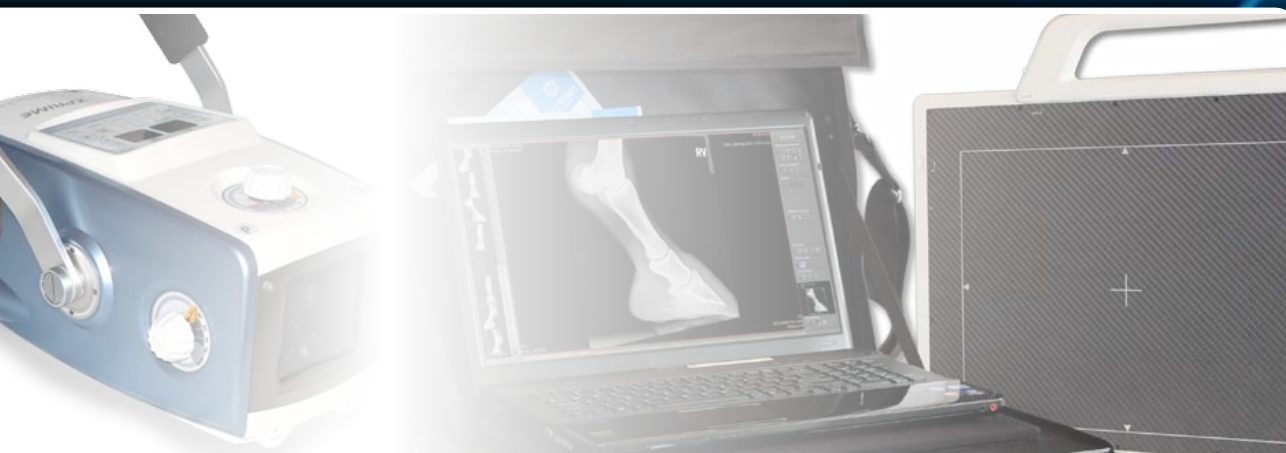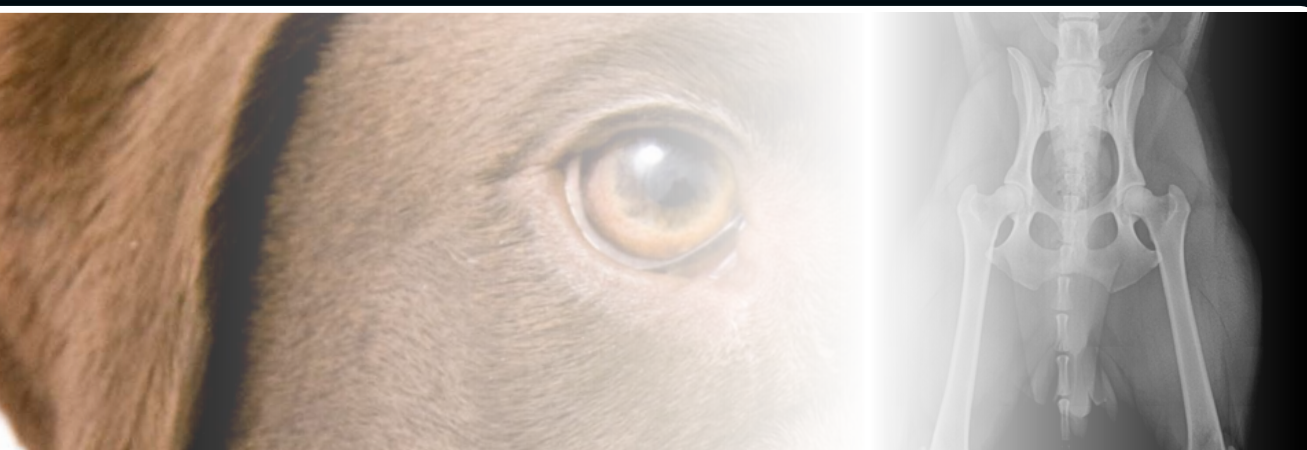medical **ECONE**t
GERMANY

