

ACTEON® Veterinary

SOLUTIONS FOR MORE TAILORED TREATMENTS

Veterinary Guide





ABOUT ACTEON®

ACTEON® creates and develops high tech medical devices and consumables that enable dentists, surgeons and veterinarians to implement less invasive, less traumatic and quicker operating protocols.

ACTEON® endeavored to play a key role in forming a link between human medicine and veterinary medicine, in particular in dentistry, offering innovative solutions and running practical training sessions around the world.

ACTEON® is a global pioneer in:

- Digital medical imagery, which provides a digital image of surgical sites during dental microsurgery
- Powerful ultrasounds specially developed for high-precision treatments
- Medical technologies in piezoelectric surgery

Although its head office is in France, a network of 26 offices provides our users with a more local service.



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IMAGING

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FACTS & FIGURES

Radiographs of teeth can detect lesions that are not clinically visible in 42% of cats and in 28% of dogs (Verstraete, 1998) (Fig. 1 & 2).



Fig. 1: Periodontitis located on the first mandibular molar of a cat



Fig. 2: X-ray produced with the Sopix² sensor, showing the extent of damage to the alveolar bone

When a cat has a missing tooth, in 75% of cases, the x-ray image shows retained root fragments (Lommer et al. JVMA 2001).

Out of 74 dogs and 42 cats which had carnassial teeth extracted by general practitioners, 82% and 93% respectively were found to have radicular fragments, and periapical pathologies were detected in 56.8% of all patients, compared with none in animals on which pre- and post-operative dental x-rays were taken (Moore et al. JAAHA, 2014).

PRINCIPLE OF RADIATION PROTECTION

Like all professionals using electric generators that produce ionising radiation, veterinarians are bound by obligations intended to guarantee protection of the public and their staff.

Ionising radiation can seriously impact the health of individuals exposed to it. Practitioners must have full knowledge of the documentation governing this radiation protection as they may be held liable. They must implement a certain number of measures relating to the radiology equipment and the arrangement of the premises. Veterinarians must request permission to have x-ray equipment, and ensure compliance with the conformity standards pertaining to this equipment and to x-ray facilities. They must carry out checks of the radiation sources, the environment and the premises, to determine the risks and mitigate these.

The organization of the protection of staff in a veterinary clinic against radiation relies, pursuant to the regulations, on the designation of a radiation protection supervisor. The training of the designated supervisor is regulated. They must ensure compliance with protection measures, organize the monitoring of personnel and implement the means required to protect staff and the public from radiation.

CLINICAL APPLICATION

Veterinarians now also benefit from the spiral CT (spiral scanner) with multiple detectors and cone beam computed tomography (CBCT), which they can use these to assess oral-dental pathologies in dogs, cats, rabbits and rodents. However, intraoral x-ray remains the most commonly used diagnostic imaging system for dental examinations at veterinary practices. This turnkey diagnostic system is easy to use and provides essential information to assess:

- Radicular resorption in cats and dogs
- Caries in dogs
- The presence of radicular debris and impacted teeth
- A periapical pathology on a tooth requires root canal treatment (*Fig. 3 & 4*)
- The scale and type of dental bone resorption requires periodontal treatment
- The different stages of root canal treatment and filling
- Etc.



Fig. 3: Apical abscess on a dog's premolar

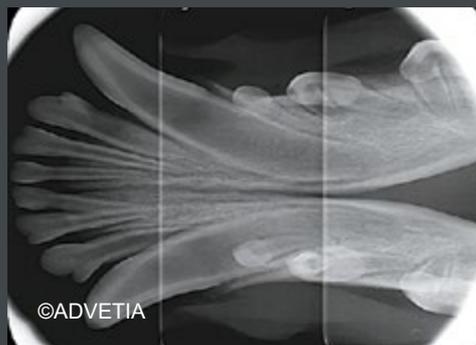


Fig. 4: Size 4 x-ray with PSPIX²



APPLICATION & RECOMMENDATIONS FOR USE

The digital sensor or the phosphor plate is used in intraoral treatment in the same way as a dental film. With the rigid digital sensor being thicker, it may be more uncomfortable for patients than the phosphor plate. In addition, there are more sizes of plates than sensors (only 2 sizes). They enable an x-ray image to be taken of any tooth, as well as the adjacent bone structures. They can also be used to assess the jaws or nasal cavity of small patients. In addition, they can also be used to take x-ray images of other structures (*Fig. 5*) such as the extremities of the limbs of cats, miniature/small dogs, rabbits and rodents, or the beaks of birds (*Fig. 6*).

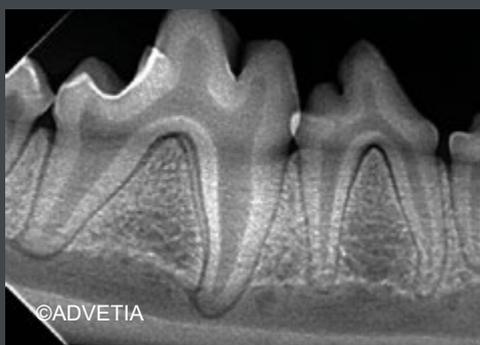


Fig. 5: Mandibular fourth premolar and first molar of a dog



Fig. 6: Tarsus of a ferret taken using a SOPIX² digital sensor

Due to the Sopro[®] Imaging Veterinary software, the x-ray image obtained after a few seconds is either directly displayed on the computer screen if you have used the digital sensor, or on the PSPIX^{®2} if you have used the phosphor plate.

RECOMMENDATIONS FOR USE

Dental x-rays rely on the use of an X-Mind[®] dental x-ray generator combined with a SOPIX[®] digital sensor and SOPIX^{®2} (*Fig. 7*), PSPIX^{®2} RLMS, or dental x-ray films (photographic).



Fig. 7: Direct display of the image on the screen with the Sopix² sensor



POSITIONING TECHNIQUES

Parallel technique

For mandibular premolars and molars, the RLMS or the sensor can be placed against the structure to be x-rayed (Fig. 8), parallel to its main axis.



Fig. 8: Parallel radiography technique

The animal is placed in the lateral decubitus position, laid on the side opposite the structure to be x-rayed (Fig. 9 & 10).



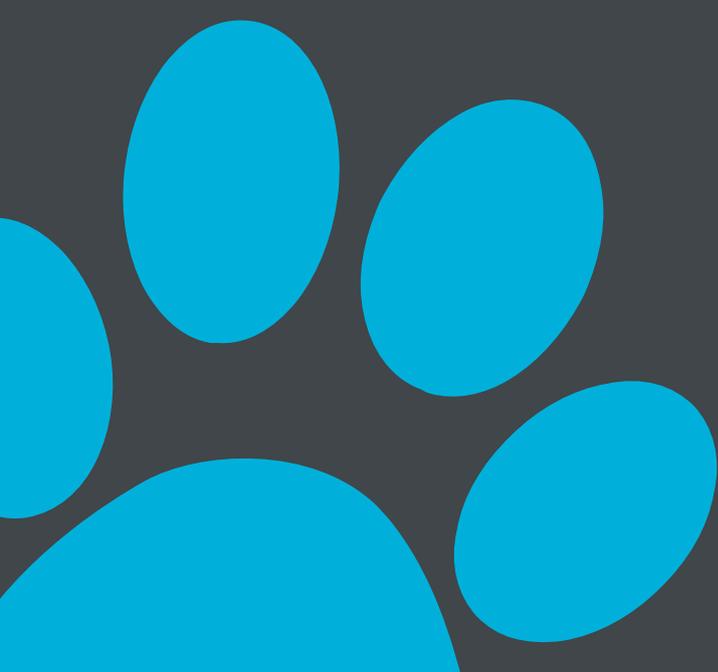
Fig. 9: Sopix^{®2} in intraoral position, parallel to the mandible



Fig. 10: Positioning of the Sopix^{®2} sensor, with its protection sleeve, in the mouth of a cat



Clinic - cat - perio - x-ray aspect



Bisecting angle technique

For the other teeth, the RLMS or the sensor must be placed at a given angle against the structure to be x-rayed. The incident radius must be perpendicular to the bisecting angle of the angle formed by the plane of the film and that of the root axis line of the tooth.

This technique is used in the different sectors of the oral cavity.

- For a tooth isolated with a retroalveolar film (Fig. 11, 12, 13 & 14)
- Canines, incisors with an intraoral film in occlusal position (Fig. 15)
- Mandibular or maxillary dental arch with an extraoral film

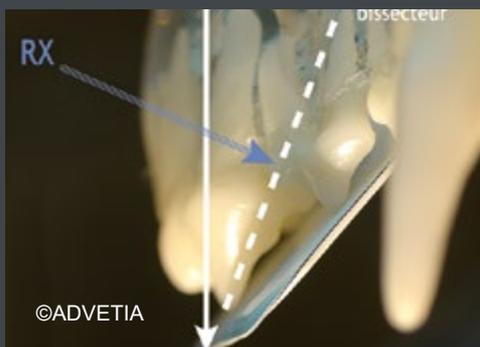


Fig. 11: Principle of the bisecting angle technique - retroalveolar film



Fig. 12: Bisecting angle technique with a size 2 Sopix® in occlusal position



Fig. 13: PSPIX^{®2} plate placed in the mouth using the bisecting angle technique

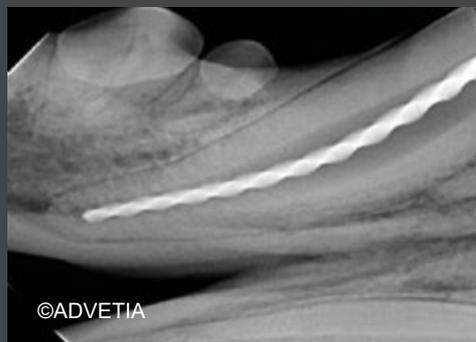


Fig. 14: K-file with working length, illustrated using the bisecting angle technique

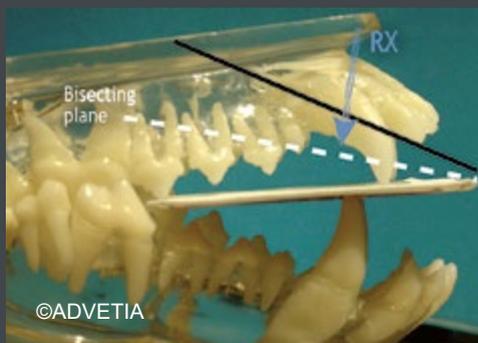


Fig. 15: Principle of the bisecting angle technique - film in occlusal position

x-mind
dc

The ingenious and simple
intraoral system
to meet your
highest standards



RELIABLE

X-Mind® DC generators are recognized for their reliable and consistent performance. Two lead beam-limitation devices and the expansion chamber guarantee optimal protection of the practitioner and practice staff.



NATURAL PROTECTION

The control of exposure times preset by microprocessor guarantees a continuous dose to the patient. Exposure times are reduced with the use of digital intraoral x-ray systems.

USER-FRIENDLY

Ergonomically arranged and programmed buttons: ensures faster task management. Exposure times can be customized to suit your clinical needs.



Delivered with 70kV generator, pantograph, extension arm, timer.



X-MIND® DC VET - WALL-MOUNTED - FIXED AT THE TOP

| | | | |
|-------------------------|-----------------------|-----------|-------------------|
| ARM LENGTH 0.40m | (max. distance 143cm) | Long Cone | 5.92.23187 |
| ARM LENGTH 0.80m | (max. distance 184cm) | Long Cone | 5.92.23184 |
| ARM LENGTH 1.10m | (max. distance 212cm) | Long Cone | 5.92.23186 |

X-MIND® DC VET - WALL-MOUNTED - FIXED BY THE BOTTOM

| | | | |
|-------------------------|-----------------------|-----------|-------------------|
| ARM LENGTH 0.40m | (max. distance 143cm) | Long Cone | 5.92.23180 |
| ARM LENGTH 0.80m | (max. distance 184cm) | Long Cone | 5.92.23181 |
| ARM LENGTH 1.10m | (max. distance 212cm) | Long Cone | 5.92.23182 |

X-MIND® DC VET - CEILING-MOUNTED

| | | | |
|---|--|-----------|-------------------|
| Ceiling-mounted with 0.40m arm (on standard Ø60cm Faro column) Ceiling attachments not included | | Long Cone | 5.92.23185 |
|---|--|-----------|-------------------|

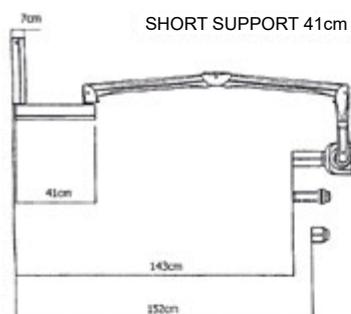
X-MIND® DC VET MOBILE

| | | | |
|-----------------------|--|-----------|-------------------|
| MOBILE SUPPORT | | Long Cone | 5.92.23183 |
|-----------------------|--|-----------|-------------------|

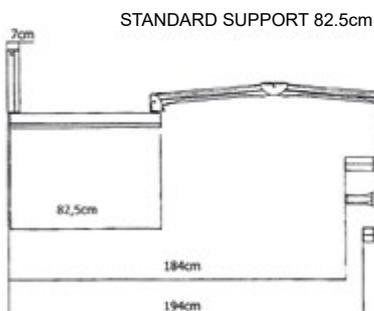


X-MIND® DC TECHNICAL CHARACTERISTICS

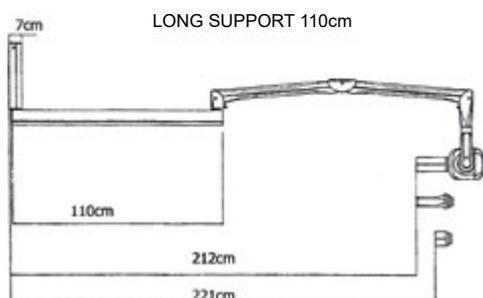
| | |
|--------------------------|--|
| Classification | Electromedical equipment, class 1 type B |
| Supply voltage | 115/230V - 50/60Hz |
| Power absorbed at | 1.4kVA |
| High voltage | 60 to 70kV |
| Anodic current | 4 to 8mA |
| Focal spot | 0.7mm |
| Total filtration | Equivalent to 2mm Al at 70kV |
| Leakage radiation | < 0.25mGy/hr |
| Technology | Direct current - HF 150KHz generator |
| Timer | from 0.02 to 3.2 seconds |
| Weight of head | 5.5kg |
| Total weight | 25kg |



EXTENSION 0.41m

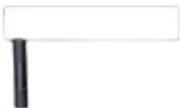
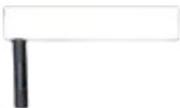
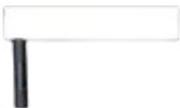


EXTENSION 0.825m



EXTENSION 1.10m

X-MIND® DC ACCESSORIES

| | | |
|---|--|-------------------|
|  | X-MIND® DC HEAD | 5.31.23130 |
|  | X-MIND® DC 230V TIMER | 5.31.23180 |
|  | SHORT CONE (20cm DFP) Recommended for the bisecting angle technique | 29701195 |
|  | LONG CONE (31cm DFP) Recommended for the parallel technique | 29701197 |
|  | SQUARE CONE (31cm DFP) Reduces the radiation applied to the patient's skin | 29701199.C |
|  | X-MIND® DC WALL-MOUNTED SUPPORT Fixed at the bottom | 29700384.C |
|  | X-MIND® DC WALL-MOUNTED SUPPORT Fixed at the top | 29700385.C |
|  | IRIX 79 WALL ADAPTER PLATE For installation of X-Mind® DC | 22002350 |
|  | X-MIND® DC PANTOGRAPH | 29701006.C |
|  | X-MIND® DC 0.40m EXTENSION Fixed at the bottom | 29700380.C |
|  | X-MIND® DC 0.80m EXTENSION Fixed at the bottom | 29700378.C |
|  | X-MIND® DC 1.10m EXTENSION Fixed at the bottom | 29700379.C |
|  | X-MIND® DC 0.80m EXTENSION With pantograph and wall support | 5.30.00131 |
|  | X-MIND® DC 1.10m EXTENSION With pantograph and wall support | 5.30.00132 |
|  | X-MIND® DC 0.40m EXTENSION Fixed at the top | 29700620.C |
|  | X-MIND® DC 0.80m EXTENSION Fixed at the top | 29700621.C |
|  | X-MIND® DC 1.10m EXTENSION Fixed at the top | 29700622.C |
|  | X-MIND® DC 0.40m EXTENSION Ceiling-mounted | 29700382.C |

x-mind unity

Versatility for more options



UNITY IS STRENGTH

X-MIND® unity is ACTEON's **intraoral DC X-ray generator**, which marries an elegant design with technological solutions resulting from extensive know-how in the imaging sector.

The high-frequency (DC) generator with constant potential, combined with a small focal spot (0.4mm) and a comprehensive range of x-ray settings, is designed to offer the highest standards of image quality and safety with a simple and intuitive use that is perfectly integrated into the user's workflow.

PLUG IT IN TO DISCOVER ITS FULL POTENTIAL

The combination of the **X-MIND® unity** intraoral X-ray generator with the brand new **SOPIX® plug-in**, will enable you to obtain maximum performance due to:

- **automatic control exposure (ACE) technology**, specially developed to prevent X-ray emissions when the correct radiation dose is reached on the receptor, thus ensuring that the best image quality is always obtained at the lowest compatible dose.
- **a brand new plug&play sensor connection system** providing everything you need when you need it in an elegant, safe and multipurpose solution .
- **exclusive traceability: combined with the Sopro Imaging Veterinary software**, the X-Mind Unity settings as well as the effective dose received by the animal for each acquisition are recorded and saved in the software.



A MULTIPURPOSE GENERATOR

Three available extension arms (40, 80, 110cm), two configurations (upper arm or lower arm), one goal: **to meet your needs**.

If the wall-mounted version is not suitable for you, **X-MIND® unity** is also available as a **mobile stand-alone unit**.

X-MIND® UNITY VET MOBILE

Package including mobile support and X-Mind® unity for mobile support (option)

| | | |
|-----------------------|-------------------|-----------------|
| MOBILE SUPPORT | | W0800127 |
| X-MIND® UNITY | Short cone | W0800083 |
| X-MIND® UNITY | Long cone | W0800130 |
| X-MIND® UNITY | Long square cone | W0800131 |
| X-MIND® UNITY | Short square cone | W0800132 |



X-MIND® UNITY VET - WALL-MOUNTED - FIXED AT THE TOP

| | | |
|-------------------------|------------|-----------------|
| ARM LENGTH 0.40m | Long cone | W0800067 |
| ARM LENGTH 0.80m | Long cone | W0800068 |
| ARM LENGTH 1.10m | Long cone | W0800069 |
| ARM LENGTH 0.40m | Short cone | W0800073 |
| ARM LENGTH 0.80m | Short cone | W0800074 |
| ARM LENGTH 1.10m | Short cone | W0800075 |

X-MIND® UNITY VET - WALL-MOUNTED - FIXED AT THE BOTTOM

| | | |
|-------------------------|------------|-----------------|
| ARM LENGTH 0.40m | Long cone | W0800070 |
| ARM LENGTH 0.80m | Long cone | W0800071 |
| ARM LENGTH 1.10m | Long cone | W0800072 |
| ARM LENGTH 0.40m | Short cone | W0800076 |
| ARM LENGTH 0.80m | Short cone | W0800077 |
| ARM LENGTH 1.10m | Short cone | W0800078 |



The focal spot of the generator (Y):
0.7mm



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

X-MIND® UNITY ACCESSORIES

| | | |
|-------------------------|-----------------------------------|-----------------|
| ARM LENGTH 0.40m | X-Mind® unity fixed at the top | W0800025 |
| ARM LENGTH 0.80m | X-Mind® unity fixed at the top | W0800026 |
| ARM LENGTH 1.10m | X-Mind® unity fixed at the top | W0800027 |
| ARM LENGTH 0.40m | X-Mind® unity fixed at the bottom | W0800028 |
| ARM LENGTH 0.80m | X-Mind® unity fixed at the bottom | W0800029 |
| ARM LENGTH 1.10m | X-Mind® unity fixed at the bottom | W0800030 |
| PANTOGRAPH ARM | X-Mind® unity | W0800031 |



X-MIND® UNITY SHORT CONE
Recommended for the bisecting angle technique

W0800018



X-MIND® UNITY LONG CONE
Recommended for the parallel technique

W0800019



X-MIND® UNITY SHORT SQUARE CONE
Reduces the radiation applied to the patient's skin

W0800137



X-MIND® UNITY LONG SQUARE CONE
Reduces the radiation applied to the patient's skin

W0800020



X-MIND® UNITY HEAD

W0800022



X-MIND® UNITY VET TIMER

W0800024



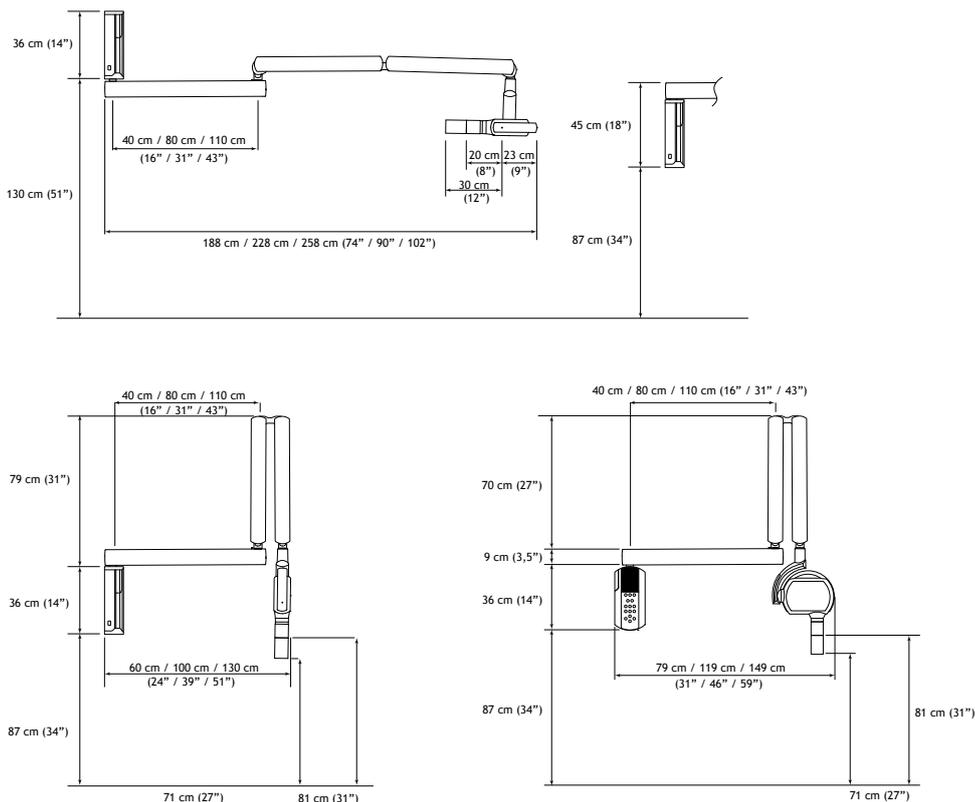
IRIX 70 WALL ADAPTER PLATE
For installation of X-Mind® unity

W0800100



X-MIND® UNITY TECHNICAL CHARACTERISTICS

| | |
|----------------------------------|--|
| Classification | Electromedical equipment, class 1 type B |
| Supply voltage | 100/240V |
| Power absorbed at | 850kVA |
| Frequency | 50 to 60kV |
| Focal spot | 0.4mm |
| Total filtration | > 15mm Al at 70kV |
| Leakage radiation | < 0.25mGy/hr |
| Cooling cycle for 1 sec. | 32 seconds |
| High Frequency Technology | DC |
| Maximum anodic current | 7mA |
| X-ray tube voltage | 60/65/70kV |
| Maximum exposure time | 2 seconds |
| Compatibility | Film, phosphor plate, digital sensor |
| Total weight | 23kg |
| Configuration | Top and bottom wall-mounted, mobile |
| Timer | Controlled by microprocessor |



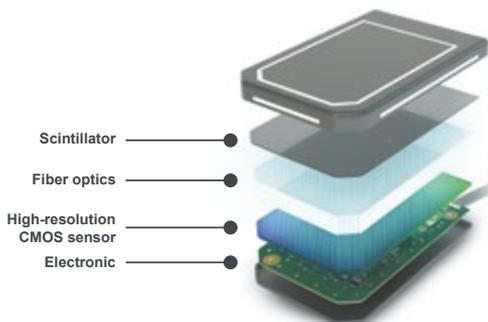
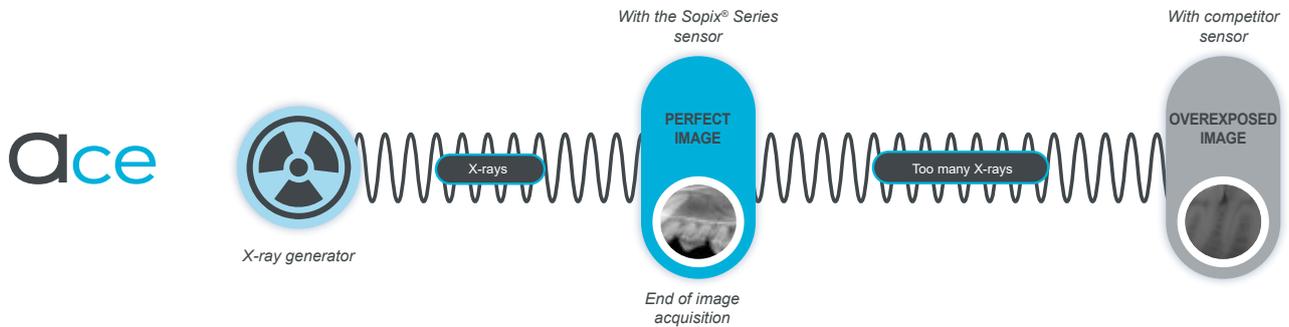


sopix
series

Smart sensors for
effortless performance

SMART DOSE

Our **Ace® technology** analyzes in real-time the number of X-rays accumulated by the sensor. The image acquisition is stopped as soon as the sensor receives **the radiation dose required to produce a quality image**. Therefore, even if your generator setting is too high, the image will no longer be overexposed and you will no longer need to retake an image.



