

CHANGING the FACE of DENTISTRY



NewTom3G

Cone Beam CT
3D Dental Imaging System



MANUFACTURED BY QR SRL,
AN AFP IMAGING COMPANY

See the full picture:

add a 3rd dimension to your patient evaluation to diagnose more effectively.

EXAMINATION	EFFECTIVE DOSE (ICRP tissue weights -2005)	EQUIVALENT PANORAMIC DOSE (ICRP tissue weights -2005)
PANORAMIC	13.0	1
NEWTom3G	56.5	4
OTHER CONEBEAM1	101.5	8
OTHER CONEBEAM2	1037.8-562.2	79-43
CT MANDIBLE	2426	186
CT MAXILLA	1031	79
DAILY EXPOSURE TO NATURAL RADIATION (1 FULL MONTH = 20 INTRAORAL X-RAYS)	~6.6uSv	

RADIATION COMPARISON

VOLUME SIZE	12"	9"	6"
SMALL AREA	7.24"	5.03"	3.2"
LARGE AREA	8.5"	5.83"	3.8"
VOXEL SIZE	12"	9"	6"
SMALL AREA	.36MM	.25MM	.16MM
LARGE AREA	.42MM	.29MM	.19MM
LINE PAIR	12"	9"	6"
LP/MM	1.4	1.7	2.1
DATA SIZE	RAW	VOLUMETRIC	STUDY
MBS	700	≤460	25-500

SYSTEM SPECIFICATIONS

One full month of exposure to natural radiation is equivalent to 20 intraoral x-rays.

A Complete Package — The scanner, computer, delivery, installation, training, manuals, software and warranty are all included in the price.

Fast, Safe and Accurate: In just 36 seconds, the NewTom 3G acquires 360 x-ray views — more data, more detail.

BENEFITS OF NEWTOM 3G

Patient Safety

Radiation absorption is cumulative so keeping the dosage level as low as possible is extremely important—particularly for children with developing cells. **The NewTom 3G has the lowest radiation levels in the industry.** The NewTom 3G is the only system that automatically adjusts the radiation dosage based on patient size. This means that a small child may receive up to 40% less radiation than a full size adult. Other systems deliver the same amount of radiation whether scanning a 300 lb. adult or a small child. With the NewTom 3G, radiation levels are different for every patient—low radiation and clear and accurate images.

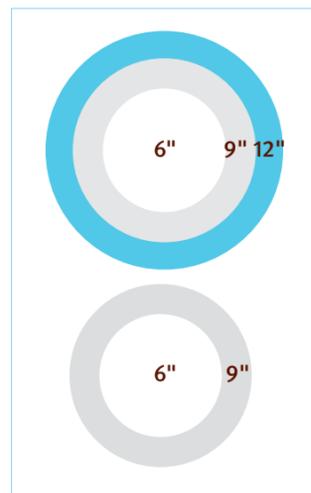
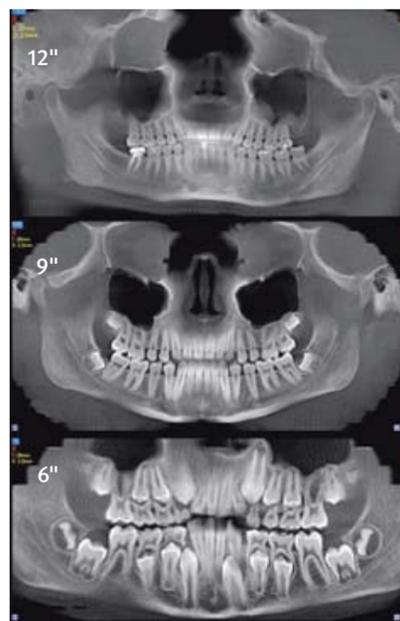
Full Featured Software

Powerful and easy to use software provides advanced features like the ability to mark the mandibular canal and develop unlimited custom report images. NewTom Dental also provides the full-functionality Professional/DICOM/MIP software package at a very low price so any doctor who wishes to have their own copy can easily do so.

