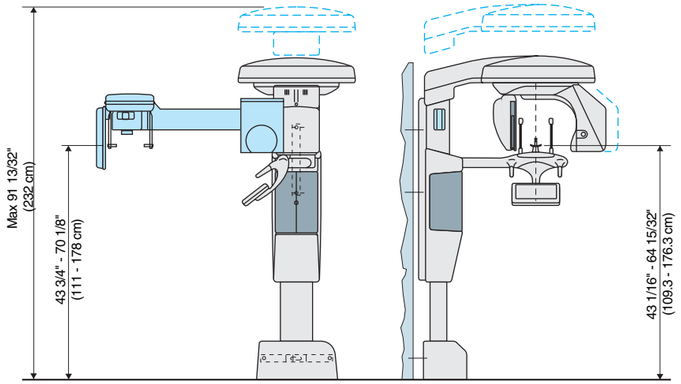
DENT-X
Visionary Imaging

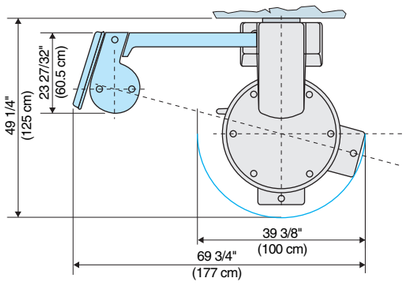
Quality Service Dependability

FRONT VIEW



SIDE VIEW

TOP VIEW



Essential Features

	Strato Digital	Strato Film
Motorized Column	•	•
Three-Line Laser Patient Positioning	•	•
DC High Voltage Supply (High Frequency Power Converter)	•	•
Microcomputer-Controlled Movements for Multiple Projection Programs	9	10
Flat Cassette with Rare Earth Intensifying Screens		•
CCD-type Electronic X-Ray Detector with CsI, high resolution scintillator	•	
Memory Card Slot (Compact Flash)	•	
Connection to Computer via high-speed USB 2.0 port	•	
Pedestal Mount	Optional	Optional
Storage Compartment	•	•
Programs:		
Adult and Child Panoramic	•	•
Adult and Child Hemi Panoramic Right	•	•
Adult and Child Hemi Panoramic Left	•	•
Adult and Child TMJ Open/Close Mouth	•	Optional
Adult and Child Bi-Axial TMJ	•	Optional
Adult and Child Maxillary Sinus P-A	•	Optional
Maxillary Sinus L-L	•	Optional
Improved Orthogonality Dentition	•	Optional
Implantologic	Optional	Optional

Technical Data

Weight		without ceph arm: 362 Lbs (135kg) with ceph arm: 402 Lbs (150kg)
High Voltage		50 - 80 kVp, in 2 kV steps
Anode Current		4 - 12 mA, in 1 mA steps (4 - 12 mA, in 1 mA steps for ceph)
Focal Spot		0.5 mm (IEC336)
Exposure Times	Panoramic	15 seconds adult, 13.5 seconds child
	TMJ open/closed mouth	4 x 2.65 seconds
	Cephalometric	0.2 - 3 seconds
Power Supply Voltage		230/120 Vac (10%) single phase, 50/60 Hz
Current Load		8A @ 230 V, 15A @ 108V
Power Rating		2 kVA
Cassette Size	Panoramic, Implant, Sinus, other exams	6" x 12" (15 cm x 30cm) flat
	Cephalometric	8" x 10"
Gray Levels (Digital Only)		12 bit / 4096 levels
Height of Irradiated Area on Sensor (Digital Only)		5 5/8" (143 mm)
Required Operating System (Digital Only)		Windows XP
Cephalometric Radiography		Digital Ceph Available 2006 - Film Ceph Available

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SM-D126-01

DENT-X
An AFP Imaging Company

Strato Panoramic

Systems for Digital and Film

P A N O R A M I C

C E P H A L O M E T R I C

DENTX

Strato

Strato Panoramic: Technology and reliability for great diagnostic results

Strato Panoramic Systems are designed to meet all your diagnostic needs and perform full panoramic examinations. Strato Digital performs panoramic adult/child, TMJ open/closed and paranasal sinus. The Strato Film also offers the sophisticated advantage of tomographic examinations for implantologic applications.

