



Because we believe that scientific and technical progress must have the welfare of the human being at the forefront of our mind, we base our approach on minimally invasive clinical solutions and we listen to practitioners and their patients to ensure every innovation within ACTEON® is the result of collective and respectful intelligence. The R&D, product-marketing and production teams, in collaboration with world-leading expert-practitioners, have one common goal: an optimal quality of care.

This is Our behaviour.

Our challenge. Our DNA.





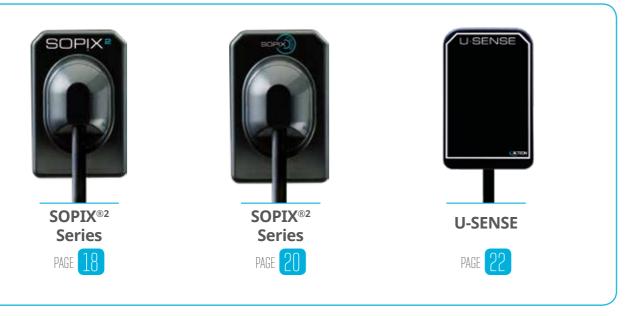
## A COMPLETE RANGE TO SEE FURTHER

PANORAMIC CEPH AND 3D IMAGING





DIGITAL RADIOLOGY SENSORS





DIGITAL
RADIOLOGY
SYSTEM BY
PHOSPHOR
PLATE







\*Acteon Imaging Suite

# X MIND trium

trium

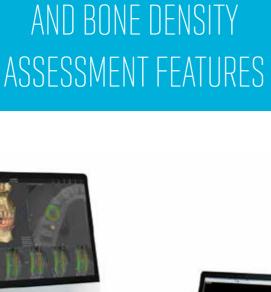


Ultra HIGH RESOLUTION : 75 µm

- 3D RECONSTRUCTION
- 4 FOV: from 110x80 to 40x40
- **OPTIMAL METAL ARTEFACT REDUCTION FILTER**
- CEPH RADIOGRAPHY









360°

## MANY FUNCTIONALITIES REALLY USEFUL TO PRACTITIONERS

### CONCEPTUALIZE TO MAKE THE DENTIST'S DAILY LIFE EASIER

Discover the several features of the X-MIND® trium:



The alone map of bone density



An Implant Planning report in less than 1min



An efficient artefact reduction filter



A superior image quality (Resolution: 75μm, 100μm)



4 FOV (110x90; 80x90; 60x60; 40x40) to cover all applications



A unique software



Windows and Mac compatible



The smallest footprint with CEPH (Patented)



The most comprehensive solution - 3 in 1 machine



## IT'S TIME FOR TRUE LOW DOSE CBCT





## DOSE REDUCTION WITHOUT COMPROMISES IN IMAGE QUALITY

### UP TO 50%\* DOSE REDUCTION WITH TRUE LOW DOSE CBCT

True low dose helps to reduce the X-ray dose while preserving a high image quality. The unique True Low Dose solution is possible thanks to:

### Image enhancing algorithm

With the new powerful algorithm, you can now decrease the X-ray settings (up to 50%) with peace of mind. Our Low Dose functionality on the 3D radiographic scan will reveal the same anatomical structures of the X-MIND® trium exam performed with the standard dose.



STANDARD DOSE





TRUF LOW DOSF

### Smart slide movement

X-MIND® trium U-arm is sliding closer to the child's head during the exam. This allows to reduce the X-ray dose settings while keeping the exact same image quality as before.

### BEFORE SLIDE MOVEMENT





### AN OUTSTANDING IMAGE QUALITY

The quality of the diagnosis and endodontic treatments improves significantly with the 75 µm resolution of X-MIND® trium.





## INSTANTLY ASSESS BONE DENSITY AND VOLUME

A precise and detailed analysis of the existing bone volume is highly recommended in order to reduce complications associated with implant placement.

The Acteon Imaging Suite 3D software displays the assessment of bone density all around the implant with just one click.



### FOCUS ON THE REGION OF INTEREST

X-MIND® trium offers you a broad selection of field of view, letting you focus on the region of interest for the target diagnosis and reducing the patient's exposure to X-rays:



ø 110x90 mm



ø 80x90 mm



ø 60x60 mm



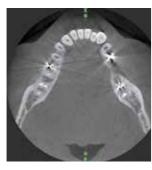
ø 40x40 mm

Indispensible for endodontics, X-MIND® trium's metallic artifact reduction filter differentiates with extreme precision man-made material and human anatomy.

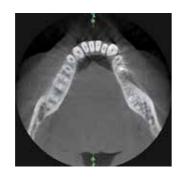
AN OPTIMAL FILTER FOR REDUCING METAL ARTIFACTS

The goal is to best isolate the desired information during the examination.

WITHOUT FILTER



WITH FILTER



### **PANORAMICRADIOGRAPHY**



NEW & UNIQUE CEPHALOMETRIC FILTERS

### PANORAMIC WITH IMPROVED ORTHOGONALY



X-ray beam perpendicular to the jaw for better orthogonality and to reduce the overlapping of crowns.