SMART TECHNOLOGY

SOPIX® SERIES **visually differentiates dental tissues** and provides a **reliable image of the tooth anatomy**, guaranteeing safe and rapid diagnosis. **FIBER2PIXEL®** technology is based on the use of broad spectrum optical microfibers to guarantee image clarity and contrast.

SMART FLOW

Images are **saved** in a database and can be **shared** easily, **sent** by e-mail then printed and accompanied by **comments**.



Available in 2 sizes to ensure suitability for all clinical cases and all morphologies.

| Medium to large dog | Small cat & dog | | Cat & very small dog | Rabbit & rodents |
|---------------------|-----------------|--------------------|----------------------|------------------|
| Size 2 | Size 1 | Size 2 | Size 1 | Size 2 |
| Intra or extraoral | Intraoral | Intra or extraoral | Intra or extraoral | Extraoral |

sopix

A reliable and affordable solution to meet your essential needs.

Resolution: >12 pl/mm



sopix 2

The solution offering optimized performance and a high-definition resolution.

Resolution: >18 pl/mm



SOPIX®²

Delivered with a sensor holder, 10 sensor sheaths, the SOPRO® Imaging Veterinary software.

**SOPIX®² SENSOR SIZE 1 USB**

High definition

S_802_0010**SOPIX®² SENSOR SIZE 2 USB**

High definition

S_802_0011V**SOPIX®**

Delivered with a sensor holder, 10 sensor sheaths, the SOPRO® Imaging Veterinary software.

**SOPIX®² SENSOR SIZE 1 USB**

Standard definition

S_802_3010V**SOPIX® SENSOR SIZE 2 USB**

Standard definition

S_802_3011V**SOPIX®²/SOPIX® ACCESSOIRES****POSITIONING SET FOR SOPIX®² /SOPIX® SENSORS**

Includes 5 positioning holders with ring (bitewing, anterior and posterior teeth, anterior and posterior endo)

700042**SOPIX®² /SOPIX® SENSOR HOLDER**

Size 1 or 2

926039**SHEATHS FOR SOPIX® /SOPIX®² Box of 500**
for SOPIX®² series Size 1/2**403026****403027****USB2.0 ACTIVE BOOSTER**

Length: 5m

700381**BITE PROTECTION****403037**

SOPRO® IMAGING VETERINARY SOFTWARE



SOPRO® IMAGING VETERINARY

505020

SOPIX®²/ SOPIX® TECHNICAL CHARACTERISTICS

| | Size 1 sensor | Size 2 sensor |
|----------------------------|---------------------------------|---------------------------------|
| External dimensions | 25x39mm | 31x42mm |
| Active surface | 600mm ² (20x30mm) | 884mm ² (26x34mm) |
| Number of pixels | 1.50 million | 2.21 million |

| | Sensor connection SOPIX® & SOPIX® ² |
|---------------------|---|
| Connection | USB 2.0 |
| Cable length | 3.70m |

| | SOPIX® | SOPIX® ² |
|----------------------------------|-------------------------------------|-------------------------------------|
| Technology | CMOS + scintillator + optical fiber | CMOS + scintillator + optical fiber |
| Pixel size | 20µm x 20µm | 20µm x 20µm |
| Nominal resolution | 25 pl/mm | 25 pl/mm |
| Resolution | >12 pl/mm | >18 pl/mm |
| Imaging software included | SOPRO® Imaging Veterinary | SOPRO® Imaging Veterinary |
| TWAIN Compatible | Yes | Yes |

| Windows® | SOPIX® | SOPIX® ² |
|--------------------------|--|--|
| Operating System | Windows® 10 PRO 64bits | Windows® 11 PRO 64bits |
| Processor | Intel® Core i5 – 2 cores 4 threads | Intel® Core i5 – 4 cores 4 threads |
| RAM | 8 GB | 8 GB |
| Hard drive | 250 GB | 300 GB |
| USB ports | 2 high speed USB2.0 ports | 2 high speed USB2.0 ports |
| Graphics card | OpenGL 2.1 or Direct X 9 or 11 graphics card | OpenGL 2.1 or Direct X 9 or 11 graphics card |
| USB Chipset | Intel or NEC®/RENESAS® | Intel or NEC®/RENESAS® |
| Screen resolution | 1600x1024 | 1600x1024 |

sopix plug-in

Enjoy greater flexibility with the embedded system and its portable sensor part



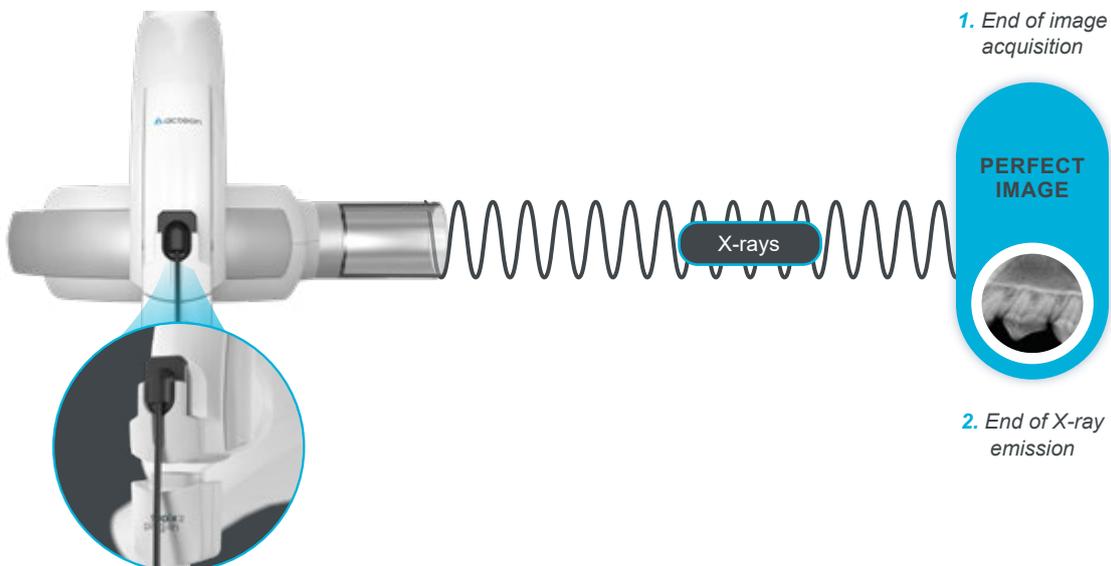
SMART FLOW AND TECHNOLOGY

Sopix® plug-in benefits from the known x-ray quality characteristics Sopix® with high-performance and flexible sensors compatible with all clinical cases, all morphologies and all software. It is specially designed for use with X-Mind® Unity to ensure optimal use of all functions.

EFFECTIVE PROTECTION WITH MINIMAL EXPOSURE TIME

Due to our exclusive Ace® technology, our smart sensors provide even greater performance when used with X-Mind® Unity.

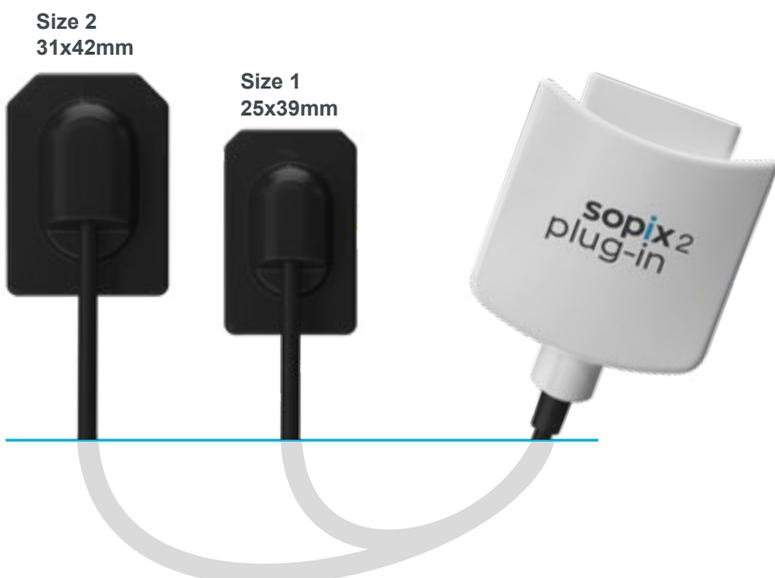
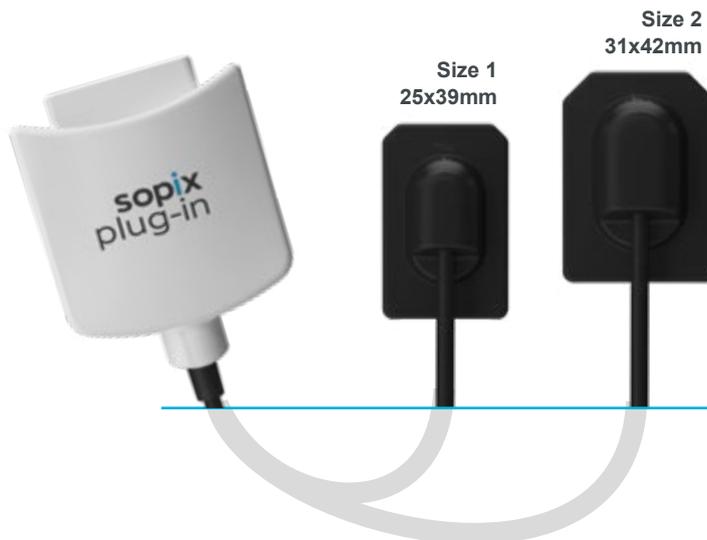
Once the sensors receive the required dose of radiation, they order the X-Mind® Unity to **limit the emission of X-rays**. The result is an optimum quality X-ray without risk of overexposure for both the image and the patient.



sopix plug-in

Sopix® first generation offers greater safety, flexibility and comfort.

Resolution: >12 pl/mm



sopix2 plug-in

Advanced technologies that do not compromise on image quality and that offer greater safety, flexibility and comfort.

Resolution: >18 pl/mm



SOPIX®² PLUG-IN

Delivered with a sensor holder, 10 sensor sheaths, the SOPRO® Imaging Veterinary software.

**SOPIX®² SENSOR SIZE 1 PLUG-IN**

High definition

S_802_7000V

SOPIX®² SENSOR SIZE 2 PLUG-IN

High definition

S_802_7001V

SOPIX® PLUG-IN

Delivered with a sensor holder, 10 sensor sheaths, the SOPRO® Imaging Veterinary software.

**SOPIX® SENSOR SIZE 1 PLUG-IN**

Standard definition

S_802_8000V

SOPIX® SENSOR SIZE 2 PLUG-IN

Standard definition

S_802_8001V

SOPIX®² PLUG-IN/SOPIX® PLUG-IN ACCESSORIES**SOPIX® /SOPIX®² PLUG-IN DOCK**

S_802_9000

**POSITIONING SET FOR SOPIX®²/SOPIX® SENSORS**

Includes 5 positioning holders with ring (bitewing, anterior and posterior teeth, anterior and posterior endo)

700042

**SHEATHS FOR SOPIX® /SOPIX®² Box of 500**

for SOPIX®² sensor Size 1

for SOPIX®² sensor Size 2

403026

403027

**BITE PROTECTION**

403037

SOPRO® IMAGING VETERINARY SOFTWARE**SOPRO® IMAGING VETERINARY**

505020

SOPIX® PLUG-IN/SOPIX®² PLUG-IN TECHNICAL CHARACTERISTICS

| | Size 1 sensor | Size 2 sensor |
|----------------------------|---------------------------------|---------------------------------|
| External dimensions | 25x39mm | 31x42mm |
| Active surface | 600mm ² (20x30mm) | 884mm ² (26x34mm) |
| Number of pixels | 1.50 million | 2.21 million |

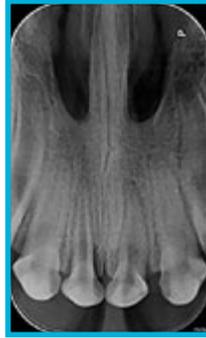
| | Sensor connection SOPIX® Plug-in & SOPIX®² Plug-in |
|---------------------|---|
| Connection | USB 2.0 |
| Cable length | 0.70m |

| | SOPIX® Plug-in | SOPIX® ² Plug-in |
|----------------------------------|-------------------------------------|-------------------------------------|
| Technology | CMOS + scintillator + optical fiber | CMOS + scintillator + optical fiber |
| Pixel size | 20µm x 20µm | 20µm x 20µm |
| Nominal resolution | 25 pl/mm | 25 pl/mm |
| Resolution | >12 pl/mm | >18 pl/mm |
| Imaging software included | SOPRO® Imaging Veterinary | SOPRO® Imaging Veterinary |
| TWAIN Compatible | Yes | Yes |

| Windows® | SOPIX® Plug-in | SOPIX® ² Plug-in |
|--------------------------|--|--|
| Operating System | Windows® 10 PRO 64bits | Windows® 11 PRO 64bits |
| Processor | Intel® Core i5 – 2 cores 4 threads | Intel® Core i5 – 4 cores 4 threads |
| RAM | 8 GB | 8 GB |
| Hard drive | 250 GB | 300 GB |
| USB ports | 2 high speed USB2.0 ports | 2 high speed USB2.0 ports |
| Graphics card | OpenGL 2.1 or Direct X 9 or 11 graphics card | OpenGL 2.1 or Direct X 9 or 11 graphics card |
| USB Chipset | Intel or NEC®/RENESAS® | Intel or NEC®/RENESAS® |
| Screen resolution | 1600x1024 | 1600x1024 |

| Mac® | Minimum required configuration | Recommended configuration |
|-------------------------|---|---|
| Computer | MacBook® Pro 13" or iMac® 21.5" | iMac® 27" Retina |
| Operating System | macOS Monterey | macOS Ventura |
| Processor | Intel® Core i5 or Apple M1 or later version | Intel® Core i7 or Apple M1 or later version |
| RAM | 8 GB | 8 GB |

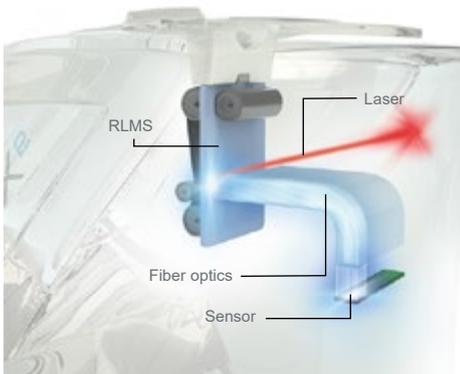
pspix2



The X-ray scanner taking care of you and your patients

AUTOMATIC

Simply drop the plate into the slit, and the PSPIX®2 will automatically detect the size, scan the plate, optimize the image, and send it instantly to your imaging software. In the meantime, it automatically wipes and ejects the plate. The scanner is therefore immediately ready for the next scan or to switch to standby mode.



EFFECTIVE

PSPIX®2 combines a number of technologies and is designed to produce, in just 12 seconds, a high contrast image of the different dental tissues that is easy to interpret. FIBER2PIXEL® technology is based on the use of broad spectrum optical microfibers for the guided transmission of photon emissions, in order to produce highly contrasted images.

ADAPTABLE

Created based on a cutting edge technology and design, the PSPIX®2 is the smallest and most compact PSP* scanner on the market. Its autoclavable option means that the detachable part is compatible for use in thermal washers-disinfectors, as well as conforming to the latest disinfection standards. Its large color touch-screen provides intuitive information for fast and easy use. **It is suitable for all practices and designed for everyone.**



* Programmable Scanner Position

WIDE RANGE OF REUSABLE THIN AND FLEXIBLE INTRAORAL PLATES



| Medium to large dog | Small cat & dog | | Cat & very small dog | | Rabbit & rodents | |
|---------------------|-----------------|--------------------|----------------------|------------|------------------|------------|
| Size 2/3/4 | Size 0/1 | Size 2/3/4 | Size 0/1 | Size 2/3/4 | Size 0 | Size 2/3/4 |
| Intraoral | Intraoral | Intra or extraoral | Intra or extraoral | Extraoral | Intraoral | Extraoral |

FULLY AUTOMATED PROCESS



- 1 Auto access:**
 The door only opens when the imaging plate is inserted.
- 2 Auto detect:**
 PSPIX^{®2} automatically detects the size of the inserted imaging plate.
- 3 Auto scan:**
 PSPIX^{®2} scans and optimises the image before displaying it on the right workstation.
- 4 Auto eject:**
 The imaging plate is automatically erased and ejected for an immediate reuse.
- 5 Eco Mode:**
 PSPIX^{®2} automatically switches to eco mode when it has remained unused for a while.

PSPIX®2



Comes with 1x size 4 kit, 4 phosphor plates (2x size 1, 2x size 2), 200 protective covers with integrated cardboard envelope (100x size 1, 100x size 2), a plate storage box, 1 touchscreen stylus, 1 protective cover for the PSPIX®, 1 cleaning plate, 1 100-240VAC power supply, 1 Ethernet cable, the Sopro® Imaging Veterinary software and its licence.

S_702_0012

PSPIX®2 ACCESSORIES



ACCESSORIES STARTER KIT
100x size 1 and 100x size 2

700550



PLATE STORAGE BOX
delivered without imaging plates

990219



STYLUS FOR PSPIX®2 TOUCHSCREEN

005132



PSPIX®2 CLEANING PLATE

990243



PROTECTIVE COVER FOR PSPIX®2

990247



AUTOCLAVABLE DETACHABLE PARTS FOR PSPIX®2
Contains 1 autoclavable detachable container and 1 autoclavable detachable plate insertion guide

990241



POSITIONING HOLDER FOR PSPIX® PLATE
Includes 5 bitewing positioning holders and 1 centring ring

S_700195



POSITIONING HOLDER FOR PSPIX® PLATE
Includes 2 anterior teeth positioning holders, 2 posterior teeth positioning holders and 2 centring rings

S_700196

SIZE 4 KIT FOR PSPIX®2
Comes with 1x size 4 holder, 3x size 3 plates and 100x size 4 protective covers

990252



PLASTIC HOLDER Size 4

990251

PLATES Size 3
Set of 3

990248

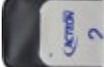
PROTECTIVE COVER Size 4
Set of 100

700644

STANDARD PLATES

| | PSPIX®2 | | PSPIX® 1st generation | |
|---------------------|---|---------------|---|-----------------|
| | Set of 2 | | Set of 6 | |
| Size 0 (22x35mm) |  | 990215 |  | S_700178 |
| Size 1 (24x40mm) |  | 990216 |  | S_700179 |
| Size 2 (31x41mm) |  | 990217 |  | S_700180 |
| Size 3 (27x54mm) |  | 990218 |  | S_700181 |

PLATE PROTECTIVE COVERS

| | PROTECTIVE COVERS Standard FOR PSPIX® & PSPIX® 2 1st generation | | PROTECTIVE COVERS With integrated cardboard envelope FOR PSPIX® 2 | | PROTECTIVE COVERS With integrated cardboard envelope FOR PSPIX® 1st generation | |
|--------|---|----------------|---|---------------|---|----------------|
| | Set of 250 | | Set of 300 | | Set of 250 | |
| Size 0 |  | 700342L |  | 700546 |  | 700338L |
| Size 1 |  | 700343L |  | 700547 |  | 700339L |
| Size 2 |  | 700344L |  | 700548 |  | 700340L |
| Size 3 |  | 700345L |  | 700549 |  | 700341L |

PSPIX^{®2} TECHNICAL CHARACTERISTICS

| SYSTEM | |
|--------------------------------------|---------------------------|
| Resolution | 20 lp/mm |
| Scanning time (fast mode) | 1.6 s - 2.7 s |
| Scanning time (high definition mode) | 2.1 s - 3.6 s |
| Connection | Ethernet RJ-45 |
| Dimensions | L. 154 x D. 204 x H.193mm |
| Weight | 2.6kg |
| Supply voltage | 100 - 240V ~ 50 - 60Hz |

| PLATES | |
|---------------------------------------|---------|
| Size 0 Dimensions | 22x35mm |
| Size 1 Dimensions | 24x40mm |
| Size 2 Dimensions | 31x41mm |
| Size 3 Dimensions | 27x54mm |
| Size 4 Dimensions (3 x Size 3 plates) | 69x54mm |

| Windows [®] | Minimum required configuration | Recommended configuration |
|----------------------|--|--|
| Operating System | Windows [®] 10 PRO 64 bits | Windows [®] 11 PRO 64bits |
| Processor | Quadcore 2.6 Ghz | Quadcore 2.6 Ghz |
| RAM | 4 GB | 8 GB |
| Hard drive | 300 GB | 1 TB |
| USB ports | 2 high speed USB2.0 ports | 4 high speed USB2.0 ports |
| Graphics card | OpenGL 2.1 or Direct X 9 or 11 graphics card | Dedicated graphics card with at least 1 GB of memory |
| USB Chipset | Intel [®] or NEC [®] /RENESAS [®] | Intel [®] or NEC [®] /RENESAS [®] |
| Screen | 1600x1024 | 1920x1080 for optimal planning |
| Ethernet card | 100 Mbps - 1 Gbps | 1 Gbps |





BENEFITS OF AN INTRAORAL CAMERA

An intraoral camera shows pathologies on an image that can be used to easily explain clinical procedures to the owners of the animals in your care.

Showing a clear and detailed image can **promote dialogue** and enable you to counter the objections and address the concerns of pet owners. This is not just about **sharing images** of their pets, it is primarily about helping them to understand the **importance of oral-dental hygiene**.

Opting for an Acteon intraoral camera will also enable you to **optimize patient follow-up** by saving the images chronologically and for each tooth in the imaging software. As a practitioner, you can therefore monitor changes to lesions and to the oral-dental hygiene of animals simply and effectively.