Compatible with all major third party vendors! In just 36 seconds, the NewTom 3G acquires 360 x-ray views, which are “reconstructed” into a 3D database of the patient’s anatomy. The 3G offers multiple fields of view allowing for the selection of the best scan solution for each case. Conversion to DICOM 3 is built-in and compatible with all major third party software and systems.

Multiple Fields of View

With two NewTom 3G models to choose from, you can select the scanner tailored to your needs. For all imaging, including full cephalometrics, the NewTom 3G Multiple Fields (12", 9", 6") is the perfect choice. This is the scanner that is used in many dental imaging facilities. For implants, ENT, TMJ and other specialties, the 3G 9"/6" fields of view or the 3G 9" fixed provides high-end NewTom quality at a very affordable price.



FOV

Unlimited Imaging

PANORAMIC IMAGES NewTom 3G panoramics are crystal clear, unlike traditional panoramic images, which are blurred and inaccurate due to inherent distortion in projection as well as the superimposition of the patient’s anatomy from front to back.



NEWTom 3G PANORAMIC



CONVENTIONAL PANORAMIC

CEPHALOMETRIC NewTom 3G volumetric cephalometrics provide clear and accurate images, even in the frontal view, providing easy identification of anatomical points and structural features, while conventional cephalometrics face similar geometric projection issues as well as loss of clarity and accuracy due to superimposition of tissue.

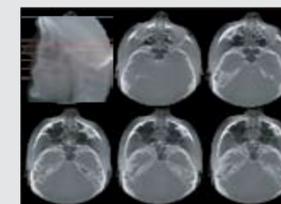


NEWTom 3G CEPH



CONVENTIONAL CEPH

AXIAL IMAGES Examining a series of axial images provides an excellent means of evaluating the sinuses and airways. With the NewTom 3G, the thickness of each axial image can be set as desired.



SAGITTAL VIEWS Sagittal views allow for the exact measurement of airway openings.



CORONAL VIEWS

Coronal views provide clear images of the sinuses.



CROSS SECTIONALS The NewTom 3G can quickly create a series of cross-sectional images to closely examine any part of the maxillofacial anatomy.



CROSS-SECTIONALS

3 DIMENSIONAL IMAGING From the same low-dose NewTom 3G scan, a wide variety of 3D images can be created. From cephalometrics through soft tissue, 3D imaging can show anatomical relationships that would be impossible to view using conventional technologies.



Very Low Exposure:

With up to 50 times less radiation than conventional CT exams, and many times less radiation than other cone-beam systems, the NewTom 3G scanner uses a “pulse” system that activates the x-ray source only when needed—delivering less than 6 seconds of total exposure for a full scan. With other systems, the x-ray source may be on throughout the scan.

User-Defined Reports:

Gather any combination of images, whether panoramic or cephalometric, onto one screen so you can view them simultaneously in order to create custom reports for faster analysis.

Stop Sending CT Fees

Elsewhere! Clear and accurate 1:1 scale images are available in just minutes in your own office. This means convenient and safer imaging for your patients, while providing an additional revenue source by retaining the CT fees that were going to external scan centers. In fact, with only a few scans per month, the NewTom3G can pay for itself!

Get every imaging study from one scan.

VERY LOW EXPOSURE With 10 to 20 times less radiation than other cone-beam systems, the NewTom 3G scanner uses a unique “pulse” system that activates the x-ray source only when needed—delivering less than 6 seconds of total exposure for a full scan. With other systems, the x-ray source is on throughout the scan.

CHILD SAFETY With the 3G's exclusive “Safe Beam” technology, the radiation level is set automatically through the evaluation of the patients's anatomical density during the scout views. A small child will receive up to 40% less radiation than the already very low level for a full-sized adult.

PATIENT SAFETY The 3G's unique “Safe Beam” automatically and continuously monitors system operations eliminating the possibility of incorrect exposures.

EASE OF OPERATION The NewTom 3G is a pleasure to operate. Just position the patient and the 3G does the rest. No system adjustments and no complicated positioning.

