TECHNICAL SPECIFICATIONS

X MIND *prime*

IT'S TIME FOR EFFICIENT 3D DIAGNOSIS
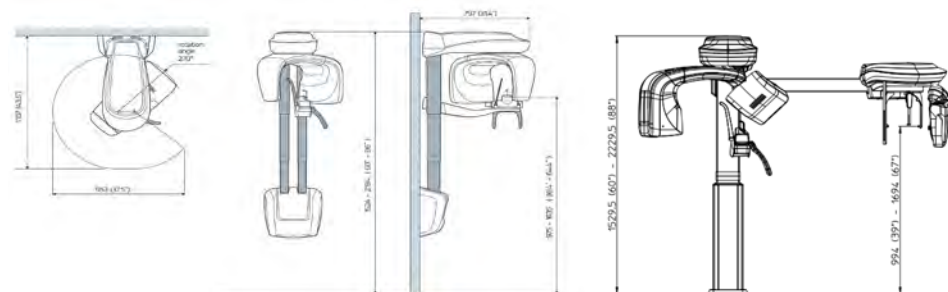
X MIND *prime*

	X-MIND® prime	X-MIND® prime 3D	Cephalometric device
X-RAY SOURCES			
Tube type	D-058 (Toshiba)	OPX 105-12 (CEI)	Skanray / CEI OPX 105-12
Total filtration	2.0 mm AI eq. @ 70kVp	≥ 2.5 mm AI eq. @ 86 kVp	≥ 2.5 mm AI eq. @ 86 kVp
Tube voltage	60 - 70 kV	60 - 86 kV	60-86 kv
Anodic current	2-7.1 mA	2-12.5 mA	2-12.5 mA
Focal spot	0.5 mm	0.5 mm	0.5 mm (EN 60336)
SENSOR			
Type	CCD	CMOS Flat panel	CMOS Flat Panel detector with CsI scintillator
Voxel size	n.a.	Minimum 87.5 µm	na
Pixel size	96 um (binning 2x2)	120 um (binning 2x2) 240 um (binning 3x3)	99 um (binning 1x1) 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 (24 x18 cm - 18x18 cm) Skull Latero-Lateral, with full view of the nape (24 x 24 cm - 18x24 cm) Skull mainly Latero-Lateral (24 x 30 cm - 18x30 cm) Skull Antero/Posterior or Postero/Anterior (24 x 24 cm - 18x24 cm) Hand/wrist examination (24 x 18 cm)
3D programs	n.a.	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	up to 14,4 s.	from 16 s. (full dentition)	from 4.5 s (HS mode)
Grey levels	4096 - 12 bits	65536 - 16 bits	16384 (14 bit)
MECHANICAL DATAS			
Footprint	1107 x 953 mm	1107 x 953 mm	1205 x 1851 mm
Height	Max 2190 mm	Max 2190 mm	Max 2230 mm
Weight	Max 62 kgs	Max 67 kgs	Max 125 Kgs

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 (for big FOV DICOM stacks)	4 GB or 8 GB (for big FOV DICOM stacks)
Graphics card	OPEN GL 2.1 compatible (suggested an NVIDIA GT/GTX)	Nvidia Geforce or Nvidia Quadro with 1 GB dedicated RAM	Nvidia Geforce or Nvidia Quadro 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 1 Gb for CBCT	100 Mb for PAN/CEPH 1 Gb for CBCT
Operating system	Windows 10 Professional 64 bits	Windows 10 64 bits	OS X Sierra (10.12)

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

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

1 minute
to edit your implant report with the intuitive AIS software

1 to 1
Face-to-face patient positioning

0
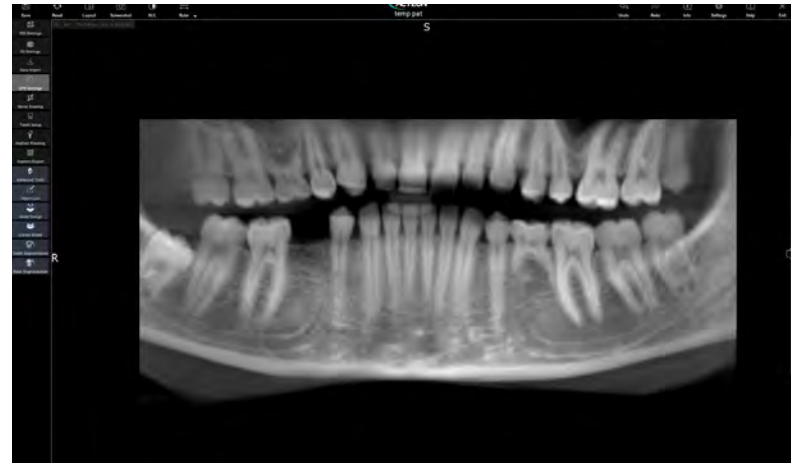Footprint space with the innovative wall mounted system

100%
Mac® and Windows® compatible with AIS software

ACTEON

INNOVATIVE IMAGING

X-MIND® PRIME is a smart solution, providing high-technology capabilities and simplicity of use.

