

# TECHNICAL SPECIFICATIONS.

## X-RAY SOURCE

Type	High frequency generator (constant potential DC), rotating-anode X-ray tube <b>20 kW (Rated Power)</b>	
Focal spot	0.3 mm - 0.6 mm (IEC 60336)	
Total Filtration	21 mm Al eq. @ 70kV (of which inherent Filtration 1 mm Al eq.) @ 70kV)	
Anode Voltage	70 - 120 kV (selectable in 10 kV steps)	
Anode Current	Focal spot 0.3 mm → 5 - 54 mA (selectable in 1 mA steps) Focal spot 0.6 mm → 55 - 120 mA*(selectable in 1 mA steps) *The max kV available for use may vary according to mA	
Maximum continuous anode input power	120W (120kV; 5mA; 8ms; 17x17; REGULAR)	

## DETECTOR

Technology	Amorphous silicon flat panel (Csl)
Pixel Size	154 µm
Dynamic range	16 bit (65,536 grey levels)

## 3D IMAGE ACQUISITION

Anatomical regions under diagnostic investigation Adult - Child	<b>Head neck:</b> dental-maxillofacial complex, teeth, upper and lower jaws, temporo-mandibular joint (TMJ), ear, nose and throat (ENT), cervical spine. <b>Body:</b> sections of the spine, upper limbs including the shoulder, lower limbs including the hip.			
Scan technology	Cone Beam TC - Partial or complete rotation (360°)			
Exposure control	<ul style="list-style-type: none"> <li>Manual mode: parameter selection (± 10 kV, ± 1 mA)</li> <li>Automatic <b>SafeBeam™</b> mode adapts exposure factors on the basis of patient build and the anatomical area</li> </ul>			
Scan protocols - for each FOV	Low Dose (ECO)	Regular	Enhanced	Best Quality
Scan times	7.2 s - 10 s	14.4 s	14.4 s - 18 s	19.2 s - 26 s
Emission times	1.4 s - 4.6 s	2.8 s - 6.1 s	2.8 s - 6.1 s	3.8 s - 8.8 s
CBCT EXAMS	BODY VERSION		BODY PLUS VERSION	
	INCLUDE		ADD	eXtra Functions
*eXtra extended FOVs	17 x 32* cm	13 x 12 cm	29 x 30* cm	29 x 56* cm
	17 x 22* cm	13 x 8 cm	29 x 17 cm	29 x 43* cm
	17 x 17 cm	13 x 6 cm	29 x 12 cm	21 x 56* cm
	17 x 12 cm	10 x 10 cm	24 x 30* cm	21 x 43* cm
	13 x 32* cm	8 x 8 cm	24 x 17 cm	17 x 62* cm
	13 x 17 cm	8 x 6 cm	21 x 30* cm	17 x 47* cm
	15 x 6 cm	6 x 6 cm	21 x 17 cm	13 x 62* cm
	-	4 x 4 cm	-	13 x 47* cm
				40* x 17 cm
Voxel Size resolution	Variable according to used scan protocol (from 90 µm to 500 µm)			
Reconstruction time	Less than 1 minute			

## 2D IMAGE ACQUISITION

FUNCTIONS	Ray2D	CineX	Cine-Scout
Type	Single Shot X-ray for static analysis	Multi-Shot X-ray, variable duration for dynamic analysis	
Info	Equivalent to a Scout View	Remote execution with repositioning scout image	Examination start and display on board machine via foot control and monitor
Source-Detector distance	Fixed 980 mm		
Projection angle	Variable ±5° (position can be selected by user)		
Transparency size (FOV on patient)	30 cm x 30 cm (17 cm x 17 cm)		
Scan time	0.015 - 0.6 s	1-36 s @ 25fps	1-36 s @ 12fps
Emission time	0.015 - 0.6 s	0.25 - 9 s	0.18 - 6.48 s
Automatic exposure control	Manual parameter selection (± 10 kV, ± 1 mA, ±Δt ExposureTime)	Automatic SafeBeam™	Manual parameter selection (± 10 kV, ± 1 mA, ±Δt ExposureTime)
Maximum X-ray load	72 mAs	777 mAs	
Image format	DICOM or JPEG	DICOM / AVI	DICOM / AVI

## POWER SUPPLY

Voltage   Frequency	230 V ~ (± 10%)   50/60 Hz (± 1%)
Maximum power absorption	16 A
Absorbed current	2 A (stand by)
Notes	Power supply values other than those indicated require the use of an adapter/converter (not supplied)