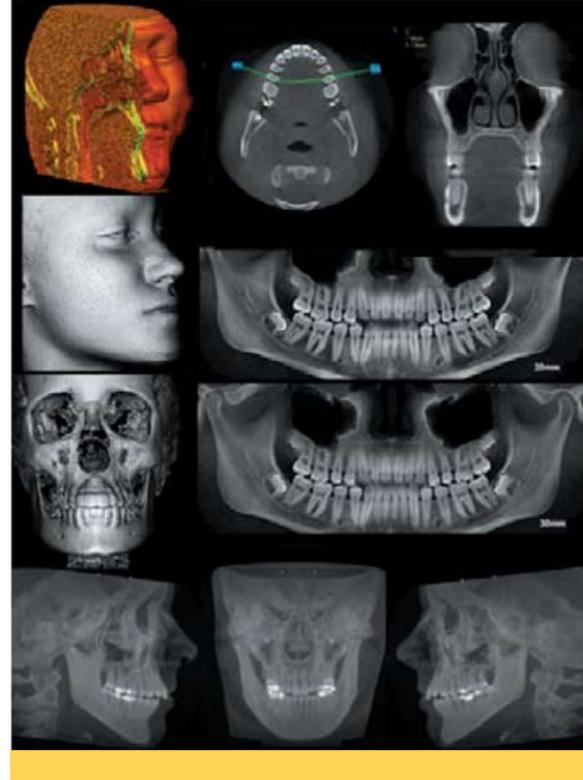
UNLIMITED IMAGING From a single, low-dose 3G scan, any number of high-quality images can be created: cephalometrics, panoramics, cross-sectionals, series of cross-sectionals and 3Ds are only a few mouse clicks away.

MULTIPLE RECONSTRUCTIONS Choose any plane desired for the primary reconstruction. Occlusal plane, mandibular plane and any other reconstruction can all be compiled from the same scan.

EASY TO PLACE The 3G weighs just 800 lbs, uses standard power and can be placed in a room as small 7.5' by 9'.

FULL-FEATURED SOFTWARE The sophisticated NewTom software has been designed to deliver high quality images that can be placed in user-defined templates and delivered on photo paper, film, or digitally. The 3G's software can convert the data to DICOM format for use with other 3rd party software.

MULTIPLE FIELDS OF VIEW The 3G is a “full size” scanner delivering a volume size of 8.5" along with the ability to display additional fields of view with volumes sizes of 6.5" and 4.1" with increased resolution. The 12bit 3G uses a 1024 x 1024 acquisition matrix with voxel sizes from .2mm to .4mm.



PANORAMICS, CEPHALOMETRICS, TMJ, AIRWAY, TONGUE POSTURE, BONE RELATIONSHIPS, IMPACTED TEETH, RETAINED ROOT TIPS, SINUS EVALUATION, PATHOLOGY, STUDY MODELS, 3D IMAGING

NEWTOM 3G SPECIFICATIONS

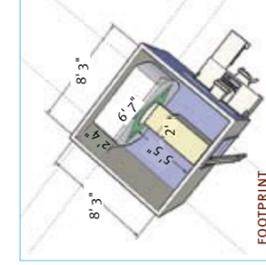
X-RAY SOURCE	
HIGH FREQUENCY INVERTER CONSTANT POTENTIAL (DC)	110
KV	15 (PULSED MODE)
DOSE REDUCTION DEVICE	SAFE BEAM ¹
SAFETY DEVICE	SECUR SCAN ²

IMAGE STORAGE	
PRINTER (OPTIONAL)	
CD	
DVD	
LOCAL NETWORK	
DICOM 3.0 (OPTIONAL)	

COMPUTER REQUIREMENTS	
2 COMPUTERS INCLUDED	1 FOR SCANS, 1 FOR RECONSTRUCTION
HARDWARE	MONO OR DUAL PROCESSOR, RAM 2GB, HD 80GB (MINIMUM), DVD WRITER
OPERATING SYSTEM	WINDOWS XP
ANALYSIS SOFTWARE	NEWTOM 3G EXPERT/PROFESSIONAL

