www.acteongroup.com

This medical device is classified as class IIb according to the European Medical Device Directive in force.
It bears the CE marking. Notified Body: IMQ 0051. This medical device is intended for dental care and is reserved for health care professional; it is not reimbursed by health insurance agencies. This equipment has been designed and manufactured in keeping with a quality system certified EN ISO 13485.
Carefully read the user manual available at www.acteongroup.com Manufacturer: de Götzen - Distributed by ACTEON® Group

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ACTEON

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# IT'S TIME FOR EFFICIENT 3D DIAGNOSIS

## X MIND prime




EN

ACTEON

# 3D DIAGNOSIS IS MORE ACCESSIBLE THAN EVER WITH A SMART AND COMPACT SOLUTION



## ACTEON

## INNOVATIVE IMAGING

**X-MIND® prime 3D**
is a smart solution, providing high-technology capabilities and simplicity of use.

**This ingenious unit** offers all essential diagnostic tools in an accessible product.



X MIND prime

**56**
2D and 3D exams to cover all your clinical applications

**1** minute
to edit your implant report with the intuitive Acteon Imaging Suite software

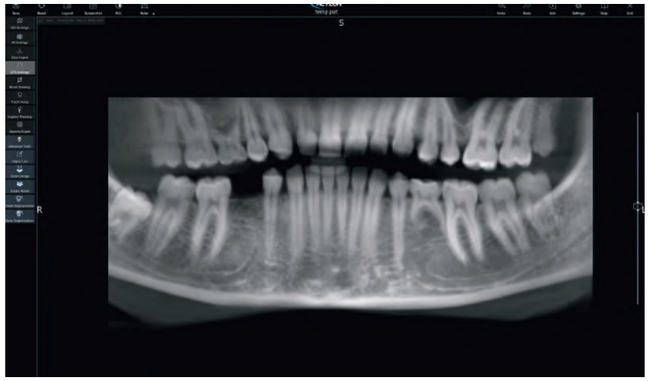
**1 to 1**
Face-to-face patient positioning

**0**
Footprint space with the innovative wall mounted system

**100%**
Mac® and Windows® compatible with Acteon Imaging Suite software

# PROVIDE A COMPREHENSIVE CLINICAL OVERVIEW

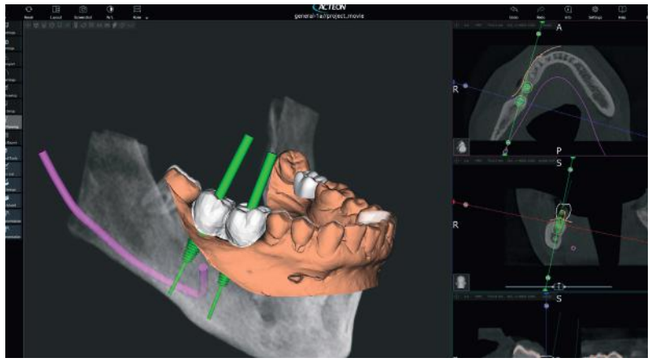
## IMPLANTOLOGY CLINICAL CASE



1

INITIAL SITUATION

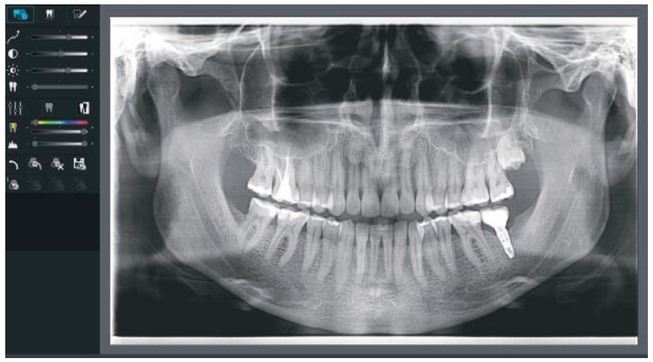
Reconstructed panoramic from the 3D volume



2

IMPLANT PLANNING

Virtual implant treatment planning



3

POST PROCEDURE

follow-up panoramic exam



## FROM DIAGNOSIS TO TREATMENT, GET A FULL SOLUTION

X-MIND® prime 3D is a complete imaging solution, combining panoramic and CBCT exam modalities.
On your side from general examination to specific treatment planning.

- Choose your 2D and 3D examination from a wide range of options
- Plan your treatment
- successfully comunicate with your patient

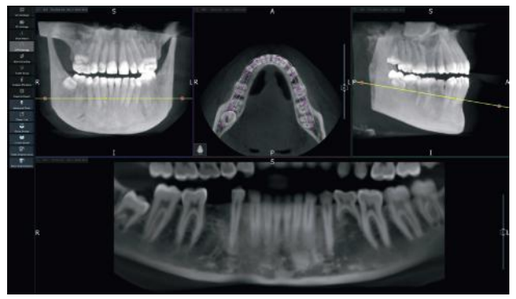





# EASILY PLAN YOUR TREATMENT WITH A DIGITAL WORKFLOW

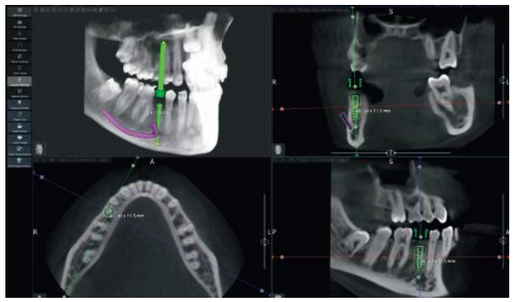
## IMPLANT PLANNING MADE EASY

Delivered with the smart AIS* software, X-MIND® prime 3D is an essential tool for treatment planning and post-procedure follow-up.



