

medical **ECONET**  
GERMANY

## Veterinary Product Catalogue



# HYBRID PORTABLE X-RAY

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



Hybrid  
powered

Model	meX+20BT lite	meX+20BT	meX+40BT
<b>Output</b>			
Tube Vol./Current	90kV / 20 mA	100kV / 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
<b>X-ray Tube</b>			
Application	OX / 70 CEI	Toshiba D - 124	Toshiba D - 124
Focal Spot	1,2 mm	1,2 mm	1,2 mm
<b>Collimator</b>			
Max. Light field: 35 cm x 35 cm @ 65 cm SID			
Lamp	LED	LED	LED
Laser Pointer	dual laser	dual laser	dual laser
<b>Features</b>			
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
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



**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
- Clear durable light technology due to LED collimator
- User-friendly handle bar for outdoor usage
- Flat operation touch panel with LCD display
- 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 operation touch panel with LCD display
- 8 pre-set technique slots (PROM memory)
- Equipped with dual laser beam and LED collimator

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



# MOBILE & STATIONARY X-RAY

## 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
- Clear durable light technology due to LED collimator
- Flat operation touch panel with LCD display
- Constant X-ray output without influence of line power fluctuation
- Equipped with anatomic programme with 750 pre-set technique slots (PROM memory)



## 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

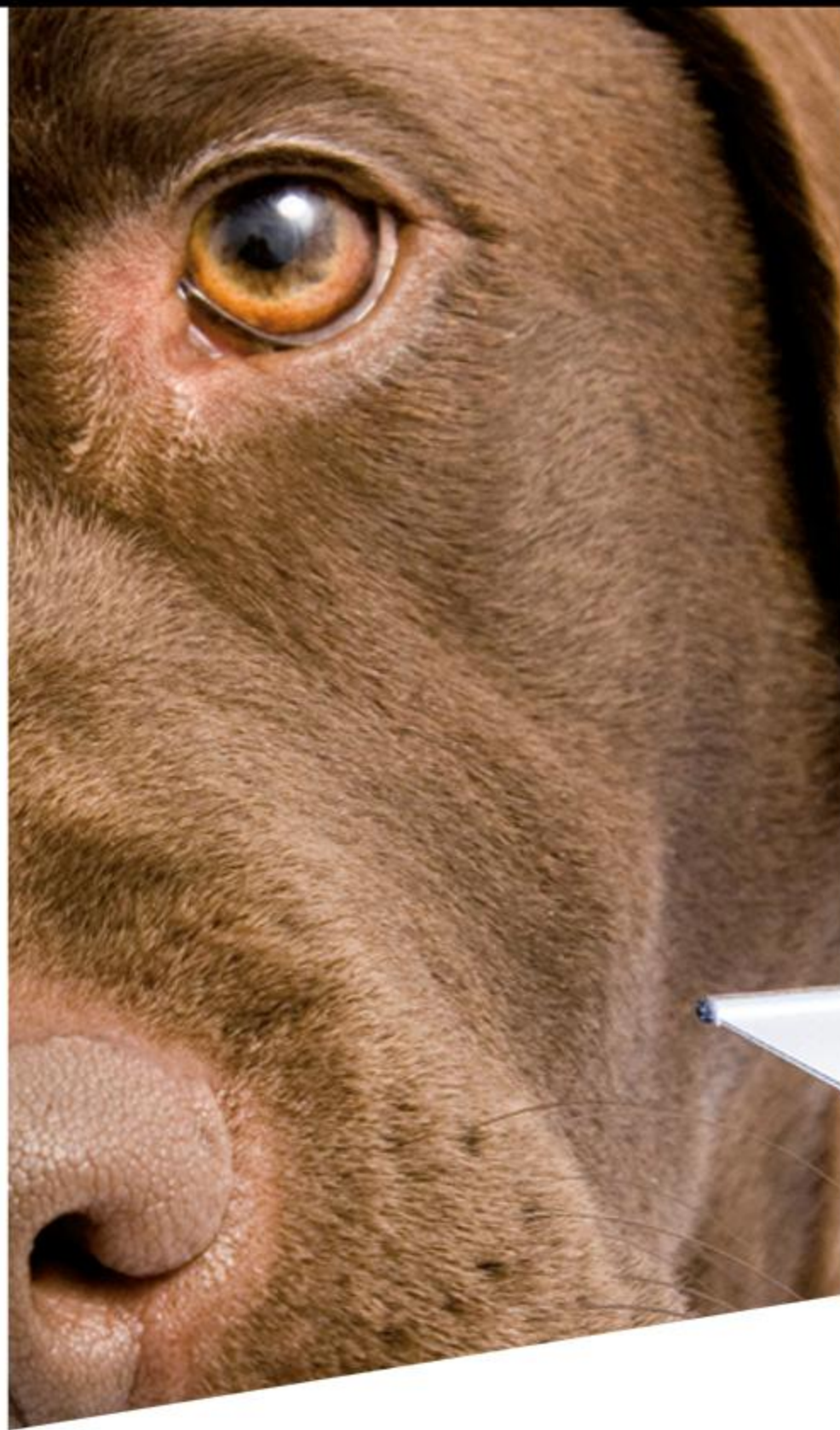
- Suitable for usage of analogue cassettes, CR and DR
- 4-way-floating
- Scratchproof table top (162 x 75 cm / 149 x 64 cm)
- Removable X-ray grid (optional)
- Usable with different sizes of portable X-ray units
- Dimensions TKF: L x W x H: 162 x 96 x 210 cm  
TKF-2: L x W x H: 149 x 86 x 200 cm





