New products 2017

Dental X-ray

NOW with LED

WLAN X-ray
HIRAY DENTAL X-RAY UNIT

The accurate, reliable and ergonomic HiRay DENTAL high frequency X-ray unit provides user-friendly operational function, best performance and excellent image quality.

Developed with the aim of highest quality and reliability the HiRay DENTAL exploits the high frequency constant potential technology to grant short exposures, a significant dose reduction for the patient and sharp, repeatable high quality radiographic images.

- Lower dose for the patient, higher definition for the vet
- Easy, intuitive and safe
- Elaborate design and short exposure time help speeding up the workflow
- Stable and secure arms assuring a precise linear movement which can reduce the risk of vibration of the head during image acquisition
- Produces superior quality images thanks to a small 0,4 mm focal spot whether films, phosphor plates or digital sensors are used

Technical data

- Focal spot: 0.4 mm
- Exposure time: 0.01 – 2 Sek.
- Duty cycle: 1:60
- High tension: 60 – 65 – 70 kVp
- Anodic current: 5 mA
- Total filtration: > 2 mm Al eq.
- Minimum focus skin distance: 200 mm
- Irradiated area: at 200 Ø 55 mm
- Leakage: at 1 m < 0.25 mGy/h
- Power supply: 120 – 230 V (+10%)
- Frequency: 50/60 Hz
- Current: 2,5 A

Wall Model

- Maximum reach: approx. 1,98 m
176530

Stand Model

- Maximum reach: approx. 1,30 m
176535

LAGRANGE DENTAL GUN SISSCORS

- S-sharped – ergonomic design for better cutting
- Length: 115 mm
115100
DIGIVET® CR DENTAL READER

The compact, easy-to-use dental CR reader for rapid and high-quality digital imaging

The automated magnetised feeding tray offers „push-and-go“ functionality making it simple to operate – even for untrained users. The two most important imaging plate sizes are included in the starter kit which are relevant in veterinary dental X-ray. Importantly, a true size 4c imaging plate is available, so you do not have to use software stitching to combine images from two 3-sized plates. A built-in erase function eliminates the need of an additional device to erase imaging plates prior to reuse.

Due to its compact size the reader seamlessly fits into even the most space-challenged veterinary practices and exam rooms

- Utilises existing X-ray equipment & imaging techniques
- Display presents a preview of the image, allowing the vet to verify image quality
- Ease of use: visually guides users in the operation of the system, with little or no training needed
- Autocalibration ensures stability and consistency

User-friendly imaging software

The included software optimises image acquisition and management. The user-friendly software supports efficient workflows in veterinary practices and requires little training: To ensure that the scans are assigned to the correct positions, the operator simply selects the respective tooth in the dental chart of the software.

DigiVet® CR Dental Reader incl. starter kit, consisting of:

- Starter Kit Imaging Plates: 4x size 2 (31 x 41 mm), 1x size 4c (48 x 54 mm)
- 100 Hygienic Bags size 2
- 100 Hygienic Bags size 4c
- DigiVet® Dental Vet Imaging Software Package including DICOM modalities (Send/Retrieve)

708031

<table>
<thead>
<tr>
<th>Optional accessories</th>
<th>Item</th>
<th>Description</th>
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Application examples
DIGIVET DR PORTABLE FLAT PANEL DETECTOR FOR DIGITAL RADIOGRAPHY

Portable Flat Panel Detector for Digital Radiography

The device is a flat panel detector with 14" x 17" coverage area for general radiographic applications using its unique image processing system. With the same size as a film or a CR cassette, it is an optimised solution for upgrading conventional X-ray system.

User friendly imaging software, VXvue™ is compliant with DICOM 3.0 standard and provides consistent image quality. Furthermore, it offers reliable automatic X-ray exposure detection, Anytime™ which enables users to perform examination with any kinds of X-ray systems. It only takes a few simple steps to acquire and transmit images to the DICOM server through Gigabit Ethernet.