C50

An excellent communication tool



The HD **C50** full intraoral camera ensures that everything you need to see is at your fingertips.

EXCEPTIONAL EXAMINATION QUALITY

- **Full HD:** a clear and detailed image ensuring a more reliable diagnosis and providing a visual communication support between veterinary doctors and pet owners, who will likely be more receptive to suggested treatments.
- **Viewing mode:** use of natural colors to be able to compare stains
- **Auto focus:** saves time and produces a reliable image to ensure ease of use for the practitioner
- **Macro vision:** a facilitated clinical assessment due to an ultra clear image of fissures and caries
- **Depth of field:** a camera with 5 viewing angles, easily accessible using the intuitive buttons

UNIQUE CLINICAL FLEXIBILITY

Its 4 modes ensure an accurate and reliable diagnosis, covering a wide range of cases:

- **Daylight Mode:** record of natural colors for a better interpretation of tooth shade, pathology identification and patient follow-up

Options*:

- **Daylight+ Mode:** high contrasts emphasizing anatomic fissures and details of the dentin structure
- **Perio Mode:** enhancement of dental plaque and gingival inflammation using chromatic amplification
- **Cario Mode:** caries detection using the LED fluorescence technique

*Clinically proven for use in human dentistry only
* the 3 modes are not included as standard*



C50



C50 INTRAORAL CAMERA
with diagnostic aid

S_C50_0001

C50 INTRAORAL CAMERA
without diagnostic aid

S_C50_0002

C50 ACCESSORIES

C50 INTRAORAL CAMERA COVER
pack of 500

403 050

C50 TECHNICAL CHARACTERISTICS

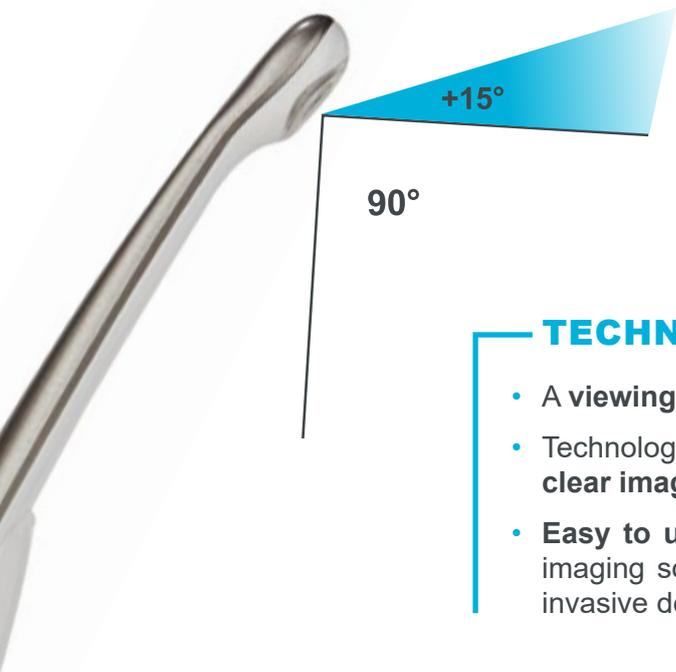
| | |
|--|---|
| Sensor | CMOS |
| Resolution | 1920x1080px |
| Sensitivity | 2 lux |
| Frames per second (FPS) | 25 - 30 |
| Image format | 16/9 |
| Bulbs | 6 white LEDs and 2 blue LEDs |
| Focus adjustment | Auto focus |
| 4 viewing modes | DAYLIGHT mode If activated option: DAYLIGHT+ mode, PERIO mode and CARIO mode |
| Depth of field | From portrait to macro |
| Image capture | Capture button or footswitch (optional) |
| Viewing angle | 75° |
| Cable length | 3 m |
| USB output | 3.0 |
| Power consumption | 4.5W max. |
| Handpiece dimensions | L. 200 x W. 30 x H. 24mm |
| Handpiece weight | 100g |
| International Protection (IP) marking | Protection from dust and sealing IP53 |

Minimum required configuration

| | |
|-------------------------|--|
| Operating System | From Windows® 10 PRO 64bits |
| Processor | Intel Core i5 4 core 2GHz Gen 8 or later version |
| RAM | 8 GB |
| USB version | 3.0 or later |
| USB Chipset | Intel® or RENESAS® |

SOPRU 617

Images providing key information about treatments



TECHNOLOGY AT YOUR SERVICE

- A viewing angle at 105° for better exploration of distal areas
- Technology that avoids distortion ensuring **greater depth of field** and a **clear image** without having to make any adjustments
- **Easy to use:** point and shoot. The images obtained are saved in an imaging software, offering you all the tools you need to practise less-invasive dental operations.

COMFORT AT YOUR FINGERTIPS

- A rounded form and a much smaller camera head for better ergonomics
- Exclusive SOPROTOUCH® technology enabling images to be displayed on the screen with one touch on the touchscreen.



SOPRO 617



SOPRO 617 INTRAORAL CAMERA
PAL

S_617_0001

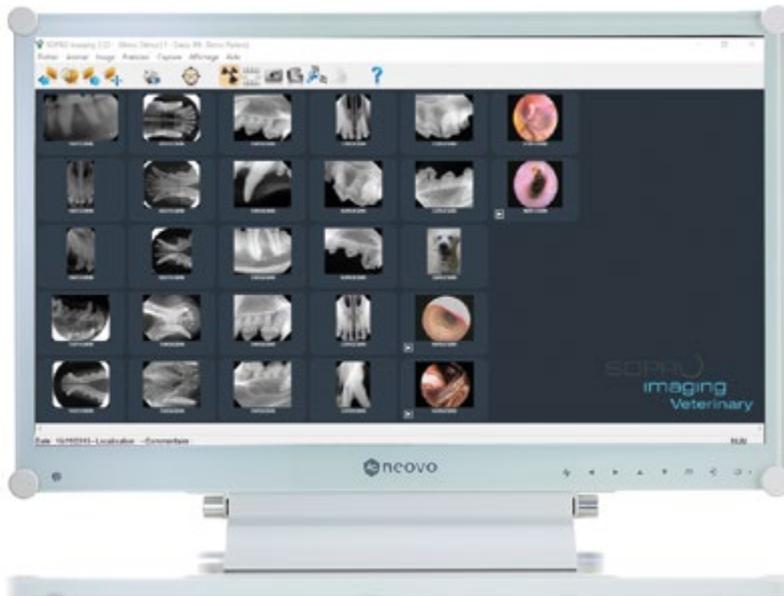
SOPRO 617 INTRAORAL CAMERA
NTSC

S_617_0002

SOPRO 617 TECHNICAL CHARACTERISTICS

| | |
|-------------------------|-------------------------------------|
| High sensitivity | 1/4" CDD |
| Resolution | (752x582) PAL; (786x494) NTSC |
| Sensitivity | 2 lux |
| Bulbs | 8 LEDs |
| Focal length adjustment | Fixed |
| Image freeze | SoproTouch or footswitch (optional) |
| Viewing angle | 80° |
| Handpiece dimensions | L. 205 x D. 28 x H. 24mm |
| Handpiece weight | 55g |

| Windows® | Minimum required configuration | Recommended configuration |
|------------------|---|--|
| Operating System | Windows® 7 SP1 | Windows® 10 PRO 64bits |
| Processor | Intel® Core 2 Duo - 3GHz | Intel® Core i5 |
| Memory | 2 GB | 4 GB |
| Hard drive | 250 GB | 1 TB |
| USB ports | 4 high speed USB2.0 ports | 4 high speed USB2.0 ports |
| Graphics card | Dedicated graphics card with minimum 1 GB of memory (suggested NVIDIA GT/CTX) | Nvidia® or ATI® chipset 2 GB RAM individual video card, compatible with DirectX 9 or later |
| USB Chipset | Intel® or NEC®/RENESAS® | Intel® or NEC®/RENESAS® |
| Screen | 1280x1024 | 1280x1024 or bigger |



sopro
imaging
veterinary

**Intuitive and
complete software**

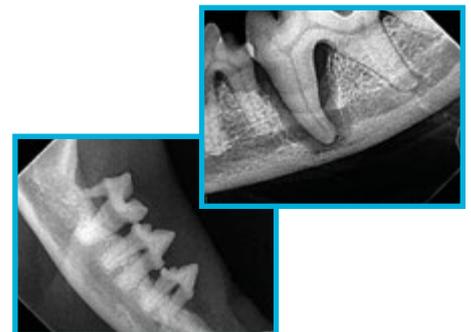
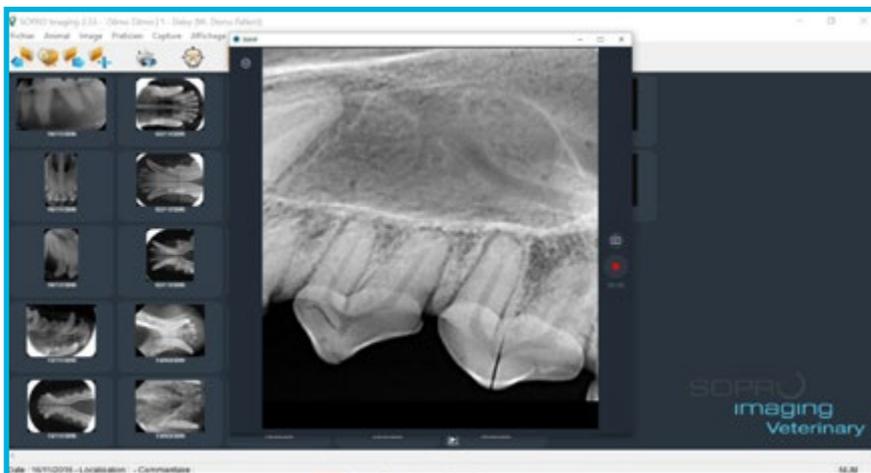
SOPRO IMAGING VETERINARY

- Image and video capture
- Addition of comments
- Printing, sending by e-mail and export of all data. The SOPRO® Imaging Veterinary software is easy to install and use when it is configured in an IT network.
- User-friendly and intuitive
- Multilingual software (27 languages available)
- Compatible with Windows® and frequently updated
- User-friendly database to save all patient information



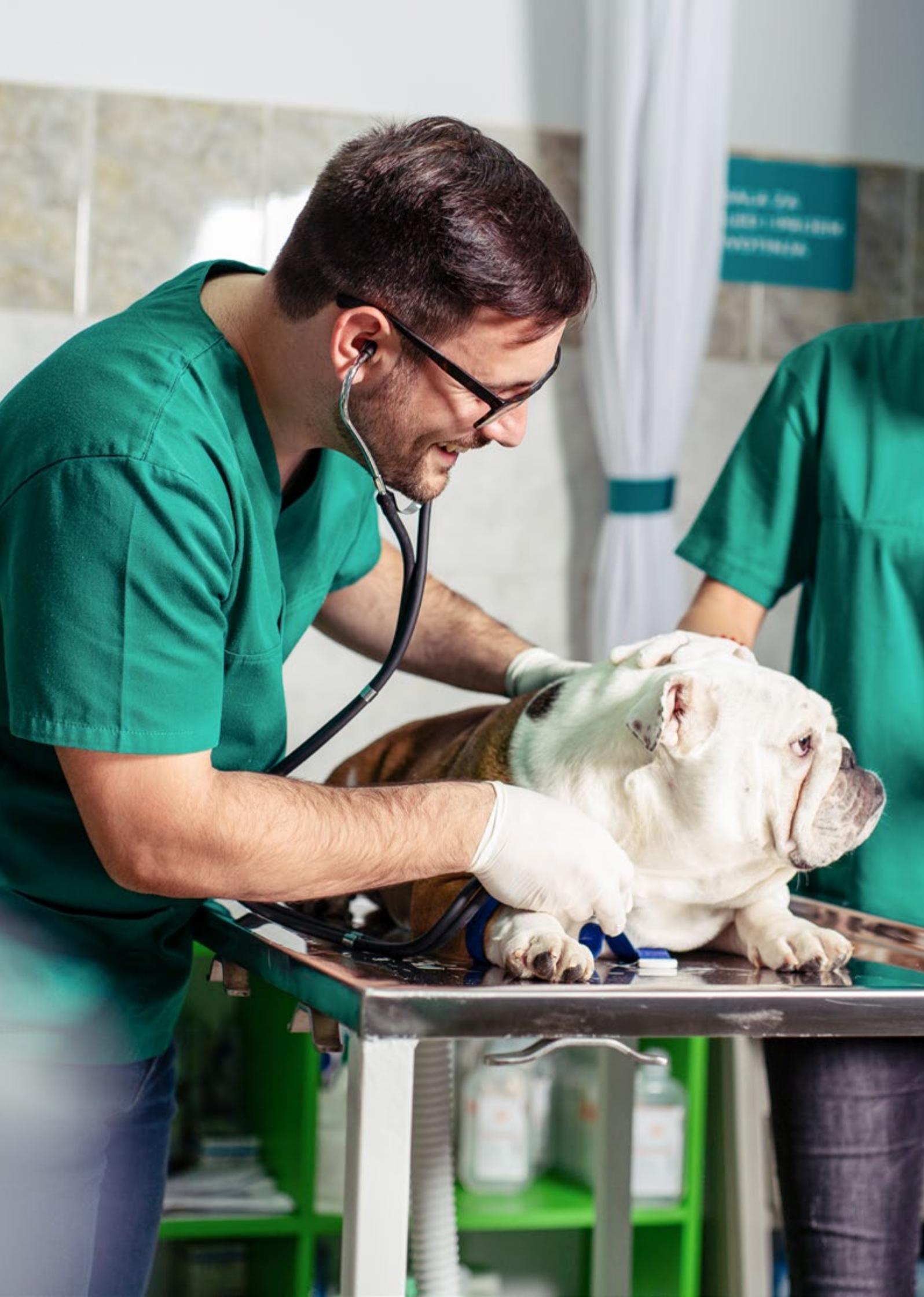
SOPRO® IMAGING VETERINARY

505020



Courtesy: Dr. Boutoille (France)





NON-SURGICAL TREATMENTS

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FACTS & FIGURES

SCALING AND TREATMENT OF PERIODONTAL POCKETS

Periodontal disease is characterised by the build-up of a bacterial film on the surface of the teeth (Bacterial Dental Plaque). This causes inflammation of the gums (gingivitis) and destruction of the tissues surrounding the tooth: alveolar bone, periodontal ligament and cementum (periodontitis).

Bacterial dental plaque forms a bacterial biofilm that stubbornly adheres to the surface of the teeth and is resistant to chemical agents. Mechanical biofilm disruption is essential. Scale forms when the bacterial dental plaque calcifies but is not the etiologic agent of the periodontal disease (*Fig. 1 & 2*).



Fig. 1: Serious periodontitis in a dog



Fig. 2: Periodontitis in the terminal phase requiring extractions

Scale is caused by bacterial dental plaque and is closely linked to it. It needs to be removed to get rid of the bacterial dental plaque. Scale is eliminated by fragmentation using an ultrasound instrument.

Not only is it important to remove the visible supragingival scale/bacterial dental plaque, but it is also - and especially - important to remove the subgingival scale/bacterial dental plaque built up along the surface of the root, deep down in the periodontal pocket.

- Around 75% of dogs and cats suffer from periodontal disease (Bell A.F., 1965; Verhaert 2000)
- 60% of dogs present with periodontitis (Kyllar et al. 2005)
- 80% of small dogs aged over 5 present with moderate to severe periodontitis, characterized by bone destruction (Hamp, 1975)

ENDODONTICS

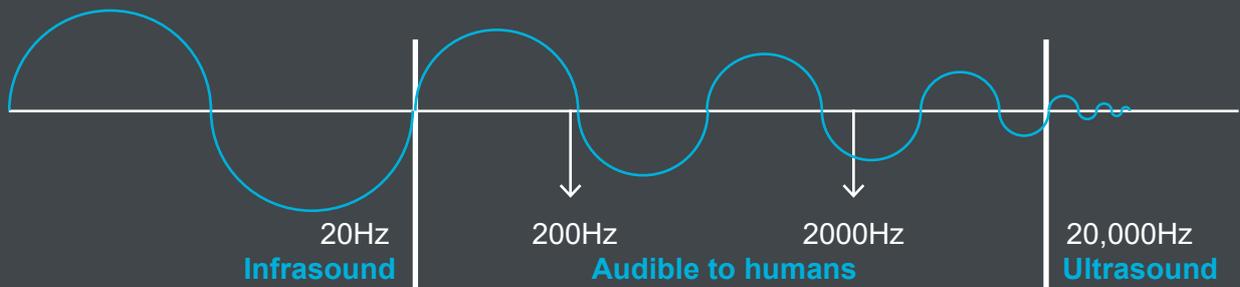
- Approximately 25% of dogs and cats present with at least one broken tooth (Golden, 1982; Crossley, 1991).
- One broken tooth of which the dental pulp was exposed, is infected. Endodontics is therefore necessary to avoid having to extract the tooth.
- It was shown that, in dogs, a well-executed conventional root canal treatment has an overall success rate of 95% (Kuntsi-Vaattovaara et al., JAVMA, 2002).
- It was shown that, in dogs, a partial vital pulpectomy, along with a well-executed conventional root canal treatment with MTA has an overall success rate of 92% (Luotonen et al., JAVMA, 2002).

Except for subgingival scaling/debridement and tooth extractions, other branches of dentistry often require more specialist equipment offering, among other functions, the option to rinse and dry the surfaces of the teeth. For these procedures, a compressed air source is essential (restorative dentistry, prosthesis, orthodontics).

ABOUT ULTRASOUNDS

ABOUT ULTRASOUNDS

The sound is a mechanical vibration that passes through different elements: water, air, metal, etc. These soundwaves are classified into 3 categories and are defined based on the two key notions of their frequency and their amplitude.



AMPLITUDE (in μm): size of displacement, changes as a function of power adjustments



This corresponds to the distance covered by the tip achieved by vibrational movement.

FREQUENCY (in Hz): vibration speed, change under a load



This corresponds to the number of out-and-back movements of the tip per second.

When the frequency exceeds **20kHz**, we talk about **ultrasounds**.

These soundwaves can be generated in several different ways:

- **Pneumatic/sonic systems**: compressed air that excites a metal surface
- **Magnetostrictive systems**: application of a magnetic field on a metal surface
- **Piezoelectric systems**: electric current applied to ceramics

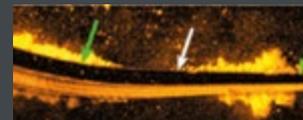
CAVITATION

Biological effects

When ultrasound waves spread through a liquid, a phenomenon known as “cavitation” intensifies the energy emitted by the tip.

Small cavities form and implode under the effect of vibrations, creating a powerful mechanical action, which breaks up and eliminates deposits and dental plaque. At the same time, the implosion of the cavities releases oxygen, which is known for its cleansing and disinfecting properties.

Cavitation is an essential phenomenon: it must occur at the end of the tip, where the tip is active, to cool it and optimize the effect of the ultrasounds.



Cavitation



Tip 1 at maximum power

SPOTLIGHT ON PIEZOELECTRICITY

How it works

The ultrasonic piezoelectric system works by way of an alternating electric current applied to ceramic discs in a transducer. Their distortion creates linear vibrations at the tip, through the centre of the ultrasonic handpiece. By way of comparison, sonic or magnetostrictive devices create heterogeneous or elliptical vibrations.



Thus, by applying the tip parallel to the tooth, the practitioner benefits from a sweeping movement that very efficiently removes built-up scale.

A tapping effect (axial vibrations) can also be obtained to tackle hard-to-remove deposits. This process can be used as required, in specific cases, and never directly on the enamel.

In order to reduce noise, it is generally better to use the device tangentially. The noise made when the tip makes contact with the teeth is inversely proportional to the efficacy and safety of the treatment.

Acteon® via Satelec® was the first company to use piezoelectricity in the field of dentistry, in 1972.

Piezoelectricity VS pneumatic/magnetic

| | PNEUMATIC/ SONIC | MAGNETIC | PIEZOELECTRICITY |
|--|-----------------------------|-----------------|-------------------------|
| Frequency | 2 to 6KHz | 20 to 50KHz | 28 to 36KHz |
| Ultrasound | No | Yes | Yes |
| Handpiece temperature | Very hot | Hot | Warm |
| Volume of water to adjust the handpiece temperature | High | Normal | Low |
| Effect of cavitation | No cavitation | Yes | Yes |
| Tip vibration | Intermittent | Elliptical | Linear |

The advantages of piezoelectricity

| TECHNICAL ADVANTAGES | CLINICAL ADVANTAGES |
|--|--|
|  <ul style="list-style-type: none"> • Linear movement of the tip | <ul style="list-style-type: none"> • Easy control of the movement over the tooth surface • Improved tactile sensing for a more accurate treatment • Gentle on the teeth when used tangentially • Subgingival scaling/debridement possible with different shaped tips • Effective and rapid removal of chunks of scale • Wide range of tips of different shapes |
| <ul style="list-style-type: none"> • Amplitude of 20 to 300 microns | <ul style="list-style-type: none"> • Wide range of possible applications: thin build-ups of subgingival scale to thick chunks of supragingival scale |
| <ul style="list-style-type: none"> • Minimal thermal stress • Less water required | <ul style="list-style-type: none"> • No thermal stress • Option to adapt the irrigation spray to improve visibility of the operating field |
| <ul style="list-style-type: none"> • Energy loss < 10% | <ul style="list-style-type: none"> • Maximum efficacy |
| <ul style="list-style-type: none"> • Ergonomic handpiece | <ul style="list-style-type: none"> • Detachable and autoclavable handpiece |
| <ul style="list-style-type: none"> • Less hand muscle fatigue | <ul style="list-style-type: none"> • Improved hygiene |

NEWTRON® TECHNOLOGY



How it works

Depending on the shape, alloy, weight and other features of each tip, the frequency and the amplitude vary when a pressure is applied.

Thus, with the NEWTRON® patented technology, the management of this change in frequency, as well as the perfect control of the constant amplitude, occur automatically as a function of all the settings: tip type (shape, weight, etc.) and the charge applied.

The harmonious operation of the electric module with the handpiece and the tips therefore ensures excellent efficiency and better clinical benefits:

| PRESERVATION | |
|-----------------------|---|
| Controlled vibrations | Precise treatment that is gentle on tissues |
| Quality tip | Preservation of the anatomy of the enamel |
| Controlled irrigation | No heating: safer for tissues |

| EFFICIENCY | |
|---------------------|--|
| Adjusted frequency | Optimal and continuous efficiency, regardless of the charge applied |
| Controlled power | Consistent performance, no pressure required |
| Powerful cavitation | Fragmentation and elimination of deposits, cleansing and disinfecting effect |

| COMFORT | |
|----------------------------|---|
| Linear and even vibrations | Preserved tactile sensing |
| | Less labour-intensive for practitioners |
| | Treatment less traumatic for the animal |



newtron

A daily use, for all clinical applications



The NEWTRON® series combines all of the ACTEON® clinical and technical expertise to assist veterinarians daily in providing the best treatments possible. Perfect ultrasonic vibrations, associated with high quality tips, preserve the teeth and guarantee safe treatments.

PRECISION

Precision treatments using the patented NEWTRON® technology.

PRESERVATION

Preservation of tissues due to automatic and continuous frequency adjustment.

COMFORT

Comfort for the patient and practitioner due to the regulation of power in real time.



