; 8 x 6; 6 x 6	▪ 13 x 16; 13 x 14; 13 x 10; 13 x 8; 10 x 10; ▪ 10 x 8; 10 x 6; 8 x 8; 8 x 6; 6 x 6	▪ 16 x 18; 16 x 10; 15 x 6; ▪ 13 x 16; 13 x 14; 13 x 10; 13 x 8; 10 x 10; ▪ 10 x 8; 10 x 6; 8 x 8; 8 x 6; 6 x 6
3D eXtra Functions* FOV Diameter x Height (cm)	4 x 4	9 x 9; 7 x 6; 4 x 4	9 x 16; 9 x 9; 7 x 6; 4 x 4
Maximum image data size	< 495 MB	215 MB – 820 MB	360 MB – 820 MB
ECO Scan scan time (exposure time)	6.4 s (0.9 s - 1.6 s)	3.6 s – 26 s (0.9 s – 4.8 s)	3.6 s – 26 s (0.9 s – 4.8 s)
Regular Mode scan time (exposure time)	14.4 s (3.6 s)	14.4 s – 28.8 s (3.6 s – 7.2 s)	14.4 s – 28.8 s (3.6 s – 7.2 s)
Best Quality scan time (exposure time)	26.4 s (5.2 s – 8 s)	16.8 s – 33.6 s (5.2 s – 10.4 s)	16.8 s – 33.6 s (5.2 s – 10.4 s)
Mean image viewing time	Minimum: 1 s	Minimum: 1 s	Minimum: 1 s
Advanced filters (optional)	aMAR (auto-adaptive Metal Artifact Reduction)		
FULL-TOUCH 10" on-board console**	Supplied, except for the PRIME version (optional)		
Multimedia Pack and Real Vision Suitable FOV	Optional in configurations with FULL-TOUCH Panel		

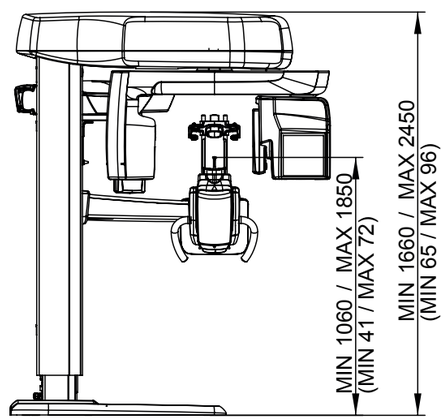
*optional
**always included for versions distributed in the USA and CANADA

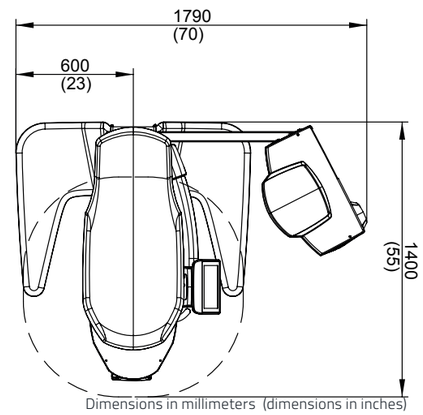
Specifications subject to change without prior notice.

Available on the App Store

CE 0051

X-ray generator	
Generator type	Constant high frequency potential:100-180 kHz
Anode voltage	**2D**: 60 kV – 85 kV | **3D**: 90 kV (Pulsed mode)
Anode current	2 mA - 16 mA
Focal spot	0.5 mm (IEC 60336) - Fixed anode
Exposure Control	Auto-Adaptative with intensity modulation during rotation –SafeBeam™ Technology
Maximum continuous anode input power	42 W (1:20 at 85 kV/10 mA)
Inherent filtration	**2D**: >2.5 mm Al eq. (at 85kV) | **3D**: 6.5 mm Al eq. (at 90 kV)
Image Acquisition	
Detector type	**2D**: traditional with scintillator (CsI) or Direct Conversion (DC^{III} technology) **3D**: high resolution Amorphous Silicon (CsI)
Image Dynamic Range	**2D Standard**: 14 bit (16384 grey levels) **2D DC**: 16 bit (65536 grey levels) | **3D**: 16 bit (65536 grey levels)
Ergonomics	
Patient alignment	Supported by 4 laser guide lights marking reference planes and height of the FOV
Patient positioning	7 head contact points
Adjustments	On-board keypad and/or virtual console for iPad (2-speed height drive)
Examination selection	Virtual console on PC, Windows tablet and/or iPad and from Full-Touch 10" on-board console
Notes	Easy access for patients in wheelchairs
Connectivity	
Connections	LAN / Ethernet
Software	NNT (ISDP©10003:2020 compliant in accordance with EN ISO/IEC 17065:2012 certificate number 2019003109-2) and iPad App - NNT viewer (free), STL (RealGUIDE)
Supported protocols	DICOM 3.0, TWAIN, VDDS, CLOUD shared (RealGUIDE)
DICOM nodes	IHE compliant (Print; Storage Commitment; WorkList; MPPS; Query/Retrieve)
App iPad	Virtual control panel for the device and for the NNT 2D viewer
IOT - Remote Monitoring	Di.V.A. WEB-based applications & Easy Check with profiled user access (ISDP©10003:2020 compliant in accordance with EN ISO/IEC 17065:2012 certificate number 2020003704-2)
Installation	
Minimum available work space requirement	**2D** and **3D PAN**: 1.4 x 1.2 m (55" x 47") - **2D** and **3D CEPH**: 1.4 x 1.79 m (55" x 70")
Package dimensions (L) x (D) x (H) in mm	Machine Base: 1515 x 1750 x 670 mm - CEPH application: 1030 x 530 x 360 mm
Weight	**2D PAN**: 155 Kg – 342 lbs | **2D CEPH**: 175 Kg – 386 lbs **3D PAN**: 155 Kg – 342 lbs | **3D CEPH**: 175 Kg – 386 lbs
Accessories	Wall bracket even at 45° or floor support, free standing base available User-friendly for patients on wheelchair
Power supply	
Voltage | Frequency	115 - 240 Vac, +/- 10% | 50/60 Hz +/- 2 Hz
Maximum absorbed surge current	20 A at 115 V; 12 A at 240 V
Absorbed power in stand-by mode	20 Watt
Notes	Automatic adaptation for voltage and frequency





Dimensions in millimeters (dimensions in inches)