- Wide active area of 35 cm x 43 cm (14" x 17")
- High spatial resolution with 140 µm pixel array
- Stable and reliable automatic exposure detection (Anytime™)
- Viewer software running on Windows™ OS (VXvue™)
- Communication interface through Gigabit Ethernet (1000 BASE-T)
- Simple and easy integration with all kinds of digital radiography system
- Application: General radiography

Technical data

- Technology: Flat panel detector: a-Si TFT with PIN diode
- Scintillator: CsI:Tl
- Pixel pitch: 140 µm x 140 µm
- Spatial resolution: 3,5 lp/mm
- Pixels: 2.560 x 3.072 pixels
- Image Size: 14 x 17 inches (35 x 43 cm)
- A/D Conversion: 14 bit
- Grayscale: 16.384 grayscales
- Maximum Dose: 4 mR
- X-ray voltage range: 40 – 150 kVp
- X-ray Generator Interface: Line trigger: DR trigger mode, Passive trigger mode/Auto trigger: AED mode
- Interface: Gigabit Ethernet (1000BASE-T)
- Image Acquisition Time: 1,2 sec
- Detector cable: GigE communication and power supply (3 m)
- Power: DC 24 V, 0,5 A
- Dimensions (in cm): W 46 x L 38,4 x H 1,5
- Weight: Approx. 3,2 kg

708480
The 2nd generation Evolox® hole system uses a unique twin start tapered triangular thread form that naturally generates the space required to allow the threads to skip to the next level, thus maintaining a continuous thread form and drastically improving the rigidity of the locking interface. The use of Evolox® Poly-axial locking technology with cranial and caudal screw placement helps to eliminate operation inaccuracies. The proximal screw is fixed angled.

- Protected triangular uninterrupted thread form for Poly-axial locking
- Uses standard twin start locking and conventional cortical/cancellous screws
- Limited contacts areas for increased vascular flow
- Lower profile and smooth rounded edges
- Anatomically shaped
- Deformation grooves
- Satin finish with polished threads
- Features a fixation hole for a 1,2 mm Kirschner drill wire

### 3 + 3 Holes, length 39 mm
- Right
  - 186101
- Left
  - 186102

### 3 + 3 Holes, length 64 mm
- Right
  - 186107
- Left
  - 186108

### 3 + 3 Holes, length 46 mm
- Right
  - 186103
- Left
  - 186104

### 3 + 4 Holes, length 74 mm
- Right
  - 186109
- Left
  - 186110

### 3 + 4 Holes, length 54 mm
- Right
  - 186105
- Left
  - 186106

### 4 + 5 Holes, length 85 mm
- Right
  - 186111
- Left
  - 186112

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[Image: Application example]

[Image: Pin fixation hole]
DOUBLE-COMPRESSION SCREW

Contrary to competitors, the thread flanks of both threads of the screws are directed towards each other. This prevents brittle bone fragments from occurring and thus also allowing the use in small fractures or large corrections. Maximum sustained compression* is achieved with the use of a small thread with larger thread flanks together with a highly conical thread head with aggressive flanks. The screws can be screwed flush with the bone and still have a large range of settings for the compression.

Further advantages
- The spicke wire fixation of the bone fragments offers a high degree of safety, especially when using smaller fragments
- It avoids unnecessary pre-drilling with normal bone density and is thus less traumatizing
- The screw is easier to reconstruct through the conical proximal end of the screw
- The complete system reduces the usual high number of operating steps needed by other systems on the market
- Less operating steps lead to shorter operating times; few instruments and no complex instrument sets result in a saving in sterilization costs

Indications
- Sacroiliac fracture/dislocation
- Isolated Processus Anconeus (IPA)
- Incomplete Ossification of the Condyle Humeri (IOC)

Specifications
- Made of Titanium, cannulated
- Self-drilling, self-tapping
- With double thread, tapered Ø 3/4 mm
- Self-sustaining Torx recording
- Separately packaged, non-sterile

Comparison compression
* Maximum sustained compression for primary stability

![Comparison compression graph](image)

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<td>191309</td>
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ACCESSORIES FOR DOUBLE-COMPRESSION SCREW