This ingenious unit offers all essential diagnostic tools in a cost effective package.

PROVIDE A COMPREHENSIVE CLINICAL OVERVIEW

IMPLANTOLOGY CLINICAL CASE

1
INITIAL SITUATION

Reconstructed panoramic from the 3D volume
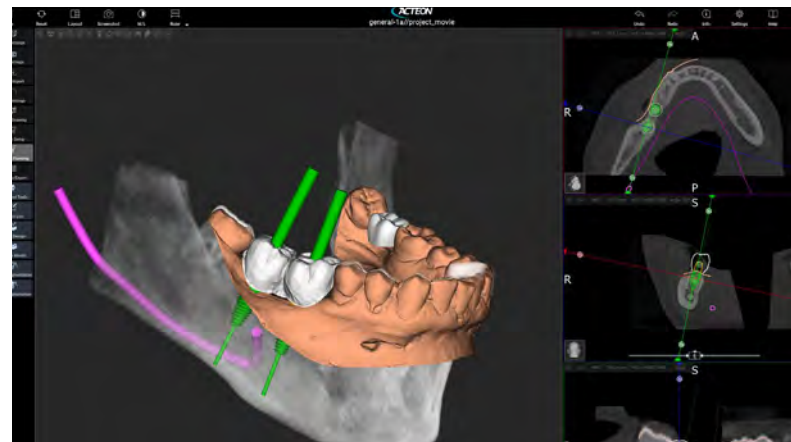
2
IMPLANT PLANNING

Virtual implant treatment planning

3
POST PROCEDURE

Patient follow-up with a panoramic exam

FROM DIAGNOSIS TO TREATMENT, REMOVE THE GUESSWORK

X-MIND® Prime is a complete imaging solution combining panoramic and 3D X-rays, from general examination to specific treatment planning.

▶ Choose your 2D and 3D examination from a wide range of clinical applications

▶ Plan your treatment

▶ Efficiently communicate with your patient

RELY ON A COMPLETE SET OF PANORAMIC EXAMS

X-Mind® Prime offers a full set of panoramic exams tailored to meet all your clinical applications.
It provides all the panoramic exams required 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

Raised image in order to increase the visibility of the sinus 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

Reduce the exposed area and focus on the region of interest.

BITEWING
### Left & Right

Single or bilateral bitewing views.

FRONTAL

Limit the exposure to the front of the arches.