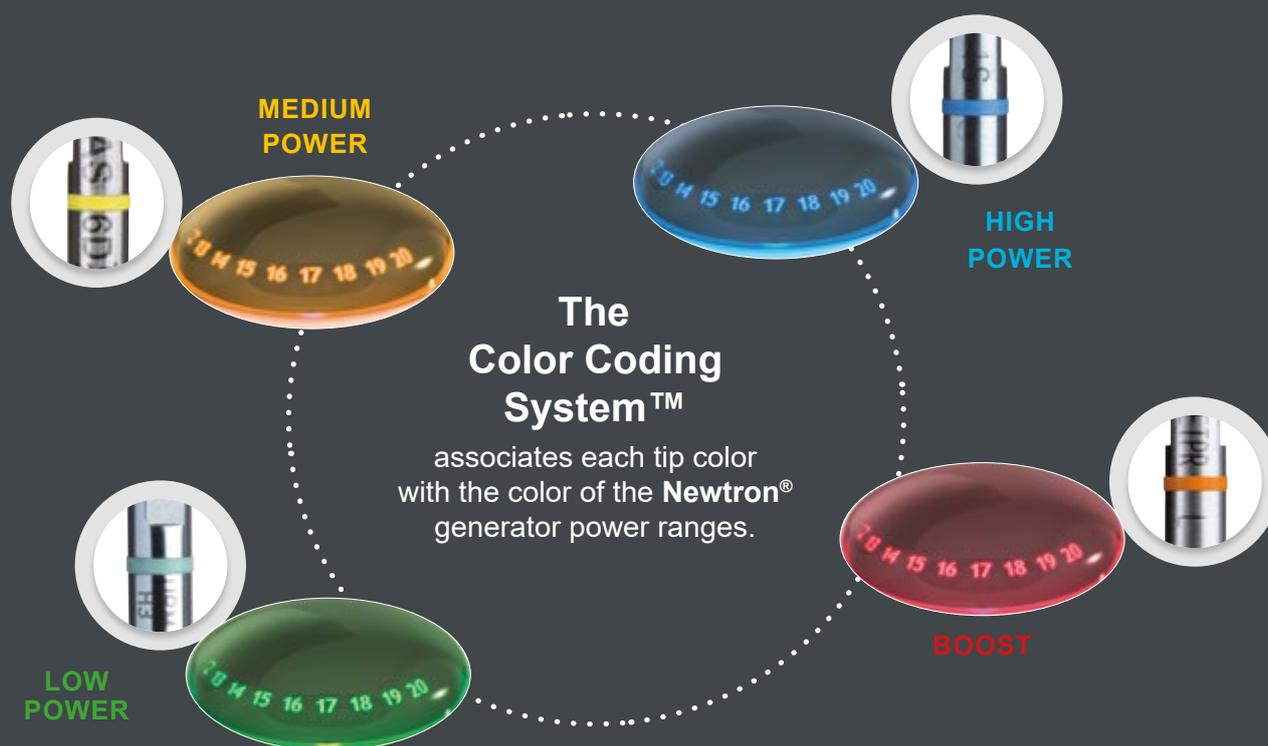
A DESIGN TAILORED TO YOUR NEEDS

NEWTRON® generators are both elegant and user-friendly, designed to meet the needs of the dentistry profession.

- **An elegant device:** flat glass surface, sleek style and lights around the dial
- **Optimal ergonomics:** front panel inclined to ensure better interaction with the practitioner and better access to the controls and the handpiece
- **Compliance with hygiene requirements**
 - Detachable dial for easy cleaning
 - Completely sealed
 - Thin, balanced Newtron® handpiece
 - Ergonomic shape with the handle in any position, with flexible cord
 - Titanium core for ultra-corrosion resistance
- **Exclusive handpiece holders** to prevent dropping of the handpiece are installed on the front or on the side of the device. The silicone holders are detachable and autoclavable.



A COLOR CODE FOR INTUITIVE OPERATION



**NEWTRON® P5 XS B-LED VET**

Delivered with a non-disconnectable footswitch, a power supply, a NEWTRON® SLIM B.LED handpiece cord, a NEWTRON® SLIM B.LED handpiece with a white ring, a F.L.AG™ for B.LED dental plaque discloser (5x 1.5ml), a universal wrench, No. 1, 1S, PV1 tips and a 500ml tank.

F62109

Dimensions (LxDxH): 260x145x155mm
Weight: 1.7kg

**NEWTRON® P5 XS VET**

Delivered with a non-disconnectable footswitch, a power supply, a NEWTRON® handpiece cord, a NEWTRON® handpiece, a universal wrench, No. 1, 1S, 10Z tips and a 300ml tank.

F62111

Dimensions (LxDxH): 260x145x155mm
Weight: 1.7kg

**NEWTRON® P5 B-LED VET**

Delivered with a non-disconnectable footswitch, a power supply, a NEWTRON® SLIM B.LED handpiece cord, a NEWTRON® SLIM B.LED handpiece with a white ring, a F.L.AG™ for B.LED dental plaque discloser (5x 1.5ml), a universal wrench, and No. 1, 1S, PV1 tips.

F61109

Dimensions (LxDxH): 156x186x102mm
Weight: 1.65kg

**NEWTRON® BOOSTER VET**

Delivered with a non-disconnectable footswitch, a power supply, a NEWTRON® handpiece cord, a NEWTRON® handpiece, a universal wrench, and No. 1 tips.

F60203

Dimensions (LxDxH): 130x161x88mm
Weight: 1.11kg

NEWTRON® ACCESSORIES



NEWTRON® SLIM B.LED HANDPIECE
With white LED ring for NEWTRON® P5XS VET and
NEWTRON® BOOSTER VET

F12905



NEWTRON® HANDPIECE
Autoclavable, light gray/dark gray for NEWTRON® P5XS
VET and NEWTRON® BOOSTER VET

F12281



NEWTRON® SLIM B.LED WHITE LED RING

F12915



NEWTRON® SLIM B.LED HANDPIECE CORD
Non-disconnectable

X00226



NEWTRON® HANDPIECE CORD
Non-disconnectable

X00244



FOOTSWITCH

F00061



HANDPIECE HOLDER
Silicone

E60108



300ml tank

F62004



500ml tank

F62005



SUMMARY



newtron
booster

| | |
|---------------------------------|--------------------------|
| Clinical application | Prophylaxis, endodontics |
| Technology | Newtron |
| LED | - |
| Handpiece | Newtron |
| Frequency | 28-36kHz |
| Irrigation | Water pump or mains |
| Dimensions in mm (LxDxH) | 130x161x88 |
| Weight in kg | 1.1 |



| | | |
|-----------------------------------|---------------------------------|-------------------------------------|
| <p>newtron P5b-led</p> | <p>newtron P5XS</p> | <p>newtron P5XSb-led</p> |
| <p>Prophylaxis, endodontics</p> | <p>Prophylaxis, endodontics</p> | <p>Prophylaxis, endodontics</p> |
| <p>Newtron</p> | <p>Newtron</p> | <p>Newtron</p> |
| <p>✓</p> | <p>-</p> | <p>✓</p> |
| <p>Newtron Slim B.LED</p> | <p>Newtron</p> | <p>Newtron Slim B.LED</p> |
| <p>28-36kHz</p> | <p>28-36kHz</p> | <p>28-36kHz</p> |
| <p>Water pump or mains</p> | <p>Built-in tank</p> | <p>Built-in tank</p> |
| <p>156x186x102</p> | <p>260x145x155</p> | <p>260x145x155</p> |
| <p>1.65</p> | <p>1.7</p> | <p>1.7</p> |

Acteon® tips

An extensive and multipurpose series of tips interacting harmoniously with the handpiece and the device to ensure optimal performance

THE MOST EXTENSIVE SERIES OF TIPS ON THE MARKET

Managing ultrasounds does not only involve the design of generators and control software, but also the design of compatible accessories in order to optimize their vibratory power and guarantee their reliability.

With nearly 80 different exclusively designed alloy and coated tips, ACTEON® offers the most extensive range of instruments covering all clinical fields.

For each clinical indication, NEWTRON® tips are made of exclusive alloys that can be used to safely treat enamel, prostheses and implants.

The power used is precisely defined using the Color Coding System™, which intuitively associates each tip with one of the 4 power ranges.



GREEN RING

Low power and amplitude



YELLOW RING

Medium power and amplitude



BLUE RING

High power and amplitude



ORANGE RING

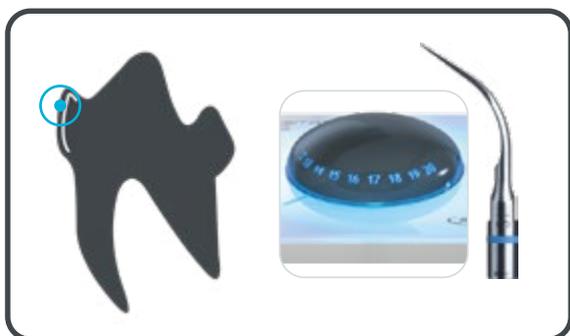
Very high power and maximum amplitude



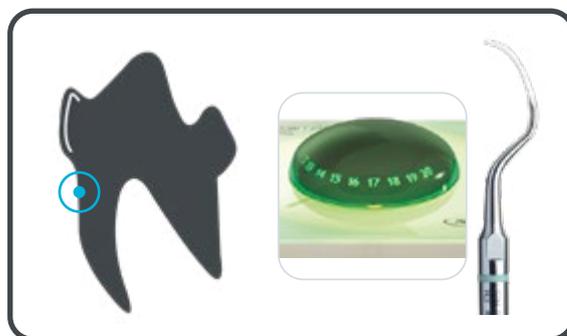
A COLOR CODE ADAPTED TO EACH CLINIC

- The color code determines the power that offers the best safety/performance ratio (no breaking of instrumentation/amplitude and resistance at the ideal charge).
- Immediate identification of the recommended power range on the ultrasonic generator screen and on the instrument, throughout the period of use.
- Due to the use of personal keys and storage boxes, prevention of cross-contamination risk for the user and auxiliary staff.
- Marking is resistant to decontamination and sterilization.

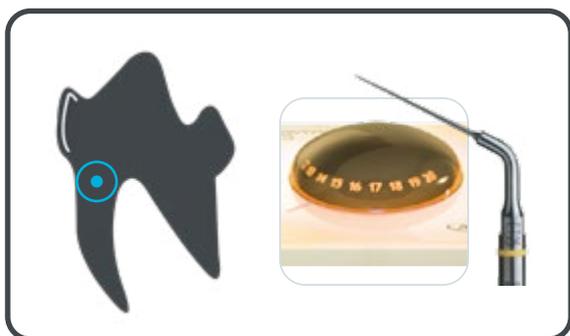
PROPHYLAXIS



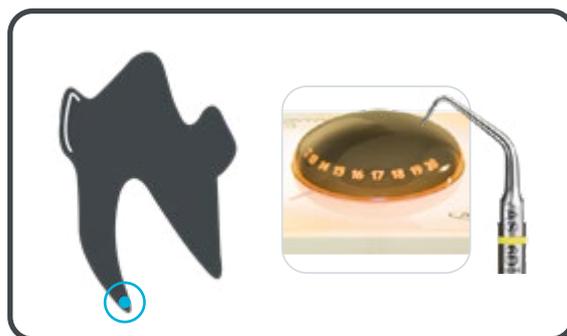
PERIODONTICS



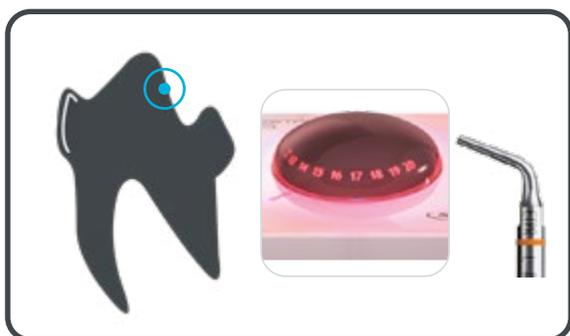
ENDODONTICS



SURGICAL ENDODONTICS



RESTORATIVE AND PRESERVATION DENTISTRY



endovet  Endovet kit
F88190

endodontics 

Retreatment



PLU60
F88191



PLU90
F88192



PLU110
F88193



SPR30
F88194



SPR60
F88195



SPR80
F88196

Endodontics - Irrigation



K10-21 (x4)
F43710
Ø0.1/ Length 21mm



K10-25 (x4)
F43712
Ø0.1/ Length 25mm



K15-21 (x4)
F43715
Ø0.15/ Length 21mm



K15-25 (x4)
F43717
Ø0.15/ Length 25mm



K25-21 (x4)
F43725
Ø0.25/ Length 21mm



K25-25 (x4)
F43727
Ø0.25/ Length 25mm



K30-21 (x4)
F43730
Ø0.3/ Length 21mm



K30-25 (x4)
F43732
Ø0.3/ Length 25mm

irrisafe 

Ultrasonic passive irrigation



IRR 20-21 (x4)
F43807
Ø0.2/ Length 21mm



IRR 20-25 (x4)
F43808
Ø0.2/ Length 25mm



IRR 25-21 (x4)
F43805
Ø0.25/ Length 21mm



IRR 25-21 (x4)
F43806
Ø0.25/ Length 25mm



IRR 25-45 (x1)
F43809
Ø0.25/ Length 45mm

endodontics 

Retreatment



ET40
F88012
Length 40mm



ET40D
F88014
Length 40mm,
diamond-coated



ET20D
F88013
Length 20mm, diamond-coated

endosuccess
retreatment 

endosuccess
apical surgery 

Retreatment

Apical surgery



ET18D

F880017

Cavity access finishing

ETBD

F88020

Exploration



AS3D

F00065

Ø0.1/ Length 21mm

AS6D

F00079

Ø0.1/ Length 25mm



ET25

F88018

Ti-Nb tip

ET25L

F88022

Long Ti-Nb tip



AD9D

F00067

Ø0.15/ Length 25mm

ASLD

F00080

Ø0.25/ Length 21mm



ET20

F88011

Universal



ASRD

F00081

Ø0.3/ Length 21mm

periodontics 

perio
precision 

Curette & debridement

Precision periodontics



PV1

F00259

Subgingival debridement

H4L

F00114

*Premolars & molars
Left curvature*



H4R

F00115

Premolars & molars - Right curvature



P2L

F00090

Debridement narrow pockets - Left curvature



P2R

F00091

Debridement narrow pockets - Right curvature



Scaling



No. 1
F00246
Universal



No. 2
F00247
High power



10X
F00356
Interproximal



10Z
F00254
Subgingival



No. 1S
F00245
Supragingival and subgingival

ENDOVET KIT

The EndoVet kit can be used to facilitate the root canal filling protocol. It can be used to perform an ultrasonic passive irrigation using the 25-45 Irrisafe file, a lateral thermocompaction with SPR 30, 60 and 80 condenser type pluggers, and an ultrasonic vertical thermocompaction with PLU 60, 90 and 110 compactor type pluggers.



Filling performed with an SPR 80



ENDOVET KIT

Comes with PLU60, PLU90, PLU110, SPR30, SPR60, SPR80, Irr 25/45 and a universal wrench

F88190

TIP SETTINGS

| | Series newtron |
|---|--------------------------|
| 1 / 2 / 1S | 14 |
| 10X / 10Z | 12 |
| PV1 / H4L / H4R | 2 |
| P2L / P2R | 3 |
| PLU60 / PLU90 / PLU110 | 3 |
| SPR30 / SPR60 / SPR80 | 3 |
| IRR20-21 / IRR20-25 / IRR25-21 / IRR25-25 / IRR25-45 | 9 |
| ET20 / ET25 / ET25L / ETBD / ET20D / ET40 / ET40D | 7 |
| K10 / K15 / K25 / K30 | 6 |
| AS3D / AS6D / ASLD / ASRD | 7 |
| AS9D | 6 |

SUPRAGINGIVAL SCALING

Tip No. 1 must be used tangentially to the tooth surface at an angle of no greater than 15°. As scale is essentially broken down by the vibration of the tip, the latter must not press heavily on the tooth but must just lightly sweep across the tooth surface. The end of the tip must not be used perpendicularly to the surface (*Fig. 3*).



Fig. 3: Supragingival scaling with tip No. 1

SUBGINGIVAL SCALING (shallow pockets)

The No. 1S tip is thinner and longer than No. 1 tip and can therefore be used for more delicate procedures and a combination of supragingival and subgingival work. It is mostly used for supragingival scaling on small dogs and cats (*Fig. 4*).

For subgingival work, the tip must be passed lightly at an oblique angle over the root, starting from the bottom of the periodontal pocket (*Fig. 5*).



Fig. 4: Supragingival scaling with No. 1S tip



Fig. 5: Subgingival scaling with No. 1S tip

SUBGINGIVAL SCALING (deep pockets)

The PV1 (PerioVet1) tip is a subgingival tip exclusively designed for veterinary use. It resembles a universal manual curette.

The PV1 tip is inserted into the periodontal pocket parallel to the root surface (*Fig 6 & 7*).

A sweeping movement over the surface of the root, from bottom to top, is then performed, pressing very gently. Curettes are generally pushed down. The tip must work in contact with the root only, without exerting excessive lateral pressure on the tooth. The PV1 tip is ideally designed to perform effective debridement and to preserve the tissues.



Fig. 6 & 7: Subgingival debridement with the PV1 tip inserted into the periodontal pocket



FACTS & FIGURES

- Bacterial Dental Plaque forms less rapidly on the teeth of a dog if scaling is followed by a polishing (Pollmeier S, 1994).
- Polishing is the final step after scale and bacterial dental plaque has been removed from the dental crown and roots. It can be used to obtain a better surface condition that makes it more difficult for the microbial biofilm (bacterial dental plaque) to reform.
- Air polishing with glycine powder can be carried out as a subgingival procedure to obtain results that are clinically significant for plaque and gingival index values. From a histology point of view, it causes less gingival erosion than air polishing with sodium bicarbonate or ultrasonic instruments (Simon et al., Int J Dental Hyg, 2015).



air max

Quick and safe
prophylaxis
procedures
for exceptional
results



MULTIPURPOSE AND MULTI-STATION

The AIRMAX® can be easily installed using a quick-connect system at different workstations, such as a mobile unit, with risk of leak.

- Active, complete and even polishing
- Robust and reliable
- Comfortable, quick and fatigue-free work

SIMPLICITY, EFFICACY, COMFORT AND EFFICIENCY

- Built-in water heater, water and powder sprayed at ambient temperature
- Automatic purge, at pressure, the system is purged to reduce clogging risks
- Transparent powder container for better visualisation of power level



AIR MAX®

Comes with a ProphyPen handpiece and its 135° titanium nozzle, a universal wrench, a 250g bottle of mint-flavoured powder, a 250g bottle of lemon-flavoured powder

F11400

AIRMAX® ACCESSORIES**WHITE PROPHYPEN HANDPIECE**

Disconnectable polisher handpiece (bayonet)
Comes with a 135° titanium nozzle and a universal wrench

F10557**135° Ø0.7mm TITANIUM NOZZLE****F10555****Ø0.7mm PROBE**

To clean the nozzle

E96221**Ø 1mm PROBE**

To clean the body of the PropyPen handpiece

F10208**2 PROPHYPEN O-RING AND 1 NOZZLE O-RING KIT****F10374****4 O-RINGS KIT FOR PROPHYPEN HANDPIECE CORD****F10375****4 x 250g BOTTLES
OF AIR-N-GO® “CLASSIC” POWDER****F10254****3 x 160g BOTTLES
OF AIR-N-GO® “PERIO” POWDER****F10270**

air-n-go classic

**Gentle and
efficient**

ACTIVE AND GENTLE POLISHING

The Air-N-Go® “classic” powder was exclusively researched and designed for efficient treatment that is gentle on treated surfaces. It can be used with all ACTEON® air polishers.

- Meticulous cleaning for instant results
- Eliminates bacterial plaque and stains, even in hard-to-reach areas
- Gentle and efficient treatment with minimal bleeding

PREVENTIVE POLISHING

Anti-clogging properties, with controlled hydrophobia, bestowed on the Air-N-Go® “classic” sodium bicarbonate powder with dual action:

- In contact with water, the microparticles lightly contract for more effective polishing
- The powder then gently dissolves to prevent trauma to brittle tissues and prevent risks of the device clogging



AIR-N-GO CLASSIC
Box of 4 x 250g bottles

F10254

POLISHING WITH THE AIR POLISHER

Air polishers enable the pressurised spraying of a mist of very fine grain sodium bicarbonate or glycerine particles. This system enables highly effective polishing of tooth surfaces without damage to the gums. The main advantage over cup polishing is better accessibility and efficiency for all hard-to-reach areas (interdental spaces, dental grooves).

It also eliminates more dental plaque and stains from the surface of the teeth than cup polishing (*Fig. 8*).

In addition, as polishing is performed without direct contact between the instrument and the tooth surface, it also eliminates risk of thermal stress.



Fig. 8: Polishing with the AirMax®

miniled active

Fast curing,
lasting results



EFFECTIVE CURING AT YOUR FINGERTIPS

Highly intuitive, this light curing probe allies performance and simplicity. Covering a wide spectrum of wavelengths, the MiniLED™ Active can polymerize most composites quickly and safely.

The highly ergonomic handpiece, which is perfectly balanced and light, and the rechargeable long-life battery, enable stress-free curing all day long.

TURNKEY

- **Efficiency and simplicity in just one click:** single 10-second cycle, with micro flash at 5 seconds
- **Easy to use:** perfectly balanced, the handpiece is protected against falls
- **Unrestricted work:** easy to handle and light (103g) due to its built-in battery
- **Durable:** can perform 100 cycles lasting 10 seconds for a full day of work without charging
- **Universal power supply:** battery charge indicator



MINILED™ ACTIVE



MINILED™ ACTIVE

Comes with a handpiece, a universal power cord, a Ø7.5mm optical guide and an oval protection shield

F05100

MINILED™ ACTIVE ACCESSORIES



UNIVERSAL POWER SUPPLY

F05120



OVAL PROTECTION SHIELD

F05407



Ø7.5mm OPTICAL GUIDE

F05121

MINILED™ ACTIVE TECHNICAL CHARACTERISTICS

| | |
|-------------------|--|
| Power | 1492 mW/cm ² (Ø7.5mm optical guide) |
| Dimensions | Ø24.5 x 161mm |
| Weight | 103g |
| Wavelength | 420 - 480nm |



Urolithiasis probes

Ultrasound technology for urethral treatment

GENTLE AND EFFECTIVE

Urolithiasis probes are compatible with all devices in the Newtron® and Cocoon® series. The use of ultrasounds enables this treatment to be carried out quickly and effectively. The urolithiasis probes connect to the device in the same way as the tips.



CALCULI PROBES FOR CATS

F00257



CALCULI PROBES FOR DOGS
102mm

F00256



CALCULI PROBES FOR DOGS
156mm

F00258

PROBE SETTINGS

| | series newtron | cocoon hygienist | cocoon spray |
|-------------------------------------|--------------------------|-------------------------|---------------------|
| 1 / 2 / 1S | 6-10 | 8-10 | 3-5 endo mode |
| 10X / 10Z | 6-10 | 8-10 | 3-5 endo mode |
| EX1 / EX2 / EX 3 / EXL / EXR | 6-10 | 8-10 | 3-5 endo mode |

UROLITHIASIS

PREPARING THE ANIMAL**Dogs**

- Positioning of the animal:
 - Unsedated: standing
 - Sedated: lateral or dorsal decubitus position (in this case, venal access for the use of a minimum dose of anaesthetic)
- Shaving
- Disinfection (*Fig. 9*)
- Choice of probe depending on the size of the dog (*Fig. 10*)



Fig. 9: Disinfection



Fig. 10: Choice of probe

Cats

- Sedation or mild anaesthetic (intravenous before sedation to minimise dose).
- Dorsal decubitus position
- Shaving:
 - abdominal for a cystocentesis
 - perineal
- Disinfection
- Cystocentesis
- Penis immobilised with a clamp (*Fig. 11*)



Fig. 11: Penis immobilised with a clamp

UROLITHIASIS

USING THE PROBE

- Sterilise probes before use
- Set the ultrasound device to medium power
- Set the water flow to maximum, continuous spray
- Move the probe forwards and backwards to prevent heating (*Fig. 12*)
- In the case of a single calculus, bring it into regular contact with the probe to break it up.

The proximal urethra is cleared by gradually pushing the probe into the urethra (*Fig. 13*).