**Screwdriver Handle**
- Cannulated
- Integrated depth gauge (for measuring the screw length)
- Fits Torx piece (191313)
- Made of stainless steel with plastic handle
  191312

**Torx Torpedo Bit**
- Torx recording
- Cannulated
- Suitable for 191312 Screwdriver Handle and for canted double compression screws with thread diameter Ø 3/4 mm
- Made of stainless steel
  191311

**Target hanger**
- U-shaped
- Made of stainless steel
- Dimensions (in mm): 12 x 4.5
  191311

**Drilling sleeve**
- For canted double compression screws with thread diameter Ø 3/4 mm
- Fixable to Target hanger (191311)
  191314

**Kirchner Wire (Arthrodesis) – XL**
- Made from stainless steel
- Double ended trocar
- Dimensions (in mm): Ø 1.0 x L 160
- Pack of 10
  180760
360°-SUPPORT FOR AMAZONE AND JUMPER STOOL

- 360° rotatable arm/backrest that supports one or both arms and can also be used as a lumbar support
- Can be easily moved out of the way, as it is completely rotatable
- Height adjustable
- Optimum comfort with padded and seamless upper sides
- Color: Anthracite (K85)

The 360° support arm/backrest fits all Amazone and Jumper models.
610157

EICKSOFT EXAM GLOVES PINK

The disposable EickSoft latex gloves are the gloves of choice for your exam room.

- Oil and grease resistant
- Powdered
- Non-sterile
- 100 per pack

<table>
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<td>Large</td>
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ADJUSTABLE CATHETER KATKATH® 3,5FR

- Saves time and money: There is now no longer any need to purchase two separate catheters for flushing blocked cat and leaving a different catheter in place – the KatKath® is highly effective in both situations.
- Rotating suture collar
- To use the full 18 cm length simply remove the KatKlip and use as a standard KatKath®
- Extremely well tolerated
- Almost impossible to crush and is also highly resistant to kinking
- Radiopaque
- Easy placement
- No stylet required
- Atraumatic tip
- 10 per pack

451103
Optimal instrumentation with magnification and exclusive LEDHQ-illumination

The Slit Illumination Head allows optimal viewing with 1.6x magnification for a high-resolution image and clears the way for access during examinations of the ear canal and tympanum. The special optical interface precisely integrates the LED illumination with the optical system to ensure a bright and homogeneous light during examinations.

- Lifetime maintenance-free
- 1.6x magnification
- LED in HQ with continuous brightness control

Full functionality of the G 100 LED Slit Illumination Head is guaranteed with BETA Rechargeable Handles (BETA battery handle, BETA 4 USB rechargeable handle, BETA 4 NT rechargeable handle for NT 4 table charger) and the EN100/EN200 Wall Transformers.

300036

HEINE® NT 4 Li-ion Rechargeable Battery for NT 4 Handle

- Space-saving design
- Simultaneous loading of 2 handles possible
- With overcharge protection and charge indicator
- All BETA 4 NT Load Handles (for example 302553 BETA® 4 NT, Adapter included) and Beta® SLIM NT Load Handles (optional Reducer kit: 30255101) can be charged in the NT4 desktop charger with corresponding adapters or reducer sets
- Dimensions (in cm): B 14.2 x H 6.1 x T 6.6
- Weight: 235 g

302551

HEINE® BETA® 4 SLIM NT Handle

- Slim handle with automatic closure
- Incl. Li-ion Rechargeable Battery and Beta® 4 SLIM Base Unit
- Dimensions (in cm): H 13.5 x Ø 1.9
- Weight: 180 g

302536

Reduction Kit

- Suitable for Beta® 4 SLIM NT Loading Handles and F.O.® 4 Slim NT laryngoscope Loading Handle
- 2 Pieces

30255101

NOW with LED
Motic’s B1 series has long been a stalwart of reliable microscopy providing a solid platform for imaging. In this new B1 Elite version, we have upgraded it with new optics and mechanics normally only found in more expensive models, we have ensured this line’s competitiveness and performance well into the next decade.