BITEWING



A quick bitewing image in one shot

### FULL SKULL LATERAL



TMJ SECTIONS



Possible for both open and closed mouth

MAXILLARY SINUS

Frontal view of the lower portion of the maxillary sinus and paranasal area

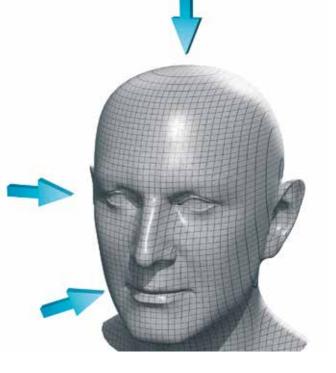
POSTERIOR ANTERIOR



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## ULTRA HIGH RESOLUTION 75 µm

The quality of the diagnosis and endodontic treatments improves significantly with resolution at  $75\,\mu m$  on the X-MIND® trium True Low Dose. X-MIND® trium has a scanning and reconstruction algorithm that produces a high-quality 3D image. The representation of bone material in the maxillofacial skele



## IT'S TIME FOR EFFICIENT PANORAMIC X-RAY



### **RELY ON A COMPLETE SET OF PANORAMIC EXAMS**

X-MIND® prime offers a full set of panoramic exams for both adult and child, tailored to meet all your clinical applications:

- Examination of the temporomandibular joints
- Examination of the maxillary sinuses
- Half-panoramic

- Improved orthogonal panoramic
- Detailed frontal dentition
- Low-dose panoramic
- Bite-wing

### DENTAL PANORAMIC



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

### TEMPOROMANDIBULAR JOINT



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

### FRONTAL DENTITION



Program that limits the exposure to the front of the arches.

**SOLUTION** 



bite-wing view.

**INTELLIGENT WALL-MOUNTED** 

smart wall-mounted system, it will never get in your way.

**Easy user interface** 

**Easy installation** 

Easy to use







Compactness is key. X-MIND® prime is a space-saving device: with its

Its exceptional light weight (only 62 kg for the 2D configuration), and its reduced size makes X-MIND® prime adaptable to fit the narrowest

### **Easy 2D diagnosis**











## RELY ON A COMPLETE SET OF PANORAMIC EXAMS

### **POSITION EASILY AND EFFICIENTLY YOUR PATIENT**

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

X-MIND® prime is based on a fix & lift principle. Whether sitting or standing at any height, the telescopic columns can be directly adjusted using the control panel.

Its open space configuration suits all types of patients and is easily accessible for wheelchair users, thanks to its zero footprint space.



### SIMPLE CONTROL PANEL

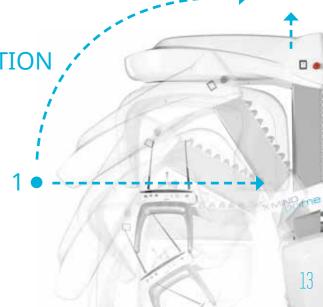
The simplified control panel, smartly located below the chin support, provides a streamlined and precise patient positioning.

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

### **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 1 box, 1 technician, 2 steps and that's it!



## IT'S TIME FOR EFFICIENT 3D DIAGNOSIS





## PROVIDE A COMPREHENSIVE CLINICAL OVERVIEW

### EASILY PLAN YOUR TREATMENT WITH A DIGITAL WORKFLOW

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

- Draw a panoramic curve
- Trace the mandibular canal and measure the distance between the upper canal boundary and the upper mandibular crest bone
- Select the right implant from a large library
- Print your illustrated and complete implant report in less than a minute.
- You can also scan the patient Appliance with the X-MIND® prime 3D scan objects feature and use it for the matching with the patient scan.
- Create your surgical guide



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

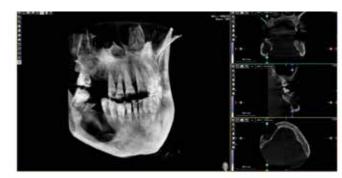
X-MIND® prime 3D provides a large numer of applications dedicated to the needs of both specialists and general practitioners.

With a maximum voxel size of  $87.5\,\mu\text{m}$ , you will get detailed three-dimensional reconstructions, able to highlight the smallest anatomical elements.

### TMJ ANALYSIS



### CYST ANALYSIS



\*Acteon Imaging Suite

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## THE BRAND NEW VERSION WITH CEPHALOMETRIC ARM





# EASY, RELIABLE AND SAFE MOBILE SENSOR HANDLING

### **CEPHALOMETRIC RADIOGRAPHY**

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.

FULL SKULL LATERAL



CEPH LATERAL



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.

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## IT'S TIME FOR PLUG AND PLAY





A SUCCESSFUL X-RAY

EVERY TIME WITH

MINIMAL EXPOSURE

TO RADIATION



- Stricking contrast thanks to FIBER2PIXEL technology
- HIGH Quality images
- No more overexposed images with ACE technology
- Rounded edges and corners for better comfort

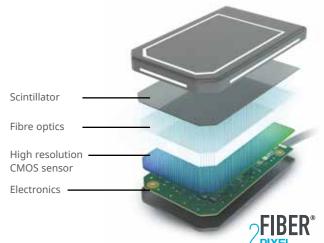




## A MORE RELIABLE DIAGNOSIS

## STRIKING CONTRAST FOR A MORE RELIABLE DIAGNOSIS

Thanks to the use of **broad spectrum optical microfibers**, the **different tooth anatomic structures**, such as the bone, roots, pulp... are highlighted with **extreme precision** on the image.



### SMART DESIGN FOR BETTER COMFORT

Two sizes are available depending on patient morphology and clinical applications.

**Rounded edges and corners** for improved **patient comfort**. **White side stripes** ensure **high visibility** of the sensor in the dark area of the mouth.



