

TECHNICAL SPECIFICATIONS.

2D version	2D images	
	PAN Standard	PAN DC ^{III}
Main Examinations	<ul style="list-style-type: none"> Panoramic Multilayer Quadrants, Bitewing Maxillary Sinuses (AP and LL) TMJ PA-LL 	Adds, with respect to the PAN version, teleradiography <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 22 x 13 (Child PAN); 17 x 12 (Complete DENT) 13 x 9 (BITEWING Right or Left) 	Length x Height <ul style="list-style-type: none"> 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" control panel on-board the machine*	Optional	

3D version	3D images		
	PRIME	ADVANCED	PROFESSIONAL
Main Examinations	Compared to the 2D version, it features 3D analysis of: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> the whole Dental-Maxillofacial region; both ears; panoramic view with two temporomandibular joints; cervical column.
Child examination	Yes	Yes	Yes
Resolution	Voxel 75 - 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)	<ul style="list-style-type: none"> 10 x 8; 10 x 6; 8 x 8; 8 x 6; 6 x 6 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 (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 (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	aMAR (auto-adaptive Metal Artifact Reduction)		
FULL-TOUCH 10" on-board console**	Supplied, except for the PRIME version (optional)		

*optional

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

Specifications subject to change without prior notice.



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)

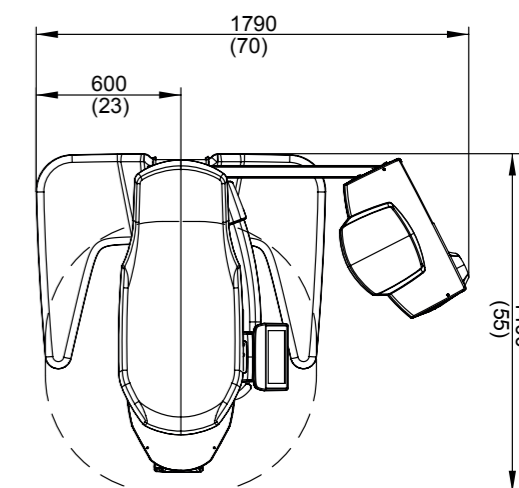
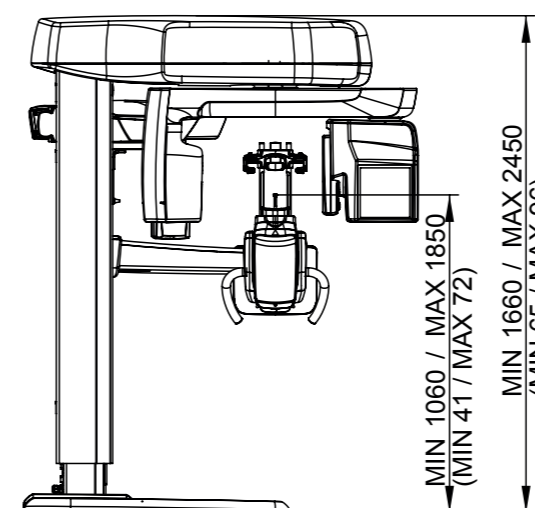
Image Acquisition	
Detector type	2D: traditional with scintillator (CsI) or Direct Conversion (DC ^{III} technology) 3D: high resolution Amorphous Silicon (CsI)
Image Dynamic Range	2D Standard: 14 bit (16384 grey levels) 2D DC: 16 bit (65536 grey levels) 3D: 16 bit (65536 grey levels)

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 2019003109-1) with Viewer software, free
Supported protocols	DICOM 3.0, TWAIN, VDDS
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

Installation	
Minimum available work space requirement	2D and 3D PAN: 1400 x 1200 mm - 2D and 3D CEPH: 1400 x 1790 mm
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)