OTHER SPECIFICATIONS

TOMOGRAPH	GANTRY AND PATIENT TABLE
TECHNOLOGY	CBCT - CONE BEAM COMPUTED TOMOGRAPHY
SCAN TIME	36s
PATIENT'S EXPOSURE TIME TO X-RAY	APPROXIMATELY 5S (TYPICAL)
ACQUIRED ANATOMICAL VOLUME (SPHERICAL)	DIAMETER 7.9" (20CM) (FOV 12"); 5.9" (15CM) (FOV 9"); 3.9" (10CM) (FOV 6")
IMAGE RECEPTOR	1004 X 1004 PIXELS (FOR FOV 12" AND FOV 9")
POSITIONING	DOUBLE LASER AND SOFTWARE
FOOTPRINT	6' 7"W (200CM) X 8' 3"D (250CM)
TOTAL WEIGHT	1058LBS/380KG GANTRY ONLY, 480KG WITH TABLE
POWER REQUIRED	230V~ (± 10%) 50/60 HZ (± 1%) 4A MAX
SIGNAL GREY SCALE	12 BIT
VOXEL SIZE	TYPICALLY .25MM (DEPENDENT ON SCAN SETTINGS)



Notice: interested in a smaller, space-saving unit? Call us to inquire out about the vertical NewTom VG.