ACTEON

X MIND prime

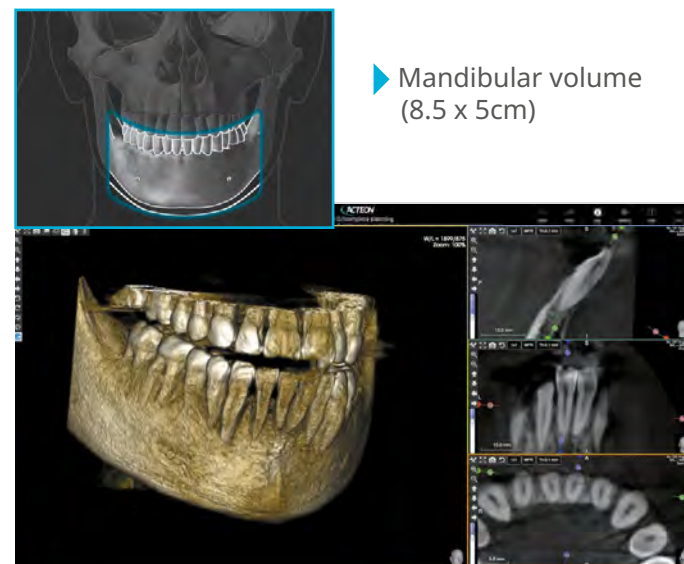# STEP INTO 3D IMAGING AND EXPAND YOUR CLINICAL APPLICATIONS

EFFICIENT 3D SOLUTION WITHIN EVERYONE'S REACH

X-MIND® Prime 3D offers a multitude of acquisition programs with multiple FOV (12x10cm, 8.5x9.3cm, 8.5x5cm, and 5x5cm). Once you select the region of interest of the examination, the settings and dose are automatically adjusted.
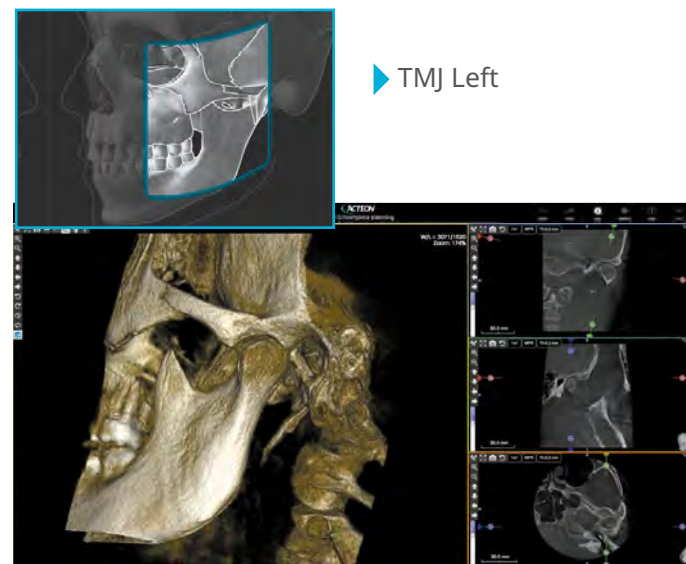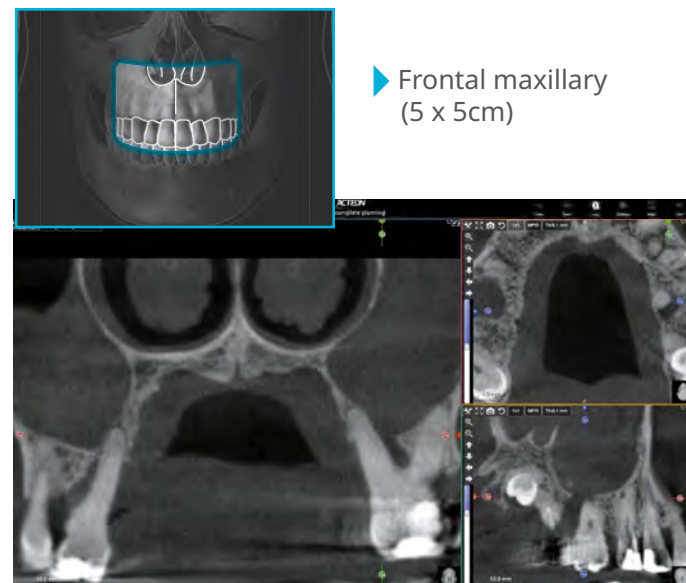

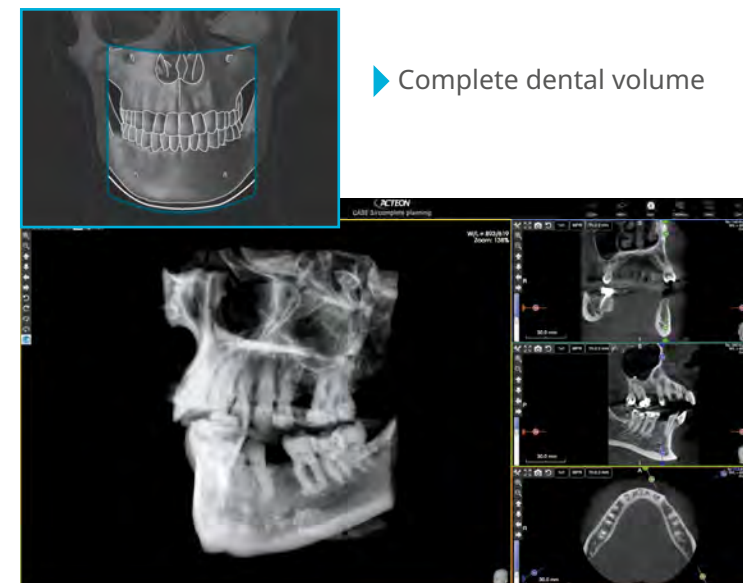
▶ TMJ Left

TMJ analysis - 8.5x9.3cm

▶ Mandibular volume (8.5 x 5cm)

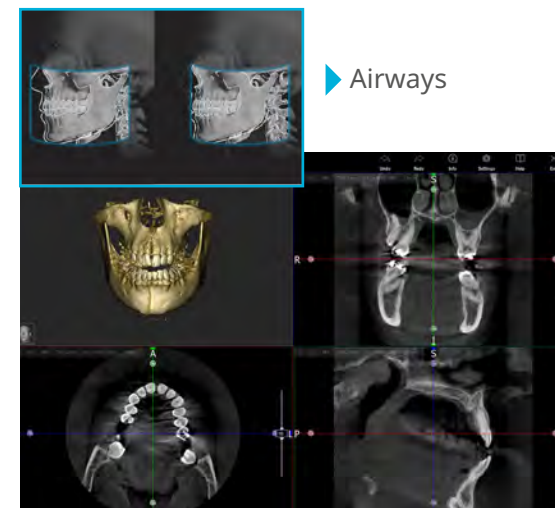*Full volume for pathological research - 8.5x5cm*

