Imaging Catalogue
It is with great pride and enthusiasm that we bring our new Acteon Imaging catalogue to you, based on the latest cutting edge technological progress!

Our most recent products, PSPIX and Trium, are presented in detail. Thanks to the extensive expertise of our research & development teams, they offer unique solutions featuring outstanding image quality. These innovations are due to a combination of in-depth knowledge of the practitioner’s needs in terms of digitalisation and on the latest technological advancements in computational optics.

PSPIX is the first personal digital scanner developed to equip any practice. It is a radical breakthrough which is both user-friendly and combines a unique image quality with an attractive design.

With Trium, the new reference in 3D dental image quality and its ingenious 3D image reconstruction algorithm, ACTEON has entered a new phase in diagnostic accuracy.

We are confident that these two easy-to-use products will meet all your hopes and expectations. They will become essential to your practice and be revolutionary for their time.

As part of our commitment to our customers, we have rationalised our internal organisation and are pleased to announce the presence of Acteon Imaging technical experts offering you support and advice and covering all the countries where our products are sold.

With ACTEON, the 21st century is here!

Marie-Laure POCHON
INTRAORAL CAMERAS
- SOPRO 617 p 6
- SOPRO 717 first p 8

DIAGNOSTIC TOOLS
- SOPROLIFE p 10
- SOPROCARE p 12

DIGITAL RADIOLOGY SENSORS
- SOPIX & SOPIX² p 14
- SOPIX² INSIDE p 16

DIGITAL RADIOLOGY SYSTEM BY PHOSPHOR PLATE
- PSPIX p 18

X-RAY GENERATORS
- X-Mind AC/DC p 20
- X-Mind Unity p 22

PANORAMIC AND 3D IMAGING
- X-Mind One p 24
- X-Mind Trium p 26
- WHITEFOX p 30

IMAGING SOFTWARES
- Acteon Imaging Suite p 32
- SOPRO-Imaging p 34

Technical specifications p 38
Docking Stations p 42
• Maximum accessibility for unrivalled patient comfort
• 105° view for improved exploration of the distal areas
• High-quality images
• Great depth of field
• Compatibility with a video screen and/ or a computer
• Easy to use
Excellent ergonomics

The SOPRO 617® intra-oral camera offers a 105° view for improved exploration of the distal areas. Its rounded shape and the thinness of the distal part make it more comfortable in the mouth.

Automatic focusing and Maximum Depth of Field

The new optical system of the SOPRO 617 is equipped with an aspheric lens which avoids distortion and provides a high quality image. No adjustment is necessary to obtain a perfectly clear image.

SOPRO Touch, the “Original”

Fix the image on the screen simply by touching the touch-sensitive SOPRO Touch.
The macro perfection

SOPRO 717

• Image magnification up to 115 times in Macro mode
• Exceptional image quality
• A successful image captured with SOPRO Touch
• Option of full integration into the dental chair
• Compatibility with a video screen and/or a computer
Shift to high-tech mode

The sleek innovative design incorporates an extremely thin distal part for improved access along with a highly sophisticated optical system providing exceptional image quality.

A success from any point of view

SOPRO 717 First’s great depth of field means you obtain a sharp image in seconds no matter which mode is chosen. Perfect illumination is achieved with eight LEDs.

Discover Macrovision

Macrovision is the major advantage offered by the SOPRO 717 First®: it extends way beyond the limitations of the human eye, giving a magnified view of up to 115 times. One simple procedure, and the infinitely small appears before your eyes!
• A revolutionary concept which offers you two different views
• Save time by making a faster, more accurate diagnosis
• Protect your patients by reducing the number of necessary X-rays
• Differentiate between healthy and infected tissue
• Enhance your clinical performance
**Diagnosis Aid Mode**

SOPROLIFE® is more accurate in identifying the development of occlusal and/or proximal carious lesions. This mode potentially speeds up the decision making process in treatment planning and enables safer options for the patients by possibly reducing the number of X-rays.

**Treatment Aid Mode**

Clinical performance is enhanced as SOPROLIFE enables you to visually differentiate between infected and affected tissue in the excavated site.