Fig. 12: Forwards and backwards movements of the probe



Fig. 13: Clearing of the proximal urethra by gradually pushing the probe into the urethra





SURGICAL TREATMENTS

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| HAEMOSTASIS | 122 |
| FACTS & FIGURES | 122 |
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FACTS & FIGURES

- Of the 184 mandibular teeth (P4 and M1) evaluated by x-ray in 50 dogs weighing under 8kg, more than 50% of the teeth had to be extracted (Hennet P., 2001).
- Of the 128 dogs and cats brought in for a scaling procedure, 297 teeth underwent a simple extraction, 202 teeth underwent an extraction with root separation, and 48 teeth with surgical extraction (Girard N., 2005).

Scaling is a generic term that we should exclude from our language when it is a case of designing any oral-dental surgery in animals (Hennet P., Girard N., 2005). In animals, other than non-surgical periodontal treatment (supragingival scaling, debridement and subgingival polishing), treatment for periodontitis often involves teeth extractions.

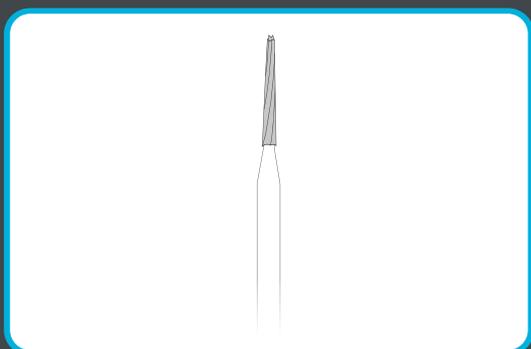
Every veterinarian performing dental treatments on dogs and cats must therefore use rotary equipment that enables them to correctly perform all treatments which animals brought in for scaling require.

Tooth extraction can only be performed quickly and effectively using rotary instruments.



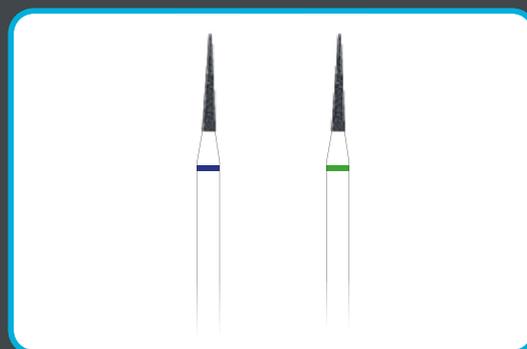
MAIN BURS FOR PERIODONTAL SURGERY

In collaboration with Dr. Romain Mâle



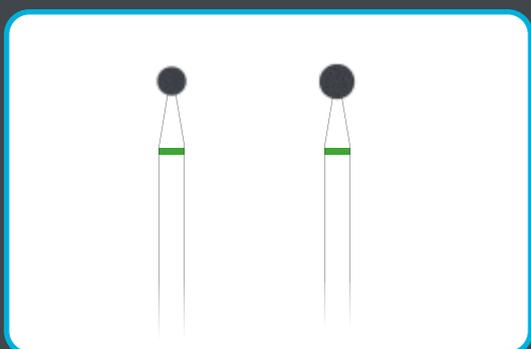
FG linear conical tungsten bur
ISO 16
11mm working length

- Cutting teeth
- Performing alveolotomies



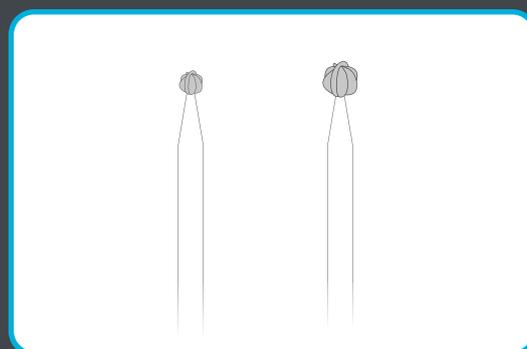
FG diamond tapered bur
Grain:
- Medium (blue ring)
- Coarse (green ring)

- Coronal cut in case of simple fracture
- Interdental passage for overlapping teeth (Mandibular PM4/M1)



FG diamond ball bur
ISO 12 or 14
Grain: Coarse (green ring)

- Grinding bone ridges following extractions
- Alveolotomy if low bone thickness



FG tungsten carbide ball bur
ISO 12 or 14

- Alveolotomy for thick bone
- Root fragment removal in the sockets



Watch our usage tutorials on YouTube:

cocoon hygienist



**Your complete dental unit:
Ultrasonic Generator / Motor and air/water syringe**

Restorative and operative dentistry require the use of rotary instruments to prepare cavities without damage to the teeth.

It is essential to maintain good oral hygiene as maintaining the function and health of the teeth is important in ensuring the general overall health of our pets.

A COMPLETE DENTAL UNIT

This 2-in-1 product is perfect for dental surgery.

Its ultrasonic generator ensures treatment that is more precise for the practitioner and less traumatic for the patient. The motor of the unit may be used for an extended period of time when performing multiple dental extractions requiring tooth time sectioning or when performing root canal treatment following a crown restoration.

Applications such as exodontics (tooth extraction) or endodontics (root canal treatment) are therefore possible because of the:

- cooling of the micromotor (air + water: built-in spray).
- cooling of the bur (use of a contra-angle with built-in spray).

Cocoon® Hygienist LED can be used for bonding in restorative dentistry, in orthodontics or for fabricating a dental splint in traumatology.

NEWTRON® LED HANDPIECE

The NEWTRON® LED handpiece, available with Cocoon® Hygienist LED, sheds a 360°, 65,000 lux cool examination light on the operating field. The detachable light guide and nose enable the handpiece to be easily cleaned and decontaminated. The ergonomic handpiece also ensures user-comfort.



AIR/WATER SYRINGE

The built-in air/water syringe enables easy and rapid cleaning of your clinical site.

BUILT-IN SPRAY MICROMOTOR

The auto-adjustable speed is compatible with FG burs (40,000 rpm)

- High torque to ensure preparation precision
- Cooling by built-in spray for improved comfort and to prevent tissue necrosis, as well as to remove debris.



| | Bur | Speed setting | Recommended rotation speed |
|---|------------------------|------------------------------|---|
| LED contra-angle red ring 1:5 built-in spray | FG Ø1.6 | 8-10 (160,000 - 200,000 rpm) | Refer to the manufacturer's recommendations |
| LED contra-angle blue ring 1:1 built-in spray | CA Ø2.35 polishing cup | 40,000 rpm | |
| Handpiece 1:1 | HP Ø2.35 length 44mm | 40,000 rpm | |

- Dimensions (LxDxH): 280x260x100mm
- Weight: 3.8kg
- Frequency: 28-36kHz
- Motor: built-in spray and light, 60 to 40,000 rpm ±10%; clockwise and counterclockwise rotation
- Syringe: Water, Air, Spray (water + air)

CONTRA-ANGLE VS TURBINE

The Cocoon® Hygienist LED functions as a result of a contra-angle, which is directly attached to the micromotor.

A contra-angle provides more comfort and precision than a turbine.

| | Turbine | Multiplier contra-angle |
|------------------------------|---------------|-------------------------|
| Power supply system | Air | Electric or pneumatic |
| Sound level | Loud | Quiet |
| Power | Weaker | Greater |
| Speed reached | Faster | Slower |
| Speed adjustment | No | Yes |
| Weight | Lighter | Heavier |
| “Reverse direction” function | No | Yes |
| Aerosol | More aerosols | Less aerosols |
| Price | Cheaper | More expensive |

COCOON® HYGIENIST LED



Comes with a footswitch, an EC (2m) power supply, a Newtron® LED handpiece, No. 1, 1S, PV1 tips, a universal wrench, a light motor, 1 box of 250 yellow Riskontrol® syringe tips

F27021

Compatible with the 1:5 red ring contra-angle (built-in spray) and FG chuck burs

COCOON® HYGIENIST LED ACCESSORIES



NEWTRON® LED LIGHT HANDPIECE
Autoclavable

F12609



LIGHT MOTOR

F28600



MEDIUM GREY CORD
For light motor

F33711



BOX OF 250 YELLOW RISKONTROL® SYRINGE TIPS

201666



RISKONTROL® NV ADEC STAINLESS STEEL ADAPTER

200 195



FOOTSWITCH

F00045



F4 PUMP

F00050

F4 PUMP + CONNECTOR

F00051



COCOON PRESSURISED BOTTLE

F24416



WHITE COCOON CART
Air, water, electricity connections (2 plugs)
3 plates: 40x30cm
Dimensions (LxDxH): 45x40x80cm

F24417

CONNECTIONS

| | | |
|---|---------------------------------|--------|
|  | CPC MALE CONNECTOR | E32127 |
|  | CPC FEMALE CONNECTOR | E32129 |
|  | MALE STÄUBLI COUPLING - WATER | E49021 |
|  | FEMALE STÄUBLI COUPLING - WATER | E49010 |

TUBING

| | | |
|---|--------------------|--------|
|  | WATER PIPE (GREEN) | A65016 |
|  | AIR PIPE (BLUE) | A65017 |

FILTERS

| | | |
|---|------------------|--------|
|  | FILTERS & O-RING | F10389 |
|  | COMPLETE FILTER | F10386 |





cocoon spray

Compact and efficient equipment

TRIED-AND-TESTED PIEZOELECTRIC TECHNOLOGY

The Cocoon® Spray ultrasound module benefits from technology developed by ACTEON® guaranteeing:

- Rapidity: cavitation combines with the mechanical elimination of deposits
- Optimal instrument control: the module generates linear vibrations, which are perfectly managed
- Guaranteed power due to auto-adjustable frequency from 27 to 32 kHz and controlled power (“feedback” effect)

EXTERNAL SPRAY MICROMOTOR



- The auto-adjustable speed is compatible with tungsten carbide or diamond burs (40,000 rpm)
- High torque to ensure preparation precision
- Cooling by external spray to prevent tissue necrosis and remove debris.

| | BUR | SPEED SETTING | RECOMMENDED ROTATION SPEED |
|---|----------------------|-----------------------------|---|
| 1:3 red ring non-LED contra-angle, external spray | FG Ø1.6 | 8-10 (88,000 - 120,000 rpm) | Refer to the manufacturer's recommendations |
| Handpiece 1:1 | HP Ø2.35 length 44mm | 40,000 rpm | |

- Dimensions (LxDxH): 280x260x100mm
- Weight: 3.8kg
- Frequency: 27-32kHz
- Motor: external spray, 60 to 40,000 rpm ±10%; clockwise and counterclockwise rotation

The Cocoon® Spray is designed for short and minor surgical procedures.

COCOON® SPRAY VET



Comes with a footswitch, an EC power supply (2m), a Suprasson® handpiece, a No. 1 tip, a universal wrench, a self-ventilated motor

F24483

Comes with a footswitch, an EC power supply (2m), a Suprasson® handpiece, a No. 1 tip, a universal wrench, a self-ventilated motor, 1:3 external spray contra-angle

F24489

COCOON® SPRAY VET ACCESSORIES



1:3 RED RING CONTRA-ANGLE
External spray

F36120

IRRIGATION CONNECTOR

X36121



SUPRASSON® HANDPIECE
Autoclavable

F12200

P.E. STER CORD 2m

F00475



SELF-VENTILATED MOTOR

F28502



FOOTSWITCH

F00045



F4 PUMP

F00050

F4 PUMP + CONNECTOR

F00051



COCOON PRESSURISED BOTTLE

F24416



WHITE COCOON CART
Air, water, electricity connections (2 plugs)
3 plates: 40x30cm
Dimensions (LxDxH): 45x40x80cm

F24417

SUMMARY



| | cocoon hygienist | cocoon spray |
|--------------------------------------|--|--|
| Clinical applications | Scaling, resurfacing, polishing, extraction, endodontics | Scaling, resurfacing, polishing, simple extraction, endodontics |
| Technology | Newtron | Suprasson |
| LED | ✓ | - |
| Handpiece | Newtron | Suprasson |
| Frequency | 28-36kHz | 28-36kHz |
| Irrigation | Water pump or mains | Water pump or mains |
| Dimensions in mm (LxDxH) | 280x260x100 | 280x260x100 |
| Weight in kg | 3.8 | 3.8 |
| Micromotor | Yes (LED) | Yes (non-LED) |
| Micromotor speed | 0-40,000 rpm | 0-40,000 rpm |
| Micromotor cooling | Internal | External |
| Type of contra-angle | 1:5 red ring LED contra-angle, built-in spray 1:1 blue ring contra-angle, built-in spray 1:1 handpiece | 1:3 red ring non-LED contra-angle, external spray 1:1 handpiece |
| Air/Water Syringe | ✓ | - |
| Air compressor (not supplied) | ✓ 4 to 6 bars | - |



Acteon® tips

An extensive and multipurpose series of tips interacting harmoniously with the handpiece and the device to ensure optimal performance

THE MOST EXTENSIVE SERIES OF TIPS ON THE MARKET

Managing ultrasounds does not only involve the design of generators and control software, but also the design of compatible accessories in order to optimize their vibratory power and guarantee their reliability.

With nearly 80 different exclusively designed alloy and coated tips, ACTEON® offers the most extensive range of instruments covering all clinical fields.

For each clinical indication, NEWTRON® tips are made of exclusive alloys that can be used to safely treat enamel, prostheses and implants.

The power used is precisely defined using the Color Coding System™, which intuitively associates each tip with one of the 4 power ranges.



GREEN RING

Low power and amplitude



YELLOW RING

Medium power and amplitude



BLUE RING

High power and amplitude



ORANGE RING

Very high power and maximum amplitude



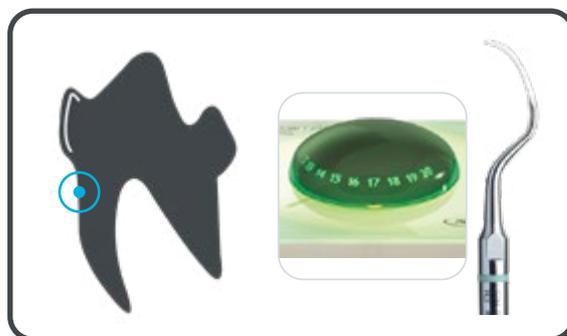
A COLOR CODE ADAPTED TO EACH CLINIC

- The color code determines the power that offers the best safety/performance ratio (no breaking of instrumentation/amplitude and resistance at the ideal charge).
- Immediate identification of the recommended power range on the ultrasonic generator screen and on the instrument, throughout the period of use.
- Due to the use of personal keys and storage boxes, prevention of cross-contamination risk for the user and auxiliary staff.
- Marking is resistant to decontamination and sterilization.

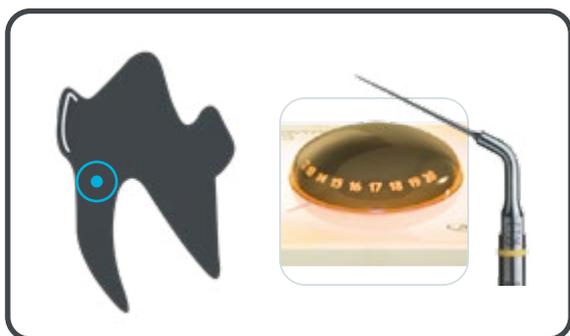
PROPHYLAXIS



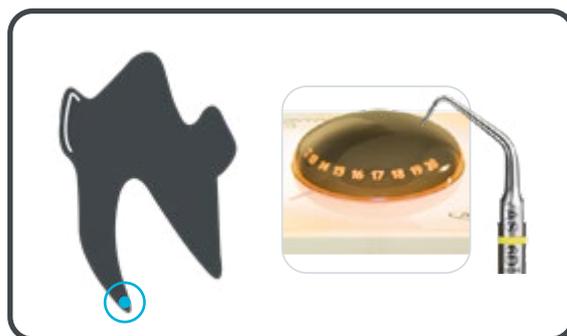
PERIODONTICS



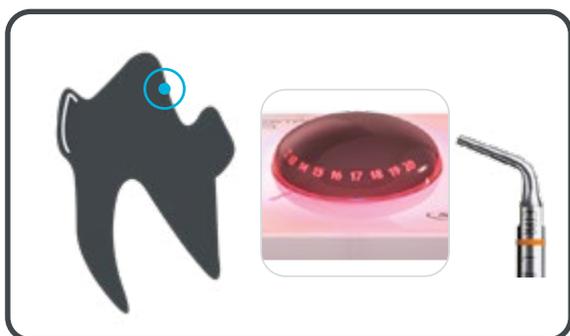
ENDODONTICS



SURGICAL ENDODONTICS



RESTORATIVE AND PRESERVATION DENTISTRY



endovet  Endovet kit
F88190

endodontics 

Retreatment



PLU60
F88191



PLU90
F88192



PLU110
F88193



SPR30
F88194



SPR60
F88195



SPR80
F88196

Endodontics - Irrigation



K10-21 (x4)
F43710
Ø0.1/ Length 21mm



K10-25 (x4)
F43712
Ø0.1/ Length 25mm



K15-21 (x4)
F43715
Ø0.15/ Length 21mm



K15-25 (x4)
F43717
Ø0.15/ Length 25mm



K25-21 (x4)
F43725
Ø0.25/ Length 21mm



K25-25 (x4)
F43727
Ø0.25/ Length 25mm



K30-21 (x4)
F43730
Ø0.3/ Length 21mm



K30-25 (x4)
F43732
Ø0.3/ Length 25mm

irrisafe 

endodontics 

Ultrasonic passive irrigation



IRR 20-21 (x4)
F43807
Ø0.2/ Length 21mm



IRR 20-25 (x4)
F43808
Ø0.2/ Length 25mm



IRR 25-21 (x4)
F43805
Ø0.25/ Length 21mm



IRR 25-21 (x4)
F43806
Ø0.25/ Length 25mm



IRR 25-45 (x1)
F43809
Ø0.25/ Length 45mm

Retreatment



ET40
F88012
Length 40mm



ET40D
F88014
Length 40mm,
diamond-coated



ET20D
F88013
Length 20mm, diamond-coated

endosuccess
retreatment 

Retreatment



ET18D
F880017
Cavity access finishing



ETBD
F88020
Exploration



ET25
F88018
Ti-Nb tip



ET25L
F88022
Long Ti-Nb tip



ET20
F88011
Universal

endosuccess
apical surgery 

Apical surgery



AS3D
F00065
Ø0.1/ Length 21mm



AS6D
F00079
Ø0.1/ Length 25mm



AD9D
F00067
Ø0.15/ Length 25mm



ASLD
F00080
Ø0.25/ Length 21mm



ASRD
F00081
Ø0.3/ Length 21mm

periodontics 

Curette & debridement



PV1
F00259
Subgingival debridement



H4L
F00114
Premolars & molars
Left curvature



H4R
F00115
Premolars & molars - Right curvature

perio
precision 

Precision periodontics



P2L
F00090
Debridement narrow pockets - Left curvature



P2R
F00091
Debridement narrow pockets - Right curvature



Scaling



No. 1
F00246
Universal



No. 2
F00247
High power



10X
F00356
Interproximal



10Z
F00254
Subgingival



No. 1S
F00245
Supragingival and subgingival

ENDOVET KIT

The EndoVet kit can be used to facilitate the root canal filling protocol. It can be used to perform an ultrasonic passive irrigation using the 25-45 Irrisafe file, a lateral thermocompaction with SPR 30, 60 and 80 condenser type pluggers, and an ultrasonic vertical thermocompaction with PLU 60, 90 and 110 compactor type pluggers.



Filling performed with an SPR 80



ENDOVET KIT

Comes with PLU60, PLU90, PLU110, SPR30, SPR60, SPR80, Irr 25/45 and a universal wrench

F88190

TIP SETTINGS

| | Series newtron |
|---|--------------------------|
| 1 / 2 / 1S | 14 |
| 10X / 10Z | 12 |
| PV1 / H4L / H4R | 2 |
| P2L / P2R | 3 |
| PLU60 / PLU90 / PLU110 | 3 |
| SPR30 / SPR60 / SPR80 | 3 |
| IRR20-21 / IRR20-25 / IRR25-21 / IRR25-25 / IRR25-45 | 9 |
| ET20 / ET25 / ET25L / ETBD / ET20D / ET40 / ET40D | 7 |
| K10 / K15 / K25 / K30 | 6 |
| AS3D / AS6D / ASLD / ASRD | 7 |
| AS9D | 6 |



APPLICATIONS AND RECOMMENDATIONS FOR USE

To section or perform trepanning of a tooth, water-cooled high-speed burs must be used.

The feedback function of the Cocoon® Spray and Cocoon® Hygienist Led device micromotors can be used to maintain the rotation speed even when the bur encounters a resistance (increased torque).

By comparison, a compressed air turbine rotating at 350,000 rpm has a low torque. When it is used under load (section of a tooth to separate the roots), the rotation speed drops to around 150,000 rpm.

Multiplier contra-angles cut more efficiently and generate less heat than turbines (Eikenberg SL, 2001). They have higher power and torque. However, even if the tendency is to reduce weight, even so, turbines are smaller and lighter than contra-angle systems equipped with electric motors.

Dental extractions can be performed using one of three techniques:

- Simple extraction: extraction of a single-root tooth using a manual instrument only.
- Extraction with root separation: involves root hemisection using a rotary instrument, followed by the extraction of each root as a simple extraction.
- Extraction with mucosal flap reflection and bone surgery (“surgical extraction”): this involves exposing the mucosa and the bone to gain better access to the root. A rotary instrument is used to perform the alveolar osteotomy and, in the case of a tooth with more than one root, the root separation.

However, it may be necessary to use a haemostatic dressing to stop bleeding at the extraction site.

Root separation: use of a contra-angle or a turbine, at high speed, with intermittent pressing of the fissure bur on the tooth to enable cooling and cleaning of the bur with the spray (*Fig. 1 & 2*).

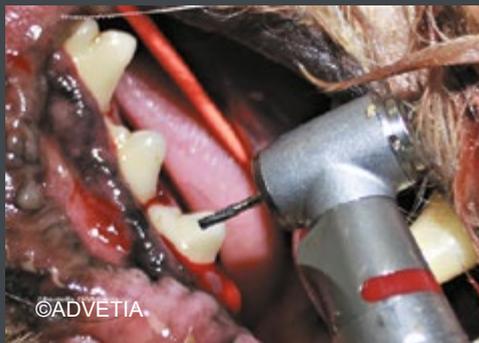


Fig. 1: Bur ready to section the tooth



Fig. 2: Sectioned tooth

TREATMENT OF TEETH WITH VITAL PULP

The exposed and contaminated pulp tissue is removed in a sterile environment using a diamond ball bur or a tungsten carbide bur that is slightly wider than the diameter of the root canal. A MTA biological dressing is placed over the pulp stump (Fig. 3) and the cavity is filled (Fig. 4 to 7).



Fig. 3: Crown amputation & partial vital pulpectomy - Step 1



Fig. 4: Partial vital pulpectomy using sterile instruments and irrigation - Step 2



Fig. 5: Haemostasis following a partial vital pulpectomy - Step 3



Fig. 6: Application of the MTA on the amputated pulp, followed by a glass ionomer base - Step 4



Fig. 7: Material for restoration - Step 5

TREATMENT OF TEETH WITH INFECTED PULP (dead)

THE DIFFERENT STAGES OF A ROOT CANAL TREATMENT

- Drilling of the pulp chamber or widening of the fracture orifice using a ball or FG conical-cylindrical pear bur (diamond or tungsten carbide) (*Fig. 8*).



Fig. 8: Canine with dead pulp

- Identification of the opening of the root canals in the pulp chamber using a pointed probe or a thin K-file (*Fig. 9*). If necessary, for teeth with more than one root, the entrance to the root canal can be exposed at the floor of the pulp chamber using an ultrasonic diamond ball tip (**ETBD**).



Fig. 9: Identification of the entrance to the pulp chamber of a canine tooth

- Widening of the coronal third of the root canal using Gates Glidden drill bits or a diamond ultrasonic extender used under constant irrigation (**ET18D**) (*Fig. 10*).



Fig. 10: Widening of the orifice of the pulp chamber of a canine tooth with ET18D

- Canal prepared manually with K and H-files (25 or 31mm, or 60mm for canines in large dogs) (Fig. 11), or with rotary instruments (25 or 31mm).