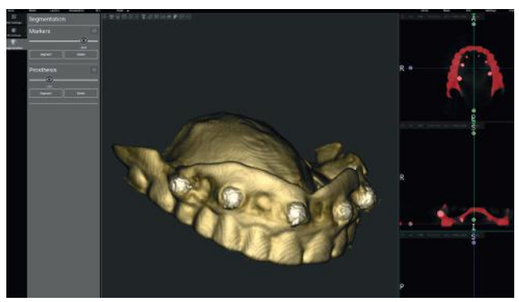
*Dental panoramic curve reconstruction*

- Draw a panoramic curve



*Localization of the implant and the mandibular canal*

- Trace the mandibular canal and measure the distance between the upper canal boundary and the upper mandibular crestal bone to plan the safest surgery for your patient.



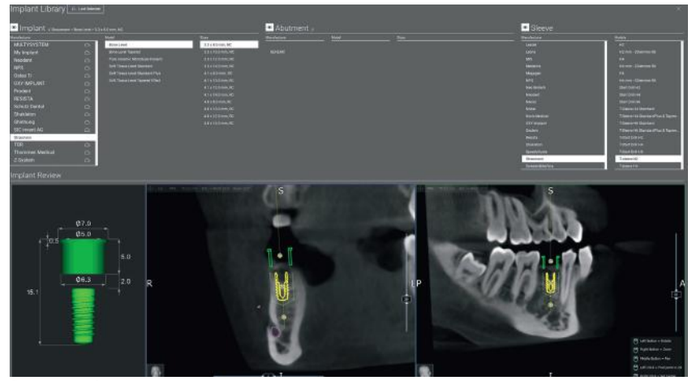
*Appliance surface generation*

- Scan the patient appliance with the X-MIND® prime 3D objects scan feature and generate its surface. A guided procedure allows to match the appliance with the patient's scan for a precise implant planning and dual scan protocol application.

**Acteon Imaging Suite*

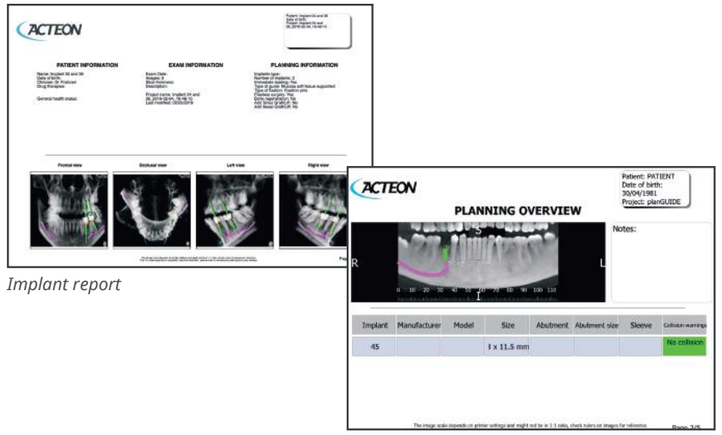


- Choose the right implant model from a large library and adjust its position.



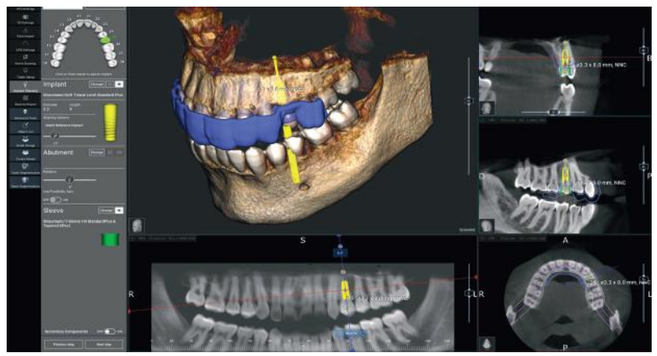
*Place your implants*

- Print your illustrated and complete implant report in less than a minute.



*Implant report*

- Create your surgical guide with the AIS* 3D APP DESIGN module: ACTEON® first fully intuitive guided surgery software for dentists.



# DIAGNOSE WITH THE HIGHEST QUALITY 2D & 3D IMAGES

## WIDE RANGE OF APPLICATIONS

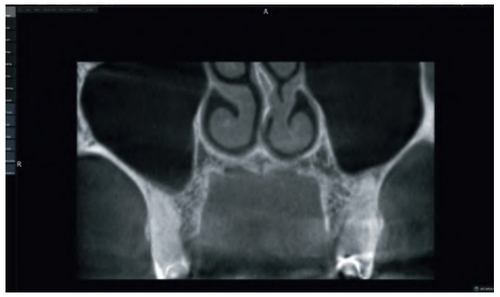
X-MIND® prime 3D adapts to the needs of both specialists and general practitioners.

Evaluate detailed morphology of bone tissue



*Apical lesion on 22 with bone destruction and extended to the 21*

Explore the maxillary sinus



*Maxillary sinus analysis*

Examine maxillofacial diseases



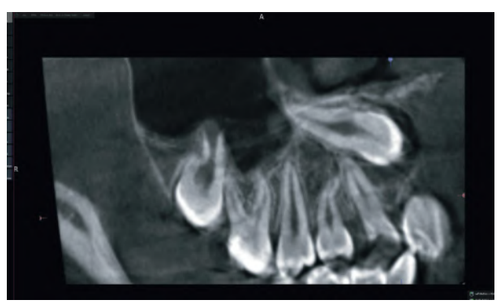
*Cyst on fourth quadrant (lower right), with bone destruction*

Detect dental anomalies



*Bone loss on 21, 22 and 26*

Determine the protocol to extract impacted teeth



*Impacted canine (13)*

Diagnose temporomandibular joint disorders



*Left TMJ*






## ACCURATE IMAGES FOR AN IMPROVED DIAGNOSIS

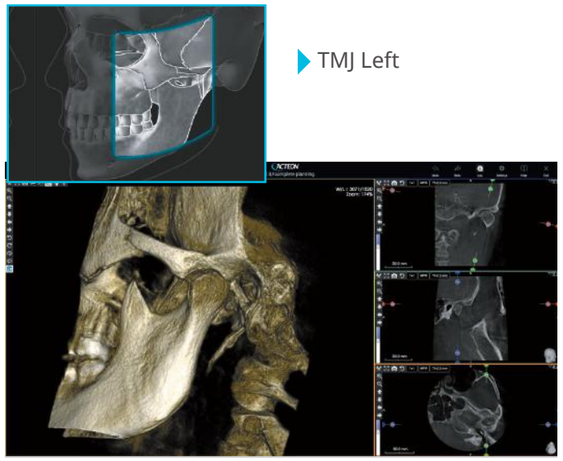
With a minimum voxel size of 87,5 µm, X-MIND® prime 3D offers you a detailed three-dimensional reconstructions, able to highlight the smallest anatomical elements.