### NO MORE OVEREXPOSED IMAGES

Available on all SOPIX® series sensors, the patented ACE technology freezes the image during acquisition **to protect** it **from over-exposure**.

Acquire perfect image the first time and every time!



**ENDODONTICS** 



PERIODONTICS



IMPLANTOLOGY



PERIAPICAL







# STOP TO EXCESSIVE RADIATION

## AN OPTIMAL PROTECTION

The communication between the X-MIND® unity and SOPIX®2 SERIES inside sensor provides unique benefits.

When SOPIX® inside has received enough energy to provide an exceptional image quality, it tells the X-MIND® unity to stop the X-ray emission.



- Confortable examinations with smart design
- Minimal exposed time for the patient
- 2 Sizes for more practical examinations
- Integrations of the product with X-MIND® Unity generator





## MAKE COMFORTABLE EXAMINATIONS

SOPIX<sup>®2</sup> series have rounded corners, and are specifically designed to offer greater comfort for the patient, the key for a precise diagnosis!



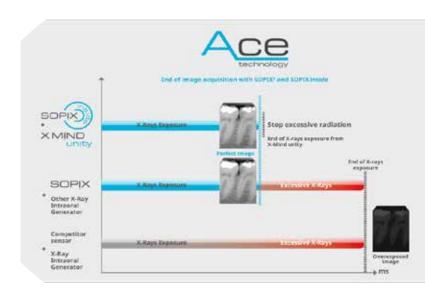




### **CUTTING EDGE TECHNOLOGY**

Available in all SOPIX® series sensors, patented ACE technology (Automatic control exposure) analyses in real-time, the amount of X-rays accumulated by the sensor. It automatically freezes the image acquisition as soon as the sensor receives the radiation required to produce the perfect image. Eliminate the risk of over exposing the image!

Combined with the X-Mind® unity intraoral X-ray generator, SOPIX inside with ACE technology **limits the emission of x-rays** during the acquisition to the necessary amount for the patient's morphology. It uses the **minimum dose** required to provide a high-quality image.





## U-SENSE

# MAKE YOUR EXAMINATION FASTER AND MORE ACCURATE!





- Stricking contrast for better tissue differentiations
- High resolution images 25 lp/mm
- 3 seconds acquisition time
- Direct connection to the computer
- 2 sizes to meet any application needs







## QUICK AND DIRECT USE

U-SENSE & U-SENSE  $^{\rm HD}$  are direct USB connected thus ensuring high usability in your daily workflow.

The 3 meters cable length makes it adaptable to any type of dental office. The shock absorption area integrated in the multi-layer structure of the sensor makes it reliable and durable.

### HIGH-QUALITY IMAGES FOR ANY CLINICAL NEED

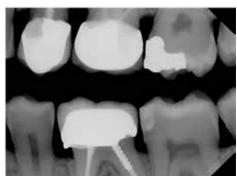
U-SENSE and U-SENSE<sup>HD</sup> come in two different sizes. The active area of 20x30 mm corresponding to the size 1 it's suitable for pedodontics, periapical and endodontics images, while the 26x34 mm of the size 2 are ideal for occlusal and bitewing examinations.

With its resolution of 25 lp / mm the HD version further provide high quality images ensuring accuracy and reliability in diagnostics.

**ENDODONTIC** 







BITEWING

PERIAPICAL



POSTERIOR



## IT'S TIME FOR EASY SCAN





THE FIRST PERSONAL IMAGING PLATE
SCANNER



### PERFECTLY ADAPTED TO ALL CLINICAL APPLICATIONS









## A SIMPLER AND MORE INTUITIVE SCANNER



Begin your analysis after 12 seconds!

Workflow has never been so smooth and efficient, through its outstanding intellectual ability.



**Readjust to your patient's morphology** and your clinical requirements by selecting the appropriate Imaging Plate size



With increased flexibility and thinness, the wireless imaging plates of PSPIX<sup>2</sup> are easy to use and provide outstanding patient comfort.



### THE EASIEST SCANNER TO SHARE

Now you can shared by up to can be 10 workstations thanks to PSPIX2!

Save time with the new "click & scan" concept. Select your workstation on the touch screen and from your computer with just one click, insert the imaging plate, and let the PSPIX<sup>2</sup> do the rest!





## USCAN

# GETTING DETAILED IMAGES HAS NEVER BEEN EASIER







- Automatic phosphor plate recognition
- Reliable diagnosis with the resolution 17 lp/mm
- 4 different sizes for a wide range of use
- Multi-users solution for improved work
- Light and compact for an easy integration in the office
- Fast display time of 11s (size 0)



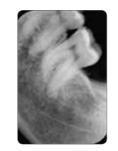
## WIDE RANGE OF DENTAL APPLICATIONS



22x31 mm Size 0 Child



24x40 mm Size 1 Child / Adult, Periapical



31x41 mm Size 2 Adult, Bitewing / Periapical



27x54 mm Size 3 Bitewing

## ACCURATE IMAGES FOR PRECISE EXAMINATIONS

Detect also smallest details thanks to high image definition with 17 lp/mm resolution.

U-Scan provides accurate images and striking contrast to ensure a reliable diagnosis.







## FULLY AUTOMATED WORKFLOW FOR QUICK DIAGNOSIS





USCAN ACTEON

Yellow: unit initialising or scanning mode

Green: unit ready for acquisition

U-Scan automatically recognizes the size of the plate. After the quick scanning process your image is displayed on your screen and the plate is erased.