Veterinary Product Catalogue

meX+20BT lite / meX+20BT / meX+40BT

The world's only hybrid powered portable X-ray

- **HYBRID** – Device can be operated by internal battery or by external power supply
- Great advantage for outdoor radiography
- Innovative approach by high performance lithium-ion polymer battery
- Up to 650 exposures by just one charging
- Strong body against external shock and contamination
- Exclusive remote controller using by hand switch
- Full charge only within 4 hours
- **OPTIONAL** – Bluetooth interface for generator control

BLUETOOTH OPTION

Hybrid powered

meX+20 lite / meX+20

Economical light weight portable X-ray

Light weight portable X-ray with higher power

- Light weight, compact size and durable cover
- High frequency technology enables clean diagnostic images
- Equipped with remote control functions by hand switch
- Auto distance control by dual laser
- Stable X-ray output with lowest ripple

- User-friendly handle bar for outdoor usage
- Flat touch panel, digital display, LED display reverse
- Constant X-ray output without influence of line power fluctuation
- Strong body against external shock and contamination
- 4 pre-set technique slots (PROM memory)

meX+40 / meX+60

High performance compact portable X-ray

- Universal units for radiography application for small animal and equine
- Light weight and compact size
- Exclusive remote control functions by hand switch

- Flat touch panel, digital display, LED display reverse
- 8 pre-set technique slots (PROM memory)
- Equipped with laser beam

Model	meX+20BT lite	meX+20BT	meX+40BT
Output			
Tube Vol./Current	90 kV / 20 mA	100 kV / 20 mA	100 kV / 35 mA
Voltage range	50-90 kV in 1 kV steps	40-100 kV in 1 kV steps	40-100 kV in 1 kV steps
mAs Range	0,4 mAs - 20 mAs 25 steps	0,4 mAs - 50 mAs 32 steps	0,4 mAs - 100 mAs 35 steps
Max. output	1,6 kW at 80 kV	1,6 kW at 80 kV	2,4 kW at 80 kV
X-ray Tube			
Application	OX / 70 CEI	Toshiba D-124	Toshiba D-124
Focal Spot	1,2 mm	1,2 mm	1,2 mm
Collimator			
	Max. Light field: 35 cm x 35 cm @ 65 cm SID		
Lamp	LED	LED	LED
Laser Pointer	dual laser	dual laser	dual laser
Features			
	7-segment LED read out reversible, Hand switch remote control function		
Exposures full charge	max. 560 at 80 kV / 2 mAs	max. 560 at 80 kV / 2 mAs	max. 650 at 60 kV / 3,2 mAs
Bluetooth Interface	optional	optional	optional
PROM Memory	15 APR	15 APR	21 APR
Weight	7,2 kg	11,2 kg	14,2 kg
Dimensions	203 x 174 x 307 mm	225 x 170 x 340 mm	250 x 214 x 349 mm

PXMS-1800 Mobile Stand

- Height-adjustable arm (max. height of 180 cm)
- Easy to dis/assemble for transportation by car

Model	meX+20 lite	meX+20	meX+40	meX+60	meX+100
Output					➡ (next page) ➡
Tube Vol./Current	90 kV / 20 mA	100 kV / 20 mA	100 kV / 35 mA	100 kV / 60 mA	110 kV / 100 mA
Voltage range	40-90 kV in 1 kV steps	40-100 kV in 1 kV steps	40-100 kV in 1 kV steps	40-100 kV in 1 kV steps	40-110 kV in 1 kV steps
mAs Range	0,3 mAs - 50 mAs 22 steps	0,3 - 50 mAs 22 steps	0,4 mAs - 100 mAs 25 steps	0,4 mAs - 100 mAs 25 steps	0,1 mAs - 100 mAs 40 st.
Max. output	1,6 kW at 80 kV	1,6 kW at 80 kV	2,4 kW at 80 kV	3,2 kW at 80 kV	5,0 kW at 75 kV
X-ray Tube					
Application	Toshiba D-124	Toshiba D-124	Toshiba D-124	Toshiba D-205B	CEI OX 110-15
Focal Spot	1,2 mm	1,2 mm	1,2 mm	2,0 mm	1,8 mm
Collimator					
	Min. Light field: 5 cm x 5 cm @ 1 m SID		Max. Light field: 35 cm x 35 cm @ 65 cm SID		
Lamp	50 W Halogen	LED	LED	LED	LED
Auto Timer	30 sec.	30 sec.	30 sec.	30 sec.	30 sec.
Laser Pointer	single laser	dual laser	dual laser	dual laser	dual laser
Features					
	7-segment LED read out reversible, Hand switch remote control function				
PROM Memory	4 APR	4 APR	8 APR	8 APR	750 APR
Weight	8,6 kg	9,8 kg	12,8 kg	14,6 kg	19,6 kg
Dimensions	230 x 192 x 340 mm	220 x 200 x 352 mm	250 x 195 x 355 mm	250 x 195 x 355 mm	254 x 225 x 423 mm