**87.5µm**
Voxel size

# STEP INTO 3D IMAGING AND EXPAND YOUR CLINICAL APPLICATIONS

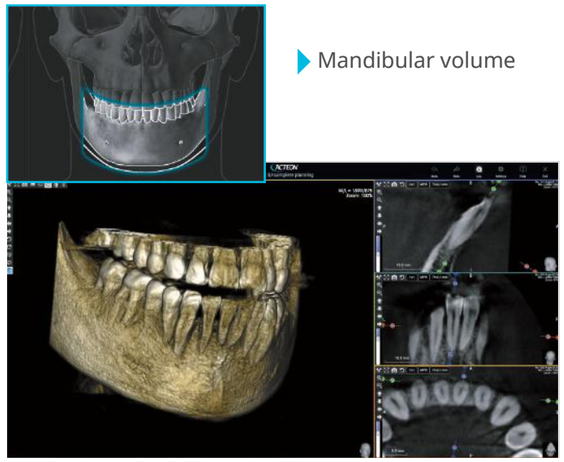
## EFFICIENT 3D SOLUTION FOR EVERYONE

X-MIND® prime 3D offers a full range of acquisition programs thanks to its multiple FOV (from 50x50 to120x100). Once you select the region of interest, the settings and doses are automatically adjusted.



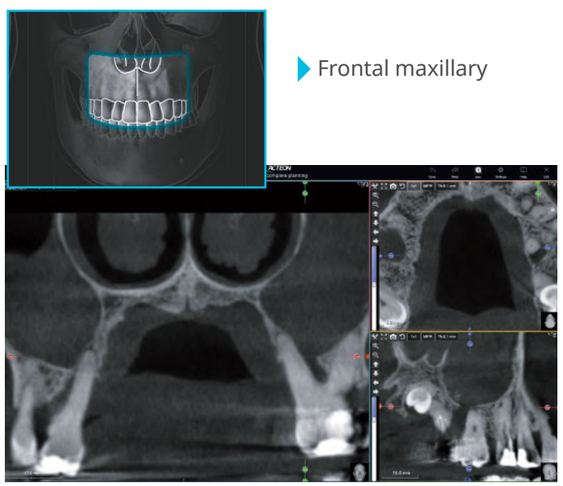
▸ TMJ Left

*TMJ analysis*



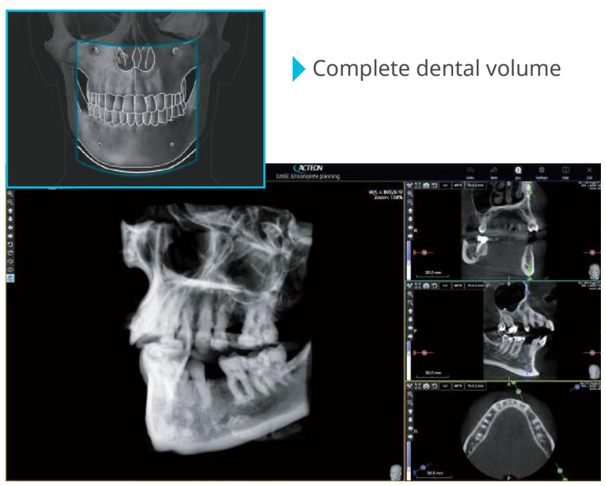
▸ Mandibular volume

*Full volume for pathological research*



▸ Frontal maxillary

*Sinuses caused by multiple dental infections*

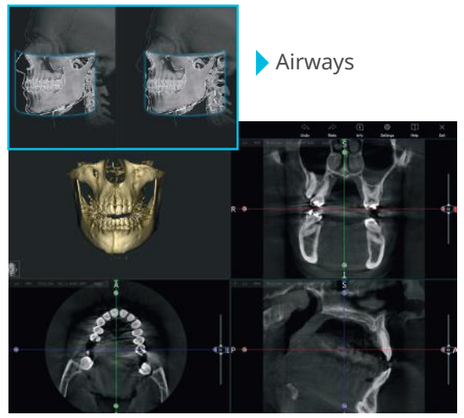


▸ Complete dental volume

*Full volume for implant planning*



## IMPROVE THE POTENTIAL WITH THE ADDITIONAL 12X10 FOV



▸ Airways

Enabling the option 12x10 unlocks two additional 3D acquisition modes :

- **Extended dentition**: A comprehensive view of the dental area, including full maxillary and mandibular arches and ascending rami on a single scan
- **Airways**: the extended acquisition volume is centered backward for an optimal coverage of the airways and TMJ, specifically intended for orthodontic and ENT applications.

### SEVERAL FOV FOR MANY APPLICATIONS

- Full dentition
- Single jaw (maxillary / mandibular)
- Maxillary teeth (right molars/right premolars/incisor/left Molars/left premolars)
- Extended volume
- Mandibular teeth (right molars/right premolars/incisor/ Left molars/left premolars)
- TMJ (right/left)
- Sinus

## OBJECTS SCAN

The dedicated model holder of X-MIND® prime 3D allows to scan objects of various materials and designs (impressions, stone models, appliances, etc.). Easily create the virtual replica of the scanned object and export it in STL format.