▶ Frontal maxillary (5 x 5cm)

Sinuses caused by multiple dental infections - 5x5cm

▶ Complete dental volume

Full volume for implant planning

IMPROVE YOUR POTENTIAL WITH THE ADDITIONAL 12X10 FOV

▶ Airways

Enabling the 12x10 FOV 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

X-MIND® Prime's dedicated holder allows for scans of 3D models in various materials and designs (impressions, stone models, appliances, etc.). Easily export data in STL format!
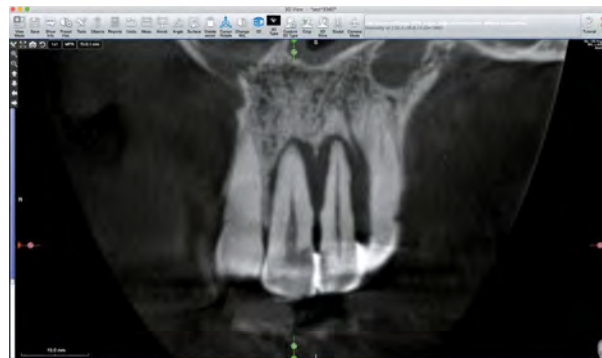

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DIAGNOSE WITH THE HIGHEST QUALITY 2D & 3D IMAGES

MANY APPLICATIONS AVAILABLE

X-MIND® Prime provides many applications dedicated to the needs of both specialists and general practitioners.

▶ Evaluate detailed morphology of bone tissue

Apical lesion on 10 with bone destruction and extended to 9
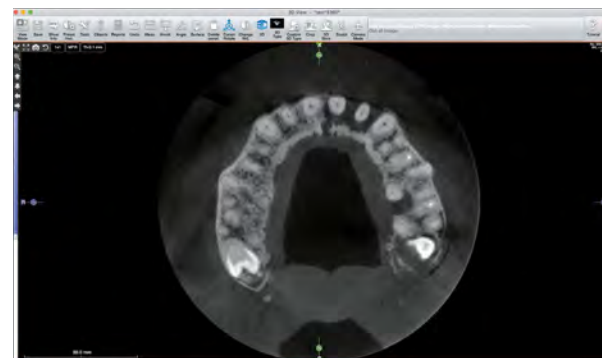
▶ Explore the maxillary sinus

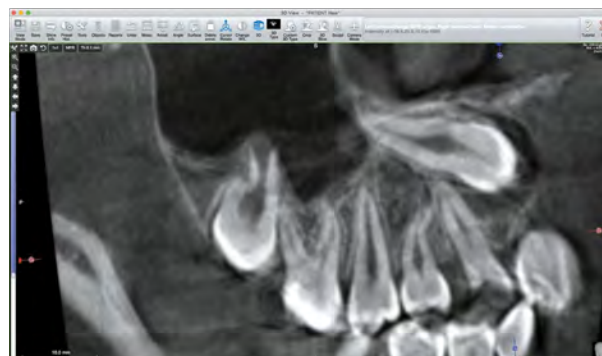*Maxillary sinus analysis*

▶ Examine maxillofacial diseases

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

▶ Detect dental anomalies

Bone loss on 9, 10, 14

▶ Determine the protocol to extract impacted teeth

Impacted canine (6)

▶ Diagnose temporomandibular joint disorders

Left TMJ

ACCURATE IMAGES FOR IMPROVED DIAGNOSIS

With a minimum voxel size of 87.5 μm, you will get detailed three-dimensional reconstructions, able to highlight the smallest anatomical elements.

87.5μm
Voxel size

DIAGNOSE & TREATMENT PLAN WITH SPEED & EFFICIENCY

## OPTIMIZE DIAGNOSIS TIME WITH POWERFUL, INTUITIVE AND HIGH-PRECISION SOFTWARE

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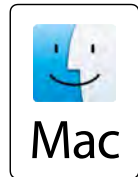
- Superior design
- Clean lines
- User-friendly
- Open architecture
- Full integration
- Advanced functionalities

Mac **WINDOWS® COMPATIBLE** **TWAIN® COMPATIBLE** **DICOM COMPATIBLE** **EXPORTS TO STL FORMAT**

ADVANCED FUNCTIONALITY FOR INTUITIVE NAVIGATION

**AIS software allows you to manage panoramic and CBCT images from acquisition to viewing.**

- Implant planning
- Crown placement
- Mandibular nerve tracing
- Easy navigation in different sections
- Surface, distance and angle measurement
- Substantial and scalable implant library
- Printed implant report