meX+100

Most powerful compact portable X-ray

- 5 kW, 110 kV / 100 mA
  (**specifications on previous page**)

- High-performance capacitor for stable and reliable power supply

- Equipped with remote control functions by hand switch

- Flat touch panel, digital display, LED display reverse

- Constant X-ray output without influence of line power fluctuation

- 750 pre-set technique slots (PROM memory)

- Automatic line voltage compensation

PXMS-2010

- Easy handling by gas spring technology

- Folding and easy to transport

- Max. height of 210 cm

Veterinary X-ray Table TKF & TKF-2

- Suitable for usage of analogue cassettes, CR and DR

- 4 - way - floating

- Scratchproof table top (162 x 75 cm / 149 x 64 cm)

- Removable X-ray grid (optional)

- Usable with different sizes of portable X-ray units

- Dimensions TKF: L x W x H: 162 x 96 x 210 cm

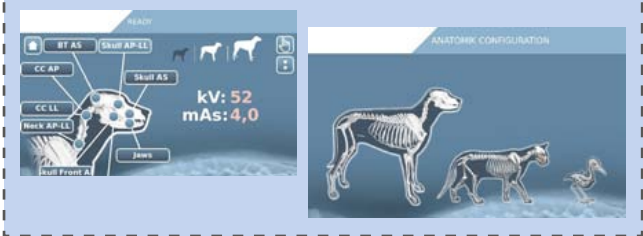   TKF-2: L x W x H: 149 x 86 x 200 cm

ECOray 400

High power X-ray system based on smart technology

- Powerful stationary X-ray system (32 kW) with integrated monoblock

- 4-way-floating table top (max. animal weight 200 kg)

- Colored 8,4" LCD operating touch screen

- Removable grid support

- High frequency technology enables clean diagnostic images

- Variable focal distance and X-ray source rotation (±90°) (optional)

8 anatomical areas / more than 1000 exams each area

kV: 52
mAs: 4,0

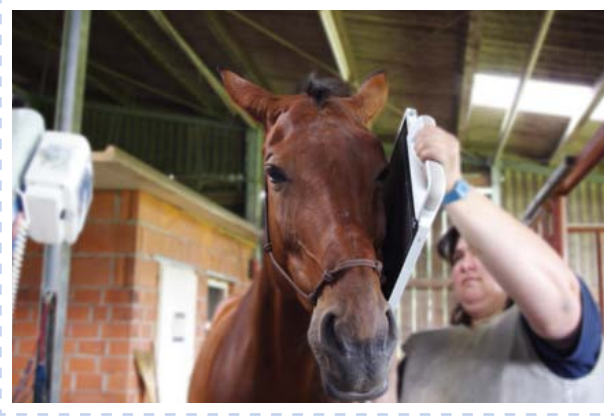| ECOray 400	Specifications
Output	
Tube Vol. / Current	125 kV / 400 mA
Voltage range	40 - 125 kV in steps of 1 kV
mAs Range	0,1mAs - 100 mAs (optional 250 mAs)
Max. output	32 kW at 100 kV
X-ray Tube	
Application	Kailong KL 65
Anode	Rotating
Focal Spot	0,6 mm small focus; 1,3 mm large focus
Nominal Power of Anode	16 kW small focus, 32 kW large focus
Features	
Display	8,4" LCD touch screen
Table Top	4-way-floating / 160 cm (base)
Casette holder	self centering (18 x 24 cm to 43 x 43 cm)
APR techniques	1800 combination possibilities
	3 patient sizes selectable
	Focal spot selection