## EORay 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 ( $\pm 90^\circ$ ) (optional)

8 anatomical areas /  
more than 1000 exams each area



## EORay 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)
Cassette holder	self centering (18x24cm to 43x43 cm)
APR techniques	1800 combination possibilities
	3 patient sizes selectable
	Focal spot selection



## meX+1012WCC

Newest generation of wireless & portable DR flat panel



- **Lightweight** – Only 1,7kg (incl. battery)
- **Superb Image Quality** by low dose with Csl-Scintillator
- **Water-Resistant** – Protection against water impact (IPX6)
- **AP (ACCESS POINT) MODE** – Direct wireless communication between detector and workstation
- **OLED Display** – Indication of panel, connection and battery status
- **Long-Term Operation** – Up to 4 hours with one battery
- **Durability** – 300kg load capacity



Highest mobility due to light-weight carrying bag

1012WCC	Specifications
Interface	wireless
Sensor Type	Amorphous Silicon with TFT
Dimensions	328x268x15 mm
Active Pixel Area	228 mmx 293 mm
Weight	1,7 kg (incl. battery)
Pixel Number	2264x 1752 pixels
Pixel Pitch	127 µm
Resolution	3,9 lp/mm
Energy Range	40 - 150 kV
A/D Conversion	14 /16 bits
Image Acquisition Time	5 sec. (Preview 2 sec.)
Battery type	Lithium ion battery (3500 mAh)
Running Time	up to 4 hours with one battery
Scintillator	Cesium-Iodide (CsI)
Including	2 Batteries & DR Carrying Bag







### Equine Practice Dr. Kapaun

„Since seven years I already work with a mobile radiography solution of medical ECONET. Why I decided now once again for such system is obvious.

The modern and user-friendly interface of the software enables me an easy handling without any specific IT knowledge. The matching DR Carrying Bag for detector and laptop is extremely compact and space-saving. The complete comfort of the battery-typed portable X-ray generator together with the light-weight DR flat panel, I don't want to miss anymore. The combination of those mentioned components limits the amount of work to the bare necessary steps and this saves a lot of time during my daily horse examinations.

Most important argument for me was the image quality, which is absolutely excellent at the meX+ system. Before my purchase I compared different provider and noticed, that the sharpness, contrast and the detailed image impression of the meX+ Image Acquisition Software convinced me most. Based on that I can recommend my current X-ray system with full conviction to every other equine vet.”

#### System:

X-ray generator:	meX+20BT lite
DR detector:	meX+1012WCC
Software:	meX+ Image Acquisition Software

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meX+1417 WGC

meX+1417 WCC

Wireless most versatile DR flat panel



- **Universal** – Suitable for mobile and stationary use
- **Superior Image Quality** – Due to 127µm and 3,9 line pairs / mm
- **Water-Resistant** – Protection against water impact (IPX6)
- **AP (Access Point) Mode** – Direct Wi-Fi communication between detector and workstation
- **OLED Display** – Indication of panel, connection and battery status
- **Cassette Size** – Ultra thin 36cm x 43cm Retrofit Solution
- **Durability** – 300kg load capacity