The Strato Digital and Strato Film are the cornerstones of panoramic x-ray technology that enable you to effectively serve your patients and identify a wider range of conditions.

Accessory storage

The accessory storage compartment has 4 sterilizable trays that accommodate disposables and accessories for immediate availability.

Multi-motor technology

The motion of the rotating arm is obtained with three independent axes of movement controlled by software that can be expanded and modified easily to adapt to new and changing needs.

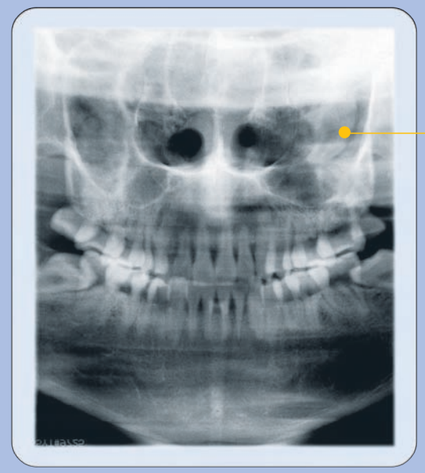
Motorized telescopic column

Compared to manual systems, this motorized version is much easier and smoother to operate. The column has dual-speed motorized movement for quick and precise patient positioning. An additional activation button prevents unwanted movements. The telescopic movement has three mounting positions that allow quick adaptation to rooms with high or low ceilings.

Strato Panoramic: Examination programs

Sinus

The Sinus package includes exams that allow taking stratigraphic images suitable for study of the paranasal sinuses.

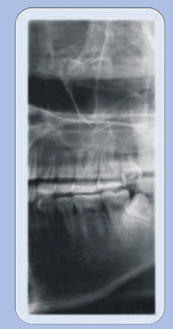


P-A maxillary sinus

Allows taking a Posterior-Anterior view of the maxillary sinuses.

P-A frontal sinus

This program is complementary to the others dedicated to the study of maxillary sinuses. It allows taking a stratigraphic images in a Posterior-Anterior projection of the frontal sinuses. For this exam it is necessary to use a dedicated chin support.



L-L maxillary sinus

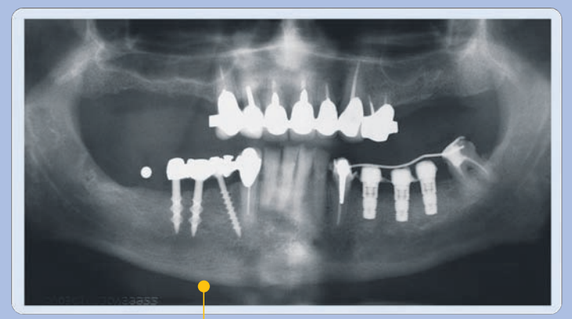
This program is complementary to the P-A view and allows taking Lateral projections of each maxillary sinus.

Advanced Dental Applications

The Advanced Dental Applications package includes different exams specifically developed for use in dental practice.

Improved orthogonality dentition

This is a panoramic projection taken with the X-ray beam constantly orthogonal to the arch to reduce the overlapping of adjacent teeth and improve the visibility of interproximal caries.

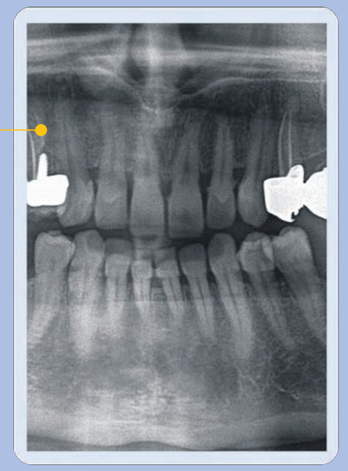


Low dose panoramic

The angle of rotation is reduced to exclude the ascending ramus from the image. The result is a panoramic limited to the dentition area with reduced patient dose.