meX+ 1012 WCA

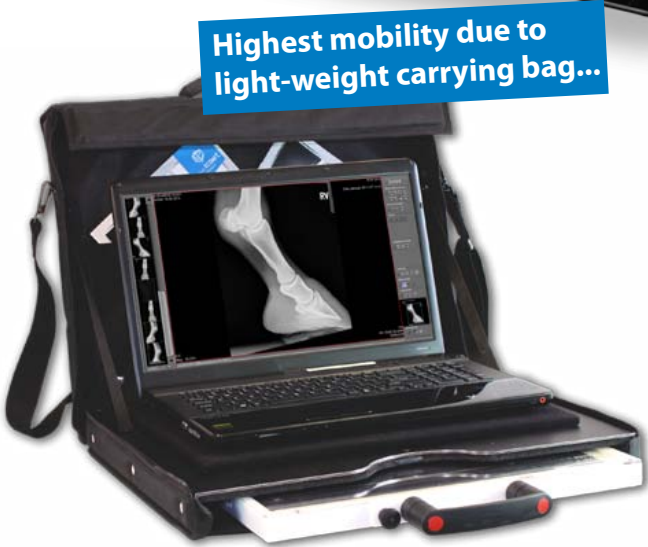**Wireless and portable DR flat panel**

- **WIFI** – Complete Wireless solution with high performance Li-Ion battery
- **AED** – No interface work needed, usage possible with any X-ray system due to Automatic Exposure Detection
- **AP (ACCESS POINT) MODE** – Direct wireless communication between detector and workstation
- Excellent image quality due to Amorphous Silicon with CsI-Scintillator (Resolution 5 Megapixel)
- Only 3,6kg for convenient and flexible use
- Great advantages for outdoor radiography and mobile applications
- Exchangeable positions of handle bar
- Up to 3 hours run time with one battery
- Perfect equine solution in combination with hybrid powered portable X-ray

WIFI

AED
Automatic
Exposure
Detection

Unlimited flexibility without any cables

1012 WCA	Specifications
Data Interface	**wireless**
Sensor Type	Amorphous Silicon with TFT
Dimensions	395 x 337 x 18 mm (not incl. handle)
Active Pixel Area	259 mm x 320 mm
Weight	3,6 kg (incl. battery & incl. handle)
Pixel Number	2080 x 2560 pixels
Pixel Pitch	127 μm
Resolution	3,9 lp / mm
Energy Range	40 - 150 kV
A / D Conversion	14 bits
Image Acquisition Time	7 sec.
Battery type	Lithium ion battery (3500 mAh)
Running Time	up to 3 hours with one battery
Scintillator	Cesium-Iodide (CsI)
Including	2 Batteries & DR Carrying Bag

Highest mobility due to light-weight carrying bag...

... for save and pleasing transportation.

meX+1012 WCA is a revolutionary digital X-ray detector specially designed for mobile applications. With its powerful 3500 mAh battery the panel is able to provide long lasting performance without any disturbing cable set.

With a weight of 3,6 kg (including the battery) and an active area of 26 cm x 32 cm the detector provides a convenient handling for every kind of mobile use. The equipped CsI-Scintillator and a dynamic range of 14 bit ensures high efficiency and superb image quality at low doses.

meX+ 1417 WGC

meX+ 1417 WCC

Wireless most versatile DR flat panel

meX+ 1417 PGA

meX+ 1417 PCA

Universal digital image processing unit

AED
Automatic Exposure Detection

AED
Automatic Exposure Detection

WIFI

- **WIFI** – Complete Wireless solution
- **AED** – Automatic Exposure Detection (no triggering needed)
- **AP (ACCESS POINT) MODE** – Direct Wi-Fi communication between detector and workstation
- CASSETTE SIZE – Ultra thin 36cm x 43cm Retrofit Solution
- UNIVERSAL – Suitable for mobile and stationary use
- SUPERIOR IMAGE QUALITY – Due to 127µm and 3,9 line pairs / mm