Fig. 11: Preparation of the canal with canal files of the three roots of the maxillary carnassial tooth

- X-ray examination of the working length (Fig. 12 & 13).



Fig. 12: K-file



Fig. 13: Working length files in a tooth with three roots

- Irrigation of the root canal with 2.5% sodium hypochlorite solution and Salvizol E.D.T.A.
- Optional: ultrasonic cleaning of the root canal with an Irrisafe file (EndoVet).
- Drying of the canal with paper cones (Fig. 14).
- Testing of a primary Gutta Percha cone
- Preparation of the sealing cement for Gutta Percha cones (Sealite Regular)
- Coat the canal walls with endodontic cement (Sealite Regular)
- X-ray examination



Fig. 14: Drying of the pulp canals of a maxillary carnassial tooth with paper cones

- Insertion of the primary Gutta Percha cone then additional Gutta Percha cones (*Fig. 15*)



Fig. 15: Canine tooth with dead pulp

- Addition of other cones after cold lateral condensation of the Gutta Percha with lateral condensation or ultrasonic condensation pluggers (ET25L, ET40 and EndoVet) (*Fig. 16*)



Fig. 16: Condensation of Gutta Percha cones with a ET25L and ET40 condenser, depending on the size of the tooth, with the exception of the canine teeth.

- X-ray examination of the complete and dense canal filling (*Fig. 17*)
- Cold vertical condensation of the Gutta Percha with vertical condensation pluggers, or ultrasonic compaction with ultrasonic pluggers (EndoVet)



Fig. 17: Final filling with the Gutta Percha

CROWN RECONSTRUCTION

Restorative dentistry aims to treat surface defects and loss of dental substance causing the partial or total destruction of the tooth's crown. This can be due to a development problem, carious lesions or resorption, to a dental trauma (fracture), or to an iatrogenic pathology associated with a root canal treatment (Fig. 18 & 19).



Fig. 18: Maxillary incisor enamel hypoplasia



Fig. 19: Appearance of the incisor after dental composite restoration

In veterinary dentistry, the dental restoration is essentially restricted to the filling of the access to the cavity in the case of a carious lesion or a fracture. However, if a certain portion of the tooth crown was damaged, the crown section can be reconstructed with a prosthesis (metal or ceramic crown).

Modern restorative dentistry mainly uses organic-mineral materials (composite resins), the same color as the tooth, which are bonded to the dentin and to the enamel using an adhesive. The adhesion of new adhesives enables preparation to preserve the cavity.

For a tooth with vital pulp tissue

- When the pulp is not exposed, the application of an adhesive provides sufficient insulation.
- When the pulp is almost exposed, the insertion of a calcium hydroxide cavity liner may be recommended: indirect pulp capping (Cav-Hycal).
- When the pulp is exposed, direct pulp capping can be carried out using a calcium hydroxide (HYCAL) or MTA dressing (Fig. 20, 21 & 22).



Fig. 20: Caries on the occlusal face of the maxillary first molar



Fig. 21: Trimming of the carious lesion near the dental pulp



Fig. 22: Insertion of a calcium hydroxide cavity liner (indirect pulp capping)

For a dead tooth after a root canal treatment

- Excess filler material (Gutta Percha and cement) must be removed from the pulp chamber. This can be done effectively and in a way that causes no damage using an ultrasonic diamond instrument EX1 (Fig. 23) or ETBD (Fig. 24).



Fig. 23: Cleaning of the pulp chamber with EX1



Fig. 24: Cleaning of a narrower pulp chamber, in a cat, with ETBD

- A glass-ionomer base is placed on the root canal filling material to create a perfect insulation before a composite restoration is bonded in place, and to help the composite adhere.
- The cavity is shaped and cleaned using an air polisher (AIR MAX®) (Fig. 25) and or EX1 ultrasonic instruments (Fig. 26). Due to the bonding capacities of composite resins, through the use of an adhesive, the cavity or lesion requires minimal preparation.



Fig. 25: Cleaning of a cavity with an air polisher (AirMax®)



Fig. 26: Trimming of a lesion with a diamond ball tip fitted on the EX1

- When the root canal treatment is carried out in two stages, the cavity is temporarily filled with a temporary filling cement such as Cimavit or Cimavit Photo until the second stage of the procedure.

Filling with a composite dental resin

- As the adhesive strength of dentin is lower than that of enamel, when the cavity is completely impacted in the dentin, a retention groove is made in the bottom of the cavity to improve retention. This preservative process can be easily carried out using an ultrasonic diamond ball tip (ETBD).
- If there is enamel around the edge of the cavity, the rim of the enamel is etched using an acid etching gel applied to the enamel surfaces for 15 seconds (Fig. 27).
- The PR ETCH™ etching gel is rinsed with water using the air/water syringe fitted with a Riskontrol® tip.
- For most etch-and-rinse type adhesives, it is important to moderately dry the surface of the prepared tooth (“wet bonding” technique) using an air/water syringe fitted with a Riskontrol® tip (refer to the manufacturer’s instructions).
- Apply the adhesion promoter to the dentin (PR Bond™). Some products, associating etching and priming without requiring rinsing between the two, enable a two-stage procedure (self-etching adhesive), or a single-stage procedure (etching, priming and bonding) to be carried out.
- Photopolymerization with a curing light (MiniLED™ Active).
- Surface filling with a photopolymerizable dental composite (Fig. 28).



Fig. 27: Acid etching of the enamel and the dentin (“total etch” technique using PR Etch™)



Fig. 28: Application of the composite resin on the tooth prepared with PR Bond™

- The composite is inserted into the cavity in 2-3mm-thick layers (Fig. 29), then polymerized after each layer using a curing light (MiniLED™ Active) (Fig. 30).



Fig. 29: The composite is inserted in layers until the restoration is complete



Fig. 30: Dental composite polymerization

- Finishing of the composite surface and the junction with the tooth using a finishing bur, finishing stones and polishing discs (Fig. 31).



Fig. 31: Polishing of the composite using an installed tip under irrigation

Crown reconstruction on a canine tooth



Fig. 32: Canine tooth before composite restoration



Fig. 33: Canine tooth after composite restoration



Fig. 34: Ceramic-metallic crown - Final composite restoration before preparation of the crown for cosmetic prosthesis



Fig. 35: Ceramic-metallic crown

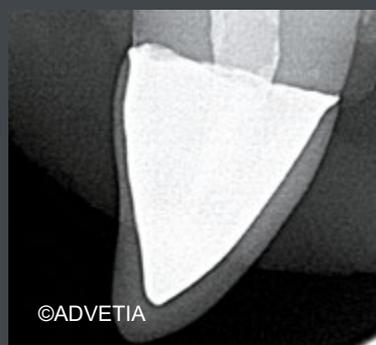


Fig. 36: Ceramic-metallic crown - X-ray of the cast cosmetic ceramic-metallic crown

APPLICATIONS AND RECOMMENDATIONS FOR USE

FILING OF A TOOTH IN RABBITS AND RODENTS

A 1:1 straight handpiece, equipped with an abrasive handpiece bur, can be used to file the teeth of rabbits and rodents suffering from malocclusion; speed: approximately 6000 rpm. The use of an irrigation spray in these conditions is difficult (small mouth, absence of endotracheal intubation). It is therefore preferable to use a high-breaking-capacity abrasive instrument to minimize thermal stress. For the most important dental areas, a filing bur is used, whereas a polisher can be used for finishing and for less important areas.





piezotome
cube

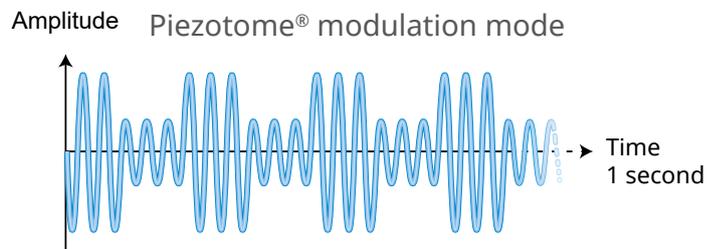
**Powerful,
responsive, intuitive
and minimally
invasive**

**Simplify extraction and
bone surgery**

ACTEON® Piezotome® ultrasonic generators are controlled by the patented NEWTRON® technology. The perfectly allied advanced electronics, handpiece and tips provide unique clinical benefits for a stress-free approach to every procedure.

PRESERVATION

- Alternating between high and low amplitude
- Preservation of soft tissues for improved tissue healing and improved cellular regeneration.



EFFICIENCY

- Automatic adjustment of the frequency from 28 to 36kHz depending on the tip shape and weight.
- Optimal performance for each procedure.

MULTIPURPOSE

The Piezotome Cube at your disposal for your different surgical procedures:

- dental
- orthopaedic
- laminectomy

- Dimensions (LxDxH): 251x271x160mm
- Weight: 3.5kg
- Frequency: 28-36kHz



Easy to use

Peristaltic pump

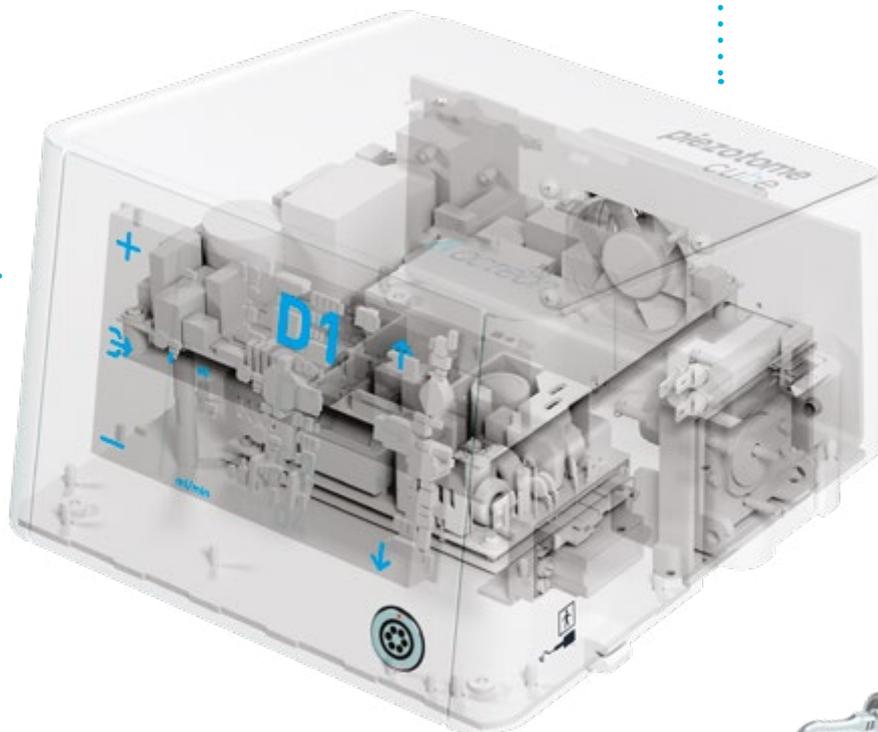
- Rapid and intuitive insertion of the irrigation line into the pump
- Compact and robust
- Fine adjustment (ml/min) and smooth flow reaching the end of the tip on the soft tissues

External irrigation line

- Extended handpiece service life
- Immediate visual inspection throughout the procedure
- Ensures a completely sterile procedure and facilitates maintenance
- Autoclavable or sterile for single-use

Easily sterilizable

- Easy maintenance
- Direct access to all parts
- Compliance with hygiene regulations



Naturally intuitive



Dynamic Power System Inside

Power intuitively adapted to ensure maximum efficiency and safety

Depending on resistance encountered, the smart assistance D.P.S.I. will:

- Increase the power by +30%, to improve cutting performance
- Reduce the power by -10%, to increase safety on soft tissues

Cube Led handpiece

- Improved design based on 6 ACTEON® ceramic rings, more power than ever before
- Lighter with a perfectly balanced design to enable natural movement without rotation, to reduce hand fatigue
- Fully white LED ring (100,000 Lux) to allow optimum distinction of tissues and visibility of posterior areas
- Compatible with a wide range of tips enabling a multitude of clinical uses



PIEZOTOME® CUBE



Comes with a CUBE LED handpiece, a handpiece holder, an essential kit (6 tips): BS1S, BS4, SL1, SL2, SL3 and LC2), a torque wrench, a bracket, 2 autoclavable irrigation lines, 5 clips and 15 perforators

F50100

PIEZOTOME® CUBE ACCESSORIES



PIEZOTOME® CUBE LED HANDPIECE

F12816



MULTIFUNCTION FOOTSWITCH

F50109



HANDPIECE HOLDER

F50133



IRRIGATION LINE CLIPS x 10

F50116



BRACKET

F50129



LED RING

F12828



AUTOCLAVABLE PIEZOTOME® TORQUE WRENCH

F50150



SINGLE-USE STERILE UNIVERSAL IRRIGATION LINE x 10
with flow control system

F59905



AUTOCLAVABLE IRRIGATION LINE x 1
+ 10 sterile perforators

F57374



AUTOCLAVABLE IRRIGATION LINE x 1

E59920



DISPOSABLE STERILE PERFORATORS x 10

F57372



TROLLEY
Air, water, electricity connections
3 glass plates: 60x50cm
Dimensions (LxDxH): 66x54x79cm

F27125



implant center 2

**Combined technologies
for safe and quick
bone surgery**



VERSATILE & SOPHISTICATED

The alliance of highly sophisticated rotary and ultrasonic technologies, guaranteeing complete independence in a growing number of varied clinical fields. ImplantCenter™ 2 is the perfect multipurpose device for:

- ultrasonic bone surgery (ultrasonic piezosurgery)
- implantology with use of a micromotor and a sterile irrigation surgical contra-angle
- conventional ultrasonic treatments (scaling, debridement, endodontics and restorative dentistry)

3 AVAILABLE MODES

I-Surge™
Implantology motor



Piezotome®
Pre-implant surgery



Newtron®
Conventional treatments



- Dimensions (LxDxH): 473x340x150mm
- Weight: 5kg
- Frequency: 28-36kHz
- Motor speed: 100 to 40,000 rpm

IMPLANTCENTER™ 2

Comes with a LED motor, a LED motor cord, a progressive footswitch, 2 brackets, 2 handpiece holders, 2 autoclavable irrigation lines and 30 perforators

F27200**IMPLANTCENTER™ 2 ACCESSORIES****PIEZOTOME® LED HANDPIECE + CORD****F12815****NEWTRON® CORD****F12850****LIGHT RING****F12821****NEWTRON® LED HANDPIECE****F12609****NEWTRON® LED CORD****F12830****BRACKET****F27113****PIEZOTOME® 2 PACK** (no tip)

Comes with a Piezotome® LED handpiece and its autoclavable cord and a Piezotome® torque wrench

F87523**STERILIZATION BOX****F27156****IRRIGATION LINE CLIP****E57353****IMPLANTCENTER™ 2 PROGRESSIVE FOOTSWITCH****F27170****HANDPIECE OR MOTOR HOLDER****F02463**

| | | |
|---|--|---------------|
|  | AUTOCLAVABLE PIEZOTOME® TORQUE WRENCH | F50150 |
|  | SINGLE-USE STERILE UNIVERSAL IRRIGATION LINE x 10 with flow control system | F59905 |
|  | AUTOCLAVABLE IRRIGATION LINE x 1 + 10 sterile perforators | F57374 |
|  | AUTOCLAVABLE IRRIGATION LINE x 1 | E59920 |
|  | DISPOSABLE STERILE PERFORATORS x 10 | F57372 |
|  | TROLLEY Air, water, electricity connections 3 glass plates: 60x50cm Dimensions (LxDxH): 66x54x79cm | F27125 |

ACCESSORIES FOR IMPLANTCENTER™ 2 WITH LED MOTOR

| | | |
|---|---|---------------|
|  | I-SURGE™ LED LIGHT MICROMOTOR | F27210 |
|  | DISCONNECTABLE MICROMOTOR CORD I-SURGE™ LED | F27211 |
|  | 20/1 BIEN-AIR* LED CONTRA-ANGLE green ring | F36132 |

ACCESSORIES FOR IMPLANTCENTER™ 2 WITH NON-LED MOTOR

| | | |
|---|--|---------------|
|  | I-SURGE™ MICROMOTOR | F27123 |
|  | I-SURGE™ DISCONNECTABLE MICROMOTOR CORD | F27124 |
|  | I-SURGE™ MICROMOTOR CORD + DISCONNECTABLE MICROMOTOR CORD | F34450 |
|  | MONT BLANC 20:1 ANTHOGRYR* CONTRA-ANGLE Green ring (non LED) | F36140 |
|  | SPRAY CLIP • For Mont Blanc Anthogyr* contra-angle | F36141 |

Surgical tips

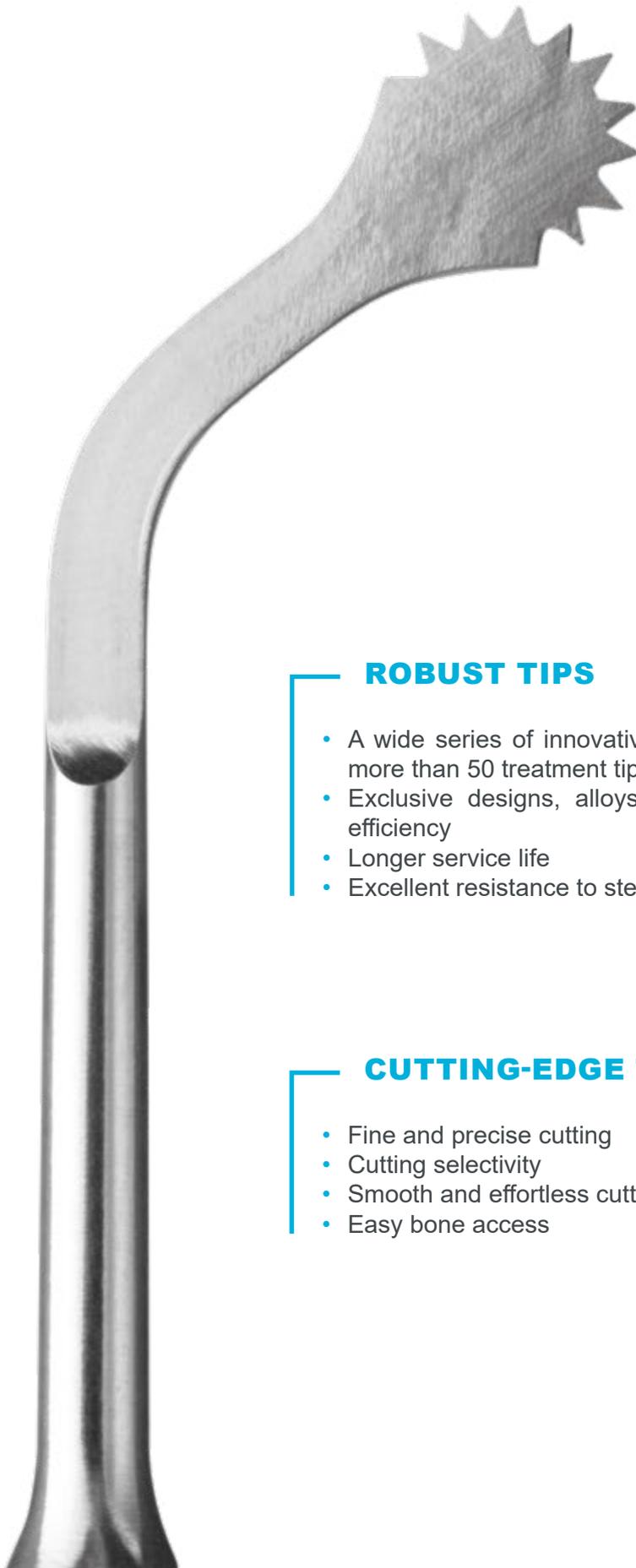
Cutting-edge piezo technology down to the handpiece tip

ROBUST TIPS

- A wide series of innovative tips designed for different anatomic contexts: more than 50 treatment tips to ensure clinical versatility
- Exclusive designs, alloys and coatings for enhanced preservation and efficiency
- Longer service life
- Excellent resistance to sterilization cycles

CUTTING-EDGE TECHNOLOGY

- Fine and precise cutting
- Cutting selectivity
- Smooth and effortless cutting
- Easy bone access



Bone Surgery

Bone surgery kit* **F87509**

Osteotomy - osteoplasty



BS1S "Slim"
F87525
Depth of cut 9mm



BS2L
F87502
Left curvature



BS2R
F87503
Right curvature



BS6
F87506



BS4
F87504



BS5
F87505

Essential

Essential kit* **F87528**

The most popular bone surgery tips



BS1S "Slim"
F87525
Depth of cut 9mm



SL1
F87511



LC2
F87542



BS4
F87504



SL3
F87513



SL2
F87512

Universal

Universal kit* **F87539**

The 6 main tips for extractions, crest expansions and piezocision



BS6
F87506



LC1
F87507



LC2
F87542



CE1
F87551



CE3
F87553



PZ1
F87571

Extraction

Extraction kit*

F87546

Extraction of wisdom teeth, fractured teeth, sectioned roots



LC1
F87507



LC2 (x2)
F87542



LC2L
F87543



LC2R
F87544



NINJA®
F87545

Sinus Lift

Sinus lift



SL1
F87511



SL2
F87512



SL3
F87513



SL4
F87514



SL5
F87515

Intralift

Oral sinus lift



TKW1
F87531

Ø1.35mm tapered tip
(pilot drilling)



TKW2
F87532

Ø2.1mm cylindrical tip
(preliminary drilling)



TKW3
F87533

Ø2.35mm cylindrical tip
(preliminary drilling)



TKW4
F87534

Ø2.8mm cylindrical tip
(secondary drilling)



TKW5
F87535

Non-cutting Ø3mm "trumpet" tip (separation of the sinus membrane)