A multi-color LED interface guides you through each step of the workflow.

## IT'S TIME FOR RELIABLE X-RAY TECHNOLOGY





### RELIABLE TECHNOLOGY THAT REDUCE RADIATION EXPOSURES

### A SHARP AND CONTRASTED IMAGE

The X-MIND® unity has a 0.4 mm focal spot. It has several configurable radiological settings:

### Notably:

- The anodic voltage (60, 65 and 70 kV)
- The anodic current (from 4 to 7 mA)
- These parameters ensure a sharp and contrasted image



The generator focal spot Y: 0.7 mm



The generator focal spot of X-Mind® unity: 0.4 mm

## **LOW DOSE**



### STOP EXCESSIVE RADIATION WITH ACE



This technology combined with the X-MIND® unity allows the SOPIX® inside sensor to stop the generator, thus **avoiding all risk of over exposing the patient and image** as well as unnecessary re-takes of acquisitions.

The patient **only receives the necessary dose**, adapted to their dental morphology.

### SAFETY THROUGH TRACEABILITY

The dose received by the patient appears on the timer's screen after each exposure.

With SOPIX® INSIDE, this **dose is also recorded** in the patient's Acteon Imaging Suite file, thus ensuring permanent traceability.



<sup>\*</sup> Reduction variable according to the patient's morphology.



## XMIND DC

# RELIABLE, CONSISTENT QUALITY, AND LONG LASTING HIGH PERFORMANCE



- Long lasting high performance
- Easy-to-use
- Flexible installation alternatives for more practice
- Different cones to improve your experience in all your clinical needs





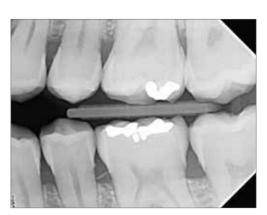
## EASY & SMART INTRAORAL SYSTEM FOR HIGH QUALITY REQUIREMENTS

### RELIABILITY OF THE X-MIND® AC AND DC GENERATORS



The generator operates at high frequency with constant potential to guarantee high quality x-ray beam in all the using conditions.

### SHORTER EXPOSURE TIME WITH X-MIND® DC GENERATOR



Exposure times with the X-MIND  $^{\rm @}$  DC generator are reduced when used with digital sensors.

## PROGRAMMABLE USER-DEFINED TIMER

With the X-MIND® timer, the micro-processor controlled exposure times are user-defined and programmable.

The timer is compatible with digital imaging systems  $\,$  and can control two AC or DC generators.



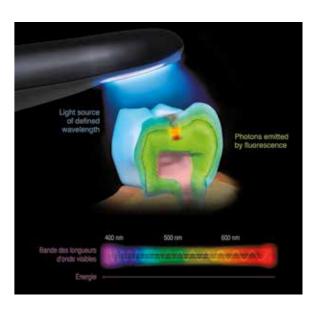
## IT'S TIME FOR ENHANCE YOUR VISION





## THE POWER OF AUTOFLUORESCENCE

- **DIAGNOSTIC aid mode**: identify the development of occlusal and proximal carious lesions.
- **TREATMENT aid mode**: perform minimally invasive treatment by preserving healthy tissue.
- DAYLIGHT mode: from portrait to macrovision, obtain sharp images with the large depth of field.



SOPROLIFE® offers two different visions: white light (daylight) and blue light (fluorescence).

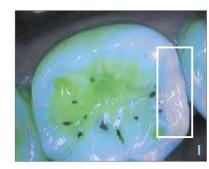
## ENHANCE CLINICAL EXAMINATION CAPABILITIES AND PERFORM LESS INVASIVE TREATMENT



DAYLIGHT mode
► Initial situation



DAYLIGHT modeOpened cavity



DIAGNOSTIC aid mode

Demineralization over the mesial marginal crest revealed



TREATMENT aid mode

Demineralized enamel and infected tissue



TREATMENT aid mode

• All the infected tissue has been removed



## SOPROCARE

DIAGNOSE EARLY CARIOUS
LESIONS FOR LESS INVASIVE
TREATMENT

MANAGE YOUR CLINICAL
DECISIONS DEPENDING ON
THE INDIVIDUAL'S CARIES
RISK AND PRESERVE
TOOTH STRUCTURE

With the push of a button, SOPROCARE®

instantly and easily highlights

- Caries
- Plaque
- Calculus and
- Gingival inflammation







SOPRU CARE

ACTEON

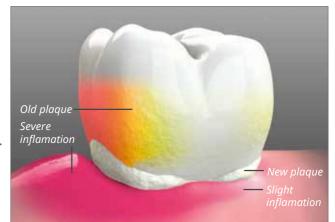
DIFFERENTIATES
THE COLOUR OF TISSUE
AND REVEALS ORAL
HYGIENE PATHOLOGIES

## SELECTIVE CHROMATIC AMPLIFICATION

### 3 NEEDS, 3 MODES

- **PERIO mode**: highlight plaque, calculus, and gingival inflammation.
- **CARIO mode**: caries are detected as red, surrounding tissue is displayed in black and white.
- ▶ DAYLIGHT mode: communicate more effectively with your patient and see details that are not visible with the naked eye.

SOPROCARE® is an unparalleled communication tool in the dental practice!