Frontal dentition

This is a panoramic limited to the frontal dentition, from canine to canine, that allows for improved detail and definition of incisors.



Strato

Strato Panoramic: Examination programs

TMJ (Temporo Mandibular Joint)

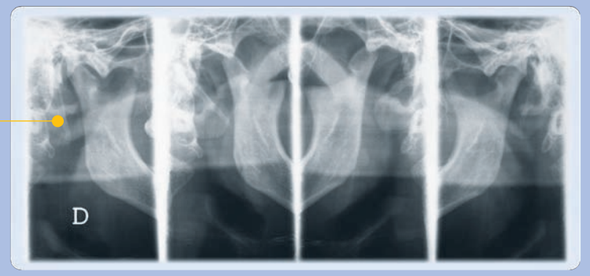
The Temporo Mandibular Joint package allows different projections to be taken of the joint depending on the type of examination being made.

P-A TMJ

The Posterior-Anterior view of the Temporo Mandibular Joint gives additional details of the condyle inside the fossa, otherwise not visible in the classic lateral projection. The combination of both views gives a complete representation of the anatomical area.

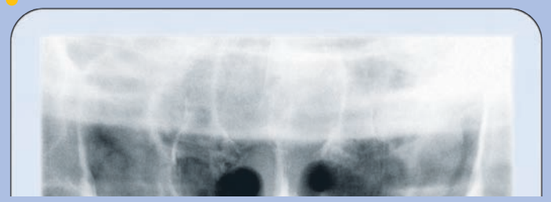
Open-Closed mouth TMJ

Four images are taken on the same film. From left to right: right joint open, right closed, left closed, left open. This exam allows evaluation of the movement of the condyle within the fossa.



Bi-Axial TMJ

Four images are taken. The mouth is kept closed and two different projections are taken of each joint. One projection is parallel to the long axis of the condyle, the other is taken at an angle of 40°.



Implant

The Implant application package enhances performing exams by using linear tomography technique, thus expanding the diagnostic latitude of the system to implantological treatments.

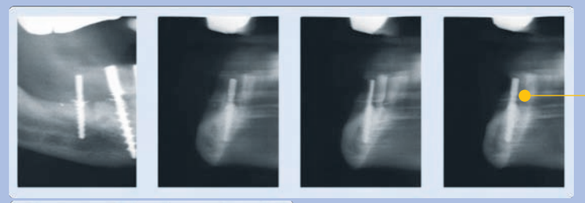
The Implant program allows taking very thin longitudinal and transversal slices in every position of the arch, for correct treatment planning in addition to an effective post-intervention follow-up directly in the office.

Patient positioning

The patient is positioned using dedicated bites that guarantee patient comfort.
The wide movement range of the rotating device allows taking tomographic slices in every position of the arch while keeping the patient in a frontal position without requiring uncomfortable head rotations.

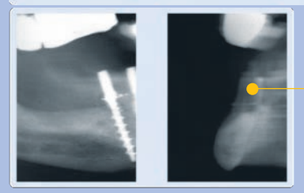
Diagnostic target selection

A unique technology allows the selection of the position of the slices without requiring impressions or markers, by simply entering the tooth number via the console.



Implant 4 exam

One longitudinal section 4, 6 or 8 mm thick and three transversal sections having 2, 3 or 4 mm thickness and distance are taken on one film.



Implant 2 exam

A reduced exam is also available to take just one longitudinal and one transversal slice.

Strato Panoramic: Quick, accurate patient positioning

Patient positioning

The key factor for good panoramic radiography is correct positioning of the patient. Strato Panoramic incorporates a number of features intended to minimize positioning error and guarantee the best possible radiographic result.

Face to face positioning

Face to face is the most reliable, fast and accurate technique for positioning the patient. This positioning makes it possible to see the patient and the console at the same time, thus reducing errors due to the mirror used in most conventional systems. Eye-to-eye contact between the patient and the operator increases the patient's trust and helps reduce stress, particularly with children and elderly patients.