- Sharing of information on a network
- Cases exported on a CD or USB stick
- Export in STL format
- Metal artifact reduction filter
- Panoramic and cephalometric image detail optimization filter
- ENT module
- Virtual endoscope
- Integrates with various patient management software
- DICOM compatible
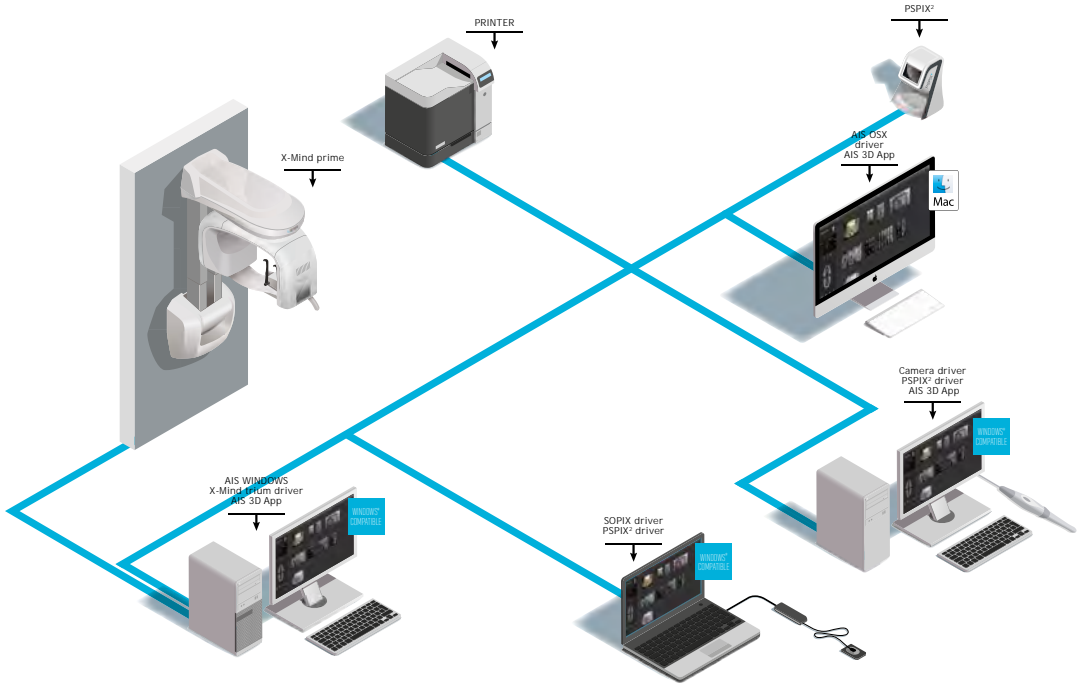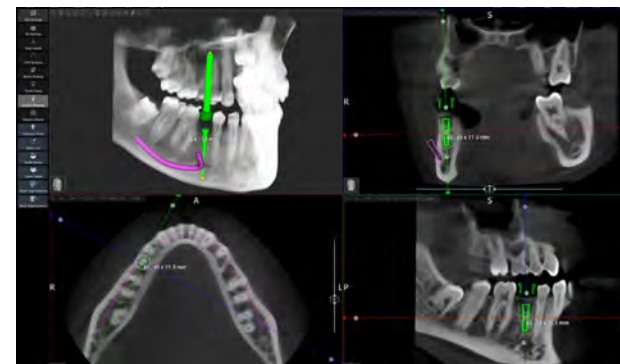
IMPLEMENT A DIGITAL WORKFLOW

IMPLANT PLANNING MADE EASY

Delivered with the smart AIS software, X-MIND® Prime is an essential tool for treatment planning and post-procedure follow-up.
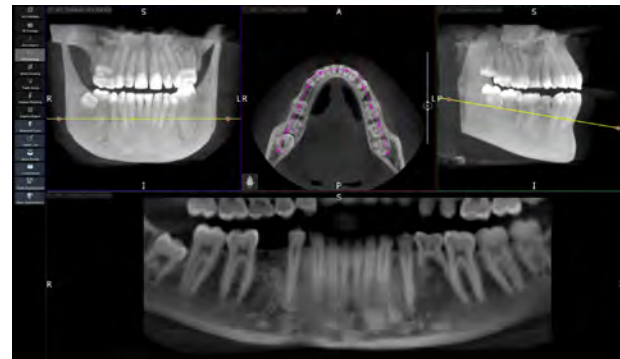
Dental panoramic curve reconstruction

▶ 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.