**Daylight Mode**

In white light, from Portrait to Macro, SOPROLIFE produces unequalled quality of image. This mode not only enables you to communicate more effectively with your patients, but also gives you the ability to see details which are invisible to the naked eye.
• 3 modes for 3 needs
• Highlight the old and new dental plaque, gingival inflammation and caries
• Unmatchable communication tool in the dental practice
• Fully compatible with all imaging software
PERIO Mode

Due to the wavelength emitted by the LED lights of SOPROCARE®, the new plaque is highlighted by its white and grainy characteristic and old plaque is revealed a shade of yellow and orange. Gingival inflammation can range from hues of pink all of pink to deep magenta.

![Mapping](image1) ![Daylight Mode](image2) ![PERIO Mode](image3)

CARIO Mode

Enamo-dentinal caries are clearly revealed by the bright red colour in the CARIO mode. Other surrounding tissue is displayed in black and white, thus focusing on the carious lesions.

![Mapping](image4) ![Daylight Mode](image5) ![CARIO Mode](image6)

DAYLIGHT Mode

A preset focus ring replaces the inconvenience of autofocus and provides sharp images without delay, regardless of the object or the distance.

![Broken amalgam](image7) ![Caries in amalgam border](image8) ![Implant](image9)
So Easy, So High-tech

SOPIX & SOPIX²

• Rounded corners and edges for improved patient comfort
• White side stripes to assist the dentist with correct positioning of the X-ray tube
• ACE technology prevents overexposure of the image: only one shot is ever necessary
• Fast and easy to use
• Outstanding image quality

Mac Windows
We improve your daily routine

Through SOPRO’s extensive experience in digital sensors, the SOPIX® series improves your everyday life by being simple to use and providing you exceptional image quality. Our sensors have been developed to fulfill all possible requirements of any dental practice whilst offering a solution for every budget.
• SOPIX², for excellent performance.
• SOPIX, for a good-quality image at a very affordable price.

No more overexposed images

Available on all SOPIX series sensors, ACE® technology, patented by SOPRO, analyses in real time the number of X-rays accumulated by the sensor. It freezes the image acquisition as soon as it receives the necessary radiation to provide a high quality image. Thus, it protects each image from overexposure. The dentist and the patient are ensured that the first X-ray is always perfect, avoiding additional image acquisition. The dentist saves time and the patient is protected from unnecessary X-ray exposure.
• Ergonomic and well-organised working environment
• A unique communication of SOPIX² INSIDE sensor and X-Mind Unity intraoral X-ray system through ACE technology
• The patient only receives the necessary dose adapted to his dental morphology, protecting him unnecessary overexposure
• ACE reduces the patient’s dose by up to 52% compared to a standard exposure
• Exclusive traceability through your imaging software. The dose received by your patient (DAP) is now recorded!
SOPIX² INSIDE is directly integrated into the X-Mind Unity™ intraoral X-ray system and makes the protection of the patient our utmost priority.

Avoid unnecessary radiation

The integration of the sensor into the X-Mind Unity intraoral X-ray system, combined with ACE® technology, creates a unique communication. When SOPIX² INSIDE has received the energy required to provide a good-quality image, it sends the information to the intraoral system to stop the X-ray emission.

The best protection for your patient

ACE® technology, integrated into the SOPIX² INSIDE sensor and combined with X-Mind Unity, minimises patient exposure to X-rays. The patient only receives the necessary dose adapted to his dental morphology, which protects him from unnecessary over-exposure.

ACE reduces the patient’s dose by up to 52% compared to a standard exposure.

* Also available in economic version SOPIX inside.
** Reduction variable according to the patient’s morphology.
the first personal imaging plate scanner

- Amazing size
- Avant-garde design
- Genuine intelligence workflow
- Very simple
- Excellent hygiene barrier
- PSPIIX Software capabilities

new PSPIIX
Acteon Imaging has created the first personal imaging plate scanner on the market:

• Now, I can get my images immediately
• Now, I don’t have to wait for my turn

Exclusive concept “Click & Scan”

With PSPIX® chairside, you save a significant amount of time:
• You are the single-user of the scanner
• You do not need to move to another room to scan your images
• You receive your images in a few seconds. You can therefore be more efficient and more dedicated to your patients’ care.

