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RCS Paris 8337934483 - 018519a



# IT'S TIME FOR EFFICIENT 3D DIAGNOSIS

## X MIND **prime**



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EN



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



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 an accessible product.

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%

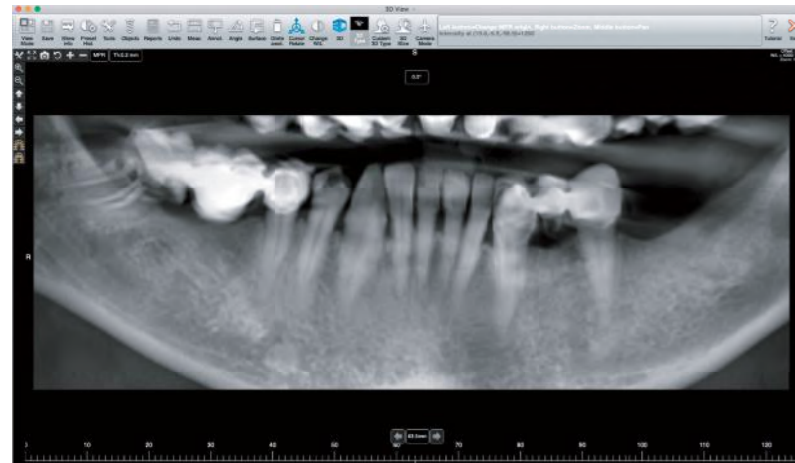
Mac® and Windows® compatible  
with AIS software



# PROVIDE A COMPREHENSIVE CLINICAL OVERVIEW

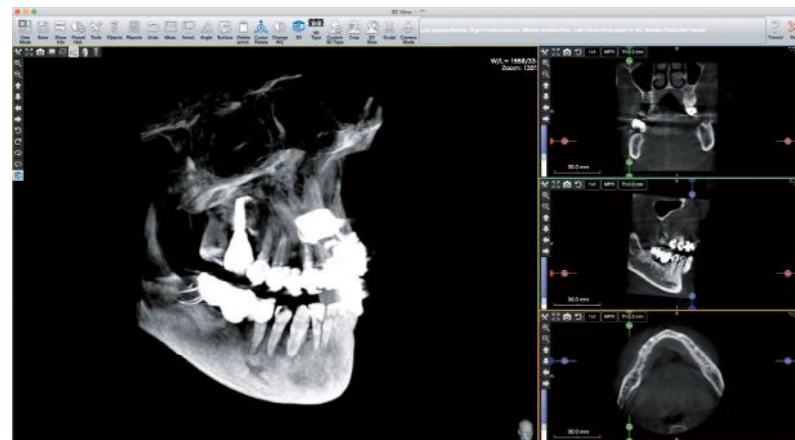
## IMPLANTOLOGY CLINICAL CASE

## FROM DIAGNOSIS TO TREATMENT, REMOVE THE GUESSWORK



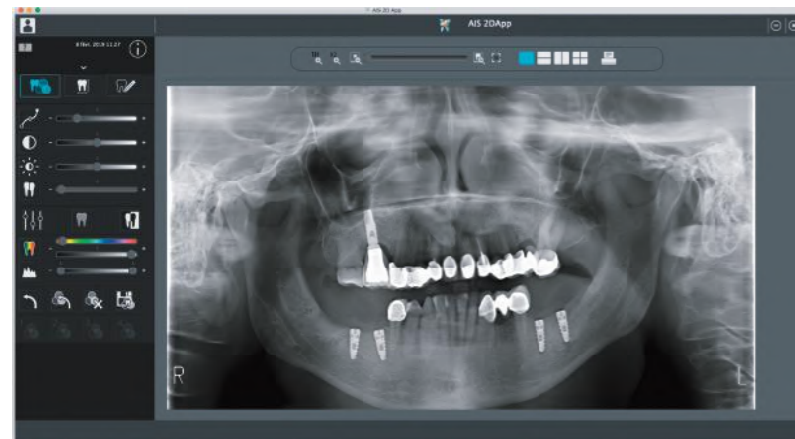
### 1 INITIAL SITUATION

Reconstructed panoramic  
*Complete analysis, no molar present in the third quadrant (lower left). The remaining molar (47-fourth quadrant, lower right) has to be extracted and the bridge has to be removed. Modification of the crown present on 45.*



### 2 IMPLANT PLANNING

Full dental volume  
*Virtually add two implants on 36 and 37 to place molar on the third quadrant. Extraction of 47 and the crown (fourth quadrant) by two implants on 46, 47.*