# RELY ON A COMPLETE SET OF PANORAMIC EXAMS

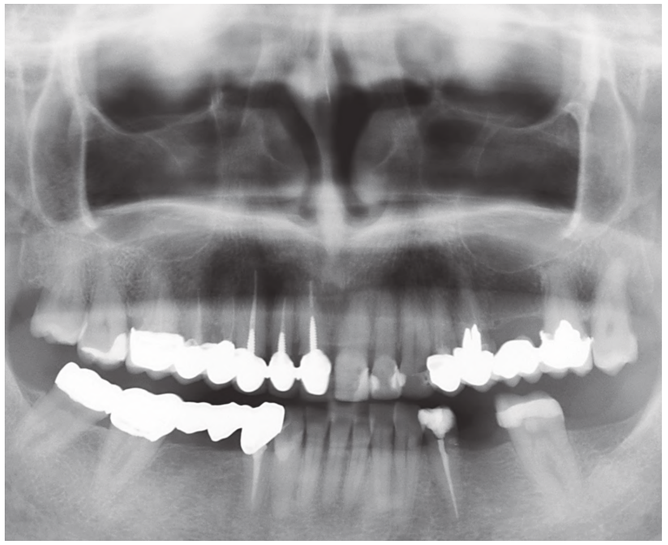
X-MIND® prime 3D offers a full set of panoramic exams appropriate for all your clinical applications.

It provides all the panoramic exams requested for general dentistry: dental panoramic, temporomandibular joints, sinuses.



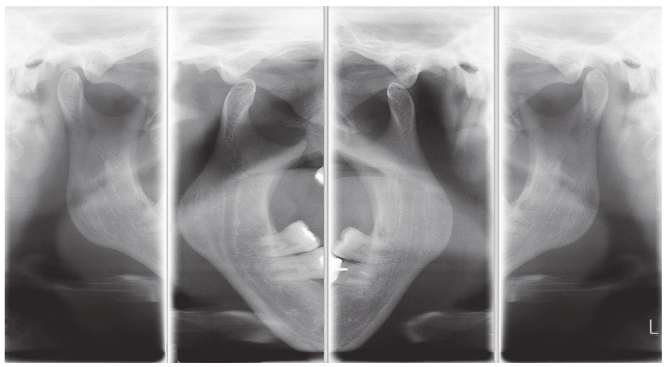
## DENTAL PANORAMIC

*Complete overview of the mandible and maxilla, maxillary sinuses, temporomandibular joints and supporting structures.*



## MAXILLARY SINUSES

*Taller FOV to increase the visibility of the maxillary sinuses and the apices of the upper teeth.*



## TEMPOROMANDIBULAR JOINT

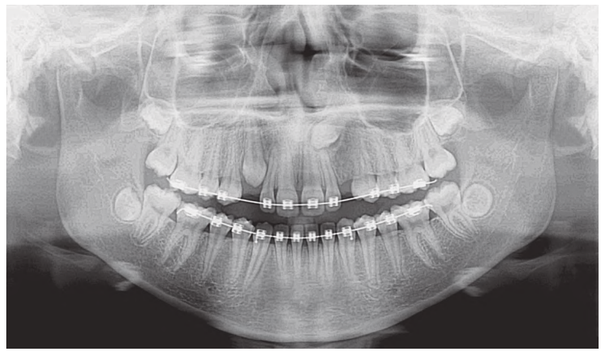
*Examination can be carried out with the mouth either open or closed.*



## MULTIPLE ADULT AND CHILD PANORAMIC

- Panoramic
  - Standard
  - Half Panoramic (right/left)
  - Frontal Dentition
  - Low Dose
  - Ortho Rad
- Bitewing
  - Single (right/left)
  - Bilateral
- Sinus
- TMJ
  - Standard
  - Single phase

Other specific programs are available such as half-panoramic, improved orthogonal panoramic, detailed frontal dentition, low-dose panoramic and bitewing.



## CHILD PANORAMIC

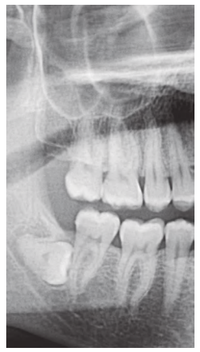
*Protect your patient by reducing the exposed area and time.*



## HALF-PANORAMIC

Left & Right

*Reduced exposed area and focus on the region of interest.*



## BITEWING

Left & Right

*Single or bilateral bitewing views.*



## FRONTAL

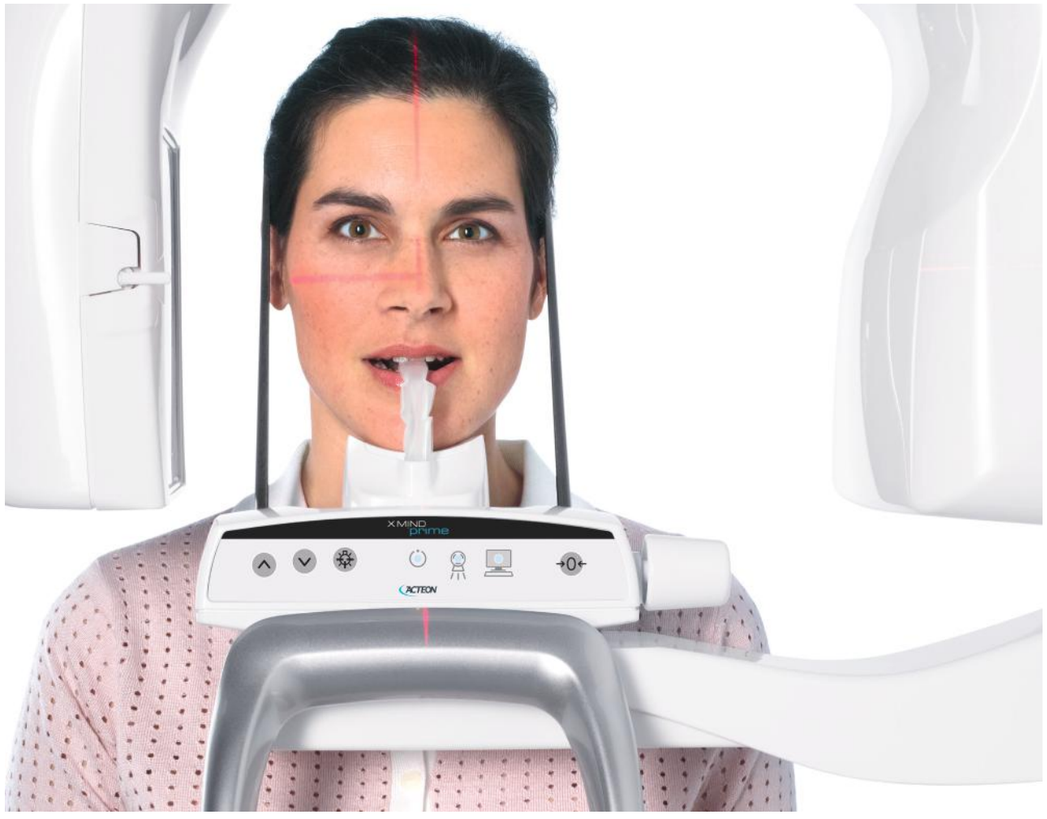
*Limit the exposure to the incisal portion of the dental arches.*