Chromatic mapping representing the characterization of tissues in PERIO mode

### **CONTROL HYGIENE EVOLUTION**

### BEFORE TREATMENT



DAYLIGHT mode

► Initial situation



PERIO mode

Initial situation



AFTER TREATMENT

DAYLIGHT mode

One week after treatment



PERIO mode ► One week after treatment

### **ENHANCE CLINICAL EXAMINATION CAPABILITIES**



DAYLIGHT mode
Initial situation



CARIO mode

Carious lesion revealed



CARIO mode
► Infected tissue



CARIO mode

➤ all the infected dentine
has been removed





## IMPROVE TREATMENT INCREASE PATIENT TRUST

THEY SOON UNDERSTAND THE IMPORTANCE OF THEIR PLANNED TREATMENT

### **SOPRO® 717 reveals**

- Micro fissures
- Infiltrations
- Lesions
- **Everything that is not** visible with the naked eye.









## MACROVISION REVEALS WHAT WAS ONCE INVISIBLE

### MAGNIFICATION OF THE IMAGE **UP TO 115 TIMES\***

- Large depth of field from extraoral to macrovision
- Exceptional image quality provided by a highly sophisticated optical system
- Extremely small camera head for easier access
- Successfully capture images with a simple glide over the SOPRO® touch high quality images





Infiltrated occlusal groove



### SEE THE INFINITELY SMALL



Dental cavity preparation





Infiltrated occlusal groove



Cervical lesion

### **Enhance your vision during examination**

See details otherwise not visible to the naked eye. Closely monitor micro fractures and the development of small lesions.

### Improve your clinical performance

Take a more detailed look into dental cavity preparation and be more accurate during treatment.







## SOPR\(\)617

## USE REAL IMAGES TO MAKE THE PATIENT MORE ATTENTIVE AND **CONFIDENT ABOUT** YOUR ADVICE



- **Easy to use for**
- **Patient communication**
- **Great asset for case** acceptance







## USE AN IMAGE, THE KEY TO EDUCATION AND CASE ACCEPTANCE

### SIMPLICITY IN THE PALM OF YOUR HAND

- Rounded shape and thin distal part for maximum accessibility and unrivalled patient comfort
- ▶ 105° angle of view for better exploration of distal areas
- Fixed focus with large depth of field, providing high-quality images
- Ease of use: point and shoot
- Freeze the image with a simple slide over the SOPRO® Touch







INTRAORAL



ONE TOOTH





SPEAK THE SAME LANGUAGE AS YOUR PATIENT!

## EXCEL IN YOUR ANALYSIS IN RECORD TIME

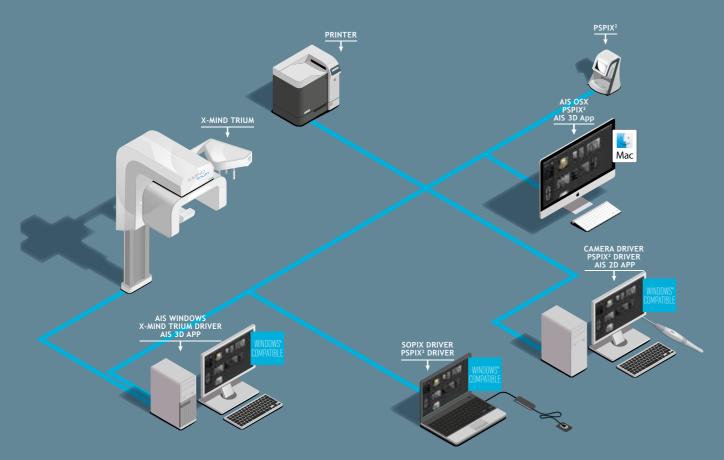


### ADVANCED FUNCTIONALITY FOR INTUITIVE NAVIGATION

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.Dicom compatible

- Implant planning
- Crown placement
- Mandibular nerve tracing
- Easy navigation in different sections
- Mouse control
- Bone density assessment and volume measurement
- Surface, distance and angle measurement
- Substantial and scalable implant library
- Create your surgical guide
- 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/ Airways
- Virtual endoscope
- TMJ module
- Integrates with various patient management software













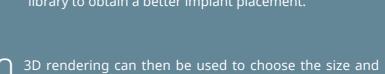
# CREATE YOUR SURGICAL GUIDE WITH AIS\* 3D APP DESIGN MODULE



### SIMPLIFIED IMPLANT PLANNING STEPS

Locating and tracing the mandibular canal precisely is the first step in the implant planning procedure. It also measures the distance between the implant and the anatomically structures.

Import the STL file generated from your digital impression and match it with the 3D image X-Ray in order to define the gum thickness. Add your virtual STL wax-up created by your lab or get it from our universalvirtual prosthesis library to obtain a better implant placement.



shape of the implants in proportion to the patient's morphology based on our cloud implant library.

AIS\* gives useful information to assess volume for implant placement, which can effectively be used to guide the diagnosis and surgical treatment.

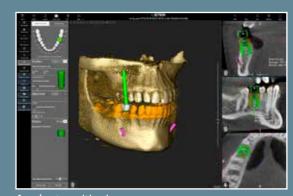
In less than a minute, you can edit and print a full implant report, to illustrate your written report (required). This illustrated report can also help you better inform your patient or a referring dental surgeon.

AIS\* exports imaging data generated from X-MIND® trium scans in STL format. This data can be imported into a surgical guide design software.