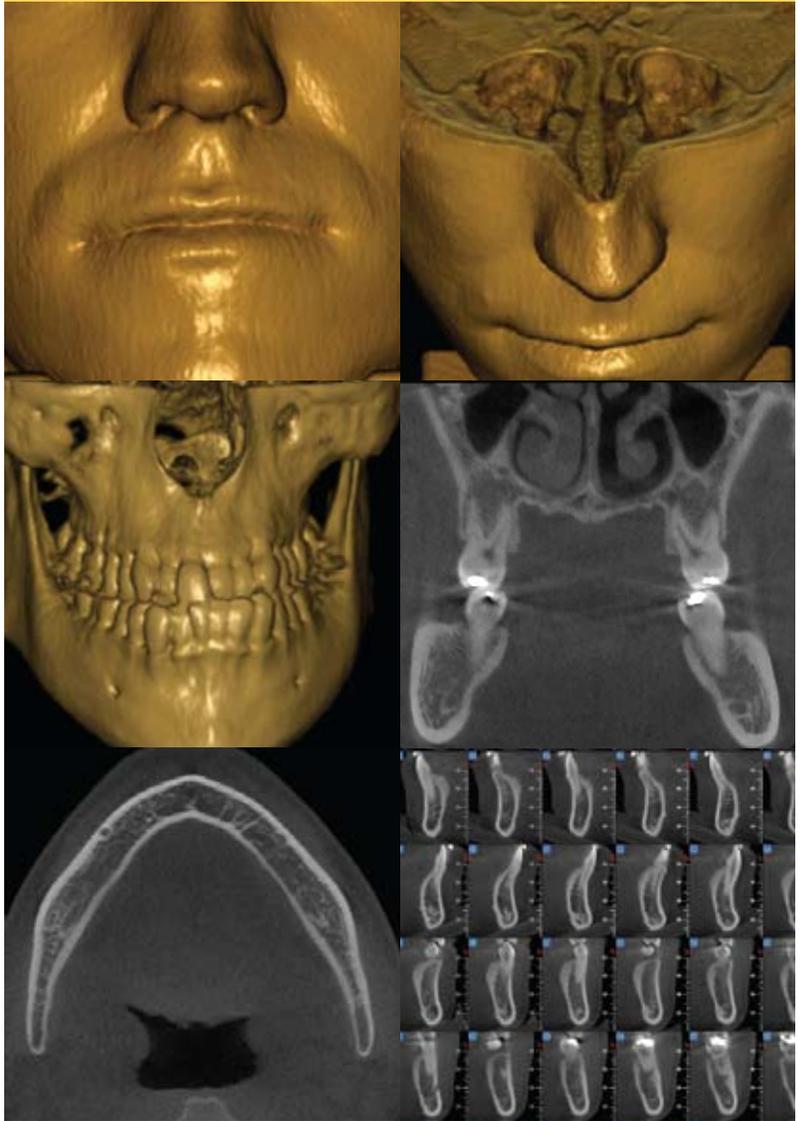


Specifications are subject to change without prior notice. Windows® is a trademark of Microsoft Corp. NewTom 3G is manufactured by QR Srl – Certified ISO 9001 and ISO 13485
¹ Automatically selects the proper radiological parameters depending on the patient's head size.
² Interrupts radiation dependent on detector data.



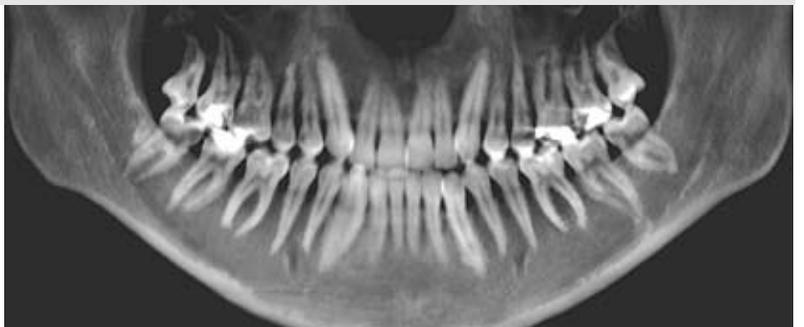
AFP Imaging Corporation, (OTCBB:**AFPC**) a publicly traded company, is the parent of **DENT-X**, EVA product lines and owner of **QR srl (Quantitative Radiology)**. **NewTom 3G** and **NewTom VG** are manufactured in Verona, Italy by QR, a wholly owned subsidiary of AFP Imaging Corp. AFP and its subsidiaries have annual revenues of approximately \$40 million and over 28 years of experience in research, product development, manufacturing, distribution and servicing of its medical, dental and veterinary imaging products. Sold worldwide, the AFP family of products has an outstanding

reputation for ISO 9001 quality and reliability. From the demanding environmental conditions of a remote clinic in a South American rain forest to the high volume requirements of a major New York medical center, AFP products are the indispensable tools of medical, dental, veterinary and industrial professionals. AFP is committed to its comprehensive global dealer network of sales and service representatives, who educate and support our valued professional customers.



NewTom VG

Cone Beam 3D Dental Imaging System

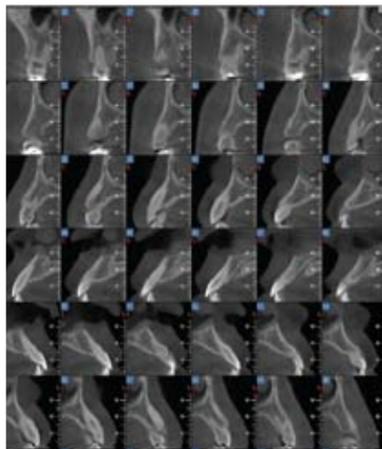


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NewTom VG Cone Beam Technology: Safety, Quality, Flexibility

The NewTom VG represents the newest in Cone Beam 3D technology from the company that invented cone beam scanning

The NewTom VG's flat panel X-ray detector technology, coupled with its very small focal spot, provides the clearest, sharpest images possible



NEWTOM VG

Digital radiographic imaging has become one of the most important components in today's dental practices, and the most important new imaging technology to emerge in the dental industry during the past decade is cone beam 3D imaging. Cone Beam 3D imaging for the maxillo-facial region enables implant specialists, maxillo-facial surgeons, and orthodontists to use three-dimensional imaging as a critical diagnostic and treatment planning tool.