# POSITION YOUR PATIENT EASILY AND EFFICIENTLY

To maximize the productivity, X-MIND® prime 3D is specifically designed to reduce the patient preparation time.

## SMOOTH PATIENT POSITIONING

Natural face-to-face positioning supported by laser lines for a correct patient alignment.




The telescopic column can be directly adjusted using the control panel to adapted the device to patient height or his sitting/standing position.

**X-MIND® prime 3D open space configuration suits all types of patients and it is easily accessible for wheelchair users, thanks to its zero footprint space.**



## USER-FRIENDLY CONTROL PANEL

The simplified control panel, smartly located below the chin support, provides a streamlined and precise patient positioning. Simple settings and a quick examination lead to a more efficient exam workflow.



Benefit from the error-free patient positioning, thanks to the automated chin rest support recognition.



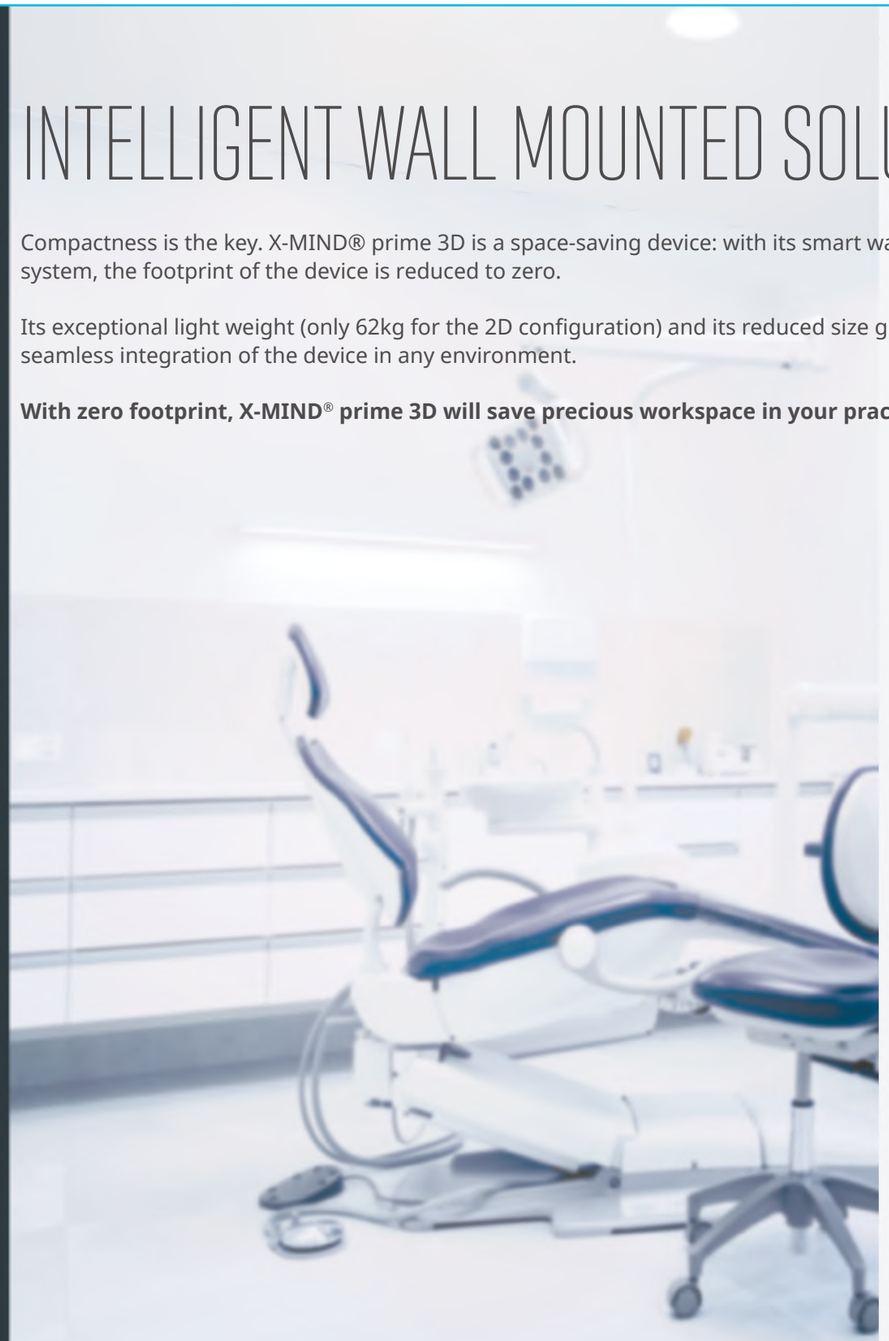
# OPTIMIZE THE SPACE WITHIN YOUR PRACTICE

## INTELLIGENT WALL MOUNTED SOLUTION

Compactness is the key. X-MIND® prime 3D is a space-saving device: with its smart wall-mounted system, the footprint of the device is reduced to zero.