## Technical data
- Observation Tube: Binocular, sliding type
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment: On both tubes, ±5 diopter
- Inclination: 45° inclined, 360° rotating
- Eyepiece: WF10X / 18 mm
- Stage: Built-in low position coaxial rackless mechanical stage with sample holder
- Stage size: 140 x 135 mm
- Mechanical stage X&Y range: 76 x 40 mm
- Upper limit stop: Preset and adjustable
- Condenser: Focusable 1,25 N.A. Abbe condenser with iris diaphragm
- Fine focus precision: 2 µm minimum increment
- Illumination: 3 W LED illumination with intensity control
- Power supply: 110 – 240 V
- Accessories included: Dust cover and immersion oil
- Dimensions (in cm): W 19 x D 24,5 x H 38
- Weight: 6,8 kg

## MOTICAM B1 ELITE

**DIGITAL LED MICROSCOPE**

**SWIFT 130X WITH MOTICAM X**

- Ergonomic and robust design
- Energy-efficient, cordless LED illumination
- Built-in carrying handle
- Built-in 3,0 MP camera
- LED battery level indicator

### Technical data
- Monocular head with built-in digital WiFi camera
- CMOS 1/3” chip, 1,3 MP, 1.280 x 1.024 pixels
- WiFi transmission: 1,3 MP
- Widefield eyepiece WF10X/18 mm
- Reversed quadruple revolving nosepiece
- Achromatic Semi-Plan objectives SP4X, 10X, 40X S
- Coaxial coarse and fine focusing system
- Built-in low position coaxial mechanical stage
- Spiral mounted 1,25 N.A. Abbe condenser with iris diaphragm
- Rechargeable LED illumination 20 mA, 3,5 V, 70 mW with intensity control
- Dust cover, immersion oil, charger and batteries included
- Dimensions (in cm): B 16,8 x T 23,4 x H 38
- Weight: 5,2 kg

**710009**
MOTICAM 3 PLUS
DIGITAL MICROSCOPE CAMERA

The Moticam 3 Plus has it all: speed, resolution and quality. It is equipped with a USB 3.0 for data transfer, ensuring a good response time. By connecting your Moticam to your computer you will be able to work with our well-known software that comes included in the package. View, capture, edit, measure, make reports... all its standard features and the new ones packed in a new user-friendly interface.

Technical data
- Sensor type and size: CMOS, 1/2”, Resolution: 3.0 MP
- Live Display Mode (through USB): 2.048 x 1.536 @ 12 fps, 1.024 x 768 @ 30 fps, 512 x 384 @ 50 fps
- Pixel Size: 3.2 µm x 3.2 µm
- Data Transfer: USB 3.0 (Compatible with USB 2.0)
- Exposure Time: 0.11 msec to 7 sec
- Supported OS: Microsoft Windows XP SP3/Vista/7/8/10 and MAC OSX & Linux
- Minimum Computer Requirements: 2 GHz dualcore; RAM memory 2 GB; Video memory min. 512 MB
- Lens Mount: C-Mount
- Power supply: 5 V (USB - supply)
- Operating Temperature: From -10 to +60 Degrees Celsius non condensing
- Package Includes: CS Ring Adaptor, Focusable Lens, 30 mm and 38 mm Eyepiece Adapters, USB 3.0 Cable, Calibration Slide, Macro Tube, Motic Images Plus 3.0 for PC/OSX/Linux

710020

LED 1000 HIGH INTENSITY
LIGHT SOURCE

High-quality, easy-to-use LED light source. The new generation of light sources for endoscopy.

- Low noise, low heat conduction
- Electronical light control via buttons
- Daylight quality
- Splashproof touch control panel

Technical data
- Lamp Type: High performance LED
- Colour Temperature: 6500 K
- Lifetime: > 20,000 hours
- Light guide connection
- Storz, Wolf adapter
- Power supply: 100 / 240 VAC (±10 %), 47 ... 63 Hz
- Fuses: 2 Fine fuses, 5 x 20 mm, delay 6,3 AT (I = 1500 A)
- Power consumption: Max. 100 VA (±10 %)
- Dimensions (in cm): B 35,5 x H 10,3 x T 25,3
- Weight: 4,5 kg

302989

EICKSORBER ANAESTHETIC GAS ABSORBER

Activated carbon filter to absorb organic anaesthetic gases.