1417 WGC / WCC	Specifications
Interface	wireless
Sensor Type	Amorphous Silicon with TFF
Dimensions	384 x 460 x 15 mm
Active Area	358 x 423 mm
Weight	3 kg
Pixel Number	2756 x 3268 pixels
Pixel pitch	127 µm
Resolution	3,9lp / mm
A/D Conversion	14/16 bit
Image Acquisition time	5 sec. (Preview 2 sec.)
Battery type	Lithium ion battery (3500 mAh)
Running time	up to 4 hours with one battery
Scintillator	Gadolinium Oxysulfide (Gadox) or Cesium-Iodide (CsI)
Including	2 Batteries & DR Carrying Bag



Compact, robust & light-weight solution





## Veterinary Practice at Nievenheimer See Dr.med.vet. Werner J. Meuser

„In my vet clinic I treat various animal species, therefore I decided three years ago for a DR system of medical ECONET, which I could use for all current X-ray examinations.

The size of the detector enables the usage as stationary X-ray solution for pets and exotic animals as well as mobile solution for examinations outside my practice. Together with the wireless generator meX+20BT lite I can work in any horse stable fast and flexible.

However due to the implemented Automatic Exposure Detection I can easily switch between my two generators, as the detector is not bound to any specific source of radiation. Back in my practice I put the panel in the X-ray table and can directly go ahead with new exposures.

The meX+ System convinced me also by its brilliant image quality, for both parts of bones and soft tissues. The image acquisition software includes many useful and necessary possibilities of image processing, which is absolutely important for me to make a correct diagnosis.”

### System:

X-ray generator:	meX+20BT lite
DR detector:	meX-1417 WGC
Software:	meX+ Image Acquisition Software

Veterinary Practice at  
Nievenheimer See  
Dr. med. vet. Werner J. Meuser

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## meX+1012WCA

Most economic 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

1012WCA	Specifications
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



- Excellent image quality due to Amorphous Silicon with CsI-Scintillator (Resolution 5 Megapixel)
- Exchangeable positions of handle bar
- Perfect equine solution in combination with hybrid powered portable X-ray

Unlimited flexibility  
without any cables





mex+ 1417 PGA

mex+ 1417 PCA

Universal digital image processing unit

**AED**  
 Automatic  
 Exposure  
 Detection

- **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

**Mobile solution with  
 DR carrying bag**

**As table solution due  
 to cassette size**
**1417 PGA / PCA****Specifications**

Data Interface	<b>wired</b>
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