### 3 POST PROCEDURE

Patient follow-up thanks to a panoramic exam

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

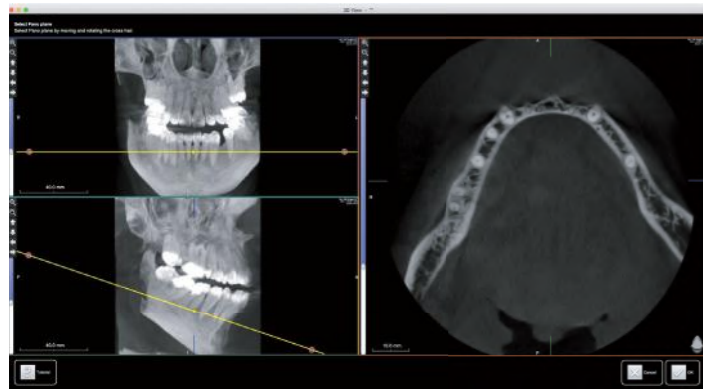


# EASILY PLAN YOUR TREATMENT WITH A DIGITAL WORKFLOW

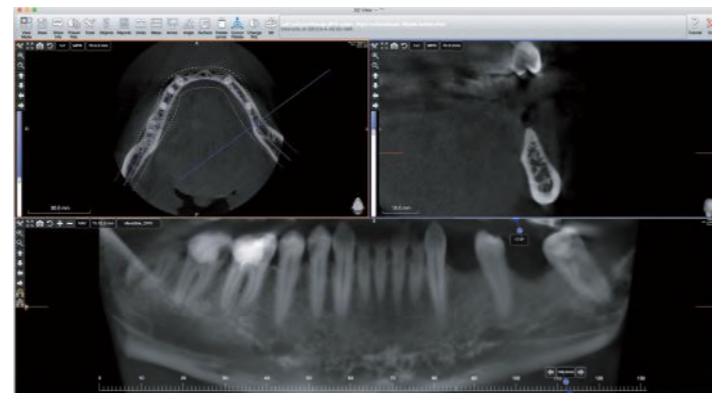
## IMPLANT PLANNING MADE EASY

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

- ▶ Draw a panoramic curve

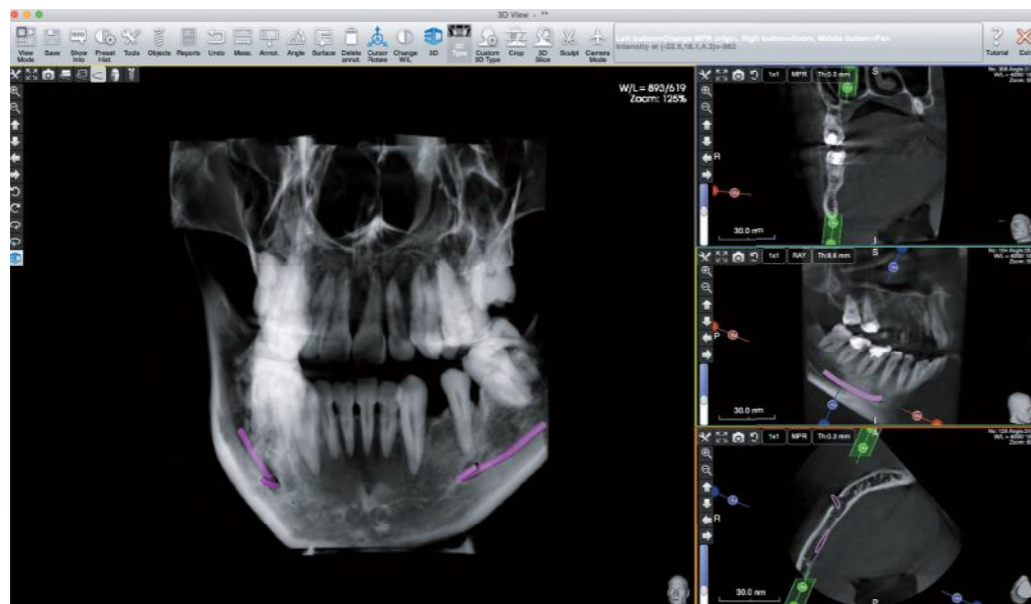


Dental panoramic wizard



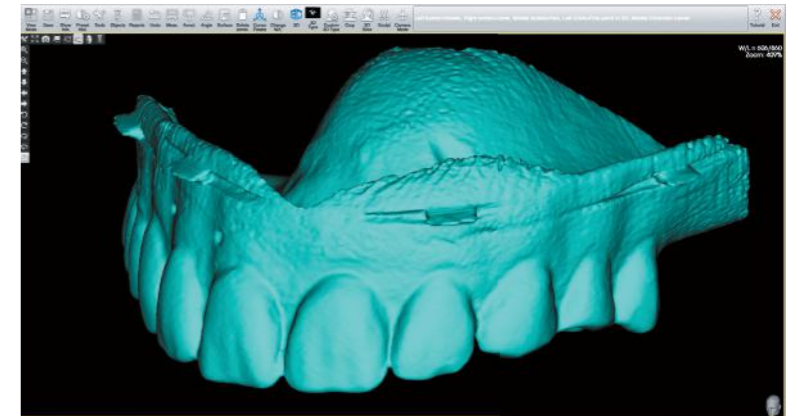
Reconstructed panoramic view

- ▶ Trace the mandibular canal and measure the distance between the upper canal boundary and the upper mandibular crestal bone



Localization of the implant and the mandibular canal

- ▶ The Dual scan protocol will help you to better position the implants in regards to the soft tissues thanks to the overlapping function. Scan the patient appliance with the X-Mind® prime 3D scan objects feature, generate its surface and export it in STL file. Then this file will be used for the matching with the patient scan.