## ERGONOMICS

Large gantry	Aperture 77 cm (30")
On-machine console	2 or 4 10" full touch screens that can be positioned right or left, front or rear
Examination selection	Protocols can be personalised via the on-machine console or from a PC workstation
Patient table	220 cm long, 45 cm wide (with soft folding mattress)
Patient table load capacity	215 kg (200 kg patient + 15 kg accessories)
Patient positioning	Examinations can be performed with the patient lying down or seated at the rear with position selection from console (Prone or Supine; Decubitus Right or Left; with Head or Feet facing forwards)
Patient Alignment	Servo-assisted + 3 Laser guides (Class 1 - IEC 60825-1) - 3D: 4x Scout View; XF Pack: 4x Scout view - CineX: 1 ScoutView
Patient positioning	Soft head cushion and stability bands plus other dedicated radio-transparent supports Head rest can be adjusted from 0 to 45°, with carbon fibre support and cushion
Adjustments	3-axis, 2-speed powered patient table: control on board machine. Longitudinal excursion: 0 cm - 148 cm   Vertical: 57.5 cm - 88 cm   Lateral: -10.8cm - +10.8 cm
Other functions	Patient monitoring system with video cameras and intercom to observe and communicate from the remote workstation
User interface software	Multi-Language: Italian, English, French, German, Spanish, Portuguese, Greek, Polish, Finnish, Swedish, Dutch, Czech, Bulgarian, Hungarian, Turkish, Lithuanian, Ukrainian, Russian, Chinese.

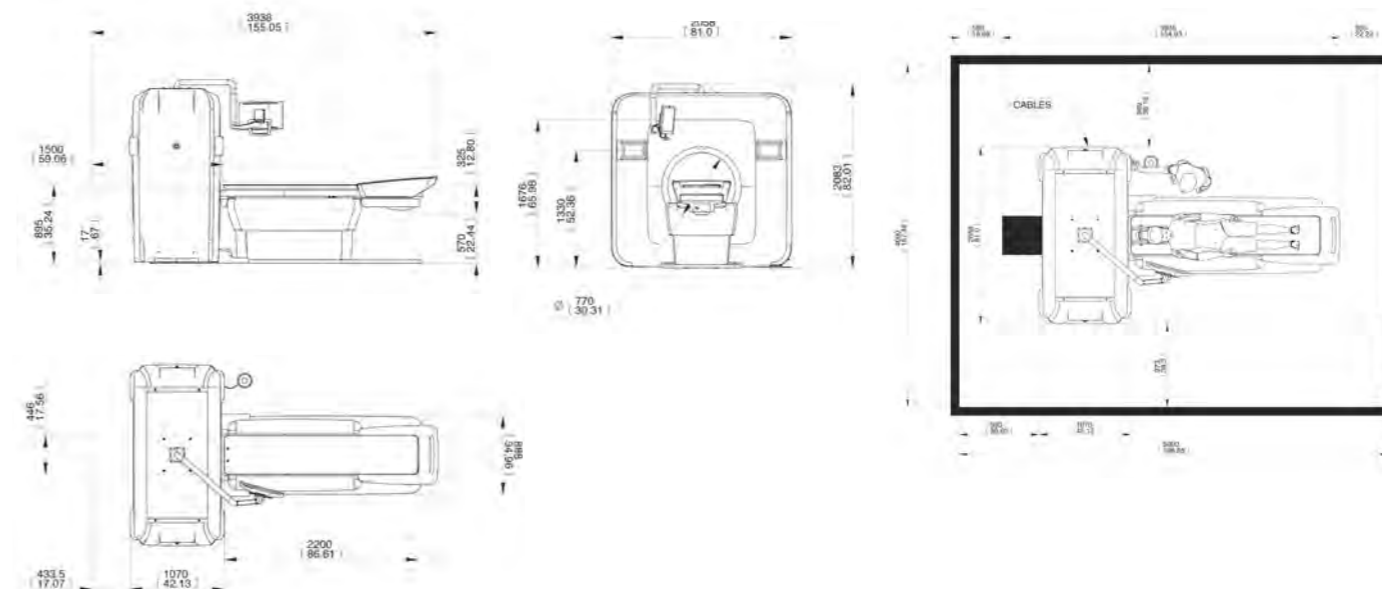
## CONNECTIVITY

Connections	LAN / Ethernet
Software	NewTom NNT (compliant with ISDP®10003:2020 in accordance with EN ISO/IEC17065:2012 - certificate number 2019003109-1) and iPad NNT viewer app (free), STL (RealGUIDE)
Supported protocols	DICOM 3.0, TWAIN, VDSS, CLOUD sharing (RealGUIDE)
DICOM nodes	IHE compliant (Print; Storage Commitment; SR document; WorkList MPPS; Query/Retrieve)

## INSTALLATION REQUIREMENTS

COMPOSITION	SCANNING UNITS	PATIENT TABLE
Maximum dimensions (L x D x H) complete with optional components	2050 mm x 1070 mm x 2083 mm - (80,7" x 42" x 82")	2200 mm x 888 mm x 895 mm - (86,6" x 34,9" x 35,2")
Package dimensions (L x D x H)	2200 mm x 1417 mm x 2207 mm - (87" x 56" x 87")	2450 mm x 1130 mm x 1100 mm - (96,5" x 44,5" x 43,5")
Weight with packaging	1020 kg (2249 lb)	590 kg (1300 lb)
Accessories	Cine-Scout Pack (monitor and foot control for on-machine emissions confirmation)	
Minimum space requirement (L x D)	Footprint: 3938 mm x 2050 mm (155" x 80.7") Room: 5000 mm x 4000 mm (lateral access to device required for assistance)	
Total weight of installed device complete with optional components	1050 kg (2315 lb) exerted on the footprint area stated above	

Specifications subject to change without prior notice.



Dimensions in centimetres  
(dimensions in inches)



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