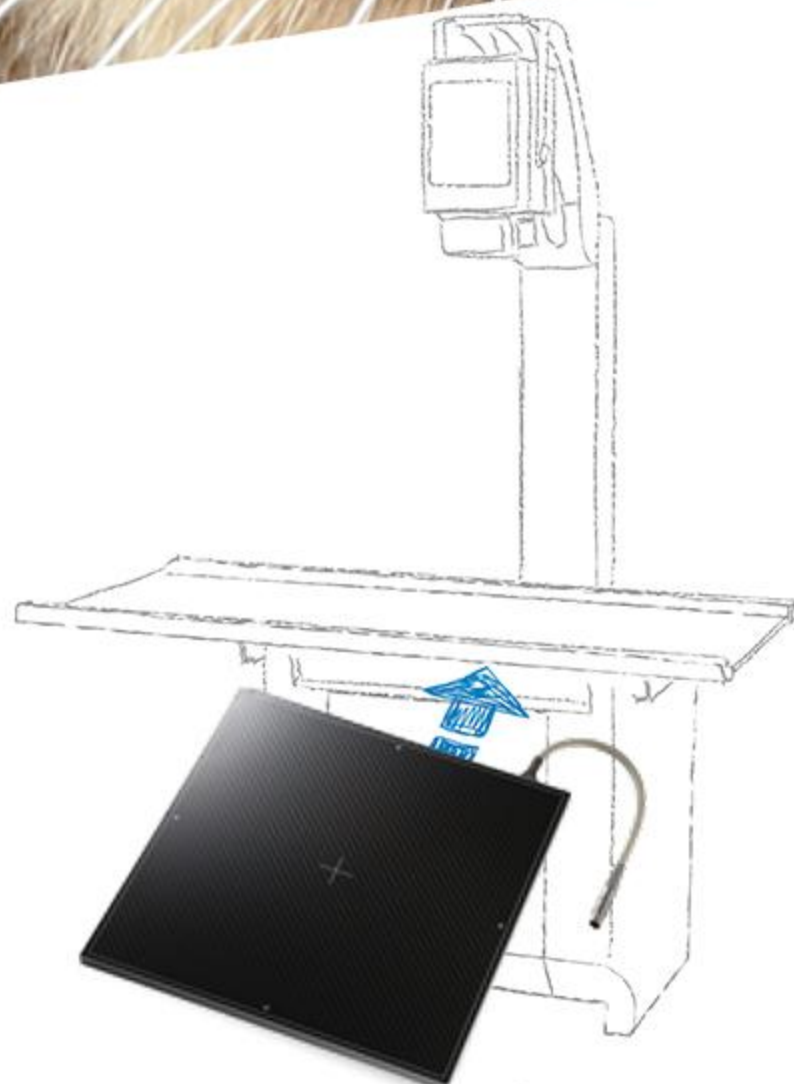
**AED**

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)



**Cassette sized detector fits in every standard table bucky**





## Veterinary Practice Dr.med.vet. Marco Germann

"Since 2015 we work now with the combination of the stationary X-ray generator ECOray 400 and the small animal DR system meX+1717SGC.

The installation and instruction were quick and clearly understandable. Based on the simple and user-friendly handling of the generator as well as the meX+ acquisition software, the whole system was immediately integrated into our daily workflow.

The images are constantly excellent and the numerous options of the acquisition software make diagnosis and post-processing very easy. Due to the simplicity of that system X-ray is really fun: We save much time for the requirements of our daily practice work!

With any question we can contact the team from medical ECONET at any time and they help us quick and uncomplicated.

In fact our daily routine has improved immensely since we work with this radiography solution."

### System:

X-ray generator: ECOray 400  
DR Detector: meX+1717SGC  
Software: meX+ Software

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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



### Cassette sizes:

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



**Space saving solution  
due to wall mounting option**

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	19,5 kg
Including	Wall mounting, 2 cassettes





## Veterinary Practice Dr.med.vet. Rüger

"Since March 2017 I work with the meX+CR system from medical ECONET in the meanwhile. I use the CR scanner mounted at the wall and in combination with the All-In-One PC it is a nice space-saving solution for my X-ray room. It gives me the possibility to get a first view of the patient's state directly on site. Practically the CR cassette will be scanned and erased in one step, so that I can use it immediately for next exposures of the animal, if necessary.

The integrated meX+ Image Acquisition Software has an automatic image optimization, which simplify to make constantly good X-ray images without any specific adjustments. I can forward those images easily by email, on CD or USB memory stick to other colleagues or the animals' owners.

With the change from our former analogue film developer to the meX+CR, also the daily workflow in our practice changed very positively and enables us new time capacities for the treatment of our patients.

For any questions or difficulties we can contact medical ECONET, who always offers help and advice in a fast and uncomplicated way."