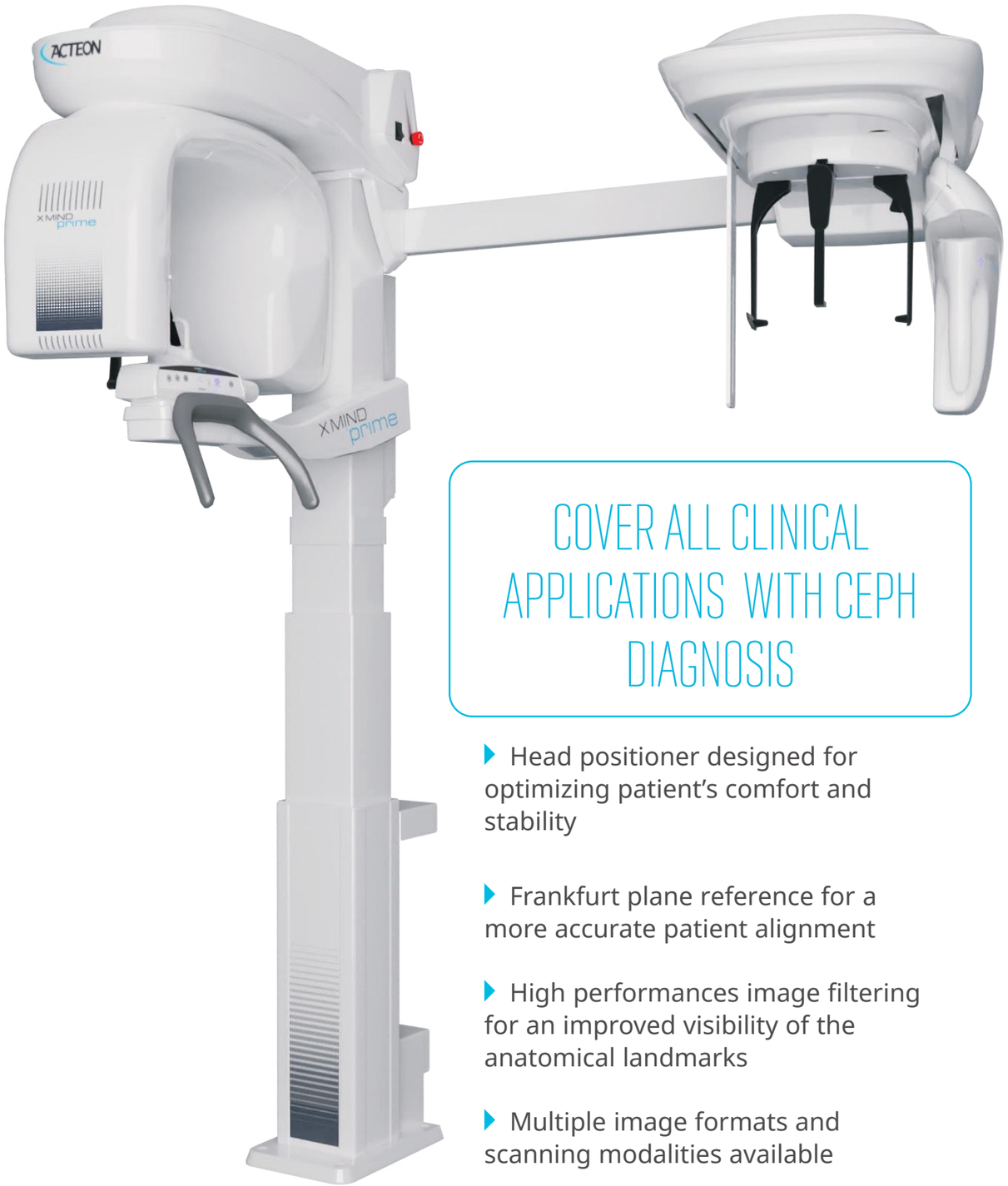
Its exceptional light weight (only 62kg for the 2D configuration) and its reduced size guarantees a seamless integration of the device in any environment.

**With zero footprint, X-MIND® prime 3D will save precious workspace in your practice.**





# DISCOVER THE BRAND NEW VERSION WITH CEPHALOMETRIC ARM



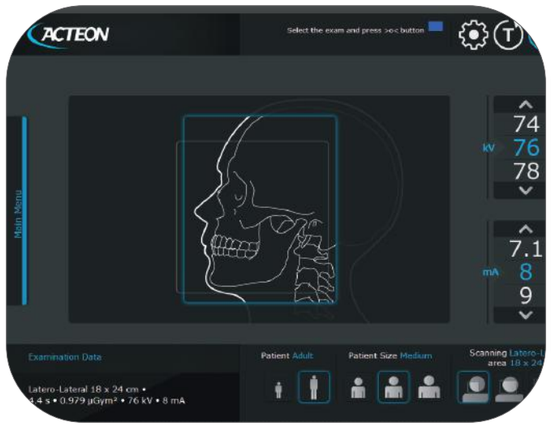

## COVER ALL CLINICAL APPLICATIONS WITH CEPH DIAGNOSIS

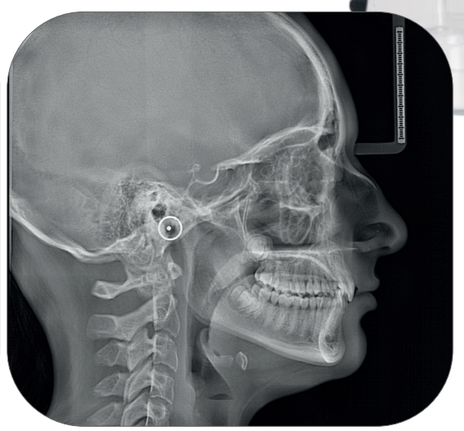
- Head positioner designed for optimizing patient's comfort and stability
- Frankfurt plane reference for a more accurate patient alignment
- High performances image filtering for an improved visibility of the anatomical landmarks
- Multiple image formats and scanning modalities available

## INNOVATIVE GUIDED-SYSTEM FOR HANDLING THE 3D CASSETTE, ENSURING EASE OF USE AND RELIABILITY

With the new ACTEON® cephalometric solution entering the X-MIND® prime range, you can now extend the fields of application of the device to orthodontic analysis, improving diangnosis and treatment planning.