Crown Extension

Crown extension



CE1
F87551

Ø1.75mm diamond ball tip



CE2
F87552

Ø1.20mm diamond ball tip



CE3
F87553

Diamond straight tip
over 5mm



BS6
F87506

*Comes with an autoclavable metal holder and a universal wrench

Crest Splitting

Crest splitting



Piezocision™

Orthodontic surgery

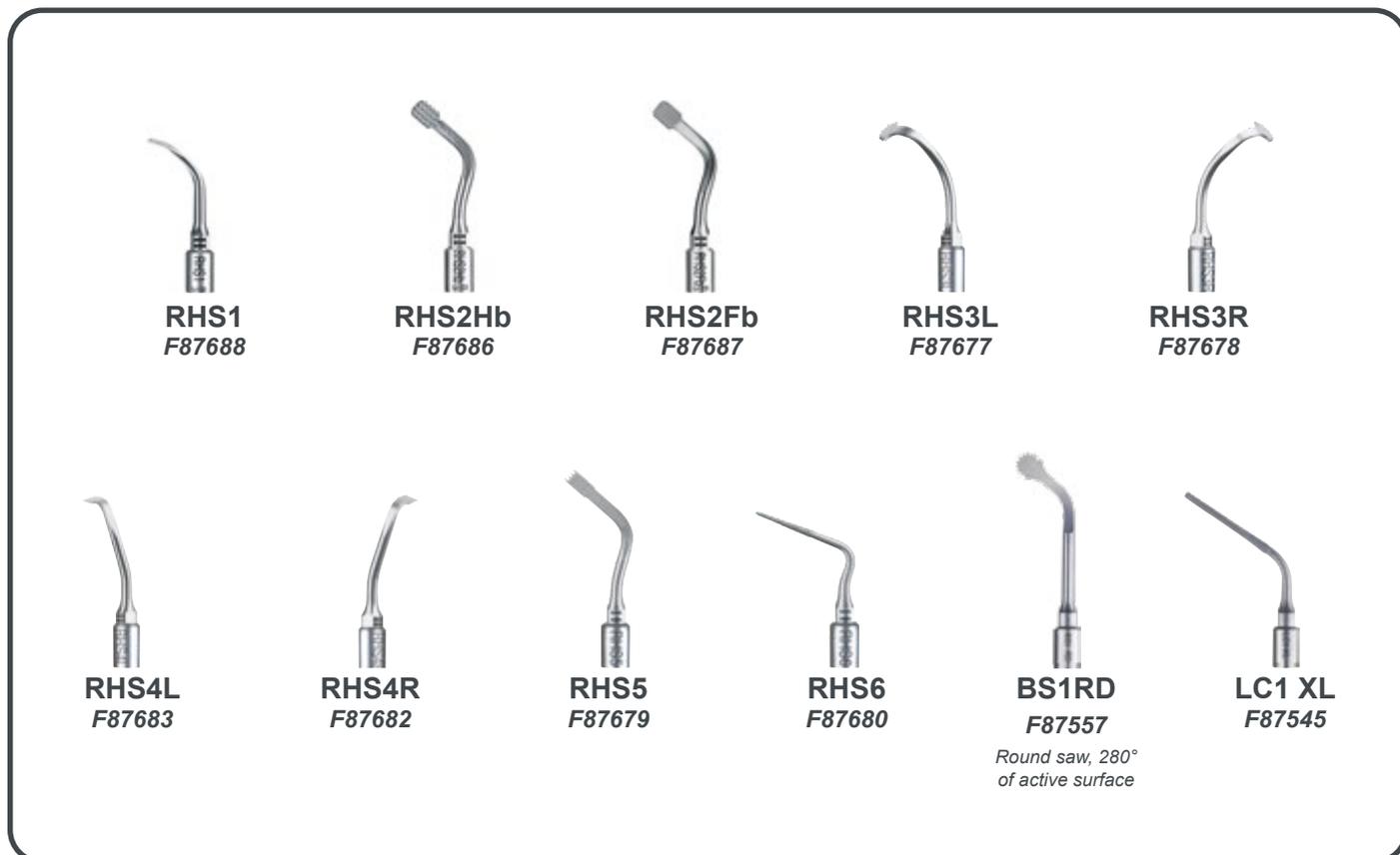


TPLO

Tibial plateau trimming osteotomy



Other tips



PACKS & ACCESSOIRES



BONE SURGERY PACK

Comes with a sterilization box, a PIEZOTOME® handpiece and its autoclavable cord, a Bone Surgery kit and an autoclavable PIEZOTOME® torque wrench

F87500



EXTRACTION PACK

Comes with a sterilization box, a PIEZOTOME® handpiece and its autoclavable cord, an Extraction kit and an autoclavable PIEZOTOME® torque wrench

F87540



ESSENTIAL PACK

Comes with a sterilization box, a PIEZOTOME® handpiece and its autoclavable cord, an Essential kit and an autoclavable PIEZOTOME® torque wrench

F87529



METAL HOLDER

F88445

TIP SETTINGS

| | implant center 2 | | piezotome cube |
|---|---------------------|--------------|-------------------|
| | Main setting | Fine setting | |
| BS1S / BS1L / BS1RD / BS2L / BS2R / BS6 | D1 | 1-3 | D1 |
| BS5 | D3 | 1-3 | D3 |
| CS1 / CS2 / CS3 / CS4 / CS5 / CS6 Mandible | D2 | 1-3 | D2 |
| CS1 / CS2 / CS3 / CS4 / CS5 / CS6 Maxilla | D3 | 1-3 | D3 |
| SL1 / SL2 | D1 | 1-3 | D1 |
| SL3 / SL4 / SL5 | D4 | 1-3 | D4 |
| TKW1 / TKW2 / TKW3 / TKW4 | D2 | 3 | D2 |
| TKW5 | D3 | 1 | D3 |
| PZ1 / PZ3 | D1 | 1-3 | D1 |
| LC1 / LC2 / LC2L / LC2R / NINJA | D1 | 1-3 | D1 |
| CE1 / CE3 | D1 | 1-3 | D1 |
| CE2 | D2 | 1-3 | D2 |
| BS2LXL / BS2RXL | D1 | 1 | D1 |
| BS6XXL | D1 | 3 | D1 |



MAXILLO-FACIAL SURGERY

In veterinary medicine, maxillo-facial bone surgery is mostly performed in the fields of oncology (maxillectomy and mandibulectomy), traumatology (osteosynthesis, bone graft harvesting), and corrective surgery (condylectomy, corrective osteotomy). Different instruments are used to cut the bones: manual osteotome, bone cutter or oscillating saw.

Piezoelectric bone surgery, or piezosurgery, is an innovative technique that relies on the very high frequency vibration of a metal tip to cut the bone. The tip works without assistance and a simple light-to-moderate pressure on the bone is all that is required. This, along with direct sterile irrigation of the operating site, minimizes thermal stress on the bone (Fig. 37).

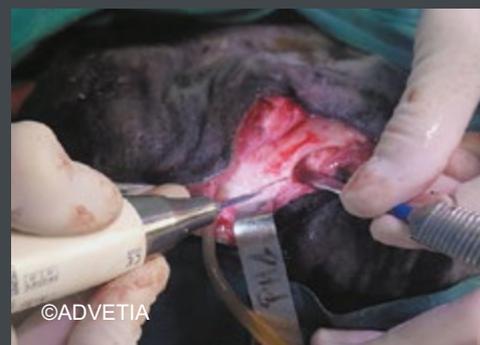


Fig. 37: Caudal maxillectomy with ImplantCenter™ 2

This technique enables selective cutting due to the selection of frequencies ranging from 28 to 36kHz. The tips are only active on hard tissues, which reduces risks of soft tissue lesions.

Unless they are completely impacted in the bone, the soft tissues vibrate at the same frequency as the tip. This therefore allows an osteotomy to be performed without risk of damage to the neurovascular pedicles (Labanca et al., 2008). Curvilinear bone incisions of any shape can also easily be made with a stylus (Fig. 38 & 39). In cranial surgery, it is therefore possible to perform an osteotomy of the parietal bone without damaging the dura mater (Kotrikova et al., 2006).



Fig. 38: Maxillectomy - Orbitectomy with ImplantCenter™ 2



Fig. 39: Apical resection - Intraoral approach of a canine tooth - Preparation of retrograde cavity with ultrasonic tip

In veterinary surgery, piezosurgery is indicated in a number of cases: mouth surgery (complex dental extractions, removal of root debris, apical surgery, bone curettage, periodontal surgery), maxillo-facial surgery (maxillary and mandibular resections, preparation of fractural ends, bone graft harvesting, TMJ surgery), nasal surgery (rhinotomy, sinusotomy), middle ear surgery (trepanning and curettage), osteoarticular surgery and spinal and central neurosurgery (Fig. 40-41-42-43-44-45). A complete revision of piezosurgery applications in the veterinary domain has recently been published (Hennet, *Frontiers in Veterinary Science*, 2015).



Fig. 40: Apical resection - Ventral approach of a canine 1 tooth - Trepanning with ImplantCenter™ 2



Fig. 41: Apical resection - Ventral approach of a canine 2 tooth - Exposure of the apex



Fig. 42: Apical resection - Ventral approach of a canine 3 tooth



Fig. 43: Caudal osteotomy of the mandible with ImplantCenter™ 2



Fig. 44: Caudal osteotomy of the mandible with ImplantCenter™ 2 - Deep cut

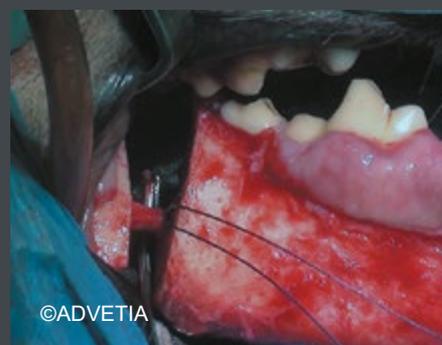


Fig. 45: Caudal osteotomy of the mandible with ImplantCenter™ 2 - Preservation of the alveolar neurovascular bundle

In comparison with other bone cutting instruments (manual osteotome, bone cutter, oscillating saw), the main advantages of piezoelectric bone surgery are:

- Selective cutting of mineralised tissues
- Substantial reduction in soft tissue lesions
- Less bleeding (effect of cavitation)
- Excellent visibility of the surgical field, due, in part, to minimal bleeding, the high luminosity of the LEDs, and the irrigation efficiency
- Precise cutting (limited vibration amplitude and specific design of tips-osteotomes)
- Multiple tips of varied designs adapted to all situations
- Curvilinear cutting
- No thermal stress
- Sterile irrigation - steam sterilization

The cutting action and tactile sensations are different with ultrasonic tips, compared with rotary instruments. A learning phase is required. Initially, 20 to 30% more time should be allowed for bone cutting (Landes et al., 2008).

FACTS & FIGURES

INCISIONS / HAEMOSTASIS

As the craniofacial region is highly vascularized, oral and maxillofacial surgery always causes bleeding, which can be profuse. Good haemostasis helps ensure the success of a procedure.

APPLICATIONS AND RECOMMENDATIONS FOR USE

To stem alveolar bleeding, a haemostatic sponge can be placed in the alveolus (Etick Collagene). The electric scalpel ensures cutting as well as electrocoagulation. Due to its interchangeable electrodes, numerous interventions, even the most delicate, can be practised. The fineness of the electrodes enables effective control of bleeding and access to all areas (*Fig. 46*).



Fig. 46: Incision using an electric scalpel



servotome

Towards
a new impetus

RELIABLE AND COMPACT

- Small dimensions
- User-friendly design for ultra-fast setting up
- 2 potentiometers (incision and coagulation)
- Fine adjustment of settings depending on type of tissue encountered

30 WATTS IS SUFFICIENT FOR MORE EFFICIENCY

- Controlled power
- Reliable and reproducible adjustment
- Optimum efficiency, improved safety
- Less energy loss

CONTROLLED POWER FOR ALL ELECTROSURGICAL USE

- Incisions/Excisions
- Frenectomy
- Gingivoplasty
- Coagulation
- Abscess incision
- Exposure of impacted teeth
- Gingivectomy
- Etc.

SERVOTOME®

Comes with a simple footswitch, an electrode holder, a box of 10 electrodes and a conductive bracelet

F57210**SERVOTOME® ACCESSORIES****CONDUCTIVE BRACELET****F57226****ELECTRODE HOLDER****F00476****ELECTRODE HOLDER CORD (2m)****F00475****SERVOTOME® II FOOTSWITCH****F00059****KIT CONTAINING 10 ELECTRODES****F10440****KIT CONTAINING 10 ELECTRODES + 1 ELECTRODE HOLDER****F10472**

SERVOTOME® ELECTRODES

Classified by volume and by haemostatic effect

Incision

Ø0.22mm



I 22 S
F10421



I 22 CA
F10422

Excision

Ø0.22mm



TR 22 L
F10424



TR 22 R
F10425



TR 22 T
F10427

Coagulation incision

Ø0.40mm



I 40 S
F10431



I 40 CA
F10432

Fulguration and coagulation

Ø1mm/Ø2.5mm/Ø3.2mm



FC 25 B
F10428



FC 32 B
F10429



FC 10 N
F10430

| | SURGICAL APPLICATIONS |
|------------------------------|--|
| ORAL SURGERY | Gingival eviction |
| | Abscess incision and draining |
| | Exposure of impacted tooth - mucous cap removal |
| | Cutting of pericoronal sac |
| | Haemostasis |
| RESTORATIVE DENTISTRY | Collar extraction |
| | Exposure of fractured root - crown extension |
| | Elimination of hypertrophic gum tissue |
| | Widening of dental groove |
| | Gingival modelling of toothless crest |
| ORTHODONTICS | Exposure of impacted tooth |
| | Frenectomy |
| | Crown extension to fit rings |
| | Elimination of hypertrophic gum tissue |
| OPERATIVE DENTISTRY | Preparation of cavities for inlay before taking an imprint |
| | Frenectomy |
| PERIODONTICS | Flap surgery |
| | Gingivectomy |
| | Gingivoplasty |
| | Stripping |

| ELECTRODE SELECTION | | | | | | | | | |
|---------------------|---------|---------|---------|---------|--------|---------|---------|---------|---------|
| I 22 S | I 22 CA | TR 22 T | TR 22 R | TR 22 L | I 40 S | I 40 CA | FC 10 N | FC 25 B | FC 32 B |
| ✓ | ✓ | | | | | | | | |
| ✓ | ✓ | | | | ✓ | ✓ | | | |
| ✓ | ✓ | | | | | | | | |
| ✓ | ✓ | | | | | | | | |
| | | | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | | | | | | | | |
| ✓ | ✓ | | | | ✓ | ✓ | | | |
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| ✓ | ✓ | | | | ✓ | ✓ | ✓ | | |
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| ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | |
| ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | |



INSTRUMENTATION

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ELEVATORS

Easy lifting of roots per periodontal ligament section and aveolodental bone root recession
Perfectly adapted for the contour of small teeth such as incisors and the roots of small premolars (*Fig. 1 & 2*).



Fig. 1 & 2: Lifting of roots with a 2mm elevator

PERIOSTEAL ELEVATORS

Periosteal elevators, or Molt elevators, facilitate the creation of gingival flaps (*Fig. 3 & 4*) after separation of the gum performed with the Chompret syndesmotome.



Fig. 3 & 4: Gingival flap with a mini Molt elevator

BONE CURETTES

Instruments used to clean the alveolus and to remove granular tissues

DOUBLE PICK

Identify irregularities on the tooth's surface, the entrance to the root canal on broken teeth. Identify dental resorptions, in cats in particular.

CHOMPRET SYNDESMOTOME

Unique instrument used to easily separate the gingival attachment to create a mucogingival flap (*Fig 5*). Prevents laceration or perforation of the mucosa.



Fig. 5: Use of the Chompret syndesmotome

POST PLIERS & FORCEPS

The anatomic handle allows greater precision and reduces user fatigue. The parallel pliers and the complete closing of the jaws ensure a better grip on all sizes of teeth, without fracturing them. Post pliers can also be used to extract teeth from rodents. The jaws are atraumatic.

The forceps have a pincer that is parallel when fully closed for improved handling. They are designed for use on all teeth (*Fig. 6*).



Fig. 6: Easy grip of small teeth such as a cat's teeth during extraction

PV1 CURETTE

Identify irregularities on the tooth's surface, the entrance to the root canal on broken teeth. Identify dental resorptions, in cats in particular.

GRADUATED PERIODONTAL PROBE

Its marking every 1mm with a black line every 5mm facilitates reading (*Fig. 7*)



Fig. 7: Use of the graduated periodontal probe



Instruments kit

The key instruments
in a single kit

VETERINARY INSTRUMENTS KIT

Comes with 4 elevators, 2 Molt elevators, 1 syndesmotome, 1 pair of pliers, 2 forceps, 2 curettes, 1 graduated probe, 1 double pick, 1 PV1 curette (cassette not included)

156.VT

KIT CONTENTS

Elevators



CAMBRAY ELEVATOR, FRONT
2mm

156.forward



CAMBRAY ELEVATOR, BACK
2mm

156.back



ELEVATOR NO. 50
3mm

156.50



BEIN ELEVATOR NO.66
3mm

156.66

Syndesmotome**CHOMPRET SYNDESMOTOME****264.03****Curettes and probes****HEMINGWAY CURETTE****135.01D****DARBY CURETTE****162.07D****PV1 SUBGINGIVAL CURETTE****403.01XL****GRADUATED PERIODONTAL PROBE
15mm****418.05D****DOUBLE PROBE NO.5****263.05D****Pliers and forceps****POST PLIERS****751.00****FORCEPS FOR CANINES
AND LOWER PREMOLARS****290.13****FORCEPS FOR CATS & SMALL DOGS****297.29****Other instruments****MOLT ELEVATOR NO.7/NO. 9****407.07D****MOLT ELEVATOR NO. 9****407.09D**

Curettes and probes

SIMPLE PROBES WITH DESIGN HANDLE



SIMPLE PROBE NO. 6

262.06D



SIMPLE PROBE NO. 9

262.09D



SIMPLE PROBE NO. 20

262.20D



SIMPLE PROBE NO. 23

262.23D



RHEIN SIMPLE PROBE NO. 3

266.03D

DOUBLE PROBES WITH DESIGN HANDLE



DOUBLE PROBE NO.5

263.05D



DOUBLE PROBE NO.7

263.07D

GRADUATED PROBE WITH DESIGN HANDLE

GRADUATED PERIODONTAL PROBE
15mm

418.05D

HEMINGWAY CURETTE WITH DESIGN HANDLE



HEMINGWAY CURETTE NO. 1

135.01D

Pluggers and syndesmotomes

AMALGAM PLUGGERS DESIGN HANDLE



WESCOTT NO. 22

201.22D



F.O.C SERRATED

173.01D



F.O.C SMOOTH

173.04D

CHOMPRET SYNDESMOTOMES



STRAIGHT BLADE NO. 1

264.01



SICKLE BLADE NO. 3

264.03

Pliers and forceps

FORCEPS

**CANINES AND LOWER PREMOLARS****290.13****UPPER ROOTS EXTRA FINE JAWS****291.60****SYNDESMOTOME SHAPE (BOTTOM)****290.23****SYNDESMOTOME SHAPE (TOP)****290.24****SYNDESMOTOME SHAPE (BOTTOM)****290.25**

CHISEL PLIERS

**LUER-FRIEDMANN CHISEL PLIERS**
fine jaws - 13mm**591.00**

POST PLIERS

**CURVED**
14cm**751.00**

Tweezers

TWEEZERS



PERRY TWEEZERS NO.2
13cm - serrated jaws

222.02



PERRY TWEEZERS NO.3
13cm - serrated jaws

222.03

TISSUE TWEEZERS



STRAIGHT WITH PINCERS
14cm

222.07



STRAIGHT WITH SERRATED JAWS
14cm

222.06



STRAIGHT WITH SERRATED JAWS
18cm

222.09

ADSON TISSUE TWEEZERS



TWEEZERS
12.5cm

222.10



TWEEZERS
12cm

222.11



TWEEZERS
12.5cm

222.12

Elevators

STANDARD HANDLE ELEVATORS



Standard handle - 2.5mm

156.50



Standard handle - 2.5mm

156.51



Standard handle - 3mm

156.52



Standard handle - 5mm

156.53



Standard handle - 4mm

156.55



Standard handle - 5mm

156.57



Standard handle - 3mm

156.60



Standard handle - 3.5mm

156.61



Standard handle - 3mm

156.63



Standard handle - 3mm

156.66



Standard handle - 2mm

156.76

ERGONOMIC HANDLE ELEVATORS



Ergonomic handle

159.79

COUPLAND ELEVATORS



Standard handle - 3mm

156.84



Standard handle

156.86

VIGNAL ELEVATORS



Standard handle - 3mm

149.19



Standard handle - 4mm

149.20



Standard handle - 5mm

149.21



Standard handle - 2.5mm

149.24

LUXATOR ELEVATORS



ANGLED
3mm

159.3C



STRAIGHT
3mm

159.3D



ANGLED
5mm

159.5C



STRAIGHT
5mm

159.5D

Scissors

GOLDMAN-FOX SCISSORS



THIN AND POINTED STRAIGHT SCISSORS

10.5cm

621.00



THIN AND POINTED ANGLED SCISSORS

10.5cm

622.00



MICRO STRAIGHT SCISSORS

9cm

623.00



POINTED STRAIGHT SCISSORS

11cm

625.00

METZENBAUM SCISSORS



ANGLED SCISSORS

14cm

652.00

Other instruments

MINI-ELEVATORS



MOLT ELEVATOR NO.7

407.07D



MOLT ELEVATOR NO. 9

407.09D

3-INSTRUMENT EXAMINATION KIT



DESIGN HANDLE EXAMINATION KIT

1 Design handle (210.00D) + mirror No.4
(x12 - MP3622PH), 1 probe (262.20D),
1 pair of COLLEGE tweezers (220.02.)

500.00D

DOUBLE CEMENT SPATULA DESIGN HANDLE



NO.1

252.01D

SCALPELS



STANDARD HANDLE

601.03



STERILE BLADES NO.11
x100

615.11



STERILE BLADES NO.15
x100

615.15

RETRACTORS



FARABEU F RETRACTORS
12cm x2

151.00

NEEDLE HOLDERS



MATHIEU
14cm

743.00



CASTROVIEJO
15cm

747.01TC

Accessories

STERILIZATION CASSETTES



EASYCLIP CASSETTE
8 instruments - 180x136x30mm

233.30



SURGICAL CASSETTE
285x92x37mm + 2 clips for scissors and
needle holder

233.20



**STAINLESS STEEL CASSETTE
WITH GREEN SILICONE**
4 slots - 180x130x25mm

233.13



**STAINLESS STEEL CASSETTE
WITH YELLOW SILICONE**
10 slots - 180x130x25mm

233.14



ALUMINIUM BOX
Empty - 75x175x30mm

242.00

STAINLESS STEEL TRAYS



TRAY
20x10cm
Customizable for orders of 20+ trays

233.10



TRAY
20x15cm
Customizable for orders of 20+ trays

233.15





PHARMA

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NON-INVASIVE TOOTH-SUPPORTED FIXATION DEVICES

Most jaw fractures can be treated using non-invasive techniques, particularly in small dogs and cats (Hennet, 1998). These techniques protect the fracture site and the teeth while ensuring a rapid bone consolidation. The teeth are used as anchorage points to stabilize the fracture. This is possible for maxillary and mandibular teeth, or teeth in the same dental arch.

Maxillo-mandibular fixation

Caudal lesions (at the frontal process or the temporomandibular joint) can, in particular in cats, be treated using this technique. By keeping the mouth half-open, with a semi-occlusion, the maxillary and mandibular canines are attached to each other using a dental composite resin, in compliance with restorative dentistry techniques.

WRICS*

This is a reference technique for all fractures located between the canine tooth and the carnassial tooth (maxillary fourth premolar or mandibular first molar). After the installation of a wire interdental reinforcement, the splint is made using acrylic/non-exothermic composite resin (Coolsin Plus). The wire interdental reinforcement accentuates the retention and can improve the mechanical properties of the splint (Kern et al., 1993).

These techniques cannot be used to treat mandibular angle fractures, complex caudal fractures and mandibular body fractures in the absence of solid dental abutments (carnassial and canine) to make a splint. These cases require an internal plate and screw type fixation.