The new PSPIX is so

AFFORDABLE that you can now equip every operatory chair side
INTUITIVE that learning to use it is instantaneous
SMALL that it takes up a minimal amount of space
ELEGANT that it will enhance your dental practice
• Very high quality image
• Two X-Mind AC and/or DC generators can be controlled by a single timer
• Rotation at 395° around the vertical axis
• Better protection due to a high focus-to-skin distance
• Programmable timer
Reliability of the X-Mind™ AC and DC generators

The X-Mind AC and DC generators are renowned for their reliability and their consistent performance. Two beam limitation devices made of lead, along with the expansion chamber ensure maximum protection for the practitioner and his personnel.

Shorter exposure time with X-Mind DC generator

Exposure times with the X-Mind 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 and/or DC generators alternatively.
X MIND

• 3 arm lengths are available
• Movement is fluid and is achieved without any effort or stress
• Work flow and comfort improved drastically due to the integration of the sensor
• Up to 52% less radiation
• Exclusive traceability through SOPRO-Imaging software. Dosage received by the patient (DAP) is automatically recorded
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.

Up to 52%* less radiation with Ace

This technology applied to the X-Mind Unity allows the SOPIX inside sensor to start and stop the generator, thus avoiding all risk of over exposing the image and patient as well as unnecessary re-takes of acquisitions.

The patient only receives the necessary dose, adapted to his 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 SOPRO-Imaging file, thus ensuring permanent traceability.

* Reduction variable according to the patient’s morphology.
A consistent image for a diagnosis at first view

- High quality images with optimal and automated use of information
- More comfortable to work with
- Accurate panoramic examinations
- 3 step process
- Stable positioning of the patient for a more precise result
- Saves time for both you and your patients
- Enables you to fully communicate your treatment plan to your patients
A high quality panoramic image

- Fast scanning times reduce the potential for movement artefacts
- Optimal automatic image processing produces a high quality image

Precise & consistent image

With SOPRO-Imaging, the high quality 2D images produced with X-Mind One can be treated and filtered so that the image is precise and consistent.

- The 2D image can be annotated and measured with a wide range of tools
- The examinations can be easily extracted and the results communicated to the patient

Five imaging programs

- Adult panoramic program
- Child panoramic program
- Bitewing program
- TMJ program
- Sectional program
X MIND trium

- Easily upgradable
- High image resolution with reduction filters
- Low dose of X-rays
- Large choice of F.O.V.

Windows
A high image quality

X-Mind Trium is equipped with an acquisition and reconstruction algorithm which ensures a perfectly uniform and high quality image on all visual axes.

High level 3D software

Acteon Imaging Suite offers advanced functionalities and an intuitive mouse-enabled navigation experience.

Reasons to choose X-Mind Trium

• A superior image acquisition is achieved with a full 360° rotation

• Finest image precision of 75 μm voxel size is key for greater details

• 4 F.O.V. to select the scanning area for examination and to minimise radiation exposure to patients

• An artefacts reduction filter for easier differentiation of the tissues (bone/tooth/metal) and the opportunity to rebuild the image at any time with different filter levels
Implant planning program

- X-Mind Trium is a key tool for treatment planning and post-procedure follow-up
- By displaying highly accurate 3D images of the anatomy of the patient in one scan, X-Mind Trium provides a fully comprehensive view of the patient’s arch
- X-Mind Trium allows accurate evaluation of bone density and the positioning of the anatomic structures to be able to fix implants
- In addition to this, 3D imaging enables the size and shape of the implants to be made in proportion to the morphology of the patient
- X-Mind Trium provides very clear and accurate images for transversal sections, the volume calculation of biomaterial needed for sinus lift surgery and a guided surgery thanks to the Acteon Imaging Suite software
- With X-Mind Trium, navigate through the airways or the mandibular nerve canal as with an endoscope
A large range of options and improvements are available with X-Mind Trium. It will adapt to the ever-growing needs of your clinical practice and when needed, it will offer 3D imagery and digital cephalometric analysis.

Panoramic radiography

Panoramic with improved orthogonality

TMJ sections

Interproximal

Maxillary sinus

Cephalometric radiography

Lateral full skull

Posterior/Anterior
• High quality image with calibrated HU
• Robust mechanical structure
• Full and precise capacity
• Acquisition and reconstruction in less than 2 minutes
WHITEFOX® comes in a complete package specialising in Dental and Maxillofacial clinical applications. Having WHITEFOX at your clinic makes it possible to have a clear and complete diagnosis in one visit.