1417 WGC / WCC	Specifications
Data Interface	**wireless**
Sensor Type	Amorphous Silicon with TFF
Dimensions	384 x 460 x 15,4 mm
Active Area	357,6 x 422,7 mm
Weight	3 kg
Pixel Number	2756 x 3268 pixels
Pixel pitch	127 µm
Limiting Resolution	3,9lp / mm
A/D Conversion	14 bit
Battery Type	Lithium ion battery (3500 mAh)
Energy Range	40 - 150 kV
Scintillator	Gadolinium Oxysulfide (Gadox) or Cesium-Iodide (CsI)
Including	2 Batteries & DR Carrying Bag

Compact, robust & light-weight solution

Mobile solution with DR carrying bag

As table solution due to cassette size

- **UNIVERSAL** – Suitable for mobile and stationary use
- **CASSETTE SIZE** – Ultra thin (15,9 mm) DR flat panel with same size as film cassette or CR Image Plate
- **AED** – No interface work with X-ray generator needed, due to Automatic Exposure Detection
- Available with Gadox and CsI scintillator
- Superb-crystal image resolution and fast acquisition time within 7 Seconds
- Large imaging area (36 cm x 43 cm) for all general radiographic exams
- Removable handle for flexible use

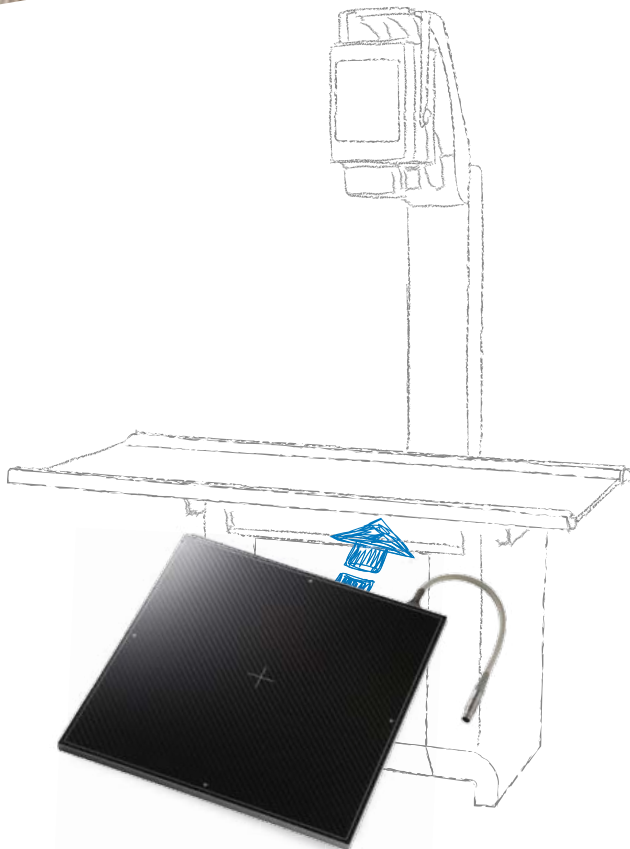| 1417 PGA / PCA	Specifications
Data Interface	**wired**
Sensor Type	Amorphous Silicon With TFT
Dimensions	460 x 417 x 15,9 mm
Active Pixel Array	358 x 423 mm
Weight	3,6 kg (with handle bar)
Pixel Pitch	127 µm
A/D Conversion	14 bit
Pixel Number	3268 x 2756 pixels
Resolution lp/mm	3,9
Scintillator	Gadolinium Oxysulfide (Gadox) or Cesium-Iodide (CsI)

meX+ 1717 SGC

meX+ 1717 SCC

Digital retrofit panel for stationary X-Ray

AED
Automatic Exposure Detection

- **IMAGE AREA** – Largest imaging of 43 x 43 cm allows examine of several body parts in one shot