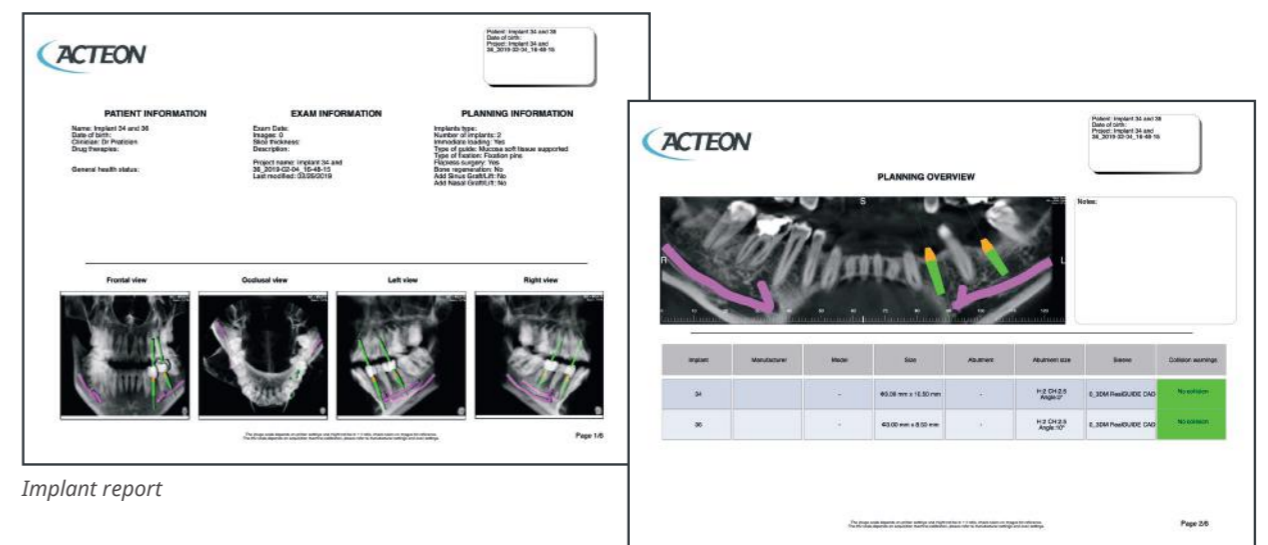
Appliance surface generation

- ▶ Select the right implant from a large library



Place your implants

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



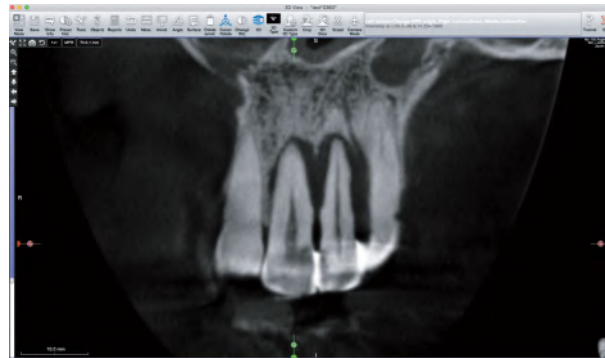
Implant report

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

## LARGE DIVERSITY OF APPLICATIONS

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 22 with bone destruction and extended to the 21

- ▶ Explore the maxillary sinus



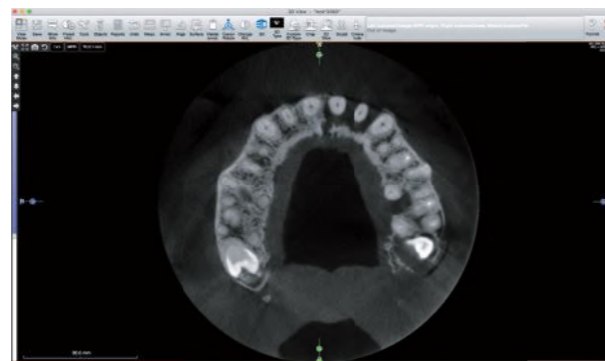
Maxillary sinus analysis

- ▶ Examine maxillofacial diseases



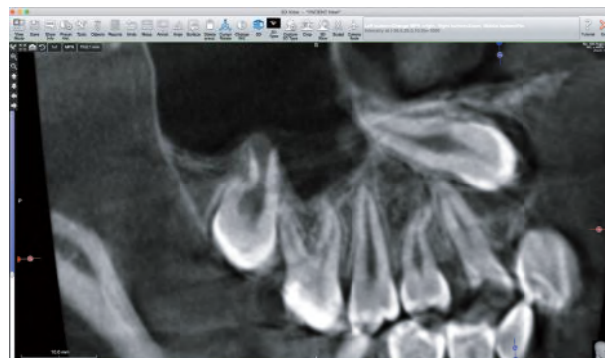
Cyst on fourth quadrant (lower right), with bone destruction