A complete dentomaxillofacial volume ready for your diagnosis

One scan provides you with an incredible amount of information enabling the most comprehensive and accurate diagnosis

- Implantology planning
- Cephalometry
- Orthodontics and Gnathology
- TMJ analysis
- Oral and Maxillofacial surgery
- Endodontics
- Airway study
- Ear Nose and Throat
- Head and neck

High quality image

Hounsfield units calibration is a unique WHITEFOX feature for the dental CBCT. Hounsfield units express the detected radiation in the standard CT scale. The data of pre and post surgery analysis can be compared because they rely on the same calibration method. Only with WHITEFOX can you obtain a reliable estimation of the bone quality, a clearer soft and hard tissue segmentation and a clear air differentiation.

Comfort of the patient

Putting the patient in a calm and relaxed environment will lead to fewer movements during acquisition and therefore a better image. Due to the laser positioning beams, the settings are limited and precise and the face-to-face positioning reassures the patient throughout the examination.

Minimal dose for the patient

At the cutting edge of mathematical and programming technology, ART (Algebraic Reconstruction Technique) reduces the necessary quantity of radio projections by a third, meaning a reduction in dose of 20 to 30% whilst providing an unrivalled image quality.
A HIGH RANGE SOFTWARE

ACTEON imaging suite

- Superior design
- Clean lines
- User friendly
- Open architecture
- Full integration
- Advanced functionalities
Acteon has designed Acteon Imaging Suite to allow your imaging workflow to run more efficiently.

Compatibility and comfort of integration

Acteon Imaging Suite is Windows and Mac compatible. It can be linked to most Practice Management Software and can be installed on the sharing devices on the clinic’s computers as well as on a common centralised database. There is no need to use multiple imaging software to handle each part of your equipment, AIS will connect to all Acteon imaging products as well as to other digital devices with the TWAIN* function.

Comprehensive functionalities

Clear and intuitive icons are displayed according to which devices are connected, and menus and tools are clearly identified. Each image can be treated, filtered, annotated and measured with a large range of tools. They can be part of a report, exported in different formats, printed or sent via e-mail.

AIS provides you with a unique Implant Library**, video function and dose traceability.

* On the condition that the device is TWAIN compatible itself. Ask for a list of implant manufacturers.
** Ask for a list of implant manufacturers.
• Ergonomic and intuitive
• Available in 27 languages
• Compatible with Windows XP, Vista, 7, 8 Professional
• Compatible with Management software packages
Complete and intuitive software

- Intuitive and multilingual software
- Simplified network integration
- Compatible with Management software packages
- Database for both X-ray and intra-oral camera images

- Modules dedicated to SOPROLIFE, SOPROCARE, ...  
- Image and live movie capture
- Dental chart
- Status and status editor
- Wide range of tools
- Drawing tools
- Implants library
- Twain acquisition
A unique communication with SOPIX²

By means of the unique communication between SOPIX² inside and X-Mind Unity, a transfer of data occurs during each acquisition from the intraoral system to SOPRO-Imaging.

Exposure times, dose savings, dose for area of irradiated tissues (DAP)... are stored for each image.

For each acquisition, the reduction in dose carried out compared to with a classic exposure is immediately displayed on an energy bar.

Exclusive traceability

You can record and review the doses received by your patient.

A true revolution in terms of traceability in the field of intraoral radiology.

*Also available in economic version SOPIX Inside.*
Enjoy the convenience and the ease of use of MAC OS with SOPRO-Imaging for MAC

- Smart design for optimal ultimate professionalism
- User-friendly and intuitive software
- Available in 27 languages
- X-ray images acquisition through the digital sensors of the SOPIX and PSPIX ranges
- Colour image acquisition
- Patient database
- Wide range of tools