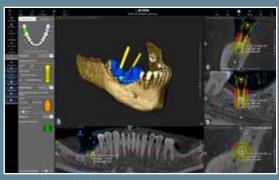
Thank to our dedicated feature you can create your own surgical guide for a minimal invasive solution and predicted surgery.\*\*



Import scan data



Implant positioning



Surgical guide design

\*Acteon Imaging Suite

The surgical Guide design feature is an option to subscribe.

## TECHNICAL SPECIFICATIONS

### **INTRAORAL CAMERAS**



### SOPR**\**617

- High sensitivity.
   1/4" CCD

   Resolution.
   (752x582) PAL; (768x494) NTSC

   Definition.
   470 lines

   Sensitivity.
   2 lux

   Lighting.
   8 LED

   Adjustment.
   fixed focus

### SOPR\(\)717/

- High sensitivity.
   1/4" CCD

   Resolution.
   (752x582) PAL; (768x494) NTSC

   Definition.
   470 lines

   Sensitivity.
   2 lux

   Lighting.
   8 LED

   Adjustment.
   3 pre-set positions (Extraoral, Intraoral, Macro)

### (Extraoral, Intraoral, I

### SOPROCARE

SOPROLIFE

High sensitivity	1/4" CCD
,	(752x582) PAL ; (768x494) NTSC
• Lighting	7 LED (4 white; 3 blue)
Adjustment	4 pre-set positions
	(Extra-oral, Intraoral, One tooth, Macro)

### **DOCKING STATIONS**



### Mini Dock USB2

- One digital USB 2.0 output
- Dimensions (mm): L. 64,5 x W. 26 x H. 11
- Weight: 97 g.



### Mini Dock U-USB2

- Power Supply: 5 VDC (from USB port)
- Power consumption: 2.5 VA
- One digital USB 2.0 output
- Dimensions (mm): L 48 x W 48 x H 30
- Weight: 22g

### PSPIX<sup>2</sup>

### SYSTEM

Resolution	20 lp/mm
Scan Time (fast mode)	1,6s - 2,7s
Scan Time (high definition mode)	2,1s - 3,6s
• Connection Eth	nernet RJ-45
• Dimensions 1. 154 x D. 204 x	H. 193 mm

Dimensions ...... L. 154 x D. 204 x H. 193 mm
 Weight ..... 2,6 kg
 Operating voltage ..... 100 - 240V ~ 50 - 60 Hz

### **IMAGING PLATES**

Dimensions IP Size 0	22x35 mm
Dimensions IP Size 1	24x40 mm
Dimensions IP Size 2	31x41 mm
Dimensions IP Size 3	27x54 mm
• Dimensions IP Size 4 (3 x IP Size 3)	69x54 mm

### USCAN

### **GENERAL FEATURES**

• Theoretical resolution
• Grey levels
• Pixel size
• Reading time
• Image display time L. 154 x D. 204 x H. 193 mm
• PSP plate return time
• Plate processing
• Sensitivity adjustment
• Plate sizes
Size 1 (24x40 mm – 792x1321 pixel)
• Connection

### WORKSTATION CONFIGURATION for intra-oral (Captors, sensors, cameras range)

### WINDOWS® MINIMUM CONFIGURATION REQUIRED

Operating system	Windows® 7
• Processor	Quadcore 2.6 Ghz
• RAM	4 GB
Hard disk	300 GB
• USB ports	2 USB 2.0 Hi-Speed ports

• Graphic card...OpenGL 2.1 or better alternatively DirectX 9 or 11 Graphics Device

• USB Chipset...... Intel® or NEC® / RENESAS®

### MAC® MINIMUM CONFIGURATION REQUIRED

Computer	MacBook® Pro 13.3" or iMac® 21.5"
Operating system	10.12 Sierra
• Processor	Quadcore 2.6 Ghz
• RAM	4 GB
• Ethernet board	1 Gbps

### WINDOWS® RECOMMENDED CONFIGURATION

Operating systemWindows® 10
• Processor:Quadcore 2.6 Ghz+
• Ram:
• Hard disk1 TB
• USB ports4 USB2 Hi-Speed ports
• Graphic cardDedicated graphics card with at least 1 GiB memory
• USB ChipsetIntel® or NEC® / RENESAS®
• Screen resolution1920 x 1080 for optimal planning or better

### MAC® RECOMMENDED CONFIGURATION

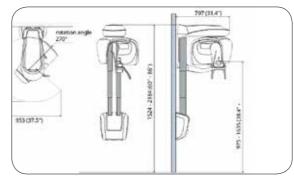
• Ethernet board .....

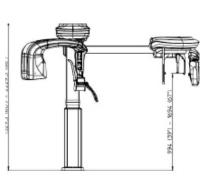
• Computer	iMac® 27"
Operating system	10.14 Mojave
• Processor	Quadcore 2.6 Ghz+
• RAM	8 GB
Ethernet board	1 Gbps

For Yosemite and El Capitan operating systems, a  $\mathrm{Mac}^{\mathrm{@}}$  computer from 2013 or later is required.