Now AFP Imaging's Quantitative Radiology (QR), the company that developed and pioneered Cone Beam 3D maxillo-facial imaging, announces another breakthrough in its NewTom family of imaging systems, the NewTom VG. The NewTom VG represents the safest, highest quality, most practical dental cephalometric imaging available today.

Advanced Imaging Technology

NewTom VG Cone Beam 3D technology works by capturing in a single 18-second scan and a series of 360 images and storing them as information in a digital database on a computer hard drive. NewTom's powerful proprietary software then reconstructs 3D images, including primary reconstruction images in multiple planes, from the captured data, providing the highest quality images possible for use in diagnosis and treatment planning.

The 9" field of view, coupled with the very small focal spot of the NewTom VG means that the highest quality images can be acquired and reconstructed with great accuracy. The volume of image data captured is also kept to a minimum. This translates into very short image reconstruction times, generally averaging about three minutes, and economical disk drive usage, since after the scan and reconstruction are complete, the raw data is no longer necessary and is automatically deleted from the hard drive, saving valuable disk space.

The NewTom VG utilizes a flat panel x-ray detector, meaning extremely crisp and sharp images. And while bone and tooth structure remain the most important components for diagnosis and treatment planning, the NewTom VG also provides excellent soft tissue imaging.

NEWTOM SAFE BEAM TECHNOLOGY

Ensuring Patient Safety

The NewTom VG employs Safe Beam technology, which means that it automatically adjusts the radiation dosage according to the patient's age and size. This technology utilizes intermittent bursts of radiation only milliseconds in duration during image acquisition, and not the constant radiation stream typical of many other Cone Beam 3D imaging products, patients' exposure to radiation is in most cases significantly less than that of competing systems. Children, for example, receive up to 40% less radiation than adults during a typical scan. NewTom's Safe Beam image acquisition is the proven safe technology available today, for both patients and the dental team.

Smaller Footprint, Easier Patient Access

Because the NewTom VG is an upright scanning system with no fixed seating, it provides unparalleled patient accessibility. Even those confined to wheelchairs can be positioned very easily for scanning. And the system's seating flexibility means that adults and children can be readily accommodated. In addition, since it looks very much like a panoramic unit, the NewTom VG provides an important level of comfort and familiarity for patients.

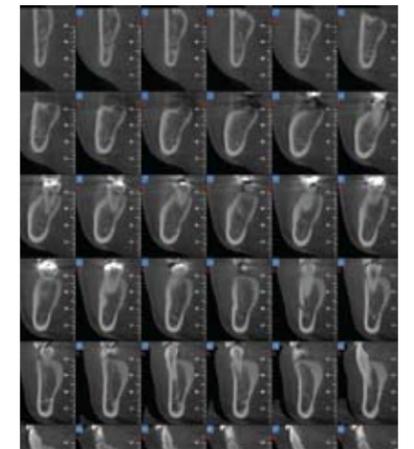
A Practical, Space-Saving Option From the Premier Cone Beam 3D Company

The NewTom VG has a footprint of about 3.7' by 5' (113 cmX152 cm), making it a practical option even for practices where office space is at a premium. The complete NewTom VG system includes scanner, cabinet with electronic circuitry (conveniently locatable up to 10 ft from the scanner), computer workstation, and all required software. A complete training program is also included with purchase or lease. The NewTom VG's image quality, patient safety features, and flexibility make it the best value Cone Beam 3D system on the market today.

The NewTom VG is manufactured by QR, the company that invented dento-maxillo-facial Cone Beam 3D technology. QR, a wholly owned subsidiary of AFP Imaging, remains the undisputed industry leader in dental cephalometric 3D imaging technology. QR has consistently provided the highest quality imaging systems to the dental community through its commitment to providing the most advanced technological updates to its products and its continuing development of new products which advance the technology it invented.