- ▶ 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 IMPROVED DIAGNOSIS

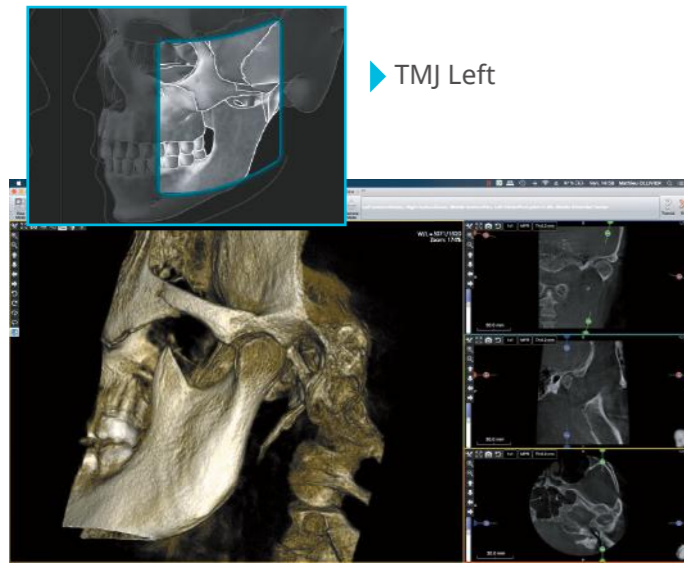
With a minimum voxel size of 87,5  $\mu\text{m}$ , you will get detailed three-dimensional reconstructions, able to highlight the smallest anatomical elements.

87.5  $\mu\text{m}$   
Voxel size

# STEP INTO 3D IMAGING AND EXPAND YOUR CLINICAL APPLICATIONS

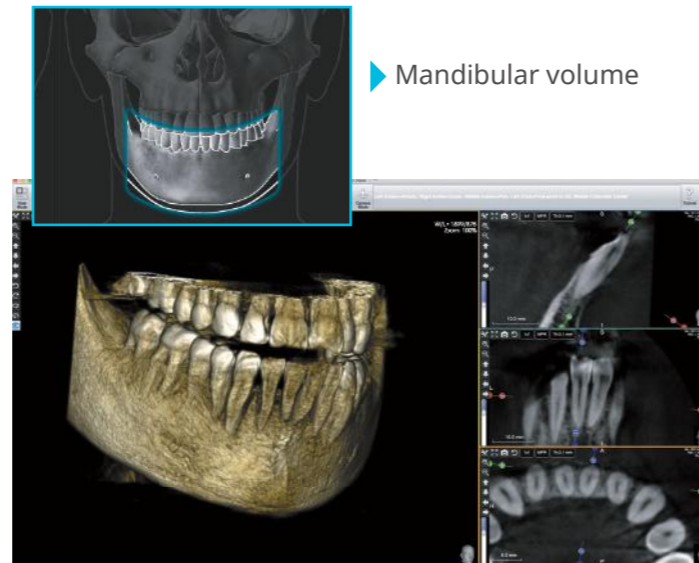
## EFFICIENT 3D SOLUTION WITHIN EVERYONE'S REACH

X-Mind® prime 3D offers a multitude of acquisition programs thanks to its multiple FOV (from 50x50 to 85x93). Once you select the region of interest of the examination, the settings and dose are automatically adjusted.