- **RETROFIT** – Easy upgrade to DR without any change in conventional X-ray systems

- **AED** – No interface work, usage possible with any X-ray system due to Automatic Exposure Detection

- Ultra-flat (15,5mm) DR detector with same size as film cassette or CR Image Plate

- Highest image resolution by decreased radiation dose

- Low weight and quick image acquisition time

1717 SGC/ SCC	Specifications
Data Interface	**wired**
Sensor Type	Amorphous Silicon With TFT
Dimension	460x460x15,5mm
Active Pixel Area	423 x 423 mm
Weight	4,4kg
Pixel Pitch	127 µm
Limiting Resolution	3,9 lp / mm
A / D Conversion	14 bit
Pixel Number	3328x3328 pixels
Energy Range	40 - 150 kV
Scintillator	Gadolinium Oxysulfide (Gadox) or Cesium-Iodide (CsI)

meX+ CR

Compact and flexible CR solution

- Crystal-clear image quality
- Fast scan procedure– up to 50 plates per hour
- Ultra-light, compact and wall-mountable
- New strong, robust cassettes
- No bending of imaging plate
- Accommodates three standard CR cassette sizes
- Automatic cassette & plate handling
- One step, integrated scanning & erasing
- Rugged, torsion stabilized optics
- Fanless system prevents dust contamination
- Quiet, stable & low-maintenance

Space saving solution due to wall mounting option

Cassette sizes:

- 35 cm x 43 cm
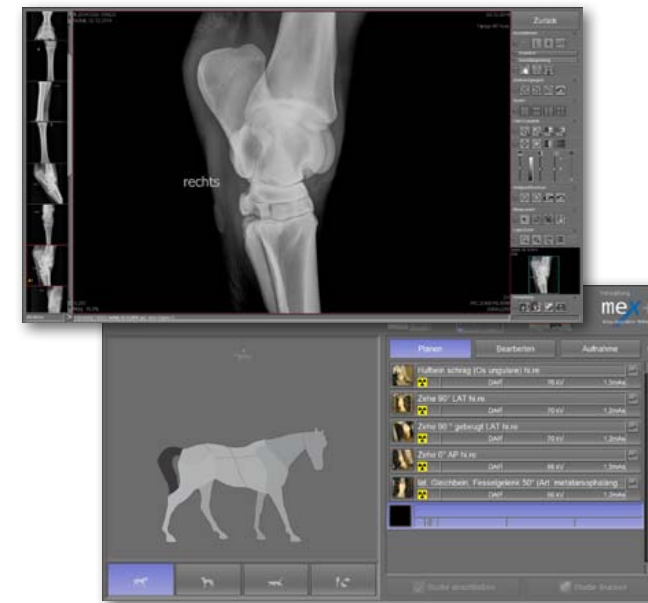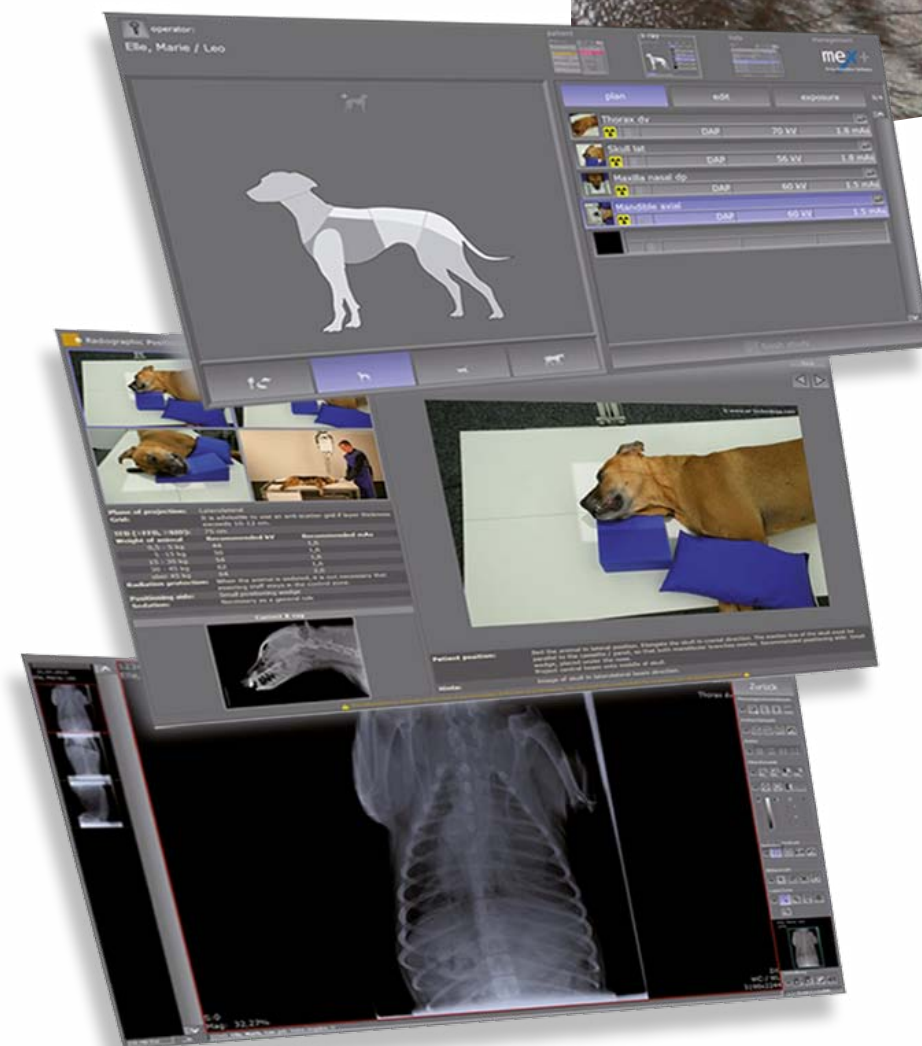- 24 cm x 30 cm
- 18 cm x 24 cm