**Wire-reinforced interdental composite splint*



THE DIFFERENT STEPS INVOLVED IN THE MAKING OF AN INTERDENTAL SPLINT

- Intubate the animal by pharyngostomy
- Accurately assess the fracture site (dental x-ray - *Fig. 1*)
- Suture the soft tissues
- Scale and polish the teeth
- Reduce the fracture by re-establishing the initial occlusion
- Place an interdental metal ligature between the carnassial tooth and the canine tooth without compression (neutral position - *Fig. 2*)

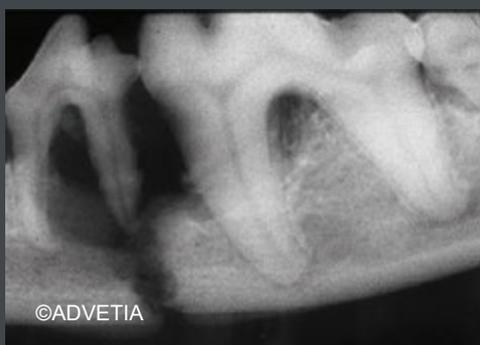


Fig. 1: Dental x-ray



Fig. 2: Neutral position

- Etch the teeth
- Rinse and dry using the Riskontrol™ syringe
- Prepare the composite resin
- Apply the resin to the etched teeth and the metal ligature, whilst maintaining the reduction (*Fig. 3*)
- Close the oral cavity to occlusal contact
- Wait for the resin to set (self-polymerization). Keep the oral cavity closed and wait for the resin to set (± 2 mins)
- Remove any excess resin, and polish



Fig. 3:



**coolsin
plus**

**Self-polymerizing resin
to form temporary crowns
and bridges, and splints**

PROPERTIES

- Aesthetic and natural colors
- Compressive strength > 110 Mpa
- Self-polymerizing material
- Quick setting time
- Optimum finish and polishing

WORK SEQUENCES

- 0 minutes: Application in the impression
- 0-45 seconds: Intraoral insertion of the impression
- 2-3 minutes: Removal from the patient's mouth
- 6 minutes: Removal of oxygen inhibition layer using a solvent
- 6-7 minutes: Preparation, modelling and polishing

COOLSIN™ PLUS

1 x 50ml dual-cartridge, 10 single-use mixing tips

201070

COOLSIN PLUS TIPS x 100

200 073

COMPATIBLE WITH THE KITESURF™ APPLICATOR



KITE SURF™ APPLICATOR

281 532

orthofast

Alginate-base material



INDICATIONS

Dental impressions

COMPOSITION

Alginate salts, mineral filler, food colorings

PROPERTIES

- Quick setting time: 1 min 40 secs to 2 mins
- Orange color

ORTHOFAST™

2 x 500g bags, powder and water dosing system

263 621

ORTHOFAST™ ECO

12 x 500g bags, powder and water dosing system

263 622

ORTHOFAST™ CLINIC

24 x 500g bags, powder and water dosing system

263 623

cav-hycal

Light-curing, radiopaque material containing calcium hydroxide



INDICATIONS

Indirect pulp capping
Cavity liner

PROPERTIES

- One-component material
- Radiopaque
- High compressive and tensile strength

CAV-HYCAL™

2 x 4g syringes, 20 disposable tips

213 876

kite surf putty soft

Addition silicone for precision impressions



INDICATIONS

Dual mixture impression (1 step), wash technique impression (2 steps) or triple viscosity impression

COMPOSITION

Polyvinyl siloxane, silica, excipients

PROPERTIES

- Hydrocompatible
- High viscosity
- Time management (snap-set effect)
- Bright, contrasting colors

KITE SURF™ SOFT PUTTY Normal Setting
1 x 300ml pot of base, 1 x 300ml pot of catalyst, 2 spoons

281 100

kite surf basic light

Addition silicone for precision impressions



INDICATIONS

Dual mixture impression (1 step), wash technique impression (2 steps) or triple viscosity impression

COMPOSITION

Polyvinyl siloxane, silica, catalyst, excipients

PROPERTIES

- Highly hydrophilic
- Low viscosity, fluid consistency
- Time management (snap-set effect)
- Bright, contrasting colors

KITE SURF™ BASIC LIGHT Normal Setting
2 x 50ml cartridges (base and catalyst), 48 mixing tips

281 375

KITE SURF™ LIGHT MIXER

281537

KITE SURF™ INTRAORAL TIPS

281 538



KITE SURF™ APPLICATOR

281 532

pr scell glass ionomer

Cementation of crowns, bridges and inlays



INDICATIONS

- Powder: fluoroaluminosilicate glass, excipients
- Liquid: acrylic acid and tricarboxylic acid copolymers, excipients

PROPERTIES

- Excellent adhesion
- Long working time
- Low film thickness
- Releases fluoride
- Radiopaque

PR SCELL™ GLASS IONOMER
15g of powder, 8ml of liquid, 1 spoon

213 770

pr bond

Dual-cure dentin-enamel adhesive requiring prior etching



PROPERTIES

- Light-cure dentin-enamel adhesive (black bottle) and dual-cure (self-curing) when it is mixed with the catalyst (red bottle)
- Shear strength: ~ 13Mpa
- No post-operative sensitivity due to the elimination of residual bacteria by benzalkonium chloride

PR BOND™
5ml of light-cure adhesive, 5ml of “dual” catalyst

200 948

pr etch

Enamel and dentin etching



PROPERTIES

- Thixotropic gel (38% phosphoric acid)
- Excellent contrast (blue color)
- Fast wash-off

PR ETCH™
4 x 1.2ml (1.5g) syringes, 8 applicator tips

200 322



salvizol E.D.T.A

Root canal irrigant



COMPOSITION

Edetic acid: 8g/100g in dihemipotassium salt form, quaternary ammonium salts, excipients.

PROPERTIES

- Thanks to its chelating properties, Salvizol™ E.D.T.A. dissolves the mineralizing screen, facilitating removal of the smear layer. It contains a quaternary ammonium salt to efficiently wet the dentin wall and produce a foam, which prevents apical sedimentation of debris.
- When used alternately with sodium hypochlorite (NaOCl), Salvizol™ E.D.T.A. makes it possible obtain clean dentin walls and satisfactory opening of the tubules so that the canal can then be optimally obturated.

SALVIZOL™ E.D.T.A
250ml bottle

266 115

kit irrigation

Irrigation syringe



PROPERTIES

- Box of 100 syringes with 27g (0.41mm) single-use injection needs for root canal irrigation and adding drops to the periodontal pocket.
- Sewing needle. Transparent tip: does not cause liquid overpressure even in the event of needle blockage.
- System for fitting the quick-thread needle on the syringe: needle cannot be disconnected. Sterilized with ethylene oxide (use within 5 years)

IRRIGATION KIT 27g
Box of 100 syringes

266 291

MTA caps



Endodontic repair cement

INDICATIONS

- Retrograde and orthograde filling
- Repair of perforations
- Pulp capping

PROPERTIES

- Biocompatible
- Barrier impervious to bacteria and fluids
- Radiopaque
- Easy to use
- Delivered in pre-dosed, single-use capsules

MTA CAPS

1 aluminium bag containing 2 x 0.3g capsules

251 170



MTA APPLICATOR

213 675

hycal



Ready-to-use calcium hydroxide paste

INDICATIONS

- Hycal™ is a calcium hydroxide aqueous paste indicated for:
- Direct capping during opening of the pulp or a pulpotomy
 - Indirect capping for treatment of deep caries
 - Temporary filling of root canals

PROPERTIES

- Product ready to use
- Effective protection of the pulp
- Radiopaque

HYCAL™

1 syringe fitted with a cannula + tube cap, 2 curved application cannulas

259 314

eugenol pur



Liquid for zinc oxide based cement

COMPOSITION

Eugenol 100%

PROPERTIES

In the presence of bivalent metallic ions (Zn^{2+}), eugenol forms a chelate: chemopolymerization.

EUGENOL PUR
60ml bottle

234 110

sealite regular

Powder and liquid for permanent sealing
cement for root canals



PROPERTIES

- Cement that spreads completely into the canals
- Very thin film thickness
- Very low disintegration
- Easy to use: adapted working time, setting time that allows positioning of gutta cones whatever the procedure used.

COMPOSITION

- Sealite Regular Powder: Diiodothymol, zinc oxide, silver powder, excipients
- Sealite Liquid: Eugenol Excipients

SEALITE™ REGULAR KIT

25g of Sealite™ Regular Powder, 10ml of Sealite™ Liquid,
1 spoon, 1 dropper

266 264

SEALITE™ LIQUID

10ml (refill)

266 267

cimavit

Fluoride temporary filling cement



PROPERTIES

- Ready-to-use (no mixing)
- Waterproof (impermeable plastic components)
- Excellent adherence to dentin
- Immediate setting in the mouth
- Easy to remove (probe, excavator, etc.).
- Pink color for good contrast.

CIMAVIT™
6 x 28g pots

213 859

cimavit photo

Light-curing filling material for temporary restorations



INDICATIONS

All types of temporary fillings, temporary protection in inlay and onlay techniques.

PROPERTIES

- This material is ready-to-use and does not stick to instruments.
- It is condensable, does not require a particular size of cavity, creates a hermetic seal (isolates the tooth from bacterial and thermal stresses). If the temporary filling stays in the mouth for more than 2 weeks, reinforcement with a composite is recommended on occlusal or marginal surfaces.
- It has a good aesthetic translucency. Its elastic consistency means it can be removed in one block.

CIMAVIT™ PHOTO
12 x 4g syringes

213 830

desocclusol orange

Solvent for root canal filling
cements (eugenate type)
and gutta percha



PROPERTIES

- Facilitates root canal filling removal:
- High dissolving capacity of zinc oxide/eugenol based cement and gutta percha
- Improves instrument efficiency
- Good local tolerability

COMPOSITION

Orange essential oil

DESOCCCLUSOL™ ORANGE
14ml bottle

226 022





sitsalicine

Polishing teeth
after scaling

PROPERTIES

Silica is a mildly abrasive powder which gives the paste its polishing properties, eliminating micro-roughness that is present after scaling, without damaging the enamel or gums.

SITSALICINE™
60g tube

277 803

APPLICATIONS AND RECOMMENDATIONS FOR USE

POLISHING WITH A CUP

Polishing is performed slowly using a rubber polishing cup smeared with polishing paste, to be used for approximately 5 seconds per tooth. The cup must be regularly replaced.

The instruments used to perform polishing slowly are reducer contra-angles or polishing contra-angles.



Polishing with a cup

etik
collagene

Haemostatic surgical dressing



COMPOSITION

- Native, non-denatured, lyophilized bovine collagen (mainly type I collagen): 100%. This device contains tissues of animal origin under regulation (EU) no.722/2012.
- Dimensions: Ø 10mm, height: 16mm

PROPERTIES

- Collagen is a fibrillar protein naturally present in all connective tissues.
- Lyophilized collagen in cylindrical form displays haemostatic activity due to its adhesive, liquid absorption and gelification properties.

ETIK™ COLLAGENE
25 unit-packaged sterile cylinders

281 970

Silk dental suture

Nonresorbable sutures



INDICATIONS

Used in general surgery, ENT, dental surgery and stomatology.

PROPERTIES

- Silk dental suture 3/0: Needle: length 18mm, radius of curvature 3/8th, atraumatic triangular shape. Strand: Ø dec 2, length 45cm.
- Silk dental suture 4/0: Needle: length 12mm, radius of curvature 3/8th, atraumatic triangular shape. Strand: Ø dec 1.5, length 45cm.
- Silk dental sutures are nonresorbable strands obtained by braiding varying numbers of silk strands depending on the desired diameter. They are coated with natural wax after braiding. They are black, not very elastic but very flexible. As they have almost no shape memory, they are easy to handle and improve surgical comfort considerably.

SILK DENTAL SUTURE 4/0 DEC 1.5
box of 36 pouches

280 201

SILK DENTAL SUTURE 3/0 DEC 2
box of 36 pouches

280 101

Sterile dental needles



Infiltration anaesthesia

PROPERTIES

- European thread pitch
- Plastic hub
- Silicone coated
- Triple bevel allowing several injections without risk of bending the point of the bevel and thus obstructing the lumen of the needle
- Sterile
- Complies with standard NF EN ISO 7885 “Sterile dental injection needles for single use”



RISK OF PUNCTURE

Reminder of the protocol in force: after an anaesthesia, do not put the protective cap back on the needle by hand. Place the cap on the work surface and pick it up with the needle. In all cases, used needles must be placed in the special purpose-provided receptacles to be destroyed.

| | |
|---|----------------|
| STERILE DENTAL NEEDLES 16/30 box of 100 needles | 201 444 |
| STERILE DENTAL NEEDLES 21/30 box of 100 needles | 201 445 |
| STERILE DENTAL NEEDLES 35/50 box of 100 needles | 201 448 |





ENDOSCOPY

| | |
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| UBIPACK® FULL HD | 166 |
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ubipack_{HD}
Full HD

The compact
portable
endoscopy
solution



AN EFFICIENT AND INTUITIVE SYSTEM FOR QUALITY DIAGNOSTICS

To immediately and easily detect a large number of pathologies, **Ubipack® Full HD** provides a high quality image and therefore reliable information.

All of its components: **Ubicam® Full HD**, **Ubilight** and **Sopro Imaging** were designed based on the following guidelines:

- Performance and reliability
- Ergonomic and lightweight solution
- Means of communication between the veterinarian and animal owners, helping them to better understand and accept treatments.

This system's compact size and ease-of-use make it perfectly suited to use within the veterinary environment.





Ublight is a compact light source that can be used alongside the Ubicam® Full HD. Its compact size is perfectly suited to your work environment without getting in your way. The Ubilight has just one button, which makes it simple to use and allows you to focus solely on your patient. This product was designed to meet your essential consultation needs: No disadvantages, only benefits!



- Image and video capture
- Addition of comments
- Print, e-mail and export all data
- User-friendly and intuitive
- Multilingual software (27 languages available)
- Compatible with Windows®
- User-friendly database to store all information about the animal and their owner



Ubicam® Full HD is a lightweight and ergonomic camera that is specially designed for diagnostic use:

- USB 3.0 connector
- Compact and easy-to-use
- 3 buttons to control white balance, take photos and videos, digital zoom and “anti-moiré” function for fiberscopes
- Compatible with any C mount lens to obtain the perfect image size for your needs.

Short press:
Photo capture

Long press:
Zoom -



Short press:
Video capture

Long press:
Zoom +

Long press:
AWB

Double-press:
“Anti-moiré”
function

UBIPACK® FULL HD**UBICAM® FULL HD****S_191_0001****UBILIGHT®**
with Storz® adapter**S_281_0002****SOPRO IMAGING VETERINARY****505020****24mm HD 3S V1 LENS**

24mm HD - C mount lens - Optical mount with lock

Weight: 90g

Protection type: IPX7 (sealed)

Compatible with all C mount cameras

S_024_0001**PORTABLE LIGHT SOURCE**

with USB charger

200.02531.02**UBIPACK CASE****010315**



**DUO**
Full HD

The intuitive solution
for endoscopy procedures

- 2-In-1 device
- 3 programmed buttons
- Compact
- LED lifetime up to 50,000 hours
- Full HD 1920x1080 pixel resolution

FOR EFFECTIVE TREATMENT

Duo Full HD combines a Full HD camera and a LED light source. The Full HD resolution, associated with a quality light, provides precise images to ensure reliable treatment. Its high quality images are an excellent aid when it comes to choosing the right treatment.

MULTIDISCIPLINARY USE

Duo Full HD is perfect for diagnostic work, allying performance and simplicity during surgeries and facilitating post-operative checks.

ATTRACTIVE WITH ITS COMPACT AND MODERN DESIGN

Offering a cutting edge design and technology, the compact and elegant Duo Full HD fits well into any environment.



DUO FULL HD KIT



Delivered with a camera head, a 24mm lens, a light cable, Storz adapters for the light source side and the endoscope side

S_K19_1000

Compatible with Sopro® Imaging Veterinary

DUO FULL HD



DUO FULL HD CONTROL CHANNEL

S_195_9000



DUO FULL HD CAMERA HEAD
Without lens

S_195_8000



24mm HD 3S V1 LENS
24mm - C mount lens - Optical mount with lock
Weight: 90g - Protection type IPX7 (sealed)
Compatible with all C mount cameras

S_024_0001



F16-34mm LENS
HD Zoom 16-34mm - C mount lens - Optical mount
Compatible with all C mount cameras

S_413024

SCREENS



LG® FULL HD 27" SCREEN

S_700794



BEETRONICS FULL HD 15" SCREEN

S_700799



**DESKTOP STAND FOR MONITOR
WITH VESA MOUNTING**

700057

Accessories

LIGHT CABLES



LIGHT CABLE
Ø3.5mm, length: 3m

S_700216

LIGHT CABLE
Ø3.5mm, length: 3m

S_700215

ADAPTERS



STORZ® ADAPTER OPTIC SIDE

700051



WOLF® ADAPTER LIGHT SOURCE SIDE

700043



ACMI/STRYKER® ADAPTER OPTIC SIDE

700048



STORZ® ADAPTER LIGHT SOURCE SIDE

700044



WOLF® ADAPTER LIGHT SOURCE SIDE

700046



ACMI/STRYKER® ADAPTER LIGHT SOURCE SIDE

700047



OLYMPUS® ADAPTER LIGHT SOURCE SIDE

700045



OLYMPUS® ADAPTER
For Ubilight light source

402048





HYGIENE

| | |
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riskontrol

Adopt the solution of disposable tips for optimal clinical protection



REDUCES THE CROSS-CONTAMINATION RISK

- Single-use tips, easy to install
- 20 times less risk of direct or cross contamination* due to single-use design
- 2 separate air and water ducts from the syringe to the end of the tip to ensure that the air is completely dry
- Made of 100% recyclable polyethylene, no environmental impact



PROPERTIES

- Bayonet attachment system between the adapter and the tip to prevent any risk of the tip being ejected during use
- Flexible, bendable, no shape memory, can reach the most hard-to-reach places without compromising spray quality
- Prevents long, tedious and unpredictable cleaning, decontamination and sterilization procedures for your Air/Water syringes

AIR/WATER SYRINGE ADAPTER



The Riskontrol® series proposes a series of different adapters that can be fitted to around 145 types of chairs. The adapter remains permanently in place. Simply change the tips between each animal. Please contact us to find out which adapter is required for your equipment.

*Source: M.Inger, V.Bennani, M.Farella, F.Bennani, RD.Cannon. Efficacy of air/water syringe tip sterilization. Australian Dental Journal 2014; 59: 87-92

classic
by **riskontrol**

| | | |
|--|------------------------------------|----------------|
|  | 250 WHITE NON-STERILE TIPS | 201 664 |
|  | 250 BLUE NON-STERILE TIPS | 201 665 |
|  | 250 YELLOW NON-STERILE TIPS | 201 666 |
|  | 250 GREEN NON-STERILE TIPS | 201 667 |
|  | 250 PINK NON-STERILE TIPS | 201 668 |

total protec
by **riskontrol**

| | | |
|--|---|----------------|
|  | 100 WHITE STERILE TIPS With flexible protection | 201 751 |
| | 100 BLUE STERILE TIPS | 201 750 |

sterile
by **riskontrol**

| | | |
|---|--|----------------|
|  | 96 INDIVIDUALLY BLISTER-PACKED STERILE TIPS Sterilized with ethylene oxide | 201 770 |
|---|--|----------------|

septol spray

Disinfectant solution for medical devices



INDICATIONS

Rapid disinfection of previously cleaned, non-invasive and alcohol-resistant medical devices. Ready to use

PROPERTIES

- Bactericidal in 5 mins, 20°C (EN 1040, EN 13727, EN 13697)
- Yeasticidal in 5 mins, 20°C (EN 1275, EN13624, EN 13697)
- Fungicidal in 15 mins, 20°C (EN 1275, EN 13624, EN 13697)
- Active against MRSA in 5 mins, 20°C (EN 13727)
- Active in accordance with EN 14476 in 1 min, 20°C, against PRV (surrogate of HBV), Herpesvirus, BVDV (surrogate of HCV) and Vaccinia virus

SEPTOL™ SPRAY
750ml foaming spray

268 301

SEPTOL™ SPRAY
5L bottle with tap

268 300

septol aspiration

Cleaning and disinfection of suction systems



PROPERTIES

- Bactericidal in 15 mins, 1%, 20°C (EN 13727, EN 14561)
- Yeasticidal in 15 mins, 1%, 20°C (EN 13624, EN 14562)
- Mycobactericidal in 60 mins, 1.6%, 20°C (EN 14348, EN 14563)
- Active in accordance with EN 14476 in 5 mins, 20°C, against BVDV (surrogate of HCV) at 0.50%, Herpesvirus and HIV-1 at 1% and Vaccinia virus at 2%

SEPTOL™ ASPIRATION
5L bottle with 20cc dosing pump

268 297

septol rotative



Cleaning and disinfection of burs, rotary and canal instruments, before their sterilization

PROPERTIES

- Bactericidal in 5 mins, 20°C (EN 1040, EN 13727, EN 14561)
- Yeasticidal in 5 mins, 20°C (EN 1275, EN13624, EN 14562)
- Mycobactericidal in 60 mins, 20°C (EN 14348, EN 14563)
- Active in accordance with EN 14476 in 5 mins, 20°C, against PRV (surrogate of HBV), Herpesvirus, BVDV (surrogate of HCV), HIV-1 and Vaccinia virus

SEPTOL™ ROTATIVE
2L bottle

268 305

SEPTOL™ ROTATIVE IMMERSION TANK

268 326

septol instruments enzymatic



Cleaning and disinfection of dental instruments before sterilization

PROPERTIES

- Bactericidal in 5 mins, 0.5%, 20°C (EN 1040, EN 13727, EN 14561)
- Yeasticidal in 5 mins, 0.5%, 20°C (EN 1275, EN 13624, EN 14562)
- Mycobactericidal in 60 mins, 1.6%, 20°C (EN 14348, EN 14563)
- Active against MDRB in 5 mins, 0.5%, 20°C (EN 13727)
- Active in accordance with EN 14476 in 5 mins, 0.5%, 20°C against PRV (surrogate of HBV, BVDV (surrogate of HCV), Herpesvirus, HIV-1 and Vaccinia virus

SEPTOL™ INSTRUMENTS ENZYMATIC
1L - concentrated product to dilute (1%) with 20ml dosing pump

268 305

SEPTOL™ INSTRUMENTS ENZYMATIC IMMERSION TANK

268 326



Cleaning and disinfection of impressions



INDICATIONS

- Septol™ Empreintes is an aldehyde-free concentrated disinfectant with a wide range of action prepared and tested in compliance with new harmonized European disinfection standards.
- Septol™ Empreintes has been designed for high-level rapid disinfection of impressions made of silicone (by addition and condensation), alginate, polyether and polysulfide: the impressions remain unaltered, have no significant dimensional change and are compatible with plasters.

PROPERTIES

- Bactericidal, Yeasticidal, Mycobactericidal, virucidal with limited range of action
- Suspension test performed in accordance with standards EN 13727, EN 13624, EN 14348.
- Virucidal activity tested in accordance with standard EN 14476

SEPTOL™ EMPREINTE
1L bottle

268 322

SEPTOL™ EMPREINTE IMMERSION TANK

268 325

septol
savon doux

Liquid soap - Frequent use



INDICATIONS

- Septol™ Savon Doux is perfectly suitable for repeated hand washing.
- The properties of its ingredients make it suitable for use on all types of skin.

PROPERTIES

- Washing solution, enriched with moisturizing substance, suitable for sensitive skin.
- Standard NF EN ISO 11930 criterion A: assessment of the antimicrobial protection (challenge test) against: Pseudomonas aeruginosa, Staphylococcus aureus, Escherichia coli, Candida albicans, Aspergillus niger.
- Assessment of the antimicrobial protection against: Pseudomonas aeruginosa, Staphylococcus aureus, Candida albicans, Aspergillus niger.

SEPTOL™ SAVON DOUX

1L bottle with 4ml dosing pump*

268 507

SEPTOL™ DOUX

5L bottle with tap

268 506

SEPTOL™ DOUX

1L bottle for wall dispenser

268 510



METAL WALL DISPENSER

268 511

septol n.p. aloe vera

Powder-free latex examination gloves with aloe vera



PROPERTIES

- With aloe vera, ambidextrous, powder-free
- Semi-rough outer surface
- Non-sterile, single-use
- Manufactured to offer maximum strength, without comprising the required tactility; a very stringent quality control guarantees optimum and ever-essential hygiene conditions for the practitioner and practice staff.

SEPTOL™ POWDER-FREE GLOVES WITH ALOE VERA

10 boxes containing 100 gloves

| | |
|---------|----------------|
| Size XS | 219 500 |
| Size S | 219 505 |
| Size M | 219 510 |
| Size L | 219 515 |

septol n.p.

Powder-free latex gloves



PROPERTIES

- Ambidextrous, powder-free
- Semi-rough outer surface
- Non-sterile, single-use
- Manufactured to offer maximum strength, without comprising the required tactility

SEPTOL™ POWDER-FREE GLOVES

10 boxes containing 100 gloves

| | |
|---------|---------|
| Size XS | 219 400 |
| Size S | 219 405 |
| Size M | 219 410 |
| Size L | 219 415 |

Hand towel

Ultra absorbent hand towel



PROPERTIES

- Excellent absorption, only one towel is required (6-ply cellulose)
- Strong
- Dimensions: 19x25cm
- Color: White

HAND TOWEL

Box of 1600 towels

268 305

WALL DISPENSER

268 326



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An ACTEON® Group brand

**17 avenue Gustave Eiffel
BP 30216
33708 MERIGNAC Cedex
France**

Tel. +33 (0) 556 340 607

acteonvet@acteongroup.com