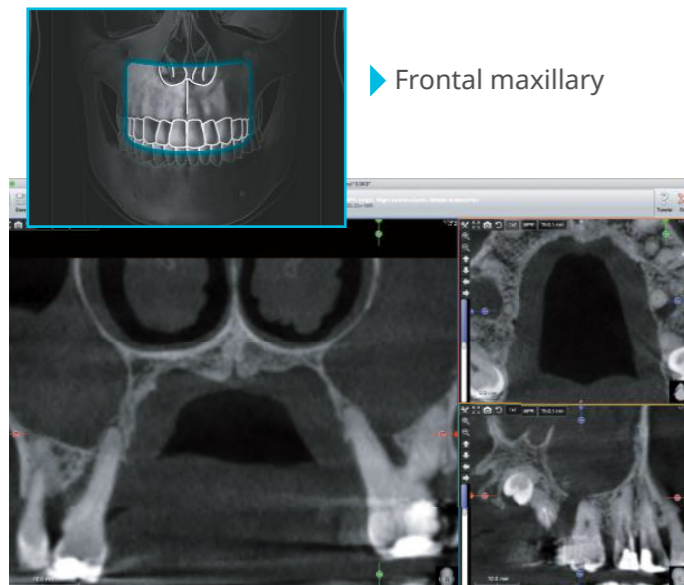
▶ TMJ Left

*TMJ analysis*



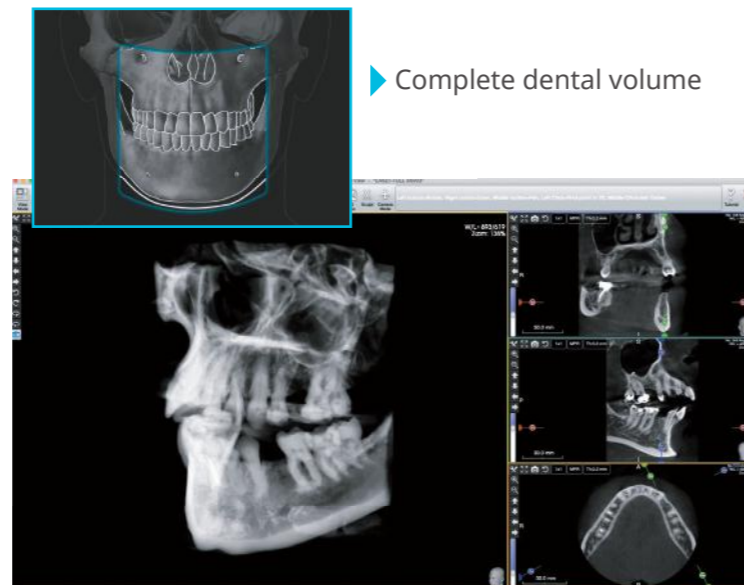
▶ Mandibular volume

*Full volume for pathological research*



▶ Frontal maxillary

*Sinuses caused by multiple dental infections*



▶ Complete dental volume

*Full volume for implant planning*

## SEVERAL FOV FOR MANY APPLICATIONS

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

## SCAN 3D OBJECTS

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!



# 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 requested for general dentistry: dental panoramic, temporomandibular joints, sinuses.



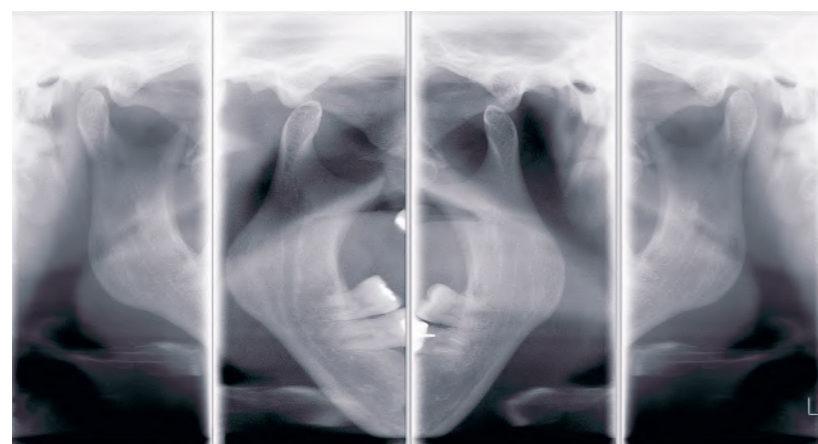
## DENTAL PANORAMIC

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



## MAXILLARY SINUSES

*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

*Reduced 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.*



# POSITION EASILY AND EFFICIENTLY 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 thanks to its zero footprint space.**