Note: The data transfer from the intraoral system X-Mind Unity to SOPRO-Imaging is not available on SOPRO-Imaging MAC® version yet.
**SOPRÚ 817**
- High sensitivity: 1/4” CCD
- Resolution: (752x582) PAL ; (768x494) NTSC
- Definition: 470 lines
- Sensitivity: 2 lux
- Lighting: 8 LED
- Adjustment: fixed focus
- Non-inverted image
- Freeze Frame with SOPRO Touch or pedal (option)
- Angle of view: 80°
- Cable length: 2.5 m
- Dimensions of the handpiece in mm: L. 205 x W. 28 x H. 24
- Usable part dimensions: W: 16 x D: 11.10 mm
- Weight: 55 g

**SOPRÚ 717**
- High sensitivity: 1/4” CCD
- Resolution: (752x582) PAL ; (768x494) NTSC
- Definition: 470 lines
- Sensitivity: 2 lux
- Lighting: 7 LED (4 white; 3 blue)
- Adjustment: 4 pre-set positions (Extra-oral, Intra-oral, LIFE, Macro)
- Angle of view: 70°
- Cable length: 2.5 m
- Dimensions of the handpiece in mm: L. 200 x W. 28 x H. 24
- Dimensions of the distal part in mm: W. 13 mm x D. 8 mm
- Weight: 75 g

**SOPRÚ LIFE**
- High sensitivity: 1/4” CCD
- Resolution: (752x582) PAL ; (768x494) NTSC
- Lighting: White Mode: 4 LED; Blue Mode: 4 LED
- Adjustment: 4 pre-set positions (Extra-oral, Intra-oral, LIFE, Macro)
- Freeze Frame with SOPRO Touch or pedal (option)
- Angle of view: 70°
- Cable length: 2.5 m
- Dimensions of the handpiece in mm: L. 200 x W. 30 x H. 24
- Weight: 75 g

**SOPRÚ CARE**
- High sensitivity: 1/4” CCD
- Resolution: (752x582) PAL ; (768x494) NTSC
- Lighting: 7 LED (4 white; 3 blue)
- Adjustment: 4 pre-set positions (Extra-oral, Intra-oral, 1 Tooth, Macro)
- Freeze Frame with SOPRO Touch or pedal (option)
- Angle of view: 70°
- Cable length: 2.5 m
- Dimensions of the handpiece in mm: L. 200 x W. 30 x H. 24
- Weight: 78 g

**SOPİX & SOPİX² & SOPİX³**
- External dimensions: 25 x 39 mm
- Active surface area: 600 mm² (20 x 30 mm)
- Number of pixels: 1.50 million

**SYSTEM**
- Technology: CMOS + scintillator + optic fiber
- Pixel size: 20 μm x 20 μm
- Theoretical resolution: >25 lp/mm
- Real resolution for SOPİX/SOPİX INSIDE: >12 lp/mm
- TWAIN module: Yes
- Connection: USB 2.0
- Total cable length for SOPİX/SOPİX²: 3.70 m
- Sensor cable length for SOPİX² INSIDE/SOPİX INSIDE: 0.70 m
SYSTEM
- Resolution .......................................................... 20 lp/mm
- Connection ...................................................... Ethernet RJ-45
- Dimensions ................................................................ L. 154 x D. 204 x H. 193 mm
- Weight ..................................................................... 2.6 kg
- Operating voltage .................................................. 100 - 240 V, 50/60 Hz

IMAGING PLATES
- Dimensions IP Size 0 ............................................. 22 x 35 mm
- Dimensions IP Size 1 ............................................. 24 x 40 mm
- Dimensions IP Size 2 ............................................. 31 x 41 mm
- Dimensions IP Size 3 ............................................. 27 x 54 mm
- Dimensions IP Size 4 (2 x size 3) ......................... 52 x 54 mm

WINDOWS® RECOMMENDED CONFIGURATION
- Operating system .............................................. Windows 7 Pro SP1
- Processor ............................................................. Intel Core 2
- RAM ................................................................................. 2 GB
- Hard disk .................................................................. 500 GB
- Graphic card ......................................................... CHIPSET NVIDIA® or ATI® 512 MB
  unshared memory compatible DirectX 9 or more
- Screen resolution .................................................. 1280 x 1024 or more
- Ethernet board .......................................................... 1 Gb/s