	XMIND AC	XWİND DC	X MIND unity
Classification	Electromedical equipment, Class 1 type B		
Supply voltage	115 V / 220 V / 230 V - monophase 50/60 Hz	115 - 230 V - 50/60 Hz	100 – 240 V
Power absorption at 230 V	0,8 kVA	1,4 kVA	0,85 kVA
X-ray tube voltage	70 kV	60-70 kV	60kV / 65kV / 70kV
Anodic current	8 mA	4-8 mA	4-7 mA
Focal spot	0,7	'mm	0,4 mm
Total filtration	Equivalent to 2.3 mm Al at 70 kV		> 2.2 mm Al at 70 kV
Rayonnement de fuite	< 0,25 mGy / h		
Technology	AC	DC	High frequency DC
Timer	from 0.08 to 3.2 seconds	from 0.02 to 3.2 seconds	from 0.02 to 2 seconds
Weight of the head	9 kg	5,5 kg	5.5 kg
Total weight	28 kg	25 kg	23 kg
Options	Circular cone ø 60 mm       20 cm (8") or 30 cm (12")         Rectangular cone 45x36 mm       20 cm (8") or 30 cm (12")         Arm extension       0.40 m ou 0.80 m ou 1.10 m         SOPIX inside/SOPIX² inside       Size 1, size 2         Remote exposure switch       Size 1, size 2		
	Ceiling arm		
Mobile stand for Unity	Second control button with remote exposure switch RX indicator light for external use Adaptable mounting wall plate (only for X-MIND® unity) Mobile stand (only for X-MIND® unity)		







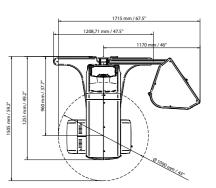
	X-MIND® prime	X-MIND® prime 3D	Cephalometric device	
	X-RAY SOURCES			
Tube type	D-058 (Toshiba)	OPX 105-12 (CEI)	Skanray / CEI OPX 105-12	
Total filtration	2.0 mm AI eq. @ 70kVp	≥ 2.5 mm AI eq. @ 86 kVp	≥ 2.5 mm Al eq. @ 86 kVp	
Tube voltage	60 - 70 kV	60 - 86 kV	60-86 kv	
Anodic current	2-7.1 mA	2-12.5 mA	2-12.5 mA	
Focal spot	0.5 mm	0.5 mm	0.5 mm (EN 60336)	
		SENSOR		
Туре	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 th	
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) - mm) - TMJ (85 x 93 mm)* - Sinus (85 x 93 mm)* - Extended volume(120x100 mm)*	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)	
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	

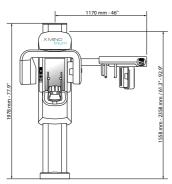
<sup>\*</sup> Not available in Canada, where these volumes are limited to 80 x 80 mm or 80 x 50 mm.

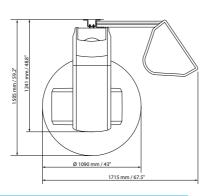
	WORKSTATION MINIMUM REQUIREMENTS		
	PAN/CEPH WINDOWS (WORKSTATION)	CLIENT WINDOWS	CLIENT MAC OS
Processor	Intel® Core i5	Intel i5	Intel® Core i5
Hard Disk	1TB 7200 rpm	300 GB	300 GB
RAM	8 GB	4 GB or 8 GB (for big FOV DICOM stacks)	4 GB or 8 GB (for big FOV DICOM stacks)
Graphics card	OPEN GL 2.1 compatible (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 7 Professional 64 bits	Windows 7 64 bits	OS X Sierra (10.12)

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	PANORAMIC	CBCT	CEPHALOMETRIC
		X-RAY SOURCE	
Tube type	Générateur DC haute fréquence		
Total filtration	2.8 mmAl / 85 kV	7.0 mmAl / 90 kV	2.8 mmAl / 85 kV
Operation mode	Continu	Pulsé	Continu
Tube voltage	60-85 kVp	90 kVp	60-85 kVp
Anodic current	4-10 mA	4-10 mA	4-10 mA
Focal point	0,5 mm	0.5 mm	0,5 mm
		DETECTOR	
Туре	CMOS	CMOS plat	CMOS
FOV and format	260x120 mm	ø40x40 mm, ø60x60 mm, ø80x80 mm, ø110x80 mm	250x200 mm
Pixel size/Voxel size	Pixel: 100 µm	Voxel : 75 µm	Pixel: 100 µm
		ACQUISITION	
Technique	180° single scan	Numérisation unique 360 °	Single scan
Exposure time	3.3 s - 13.5 sec	6-9 s	18 sec
Scanning time	16,8 sec - 22,5 sec	12-60 sec	23 sec
Programs	Standard, child, improved orthogonality panoramic, bitewings, maxillary sinus, TMJ	Semi-arc, arc, arc complet, sinus, oreille	Frontal PA, Frontal AP, option: Carpus
Reconstruction time	3 sec	From 30 sec*	4 sec
		IMAGE FORMAT	
	JPEG, BMP, PNG, TIFF, DCM	DCM, STL	JPEG, BMP, PNG, TIFF, DCM
		MECHANICAL DATA	
Max footprint dimensions	L 150 x W 110 cm	L 150 x W 110 cm	L 150 x W 172 cm
Height	Max : 235 cm		
Weight	230 kg (PAN)	240 kg (PAN-CBCT)	280 kg (PAN-CEPH)
		IEC	
Class and Type	Classe I, Type B		

	WORKSTATION MINIMAL REQUIREMENTS		
	PAN/CEPH WINDOWS (WORKSTATION)	CLIENT WINDOWS	CLIENT MAC OS
Processor	Intel i5	Intel i5	Quadcore 2.6 GHz
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	1600×1024	1600×1024	1600×1024
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 7 Professional 64 bits	Windows 7 64 bits	OS X Sierra (10.12)







	X-MIND® trium Pan CEPH	X-MIND® trium Pan CEPH 3D
Pan		•
3D	0	•
Ceph		•
Additional available configurations	O 3D READY	

ЦО \* Depending on selected parameters.