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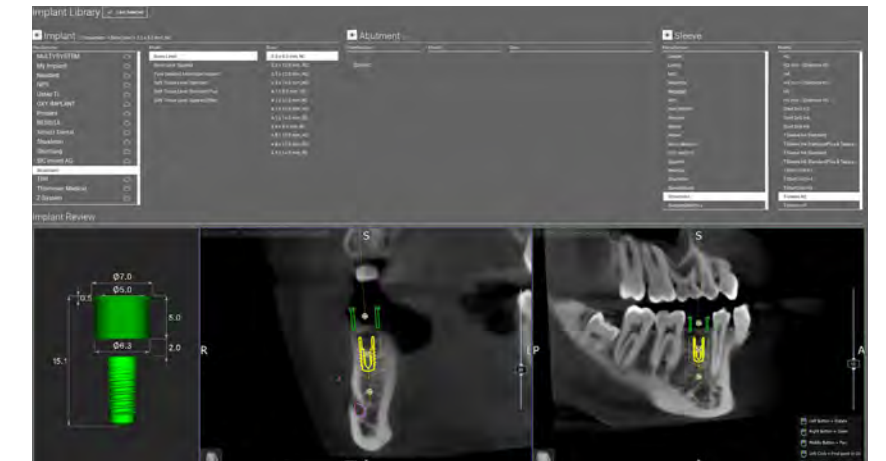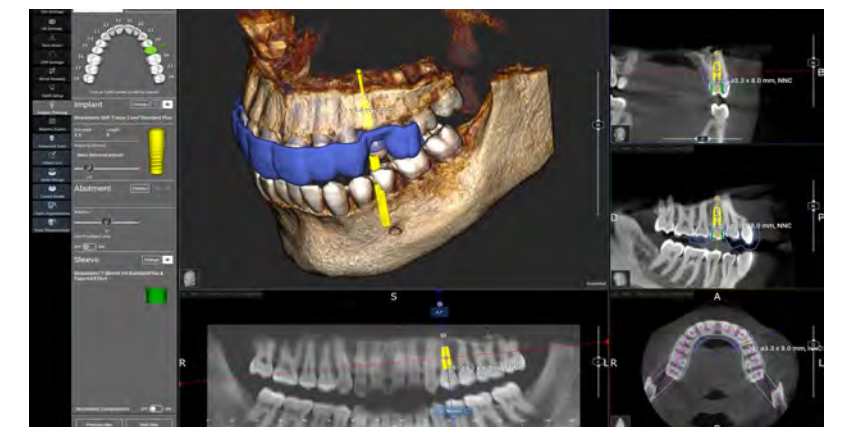

Place your implants

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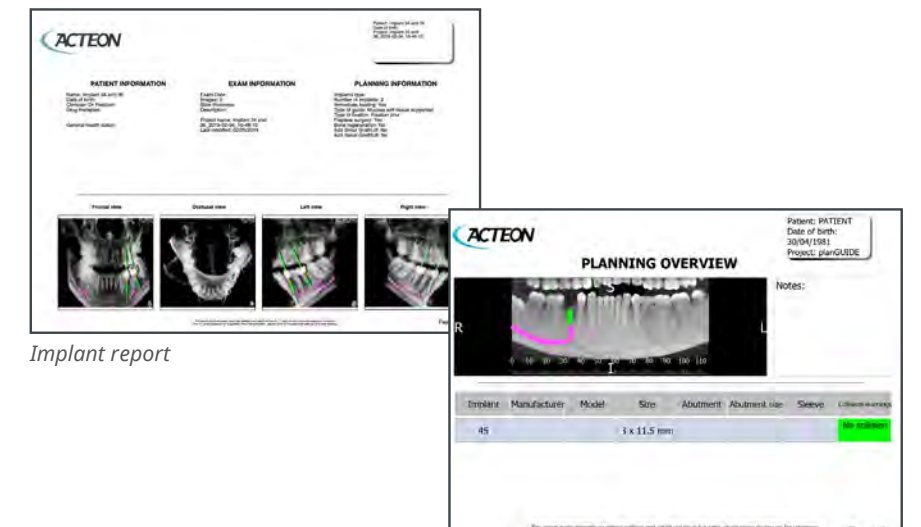
Implant report

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

EASILY AND EFFICIENTLY POSITION YOUR PATIENT

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

SMOOTH PATIENT POSITIONING

Natural face-to-face positioning supported by alignment lasers for correct patient positioning.

Whether sitting or standing at any height, the telescopic columns can be directly adjusted using the control panel.

X-MIND® Prime open space configuration suits all types of patients and is easily accessible for wheelchair users with its zero footprint space.

SIMPLE CONTROL PANEL

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

Error-free patient positioning with automated chin rest support recognition.

OPTIMIZE THE SPACE WITHIN YOUR PRACTICE

INTELLIGENT WALL MOUNTED SOLUTION

Compactness is key. X-MIND® Prime is a space-saving device:
with its smart wall-mounted system, it will never get in your way.