WINDOWS® MINIMUM CONFIGURATION REQUIRED
- Operating system ............................................... Windows XP Pro SP3
- Processor ............................................................. Intel® Pentium IV – 1.3 GHz
- RAM ................................................................................. 512 MB
- Hard disk .................................................................. 250 GB
- Graphic card ......................................................... 32 MB RAM unshared compatible DirectX 9
- Screen resolution .................................................. 1024 x 768
- Ethernet board .......................................................... 1 Gb/s

MAC® RECOMMENDED CONFIGURATION
- Computer .............................................................. iMac 27"
- Operating system .............................................. Mac® OS X 10.9
- Processor ............................................................. Intel® Core i7
- RAM ................................................................................. 4 GB
- Ethernet board .......................................................... 1 Gb/s

MAC® MINIMUM CONFIGURATION REQUIRED
- Computer .............................................................. MacBook® Pro 13.3” ou iMac® 21.5"
- Operating system .............................................. Mac® OS X 10.9
- Processor ............................................................. Intel® Core 2
- RAM ................................................................................. 2 GB
- Ethernet board .......................................................... 1 Gb/s

**X-MIND AC & X-MIND DC & X-MIND Unity**

<table>
<thead>
<tr>
<th></th>
<th>X-Mind AC</th>
<th>X-Mind DC</th>
<th>X-Mind Unity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification</td>
<td>Electromedical equipment, Class 1 type B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply voltage</td>
<td>220/230/240 V - monophase 50/60 Hz</td>
<td>230 V - 50/60 Hz</td>
<td>100 - 240 V</td>
</tr>
<tr>
<td>Power absorption at 230 V</td>
<td>0.8 kVA</td>
<td>1.4 kVA</td>
<td>0.85 kVA</td>
</tr>
<tr>
<td>X-ray tube</td>
<td>New Toshiba DG 073B (70 kV)</td>
<td>New Toshiba DG 073B (60-70 kV)</td>
<td>Toshiba D-041 5 (60 kV / 65 kV / 70 kV)</td>
</tr>
<tr>
<td>X-ray tube voltage</td>
<td>70 kV</td>
<td>60-70 kV</td>
<td></td>
</tr>
<tr>
<td>Anode current</td>
<td>8 mA</td>
<td>4 - 8 mA</td>
<td>7 mA</td>
</tr>
<tr>
<td>Focal spot</td>
<td>0.7 mm</td>
<td></td>
<td>0.4 mm</td>
</tr>
<tr>
<td>Total filtration</td>
<td>Equivalent to 2 mm Al at 70 kV</td>
<td></td>
<td>&gt; 1.5 mm Al at 70 kV</td>
</tr>
<tr>
<td>Leakage radiation</td>
<td>&lt; 0.25 mGy / h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technology</td>
<td>AC</td>
<td>DC</td>
<td>High frequency DC</td>
</tr>
<tr>
<td>Timer</td>
<td>from 0.08 to 3.2 seconds</td>
<td>from 0.02 to 3.2 seconds</td>
<td>from 0.02 to 2 seconds</td>
</tr>
<tr>
<td>Weight of the head</td>
<td>9 kg</td>
<td>5.5 kg</td>
<td>6 kg</td>
</tr>
<tr>
<td>Total weight</td>
<td>28 kg</td>
<td>25 kg</td>
<td>23 kg</td>
</tr>
<tr>
<td>Optional equipment</td>
<td>Circular cone ø 60 mm</td>
<td></td>
<td>20 cm (8&quot;)</td>
</tr>
<tr>
<td></td>
<td>Rectangular cone 45 x 36 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wall-mounting arm</td>
<td></td>
<td>0.40 m ou 0.80 m ou 1.10 m</td>
</tr>
<tr>
<td></td>
<td>Inverted wall mounting</td>
<td></td>
<td>0.40 m ou 0.80 m ou 1.10 m</td>
</tr>
<tr>
<td></td>
<td>Ceiling arm</td>
<td>Ref. Faro Ø 35 mm – length 1.70 m ou 1.30 m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unit arm</td>
<td>Ref. Faro Ø 60 mm ou Ø 50 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mobile</td>
<td>Height 1.10 m, length 0.80 m, width 0.70 m</td>
<td></td>
</tr>
<tr>
<td>Accessories</td>
<td>Second control button with remote exposure switch</td>
<td>RX indicator light for external use</td>
<td>Adaptable mounting wall plate</td>
</tr>
</tbody>
</table>