Its patented collimation system allows multiple image size selections, including new reduced size modes, always ensuring a perfect assessment of the region of interest at the lowest dose.
The head positioner has been designed for optimizing patient's comfort and stability while the innovative reference support, placed on the ear rod, makes it easier for the user to always ensure a perfect centering of the Frankfurt plane.

# ACCOMPLISH YOUR DIAGNOSES IN RECORD TIME

## OPTIMIZE YOUR ANALYSIS TIME WITH THE POWERFUL, INTUITIVE AND HIGH-PRECISION SOFTWARE

AIS




Mac

WINDOWS® COMPATIBLE

TWAIN® COMPATIBLE

DICOM COMPATIBLE

EXPORTS TO STL FORMAT

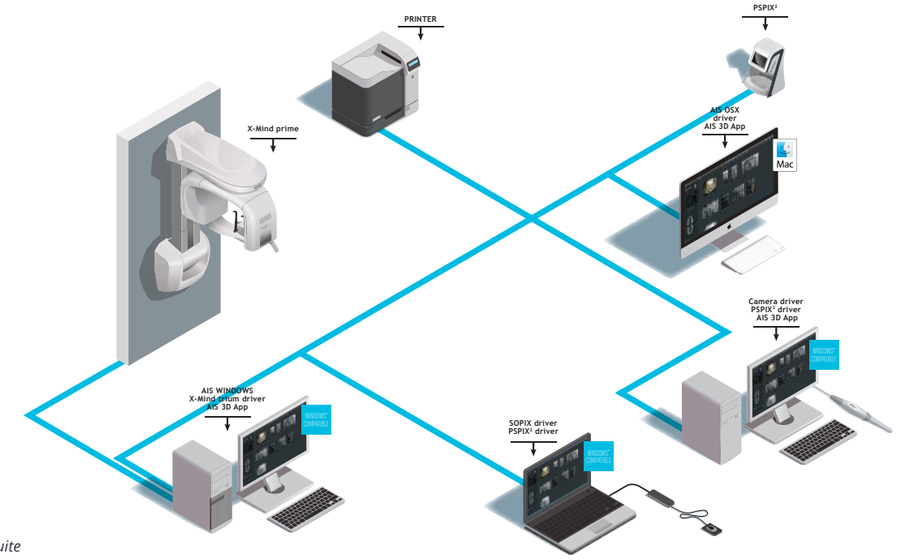
- Superior design
- Clean lines
- User-friendly
- Open architecture
- Full integration
- Advanced functionalities

## ADVANCED FUNCTIONALITY FOR INTUITIVE NAVIGATION

The Acteon Imaging Suite software offers intuitive data navigation and advanced diagnostic functionalities.

AIS* allows an easy management of your patient's exams and a direct control of all the Acteon imaging devices**

- Implant planning
- Crown placement
- Mandibular nerve tracing
- Easy 3D volume navigation
- Application-specific 3D renderings
- Surface, distance and angle measurement
- Complete, cloud based implant library
- Automatic implant report
- Surgical guide design
- Sharing data on all the practice network
- Cases CD or USB stick creation
- Unlimited STL file import and export
- Metal artifact reduction filter
- Panoramic and cephalometric image detail optimisation filter
- ENT functionalities
- Virtual endoscope
- Integrates with various patient management software
- DICOM standard compliance




** Acteon Imaging Suite*

***Acteon® Imaging Suite is not available with PSPIX², SOPIX Series and ACTEON intraoral cameras products Canada.*

# SOLUTIONS FOR ANY PRACTICE

## CHOOSE THE CONFIGURATION THAT WILL FIT YOUR CLINICAL NEEDS

- X-MIND® prime 3D: CBCT solution, providing both panoramic and 3D exams
- X-MIND® prime 3D with Ceph







X-MIND® prime 3D

| | |
|---|---|
| Pan | ● |
| Ceph | ○ |
| 3D | ● |

*Also available in standing mount.*

● : available option

## A NEW CEPHALOMETRIC OPTION FOR X-MIND PRIME 2D & 3D







X-MIND® prime 3D with Ceph

| | |
|---|---|
| Pan | ● |
| Ceph | ● |
| 3D | ● |

● : available option

# ACTEON SERVICE I& YOUI

"Clinical trainers" are available to show you the clinical aspects and patient benefits of ACTEON® products and train you on how to use them.

Free, ongoing and unlimited service can be reached Monday to Friday, CET from 09:00 to 18:00.

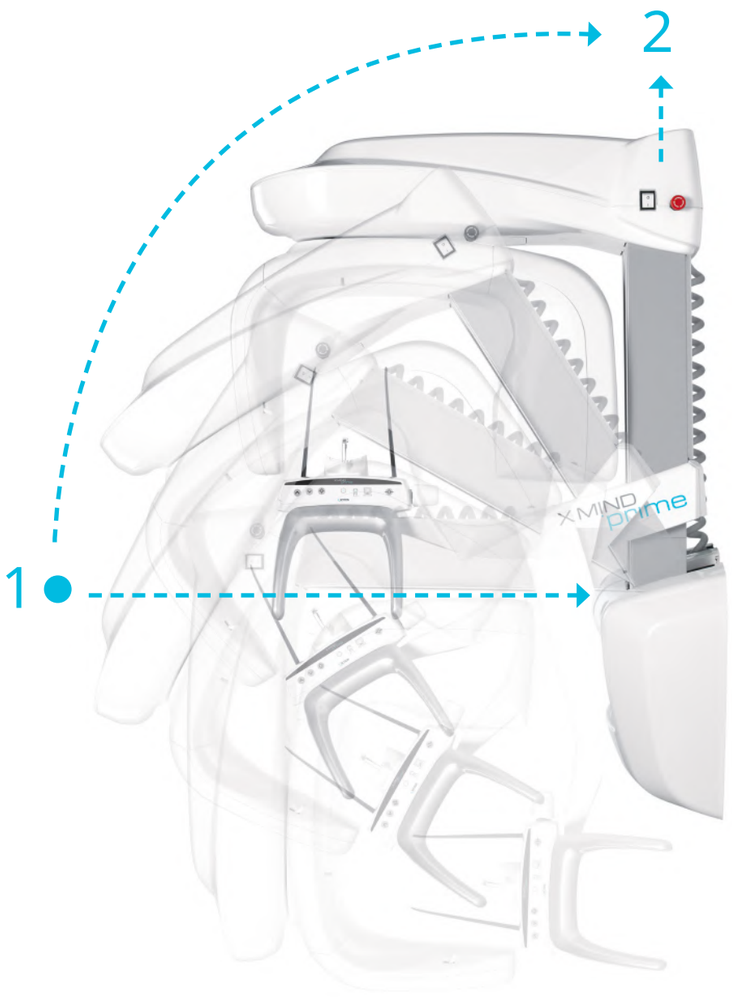
ACTEON® can also analyse and troubleshoot remotely, and specialist technicians can provide on-site service as quickly as possible.