meX+CR	Specifications
Selectable Pixel Size	High: 100µm – Standard: 200µm
Throughput	Up to 50 plates hour
Resolution	16-bits per pixel, 65.535 grey tones
Dimensions (H x W x D)	137mm x 456mm x 803mm
Weight	21 kg
Including	Wall mounting, 2 cassettes

meX+ Image Acquisition Software

**High innovative and user-friendly way
of image acquisition and processing**

meX+ is an advanced acquisition software for the creation, handling and processing of X-ray images. A simple and user friendly GUI (graphical user interface), operated by touchscreen or mouse, completes the comfortable work with that system. It has been specially developed to enable organ specific optimization, guaranteeing the highest quality X-ray images. In addition meX+ allows the integration with existing patient management systems.

The meX+ image acquisition software forms the core of Medical Econet's digital and computed radiography devices, whether it is a retrofit upgrade of an existing X-ray machine or a complete new installation of a mobile or stationary radiography system.

• Simple and perfect images at all time
• Integrated automatic image optimization
• Touchscreen function for easy operating
• Fully integrated radiographic positioning guide
• Bones and soft tissue in one image
• Including Patient CD and DICOM Send function
• Adaption of almost every language possible
• Modern graphical user interface
• Safe and fast registration of emergency patients
• Entry of recurring examination procedures as macros

Available languages:
German, English, French, Spanish, Italian, Latvian, Lithuanian, Estonian, Bosnian, Japanese, Portuguese, Czech, Polish

Optional Modules

meX+ DICOM Worklist SCU + Connect
Query of a DICOM worklist provided by a patient management system, HIS or RIS. Connection of a management software by BDT/GDT or special OR.INI files.