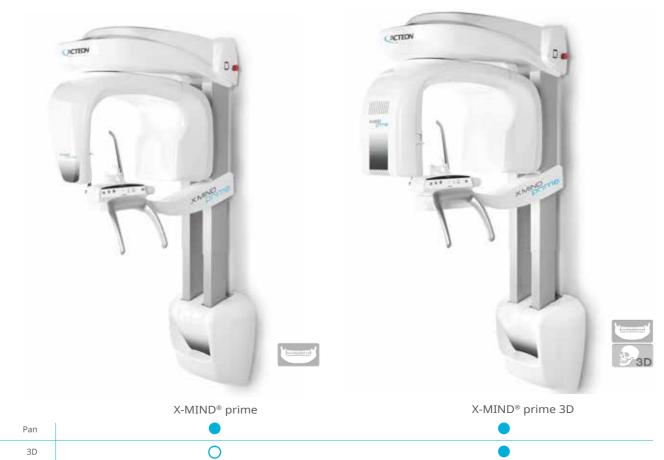
	X-MIND® trium Pan 3D	X-MIND® trium Pan 3D CEPH Ready
Pan		•
3D	•	•
Ceph	0	•



X-MIND® trium Pan CEPH 3D

Pan	
3D	
Ceph	







X-MIND® PAN CEPH		X-MIND® prime PAN CEPH 3D	
Pan	•		
Ceph	•	•	
3D	0	•	

### **U-SENSE**

### SIZE 1 SIZE 2 • External dimensions.......43.2x30.8x5.2 mm/1.7x1.2x0.2 in • CMOS matrix size 1 (rounded angles)......30x20 mm (600 mm²) • CMOS matrix size 2 (rounded angles)......34x26 mm (900 mm²) • Detector active surface in pixel ......1500 x 1000 pixels • Detector active surface in pixel ......1700 x 1300 pixels • Pixel dimensions......20x20 µm • Pixel dimensions......20x20 µm

### **GENERAL SPECIFICATIONS (U-SENSE SIZE 1 AND 2)** • Sensor technology..... Scintillator..... . Gadox Detector wire length ...... .....3 m/9.9 feet ......14 bits (16384 grey levels) · Grey levels ...... .....Standard USB port: USB 2.0 High Speed (480 Mbit/s) and USB 3.0 · Connection ..... Nominal system consumption...... • Entry voltage .... ......... 5V (with USB connection) • Entry current ...... ...... 0.15 A max ...... From +10°C to 40°C / from 50°F to 104°F · Operating temperature ..... · Detector resolution ...... ..... Theoretical: 25 lp/mm ......Real: 12-14 lp/mm • CTF – Contrast Transfer Function (at 70 kVp - 1,5 mm ABS filter).... .... 0,08 @ 10 lp/mm ......Typical 100.000 cycles · CMOS lifetime .....

SIZE 1	SIZE 2
External dimensions38.6 x 24.7 x 5.2 mm / 1.6 x 1.0 x 0.2 in     CMOS matrix size 1 (rounded angles)30 x 20 mm (600 mm²)     Detector active surface in size1.2 x 0.8 in (1.0 in²)	External dimensions
• Detector active surface in pixel1500 x 1000 pixels • Pixel dimensions20 x 20 µm	• Detector active surface in pixel

Sensor technology	CMOS
• Scintillator	
Detector wire length	3 m/9.9 feet
Grey levels	
Connection	Standard USB port: USB 2.0 High Speed (480 Mbit/s) and USB 3.0
Nominal system consumption	
Entry voltage	
Entry current	0.15 A max
Operating temperature	From +10°C to 40°C / from 50°F to 104°F
Maximum temperature	12°C (54°F) higher than maximum environmental temperature of 40°C (104°F)
Detector resolution	
	Real: 18 - 20 lp/mm
CTF – Contrast Transfer Function (at 70 kVp - 1,5 mm A	BS filter)
	1900 @ 100 μGy
CMOS lifetime	Typical 100.000 cycles



### SIZE 1

• TWAIN module..

• External dimensions	25x39 mm
Active surface area	600 mm² (20x30 mm)
Number of pixels	1.50 million

. Yes

### SOPIX®35 INSIDE / SOPIX®3HD-5 INSIDE / SOPIX®2 INSIDE SYSTEM

Technology	CMOS + scintillator+ optic fibre
• Pixel size	20 μm x 20μm
• Theoretical resolution	25 lp/mm
Real resolution	>12 lp/mm
• Supplied imaging software	ACTEON® Imaging Suite

### SOPIX®35 / SOPIX®3HD-5 / SOPIX®2 USB CONNECTION

Connection	USB 2.0
Total cable length	3.70 m

### SIZE 2

• External d	mensions31x42 mm
Active surf	ace area
• Number o	f pixels

• Connection

Technology	CMOS + scintillator+ optic fibre
Pixel size	20μm x 20μm
Theoretical resolution	25lp/mm
Real resolution	>18lp/mm
• Supplied imaging software	ACTEON® Imaging Suite
TWAIN module	Yes

SOPIX®35 INSIDE / SOPIX®3HD-5 INSIDE / SOPIX®2 INSIDE SYSTEM

### SOPIX®3 S/ SOPIX®3HD-S / SOPIX®2 USB CONNECTION

Connecti	1011	030 2.0
• Sensor c	able length	0.70 m

LICE 2 O





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