## SIMPLE 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 productive patient workflow.



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





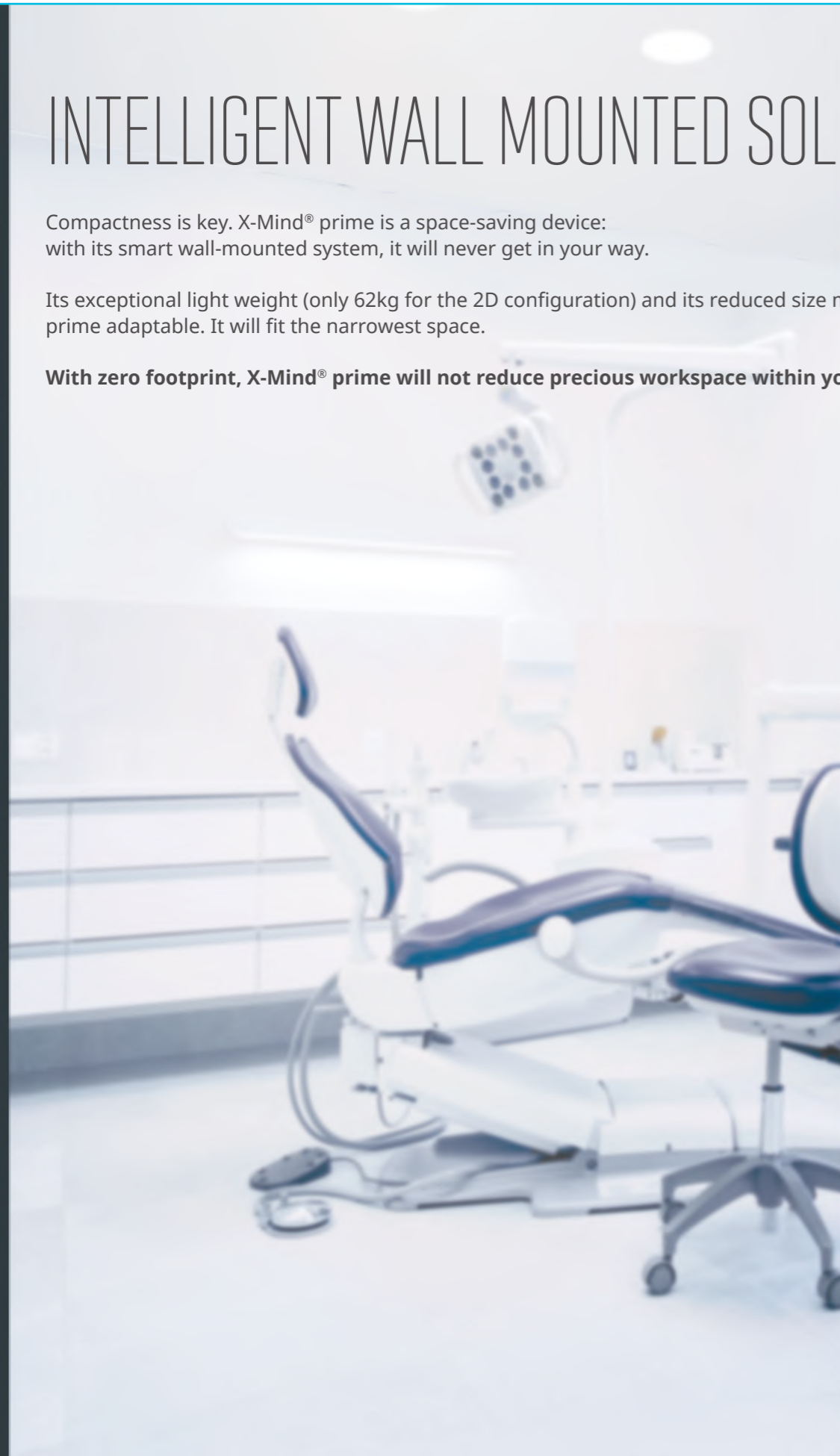
# OPTIMIZE THE SPACE WITHIN YOUR PRACTICE

## 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.

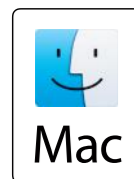
Its exceptional light weight (only 62kg for the 2D configuration) and its reduced size makes X-Mind® prime adaptable. It will fit the narrowest space.