### System:

CR scanner: meX+CR  
Software: meX+ Image Acquisition Software

Tierarztpraxis Rüger

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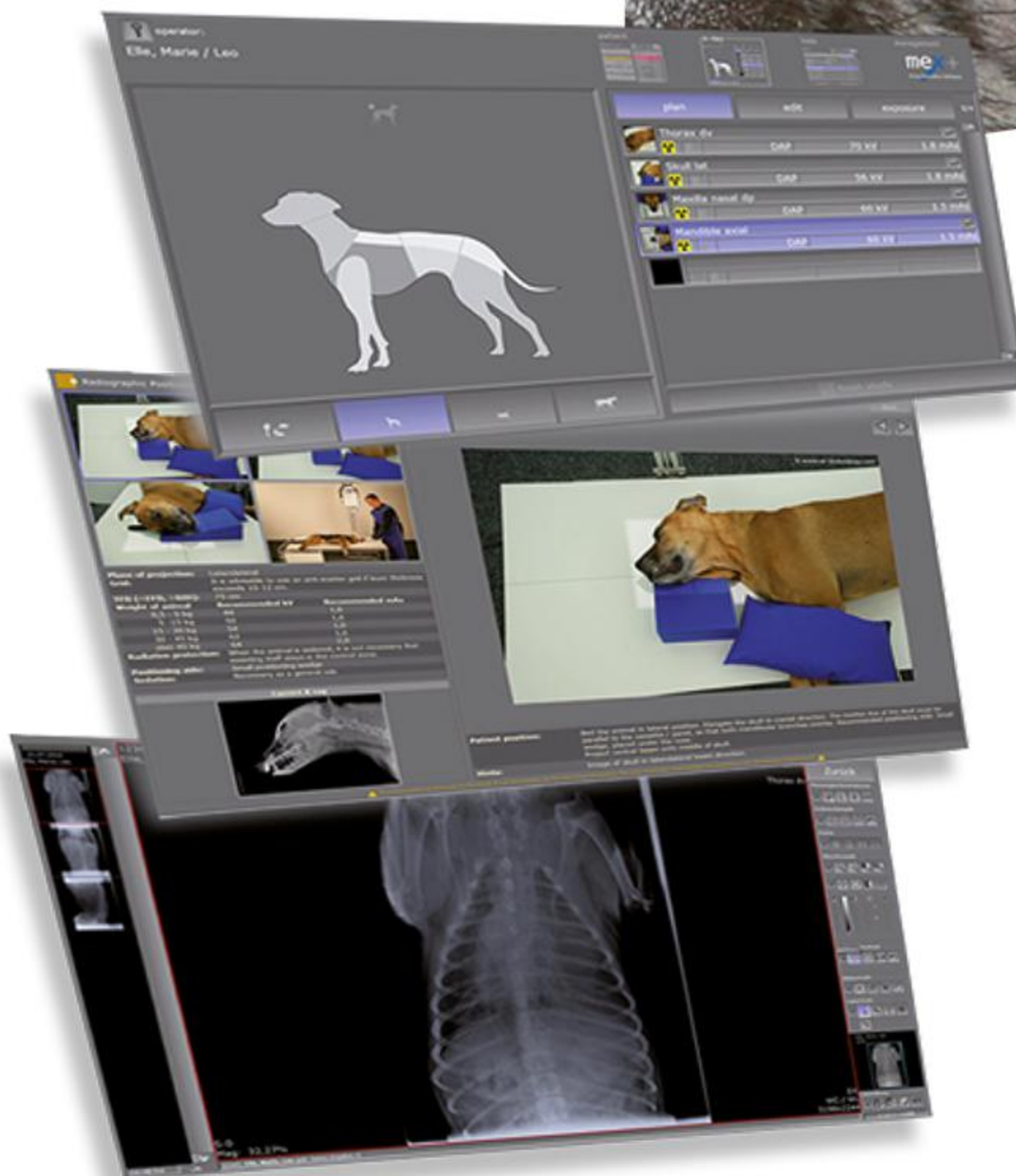


## meX+ Image Acquisition Software

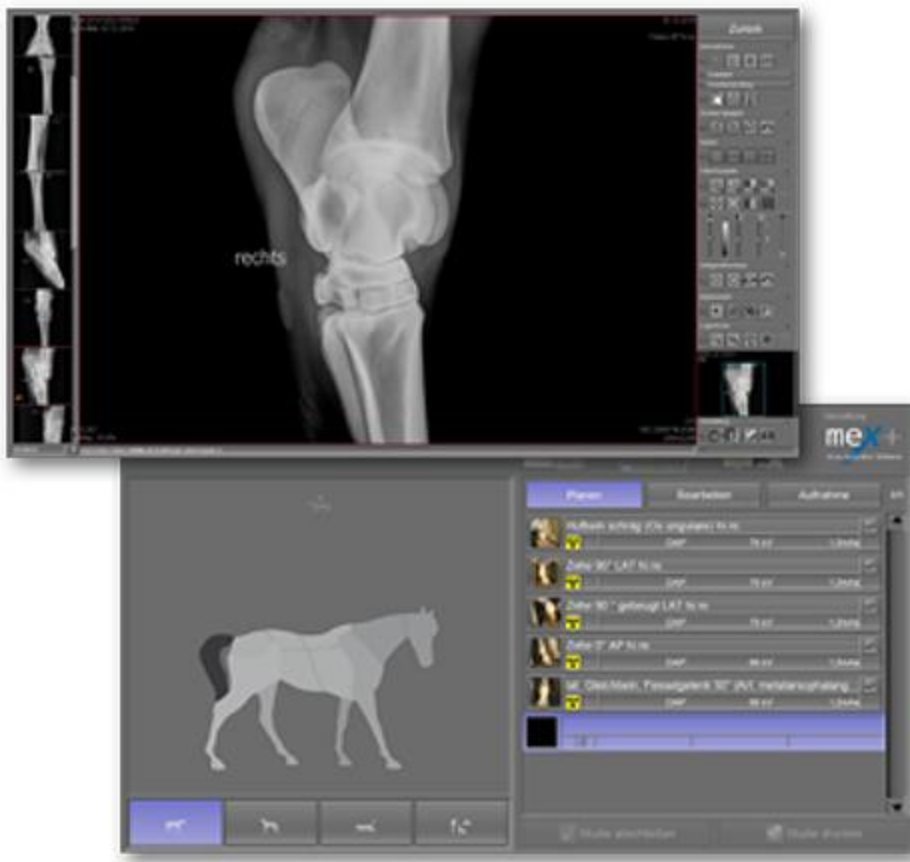
**High innovative and user-friendly way  
of image acquisition and processing**