Laser pointers

Perfect alignment of the patient is ensured by three laser beams that are used as reference for accurate alignment of the Sagittal, Canine and Frankfurt planes. The use of laser pointers instead of conventional lights projects a very thin marker which is highly defined and reduces the area of uncertainty.

Strato Panoramic (film version) shown above

Patient handles

The specific and ergonomic position of the handles has been designed to achieve three fundamental results:

- Extension of the cervical portion of the spine
- Lowering of the shoulders
- A strong and comfortable

Chin rest

Strato Panoramic is equipped with various chin rests suitable for every situation, including a specific support for edentulous patients. The height of the supports can be adjusted to enhance the visibility of the chin on the radiograph.

A C C U R A C Y

Strato Panoramic:
The sharpest resolution imaging

Anatomical programs

According to the type of exam selected, it is possible to choose from different anatomical programs:

Patient type - child/adult
Patient size - small/medium/large
Arch shape - narrow/normal/wide

Depending upon the combination of choices, the system automatically selects the most suitable exposure parameters for the best image result. The default parameters may also be modified to adapt them to screen/film combinations and the available film processor.

User interface

All the controls of Strato Panoramic reside on an ergonomic and easily readable control panel. All messages for the operator are shown on the LCD alphanumeric display, guiding the operator through all the phases of the examination procedure.

HF generator

Strato utilizes a high frequency generator, producing less soft-radiation than older AC generator technology. This benefit reduces the skin dose to the patient.

Automatic collimator

Strato Panoramic incorporates a fully automatic collimator that selects among seven available diaphragms. The optimal one is chosen for the selected exam to achieve the sharpest image quality at the lowest possible dose for the patient.

Constant magnification

All the images obtained in every examination program have constant magnification (in the center of the focal trough and under defined examination conditions). This feature allows taking reliable measurements of the anatomical structures.

Patient and operator safety

All X-ray parameters and moving parts are constantly controlled by software to minimize the effects of failures. In the event of collision or power failure, the microprocessor interrupts movements and allows the patient to leave the examination.

ProImage Dental Image Management Software

ProImage is designed to interface with the Strato Digital Panoramic X-Ray System, making it simple and cost efficient to capture, store, search, annotate and maintain patient dental radiographs and video images. ProImage gives the dental professional flexibility and control at a fraction of the cost of hard copies.

ProImage helps motivate patients to adhere to their treatment plan, while visually seeing the progress for their oral care.

Image appearance such as size, color, brightness and contrast can be easily adjusted. Other multiple diagnostic imaging tools such as zoom and invert display anatomical structures from a different viewpoint, thus, assisting in a better diagnosis.

The number of screens and functions to navigate can be done with just one click of the mouse, making user interface easy and simple. ProImage interfaces with most popular practice management software suites.

Strato Panoramic:
Examination programs

Panoramic

Panoramic adult

The panoramic programs on Strato Panoramic have the highest flexibility for obtaining the best possible results, regardless of the type of patient. The choices of anatomical programs include adult/child, three patient sizes and three arch shapes for a total of 18 unique choices.

Panoramic child

The child program has been specifically developed for children to adapt to their particular anatomy and reduce the delivered dose to an accurate choice of parameters.

Emipanoramic

To reduce patient dose when the area of interest is only a portion of the arch, select the Emipanoramic program which takes an image of just the left or right half of the arch.

Cephalometric

Soft tissue filter

To enhance the soft tissue profile in Lateral projections, Strato Panoramic employs a motorized soft tissue filter. The position of the filter can be adjusted to fit the profile of each patient. A scale on the head positioner indicates the correct filter position.

Cephalometric exam

Strato Panoramic can be fitted with a cephalometric arm that allows expanding the scope of application to orthodontic procedures. The selection of the collimator diaphragm (among 4 available) is performed automatically depending on the selected exam.

Automatic positioning

The automatic alignment of the tubehead to the ceph cassette or digital sensor avoids complicated manual procedures and ensures the highest positioning accuracy.