meX+ DICOM Basic Print
Image export to one or more DICOM basic print enabled printers, e.g. laser imagers

meX+ Backup Modul
Enables data backup on a variety of media e.g. CD or DVD, incl. a restoration software
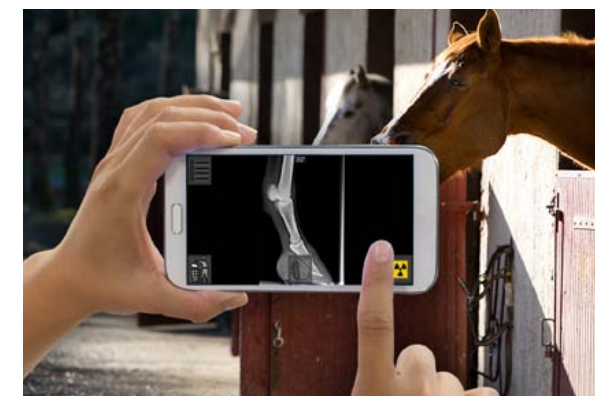
meX+ Image Stiching
Manual merging of images, e.g. for displaying full spine and full leg exams

meX+ MobileView
Comfortable displaying of images on different mobile devices like tablet PCs, netbooks or desktop PCs

meX+ Remote Control
Remote control of the software employing iOS or Android on smartphones and tablets. Fast check of images saves time and optimized the workflow

COMPACT Series

Monitoring for vet application

- Portable color multiparameter monitors
- Measuring of ECG, SpO2, heart rate, NiBP, Respiration, Temperature (opt.), IBP (opt.) and EtCo2 (opt.)
- Including rechargeable battery for mobile application
- Up to 168 hours trend data storage and alarm storage
- Alarm function for all parameters
- Equiped with Suntech® bloodpressure module

Compact 3   Compact 5   Compact 7   Compact 9

ECOspin III

Compact Table Top Centrifuge

Equipped with a 12 - angle rotor for tubes with a volume of 15 ml and a max. RCF of 2.400 g, the ECOspin III is the optimal device for daily work in veterinary clinics.

The ECOspin III centrifuge needs just little storage place and is very easy to use. The last selected setting for rotational speed and time can be saved. It is ready to use at the touch of a button.

- 12 - fold fixed-angle rotor for 15ml tubes
- Brushless Motor with electronic speed control by 300-45000 rpm
- Digital adjustment of operating time and rotating speed
- Hygienic membrane keyboard
- Electro-magnetic lid lock
- Dimensions (LxWxH): 255 x 245 x 140 mm | Weight: ca. 6 kg

Specifications	Compact 3	Compact 5	Compact 7	Compact 9
ECG	✗	✓	✓	✓
NIBP	✓	✓	✓	✓
Heart rate	✓	✓	✓	✓
SpO2	✓	✓	✓	✓
Respiration	optional	✓	✓	✓
Temperature	optional probe	optional probe	optional probe	optional probe
EtCO2	optional module	✗	optional module	optional module
IBP	✗	✗	optional kit	optional kit
Display	4,3"	7"	10,4"	12,1"
Dimensions	W 187 x H 131 x D 60 mm	W 238 x H 175 x D 155 mm	W 270 x H 184 x D 250 mm	W 322 x H 250 x D 224 mm
Thermal Printer	✗	✓	✓	✓
Weight	1 kg	3,1 kg	4 kg	4,5 kg

Service & Support

medical ECONET provides not only high quality products, but place also importance in satisfying service and support.

- Warehouse, workshop, deliveries, spare parts, sales advices, technical service and support completely at / from our headquarter in Oberhausen / Germany
- In-house technical and product training
- Bridging devices / Technical support on side
- Provision of demo units / Dummy devices for exhibitions
- Support for product demonstrations on site

Company Profile

medical ECONET is one of Europeans leading supplier of Imaging and Digital Radiography solutions with know-how of almost 20 years experience.

With our flexible and innovative technologies we advance steadily new fields of applications and in the meanwhile we look back at hundreds mobile and stationary installations in human medicine and veterinary field.

Our unique range of products with highest quality standards in combination with our professional services, enable us to offer the adequate solution for our clients' needs and demands all over the world.

Those needs, wishes and experiences are our inspiration for new developments and improvements to ensure the users' satisfaction in all various situations.

medical ECONEt

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*All specifications are subject to change without notice.

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