# UNMATCHED SPEED OF INSTALLATION

X-MIND® prime 3D is ready to install! Delivered completely assembled at your practice, you are all set-up at once.

**As simple as one box, one technician and two installation steps!**

X-MIND® prime 3D does not require you to interrupt the office daily operations, helping you to save time.



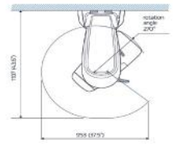


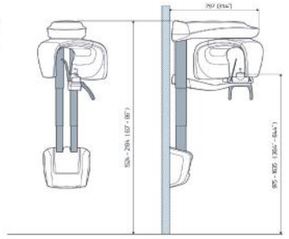


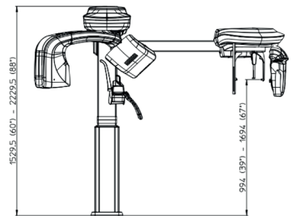


# TECHNICAL SPECIFICATIONS

X MIND prime







| | X-MIND® primew 3D | Cephalometric version |
|---|---|---|
| | X-RAY SOURCES | |
| **Tube type** | OPX 105-12 (CEI) | Skanray / CEI OPX 105-12 |
| **Total filtration** | ≥ 2.5 mm AI eq. @ 86 kVp | ≥ 2.5 mm Al eq. @ 86 kVp |
| **Tube voltage** | 60 - 86 kV | 60-86 kv |
| **Anodic current** | 2-12.5 mA | 2-12.5 mA |
| **Focal spot** | 0.5 mm | 0.5 mm (EN 60336) |
| | SENSOR | |
| **Type** | CMOS Flat panel | CMOS Flat Panel detector with CsI scintillator |
| **Voxel size** | Minimum 87.5 µm | na |
| **Pixel size** | 120 um (binning 2x2)<br>240 um (binning 3x3) | 99 um (binning 1x1)<br>198 um (binning 2x2) |
| | ACQUISITION | |
| **PAN Programs** | Panoramic (adult/child) - TMJ open/closed mouth in lateral projection - Maxillary sinuses (P-A) - Half panoramic (left/right) - Low dose panoramic - Frontal dentition - Ortho Rad Panoramic - Bitewing (left/right/double) | Skull Latero-Lateral<br>(24 x18 cm - 18x18 cm)<br>Skull Latero-Lateral, with full view of the nape<br>(24 x 24 cm - 18x24 cm)<br>Skull mainly Latero-Lateral<br>(24 x 30 cm - 18x30 cm)<br>Skull Antero/Posterior or Postero/<br>Anterior (24 x 24 cm - 18x24 cm)<br>Hand/wrist examination (24 x 18 cm) |
| **3D programs** | Full dentition (85 x 93 mm)* - Single jaw (85 x 50 mm)* - Mandibular teeth (50 x 50 mm) - Maxillary teeth (50 x 50 mm) - TMJ (85 x 93 mm)* - Sinus (85 x 93 mm)* - Extended volume(120x100 mm)* | |
| **Exposure time** | from 16 s. (full dentition) | from 4.5 s (HS mode) |
| **Grey levels** | 65536 - 16 bits | 16384 (14 bit) |
| | MECHANICAL DATAS | |
| **Footprint** | 1107 x 953 mm | 1205 x 1851 mm |
| **Height** | Max 2190 mm | Max 2230 mm |
| **Weight** | Max 67 kgs | Max 125 Kgs |

**Not available in Canada, where these volumes are limited to 80 x 80 mm or 80 x 50 mm.*

| | WORKSTATION MINIMUM REQUIREMENTS | | |
|---|---|---|---|
| | PAN/CEPH WINDOWS (WORKSTATION) | CLIENT WINDOWS | CLIENT MAC OS |
| **Processor** | Intel® Core i5 | Intel i5 | Intel® Core i5 |
| **Hard Disk** | 1TB 7200 rpm | 300 GB | 300 GB |
| **RAM** | 8 GB | 4 GB or 8 GB<br>(for big FOV DICOM stacks) | 4 GB or 8 GB<br>(for big FOV DICOM stacks) |
| **Graphics card** | OPEN GL 2.1 compatible<br>(suggested an NVIDIA GT/GTX) | Nvidia Geforce or Nvidia Quadro<br>with 1 GB dedicated RAM | Nvidia Geforce or Nvidia Quadro<br>with 1 GB dedicated RAM |
| **Screen resolution** | 1600 x 1024 | 1600 x 1024 | 1600 x 1024 |
| **Network card** | INTEL CT 1000 pro | 100 Mb for PAN/CEPH<br>1 Gb for CBCT | 100 Mb for PAN/CEPH<br>1 Gb for CBCT |
| **Operating system** | Windows 10 Professional 64 bits | Windows 10 64 bits | OS X Sierra (10.12) |






# NOTE