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, Hungarian, Russian, Chinese

## 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 Sticking

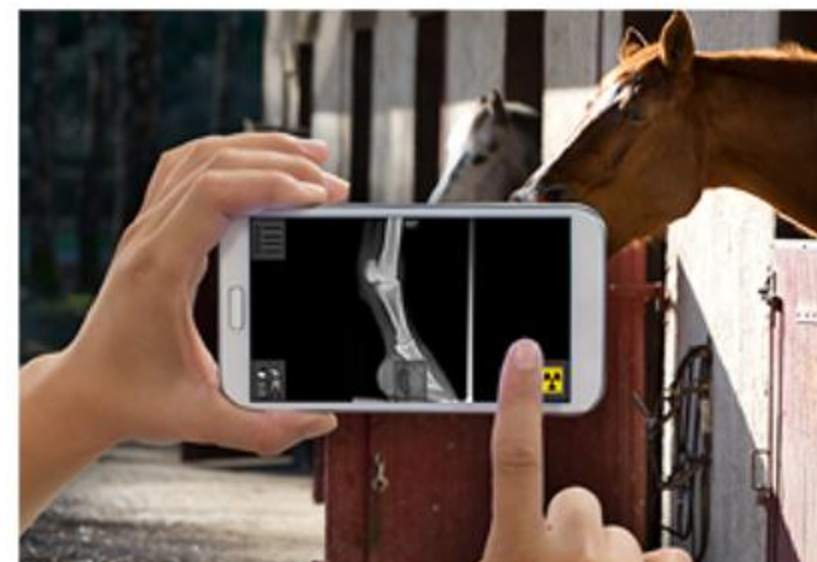
Manual merging of images, e.g. for displaying full spine and full leg exams

#### 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 smart-phones 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
- Equipped with Suntech® bloodpressure module



Compact 5



Compact 7



Compact 9

Specifications	Compact 5	Compact 7	Compact 9
ECG	✓	✓	✓
NIBP	✓	✓	✓
Heart rate	✓	✓	✓
SpO2	✓	✓	✓
Respiration	✓	✓	✓
Temperature	optional probe / one channel	optional probe / two channels	optional probe / two channels
EtCO2	✗	optional module	optional module
IBP	✗	optional kit	optional kit
Display	7"	10,4"	12,1" Touchscreen
Dimensions	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	3,1 kg	4 kg	4,5 kg



## mex+ dentX

### Compact dental CR reader

- Rapidly view high-quality digital X-ray images
- Supported IP Sizes: 0, 1, 2, 3, 4, 4c
- Selectable Pixel Size: High: 35µm • Standard: 64µm
- Sampling Pixel Pitch (35µm): 14.3 lp/mm
- Readout time: 4.1 ~ 7.2 sec
- Resolution: Data Capture: 16-bits per pixel, 65,000 graytones
- Eraser: Embedded
- Dimensions: (H x W x D): 265 x 120 x 318 mm
- Weight: 5,5 kg
- Image File Formats: DICOM 3.0, TIFF, BMP, JPEG



### 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



Watch our product movies on



**„stationary X-ray“**  
Duration: 2:31



**„mobile X-ray“**  
Duration: 2:41



**„Computed Radiography“**  
Duration: 2:35



## Company Profile



medical ECONET is one of Europe's leading suppliers of Imaging and Digital Radiography solutions with know-how of over 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.



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