**With zero footprint, X-Mind® prime will not reduce precious workspace within your practice.**



# EXCEL IN YOUR ANALYSIS IN RECORD TIME

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

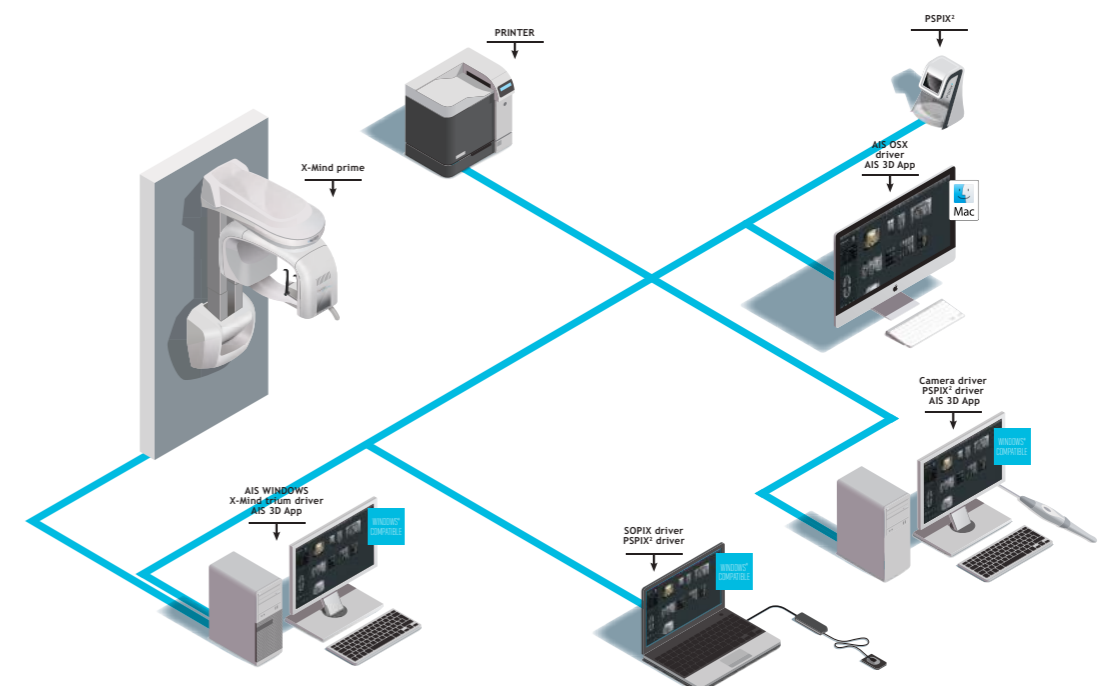


- ▶ Superior design
- ▶ Clean lines
- ▶ User-friendly
- ▶ Open architecture
- ▶ Full integration
- ▶ Advanced functionalities

## ADVANCED FUNCTIONALITY FOR INTUITIVE NAVIGATION

The ACTEON® Imaging Suite software offers intuitive navigation and advanced functionality. It alone lets you manage all of your images, from scanning to viewing images from all ACTEON® imaging devices (CBCT, Panoramic, intraoral digital X-ray system, intraoral camera, etc.) and much more.

- ▶ Implant planning
- ▶ Crown placement
- ▶ Mandibular nerve tracing
- ▶ Easy navigation in different sections
- ▶ Mouse control
- ▶ 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
- ▶ Exported in STL format
- ▶ Metal artifact reduction filter
- ▶ Panoramic and cephalometric image detail optimisation filter
- ▶ ENT module
- ▶ Virtual endoscope
- ▶ Integrates with various patient management software
- ▶ Dicom compatible



*AIS is not available with PSPIX®, SOPIX Series and ACTEON intraoral cameras products in the USA and Canada.*

# SOLUTIONS FOR ANY PRACTICE

## CHOOSE THE UNIT THAT WILL FIT YOUR CLINICAL NEEDS

- ▶ X-Mind® prime pan: Panoramic solution only
- ▶ X-Mind® prime pan 3D: CBCT solution providing both panoramic and 3D exams



X-Mind® prime Pan

X-Mind® prime Pan 3D

Pan



3D



Also available in standing mount.

● : available option

## ACTEON SERVICE & YOU

“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, from 09:00 to 18:00.

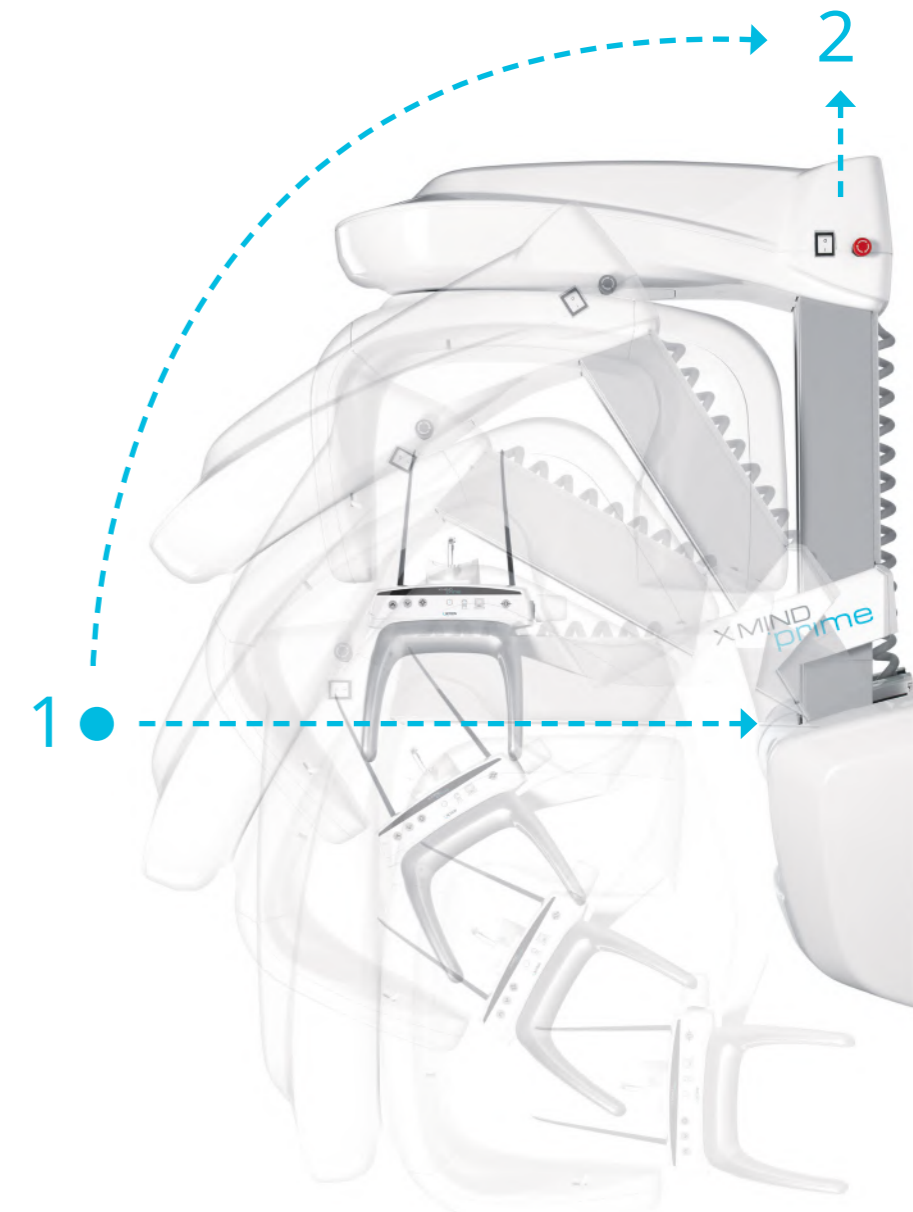
ACTEON® can also analyse and troubleshoot remotely, and specialist technicians can provide on-site service as quickly as possible.