Its exceptional light weight (only 148 lbs for the 3D configuration) and its reduced size makes X-MIND® Prime adaptable. It will fit the narrowest space.

With zero footprint, X-MIND® Prime will not reduce precious workspace within your practice.

ACTEON SERVICE |& YOU|

Imaging Specialists are available to show you the clinical aspects and patient benefits of ACTEON® products.

Free, ongoing and unlimited technical service can be reached Monday to Friday during normal business hours.
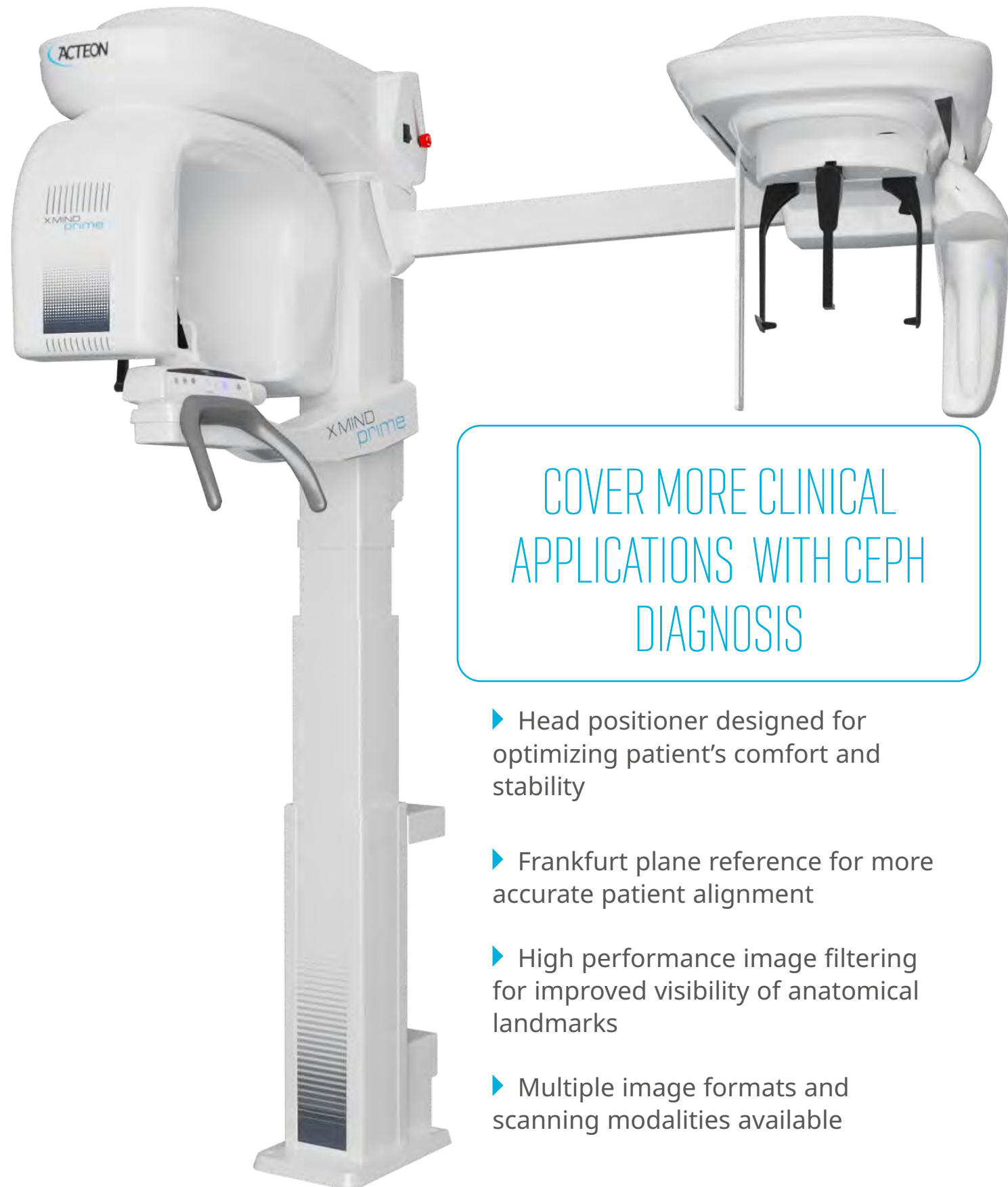
UNMATCHED INSTALLATION SPEED

X-Mind® Prime is ready to install! Delivered completely assembled at your practice, you are all set-up in only one hour.

As simple as one box, one technician, two steps and that's it!

Installation does not disrupt the office, helping you to save time.

