XRADiUS
COMPACT

The right dimension for panoramic imaging

CASTELLINI
PASSION FOR DENTISTRY SINCE 1935

XRADIUS
COMPACT

CASTELLINI

Built to fit perfectly into any surgery, the new X-Radius Compact is a state-of-the-art, space-efficient panoramic imaging unit which offers a wealth of diagnostic programmes and is quick and easy to use, bringing you immediate benefits and day-to-day results.

Compact design for efficient diagnostics

CASTELLINI

Diagnostics has its place in every surgery

An essential panoramic imaging unit requires an essential design. This is exactly what X-Radius Compact ensures, as well as ease of installation: it fits into the smallest of spaces, so any surgery environment will accommodate the latest in the range of Castellini digital imaging equipment.

Easy installation

With a minimal footprint, X-Radius Compact is also simple and inexpensive to install. Lightweight and easy to set up, calibration is also fast and full installation requires no more than a matter of hours before you are ready to run your first panoramic scan.

Saves space and energy

Further to its space-efficient design, X-Radius Compact features an automatic stand-by function with immediate reactivation for reduced energy consumption.

Perfect positioning

Precision is attainable immediately thanks to
a combination of the rigid support comprising 2
self-locking, lateral temple supports, a chin rest
and bite, together with 3 laser guides for accurate
alignment. 4 keys on the onboard panel allow
for servo-assisted adjustments. The metal grips
also help the patient maintain the correct position
during the scan.

Technologies made to assist your performance

Centred around a concept of ultimate user-friendliness, X-Radius Compact provides a selection of
technologies devised to ensure maximum ease of use. Ranging from laser guides to a rigid 4-point head
support system, everything is implemented to facilitate frequent usage and stress-free operation.

Just press start to go

Once your patient is steady, you're ready to go. X-Radius Compact selects
the optimal parameters based on each patient's personal morphology.
Exposure settings are automatically adjusted according to patient type
and the equipment programs itself to deliver a panoramic image with
optimal focus.

Virtual control panel

Available also as an application which can be downloaded
to iPad, the virtual control panel takes you through an easy
procedure to select the examination type and allows you to
view acquired images after scanning.

Temporomandibular joints
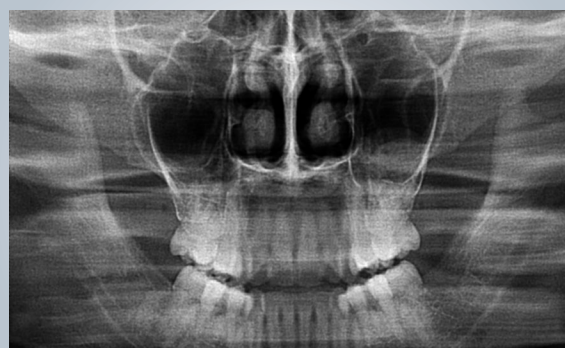• Open & Closed mouth • Sagittal & Coronal

Bitewing Dentition
• Orthogonal • Right, Left & Frontal

Standard child panoramic imaging
• Rapid • Low dosage

Maxillary sinuses
• Frontal • Lateral

Obtaining immediate results saves time

Equipment which adapts to each diagnostic scenario and ensures accurate results in line with each of your specific needs is a sure way of economising on time.
The dedicated software features optimised filters to enhance image quality, the high signal-noise ratio vastly improves the clarity of clinical details and the automatically set parameters bring about the best possible images for clinical diagnosis.

Standard adult panoramic imaging
• Complete • Partial • Multilayer • Rapid

Ample choice of diagnostic capabilities
A total of 18 programmes to amply satisfy 2D diagnostic requirements in the dental surgery. X-Radius Compact provides a comprehensive range of examination types also covering bitewing dentition with improved orthogonality, temporomandibular joints and maxillary sinuses.

Low dosage
A higher-speed scanning function is available to ensure children are exposed to inferior dosage. This can also be used for fast, post-therapy scans to assess treatment outcome.

Dynamic focus
X-Radius Compact registers 5 different image sets with a single scan, so that you can select the best focal range to suit the requirements of the treatment plan.

Image management across a unique platform

Thanks to an open platform, image management and data sharing is easy and highly practical.

Imaging software covering intra-oral and extra-oral applications with an intuitive interface allows dentists to transfer data to third-party systems via DICOM protocols and other methods. Acquired images can also be transferred to compatible management software with a standard TWAIN protocol.

Remote control

Available both for WINDOWS and as iPad application, the virtual control panel enables remote control of the equipment and onscreen visualisation of the images acquired.