## UNMATCHED SPEED OF INSTALLATION

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

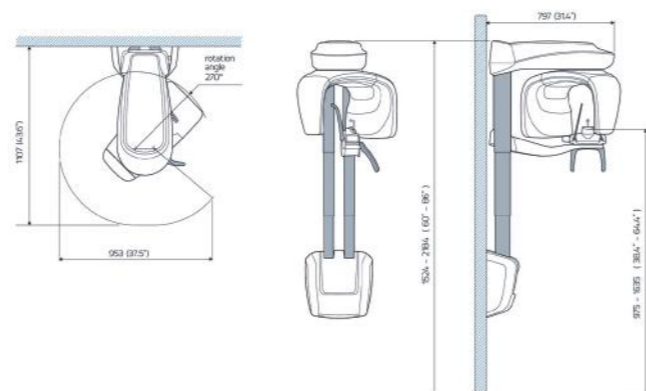
**As simple as one box, one technician, two steps and that's it!**

It does not interrupt the daily work and operations of the office, helping you to save time.



# TECHNICAL SPECIFICATIONS

## X-MIND prime



	X-Mind® prime 2D	X-Mind® prime 3D
<b>X-RAY SOURCES</b>		
<b>Tube type</b>	D-058 (Toshiba)	OPX 105-12 (CEI)
<b>Total filtration</b>	2.0 mm Al eq. @ 70kVp	≥ 2.5 mm Al eq. @ 86 kVp
<b>Tube voltage</b>	60 - 70 kV	60 - 86 kV
<b>Anodic current</b>	2-7.1 mA	2-12.5 mA
<b>Focal spot</b>	0.5 mm	0.5 mm
<b>SENSOR</b>		
<b>Type</b>	CCD	CMOS Flat panel
<b>Pixel size</b>	48 µm	120 µm
<b>Voxel size</b>	n.a.	Minimum 87.5 µm
<b>ACQUISITION</b>		
<b>PAN Programs</b>	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)	
<b>3D programs</b>	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)*
<b>Exposure time</b>	14,4 s.	7 s. (full dentition)
<b>Grey levels</b>	4096 - 12 bits	65536 - 16 bits
<b>MECHANICAL DATAS</b>		
<b>Footprint</b>	1107 x 953 mm	1107 x 953 mm
<b>Height</b>	Max 2190 mm	Max 2190 mm
<b>Weight</b>	Max 62 kgs	Max 67 kgs
<b>IEC</b>		
<b>Class &amp; Type</b>	Class I with type B applied parts according to IEC 60601-1 classification	

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

	<b>WORKSTATION MINIMUM REQUIREMENTS</b>		
	PAN/CEPH WINDOWS (WORKSTATION)	CLIENT WINDOWS	CLIENT MAC OS
<b>Processor</b>	Intel i5	Intel i5	Quadcore 2.6 GHz
<b>Hard Disk</b>	1TB 7200 rpm	300 GB	300 GB
<b>RAM</b>	8 GB	4 GB or 8 GB (for big FOV DICOM stacks)	4 GB or 8 GB (for big FOV DICOM stacks)
<b>Graphics card</b>	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
<b>Screen resolution</b>	1600 x 1024	1600 x 1024	1600 x 1024
<b>Network card</b>	INTEL CT 1000 pro	100 Mb for PAN/CEPH 1 Gb for CBCT	100 Mb for PAN/CEPH 1 Gb for CBCT
<b>Operating system</b>	Windows 7 Professional 64 bits	Windows 7 64 bits	OS X Sierra (10.12)

X-Mind® prime is manufactured by Villa Sistemi Medicali and distributed by ACTEON.