1

hour
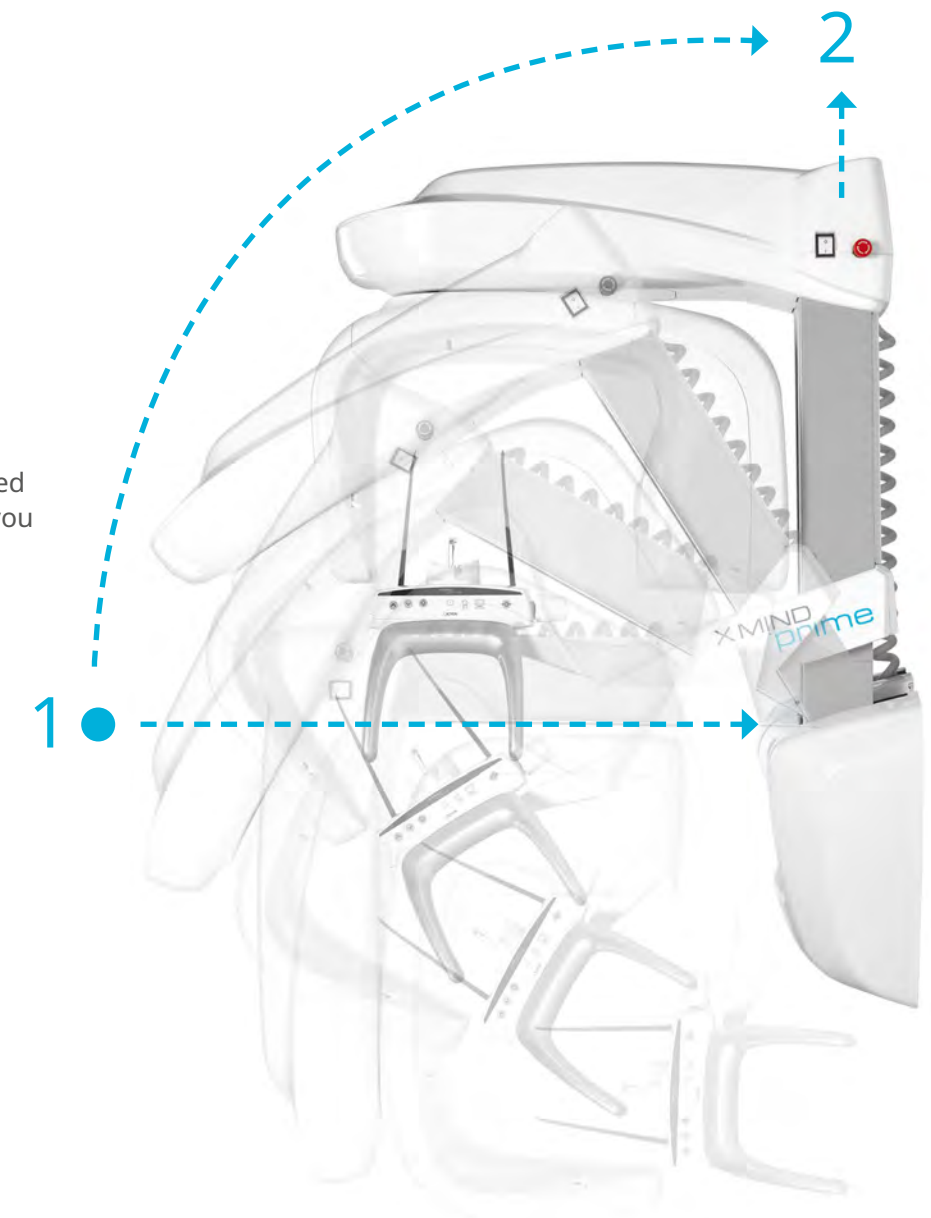
PRIME WITH CEPHALOMETRIC ARM

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.

COVER MORE CLINICAL APPLICATIONS WITH CEPH DIAGNOSIS

▶ Head positioner designed for optimizing patient's comfort and stability

▶ Frankfurt plane reference for more accurate patient alignment

▶ High performance image filtering for improved visibility of anatomical landmarks

▶ Multiple image formats and scanning modalities available

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 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.

SOLUTIONS FOR ANY PRACTICE

CHOOSE THE CONFIGURATION THAT FITS YOUR NEEDS

▶ X-MIND® prime: Panoramic solution

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

▶ X-MIND® prime with Ceph and X-MIND® prime 3D with Ceph

X-MIND® prime

X-MIND® prime 3D

	X-MIND® prime	X-MIND® prime 3D
Pan	●	●
3D	○	●

Also available in standing mount.

● : available option

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

X-MIND® prime with Ceph

X-MIND® prime 3D with Ceph

	X-MIND® prime with Ceph	X-MIND® prime 3D with Ceph
Pan	●	●
Ceph	●	●
3D	○	●

● : available option