Technical specifications

2D IMAGING
Type
Adult and child panoramic imager, QuickPAN, MultiPAN, "Bitewing" Dentition, PA and LL maxillary sinuses (Right and left), Temporomandibular Joint (2 x LL +2 x PA) Open and Closed Mouth
Patient Alignment   3 Laser Guides
Sensor Technology   CMOS (CSI)
Dimension   PAN standard 15 cm x 28 cm
Image file size   max 7.5 MB
Image resolution   5 to 7 lpmm
Dynamic range   14 bit (16383 Gray levels)
Enlargement   1.2 - 1.3
Exposure time   3-12 s
Typically effective dose (ICRP 103)   PAN (6.7 μSv)

X-RAY GENERATOR
Type of generator   Constant potential (DC)
Anode voltage   60 kV - 85 kV (step 1kV)
Anodic current   4 mA - 15 mA
Focal spot   0.5 mm (IEC 60336)
Inherent filtration   > 2.5 mm Al eq. (a 85 kV)
Exposure control   Automatic. MRT
(Morphology Recognition Technology)
Duty cycle   1:20 at full power operation (85kV, 12mA)

POWER SUPPLY
Voltage/Frequency
115 - 240 Vac, ± 10% single phase I 50 / 60 Hz ± 2 Hz
Maximum current temporary peak absorption
20A at 115V, 12A at 240V
Current consumption in standby mode   maximum 0.5 A
Note   Automatic voltage and frequency adaptation

DIMENSIONS
Required minimum   872 mm (L) x 1101 mm (D)
Packaging dimensions (L) x (P) x (H) in mm
Supplied in 2 boxes: Box 1: 930x690x960
                                      Box 2: 1860x355x350
Weight   70 kg (154lb) 84 kg (185lb)
Adjustable height   2 speeds motorised
Note   Self-supporting base available
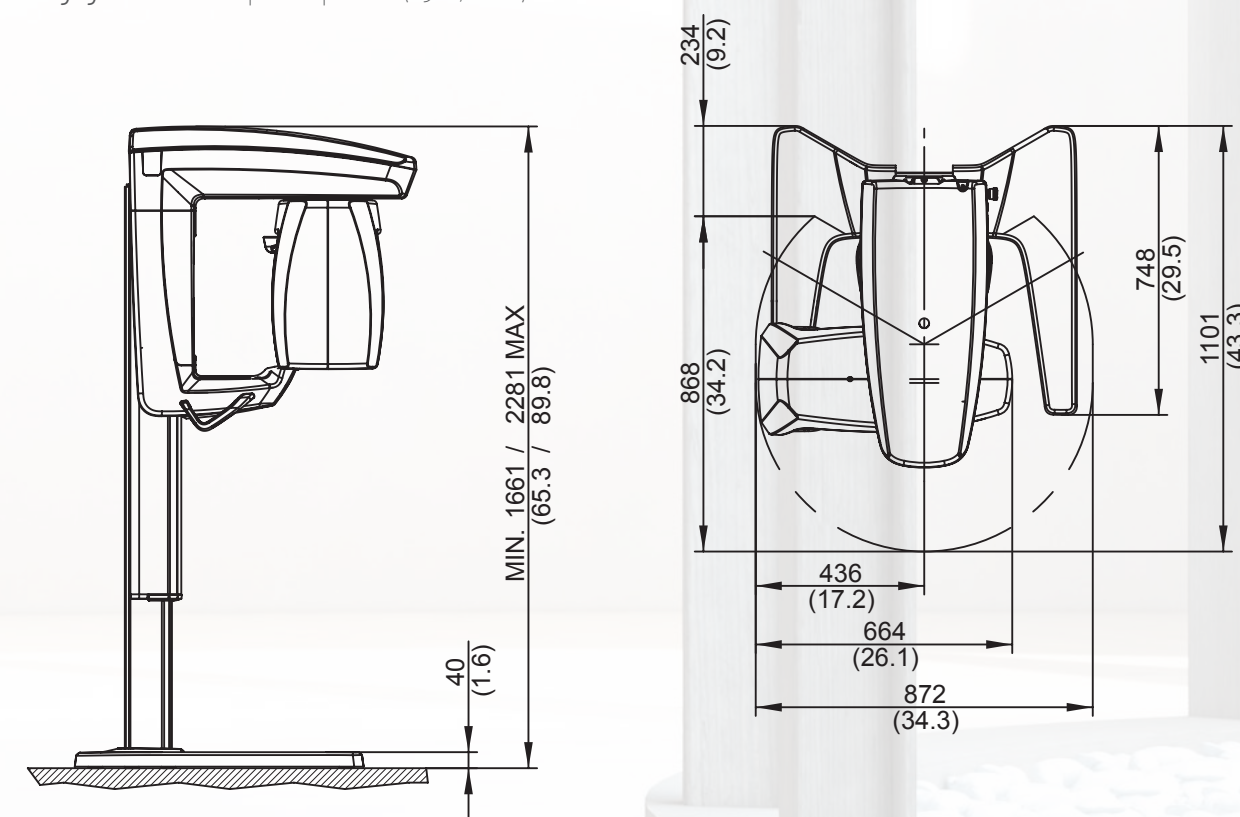
CONNECTIVITY
Connections   LAN / Ethernet
Software   iRYS
Supported protocols   DICOM 3.0, TWAIN, VDDS
DICOM nodes   IHE certification (Print, Storage Commitment, WorkList MPPS, Query Retrieve)

dimensions in millimetres (dimensions in inches)