Faster image reconstruction for the NewTom VG time means less wasted time for patients and staff

The NewTom VG utilizes a single 9" Field Of View, which is the most utilized by implantologists and maxillo-facial surgeons



The NewTom VG features economical data storage, a single computer terminal



Safe Beam technology reduces radiation, provides optimum patient safety



Small footprint, flexible seating make the NewTom VG the practical choice for offices where space is at a premium



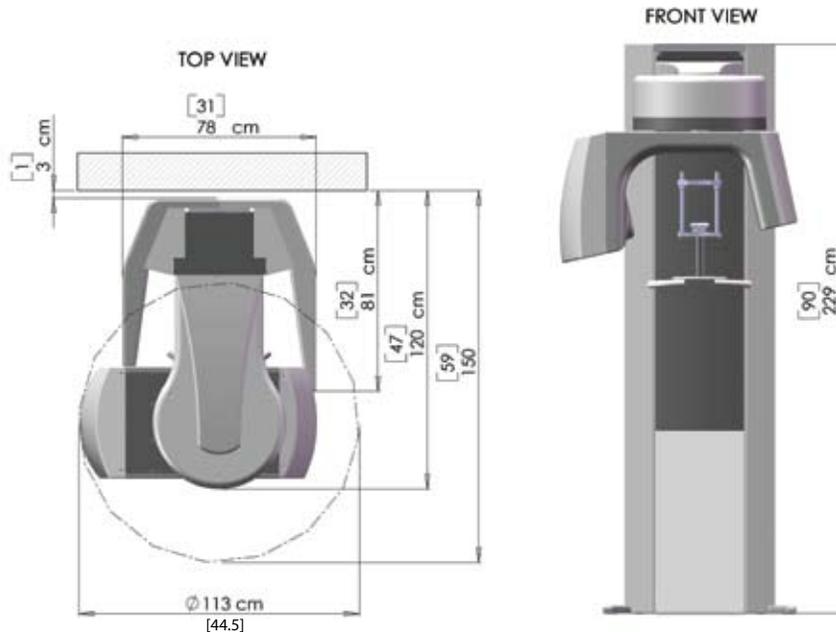
A Practical, Space-Saving Option From the Premier Cone Beam 3D Company

NEWTOM VG SPECIFICATIONS

X-RAY SOURCE	HIGH FREQUENCY, CONSTANT POTENTIAL (DC), ROTATING ANODE: 110 kV; 1-20 mA (PULSED MODE)
FOCAL SPOT	0.3 MINIMUM (IEC 336)
X-RAY CONE BEAM	PROPRIETARY SAFEBEAM™ CONTROL REDUCES RADIATION BASED ON PATIENT SIZE.
DOSE	APPROXIMATELY 50 µSv
IMAGE ACQUISITION	360 IMAGES - 360 DEGREE ROTATION
IMAGE DETECTOR	AMORPHOUS SILICON FLAT PANEL, 20 cm x 25 cm (FIELD OF VIEW)
SIGNAL GREY SCALE	14 BIT
VOXEL	0.3 mm cubic isometric, default and typical
SCAN TIME	18s
PATIENT POSITION	STANDING OR SEATED (WHEELCHAIR ACCESSIBLE)
RECONSTRUCTION VOLUME	16 cm (DIAMETER) X 12 cm (HEIGHT) TOTAL
RECONSTRUCTION TIME	1 MINUTE 40 SECONDS , TYPICAL
IMAGE STORAGE	DICOM 3.0, CD/DVD, LOCAL NETWORK, PRINTER (OPTIONAL)
WEIGHT	SCANNER UNIT: 599 lb (272 kg), CONTROL BOX: 220 lb (100 kg)
POWER REQUIRED	10A @ 100/115V~, 5A @ 200/215/230/240V~, 50/60Hz

The manufacturer reserves the right to change specifications at any time, in order to improve product performances.

NEWTOM VG DIMENSIONS/FOOTPRINT



SM-D 129-03



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www.afpimaging.com 800.592.6666 914.592.6100

ROUGH ROAD AHEAD?

Not When You Have NewTom VG Flex

- Provide a mobile imaging center
- Reach more locations – increase your revenue
 - Rugged reliability – small footprint
- Designed for mobility – service multiple practices
 - Time is money – one button recalibration



Van not included with purchase

www.afpimaging.com