Manufactured in compliance with currently applicable regulations and standards (EC Directive 93/42/EEC and sub-segment amendment). IEC 60601-2-65 imposes for each x-ray generator furnished with a digital sensor to use a square cone.
<table>
<thead>
<tr>
<th></th>
<th>PANORAMIC</th>
<th>CBCT</th>
<th>CEPHALOMETRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>X-RAY SOURCE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tube type</td>
<td>High frequency DC generator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total filtration</td>
<td>PANO: 2.8 mn Al at 85 kV</td>
<td>CBCT: 7.0 mn Al at 90 kV</td>
<td>CEPH: 2.8 mn Al at 85 kV</td>
</tr>
<tr>
<td>Mode of operation</td>
<td>Continuous</td>
<td>Pulsed</td>
<td>Continuous</td>
</tr>
<tr>
<td>Tube voltage</td>
<td>60 - 85 kVp</td>
<td>80 kVp</td>
<td>60 - 85 kVp</td>
</tr>
<tr>
<td>Anodic current</td>
<td>4 - 10 mA</td>
<td>4 - 12 mA</td>
<td>4 - 10 mA</td>
</tr>
<tr>
<td>Focal spot</td>
<td>0.5 mm</td>
<td>0.5 mm</td>
<td>0.5 mm</td>
</tr>
<tr>
<td><strong>DETECTOR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>CMOS</td>
<td>Flat Panel CMOS</td>
<td>CMOS</td>
</tr>
<tr>
<td>FOV and format</td>
<td>260 x 148 mm</td>
<td>ø 40 x 40 mm, ø 60 x 60 mm, ø 80 x 80 mm, ø 110 x 80 mm (nose)</td>
<td>240 x 220 mm</td>
</tr>
<tr>
<td>Pixel size</td>
<td>Pixel : 100 µm</td>
<td>Voxel : 75 µm</td>
<td>Pixel : 100 µm</td>
</tr>
<tr>
<td><strong>ACQUISITION</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technique</td>
<td>Single scan</td>
<td>360° Single scan</td>
<td>Single scan</td>
</tr>
<tr>
<td>Exposure time</td>
<td>16.8 s</td>
<td>4 - 12 s</td>
<td>18 s</td>
</tr>
<tr>
<td>Scanning time</td>
<td>16.8 s - 25 s</td>
<td>12 - 30 s</td>
<td>23 s</td>
</tr>
<tr>
<td>Programs</td>
<td>Standard, child, Improved Orthogonality, Panoramic, bitewings, maxillary sinus, TMJ</td>
<td>Semi-arch, arch, full arch, sinus, ear</td>
<td>Frontal PA, Frontal AP, lateral LL, option : Carpus</td>
</tr>
<tr>
<td>Reconstruction time</td>
<td>3 s</td>
<td>29 s</td>
<td>4 s</td>
</tr>
<tr>
<td><strong>IMAGE FORMAT</strong></td>
<td>JPEG, BMP, PNG, TIFF</td>
<td>DICOM 3.0, STL</td>
<td>JPEG, BMP, PNG, TIFF</td>
</tr>
<tr>
<td><strong>MECHANICAL DATA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max footprint dimensions</td>
<td>L 150 x W 110 cm</td>
<td>L 150 x W 172 cm</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>Max: 235 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>170 kg (PAN)</td>
<td>185 kg (PAN-CBCT)</td>
<td>215 kg (PAN-CEPH)</td>
</tr>
<tr>
<td><strong>IEC</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class and Type</td>
<td>Class I, Type B</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>WORKSTATION</strong></td>
<td>(included with CBCT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Xeon 2 GHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hard disk</td>
<td>1 TB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphic Processor</td>
<td>NVIDIA (CUDA environnement GPU family)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAM</td>
<td>8 GB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIC Network card</td>
<td>Dedicated Gb Ethernet for X-Mind Trium conn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating system</td>
<td>Windows 7 Pro 64 bits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**SYSTEM**