- Connects to pressure relief valve. Thus preventing unwanted gases from entering room atmosphere.
- Replace filters after exceeding 1,000 g.
- Includes 2 m exhaust hose

213488
DIGIVET® DR PORTABLE FLAT PANEL DETECTOR (WI-FI) FOR DIGITAL RADIOGRAPHY

Versatile Portable Flat Panel Detector for Digital Radiography
The device is a portable flat panel detector for digital radiography in various applications such as ENT, equine, and cephalometry, etc. with active area of 10” x 12”. Its 124 µm pixel TFT sensor gives high resolution images and its Wi-Fi communication system provides fast wireless transfer speed. Inside AP™ enables customers to take X-ray examinations directly to a computer or a laptop with Wi-Fi connection. Furthermore, it offers reliable automatic X-ray exposure detection, Anytime™ which enables users to perform examination with any kinds of X-ray systems.

- Active area of 25 x 30 cm (10” x 12”)
- Various applications such as ENT, equine and cephalometry
- High spatial resolution with 124 µm pixel array
- Wi-Fi data transfer with dual band (2,4 GHz and 5 GHz)
- Stable and reliable automatic exposure detection (Anytime™)
- Direct communication with smart devices (Inside AP™)
- Viewer software running on Windows TM OS (VXvue™)

Technical data
- Scintillator: CsI: Tl
- Pixel pitch: 124 µm x 124 µm
- Spatial Resolution: 4 lp/mm
- Pixels: 2.048 x 2.560 pixels
- A/D Conversion: 16 bit
- Grayscale: 65.536 steps
- X-ray Voltage Range: 40 – 150 kVp
- Wireless Interface: IEEE 802.11n (2,4 GHz / 5 GHz dual band)
- Battery: Lithium Ion 3.100 mAh
- Dimensions (in cm): B 35 x L 28,7 x H 1,5
- Weight: approx. 2,2 kg

708460

TRIGGER SWITCH FOR HIRAY X-RAY MACHINE
This simple plug-and-play addition to your mobile HiRay unit allows you to take quick, stable and steady shots. Enables one-person operation of HiRay machine.

Simply attach the trigger switch on to the handle of your HiRay machine. Once X position is set - you press, in turn, the two buttons „Prep Mode” (right) and „Expose” (left) with your thumb while you continue to hold the unit by the handle.

- Camera shake is avoided because the buttons respond to slight pressure
- Indispensable for use of HiRay machine in a mobile equine practice

701119
INTRA VENOUS CATHETERS FOR HORSES

Special sizes optimized for equine practice!
Ensures a secure peripheral venous access.

- Flexible positioning vanes
- Transparent plastic colour-coded approach
- Combined luer lock attachment
- Cannulas visible on radiographs
- Latex free, DEHP-free and PVC free, 3 radiopaque stripes
- Individually sterile packaged
- Pack of 30

1.6 x 60 mm/16G – Gray, Flow 170 ml/min
050029

2.1 x 130 mm/14G – Orange, Flow 245 ml/min
050030

1.6 x 130 mm/16G – Gray, Flow 140 ml/min
050031

2.6 x 80 mm/12G – Blue, Flow 425 ml/min
050032

2.1 x 80 mm/14G – Orange, Flow 275 ml/min
050028

2.6 x 130 mm/12G – Blue, Flow 370 ml/min
050033

INFUSION SET FOR HORSES

- With 2 spikes, 100 ml burette and spiral tubing
- Easy removal by large volume hoses
- Includes long hose
- Max. Flow rate (with drip control): 0.15 l/min
- Max. Flow rate (without drip control): 0.5 l/min
- Tubing length: 505 cm
- DEHP-free
- Latex-Free
- Sterile
402135