- High frequency generator: DC generator
- Focal point: 0.5 mm
- Minimum total filtration: 2.6 mm Al
- Tube tension: 63-77 kV
- Tube voltage: 10 mA (8 mA in 100 VAC)
- Operating voltage: 220-240 VAC, 100-120 VAC (50/60 Hz)
- Class and type: IEC 60601-1, class 1/B

**FLAT PANEL DETECTOR**

- Type: Amorphous silicon
- Pixel size: 0.127 mm
- Active Area: 195 mm x 244 mm

**WORKSTATION FEATURES**

- Processor: Intel Xeon
- Hard Disk: >20 GB HDD
- Memory: 8 GB

**SCANNING PARAMETERS**

- Voxel size: 100 to 300 μm
- Voxel type: Isotropic
- Scanning time: 18 to 27 s
- X-ray exposure time: 6 to 9 s
- Reconstruction time: 30 s

**X-RAY TUBE SPECIFICATIONS**

- Focal spot: 0.5 x 0.5 mm
- Target angle: 15°
- Tube Voltage: 105 kV (100 kV RQT8)
- Anodic Current: 6 to 10 mA

**GENERAL**

- Classification: Class 1, type B
- Mains: 200 - 230 V or 100-115 V, 50/60 Hz
- Weight Wall mounted version: 240 kg
- Weight self-standing version: 275 kg
Docking Stations

Dock M-Video
- Storage of one or four images.
- Power supply: 115 V~60 Hz and 230 V ~ 50 Hz.
- Power consumption: 9 VA.
- One PAL or NTSC video output.
- One PAL or NTSC S-video output.
- Dimensions of the dock in mm: L. 145 x W. 130 x H. 35.
- Weight of the dock: 245 g.

Dock M-USB2
- Storage of one or four images.
- Power supply: 115 V–60 Hz and 230 V ~ 50 Hz.
- Power consumption: 9 VA.
- One PAL or NTSC video output.
- One PAL or NTSC S-video output.
- One digital USB 2.0 output.
- Dimensions of the dock in mm: L. 145 x W. 130 x H. 35.
- Weight of the dock: 245 g.

Dock M-Video
- Storage of one or four images.
- Power supply: 24 V–; 50 Hz - 60 Hz.
- Power consumption: 10 VA.
- One PAL or NTSC video output.
- One PAL or NTSC S-video output.
- Dimensions of the dock in mm: L. 100 x W. 72 x H. 36.
- Weight of the dock: 190 g.

Dock M-USB2
- Storage of one or four images.
- Power supply: 24 V–; 50 Hz - 60 Hz.
- Power consumption: 10 VA.
- One PAL or NTSC video output.
- One PAL or NTSC S-video output.
- One digital USB 2.0 output.
- Dimensions of the dock in mm: L. 100 x W. 72 x H. 36.
- Weight of the dock: 190 g.

Dock USB2
- One digital USB 2.0 output.
- Dimensions of the dock in mm: L. 100 x W. 46 x H. 20.
- Weight of the dock: 165 g.

Dock U-USB2
- Power supply: 24 V–; 50 Hz – 60 Hz.
- Power consumption: 15 VA.
- One digital USB 2.0 output.
- Dimensions of the dock in mm: L. 50 x W. 75 x H. 36.
- Weight of the dock: 76 g.

Mini Dock U-USB 2.0
- Power Supply: 5 VDC (from USB port)
- Input Power: Typical Power 2.5W
- Output: 1 USB 2.0 output
- Dimensions: L 48 x W 48 x H 30 mm
- Weight: 22g
All products in this catalogue must only be used by dental professionals.
Medical devices presented in this catalogue are health products stamped with the CE making, according to this regulation. The manufacturer of these medical devices are SOPRO® and DE GOTZEN® unless otherwise stated. Read carefully the instructions in the leaflet supplied with the product. Medical Devices marketed by SOPRO® and DE GOTZEN® are not reimbursed by health insurance organizations. Please read carefully the instructions on the labelling or in the user manuals. Updates are available on the site: www.acteongroup.com

A company of ACTEON Group • ZAC Athélia IV • Avenue des Genévriers • 13705 LA CIOTAT cedex • FRANCE
Tel + 33 (0) 442 980 101 • Fax + 33 (0) 442 717 6901 • E-mail : nfo@sopro.acteongroup.com • www.acteongroup.com