

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



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	Canon D-124	Canon 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
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
Certification	CE 0123 MDD	CE 0123 MDD	CE 0123 MDD

PXMS-1800 Mobile Stand



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

meX+20

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
Output				➔(next page)➔
Tube Vol./Current	100 kV / 20 mA	100 kV / 35 mA	100 kV / 60 mA	110 kV / 100 mA
Voltage range	40 - 100 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
mAs Range	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 steps
Max. output	1,6 kW at 80 kV	2,4 kW at 80 kV	3,2 kW at 80 kV	5 kW at 75 kV
X-ray Tube				
Application	Canon D - 124	Canon D - 124	Canon D - 205B	OX / 110-3
Focal Spot	1,2 mm	1,2 mm	2,0 mm	1,5 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	LED	LED	LED	LED
Laser Pointer	dual laser	dual laser	dual laser	dual laser
Features				
7 - segment LED read out reversible, Hand switch remote control function				
PROM Memory	4 APR	8 APR	8 APR	750 APR
Weight	9,8 kg	12,8 kg	14,6 kg	19,6 kg
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
Certification	CE 0123 MDD	CE 0123 MDD	CE 0123 MDD	CE 0123 MDD

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



- Mobile stand for meX+100
- 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



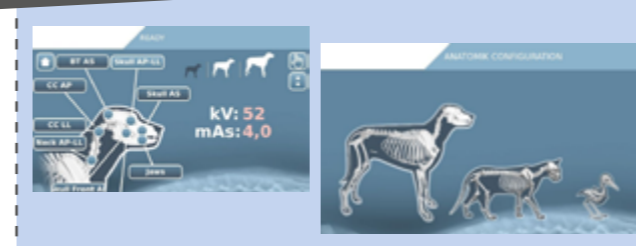
ECOray 400

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

8 anatomical areas / more than 1000 exams each area



Specifications ECOray 400

Specifications		ECOray 400
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 (18x24 cm to 43x43 cm)	
APR techniques	1800 combination possibilities	
	3 patient sizes selectable	
	Focal spot selection	

meX+ 1012WCC

Wireless & portable DR flat panel



- **Lightweight** – Only 1,8 kg (incl. battery)
- **Superb Image Quality** by low dose with CsI-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



Specifications	1012WCC
Interface	wireless
Sensor Type	Amorphous Silicon with TFT
Dimensions	328 x 268 x 15 mm
Active Pixel Area	293 x 228 mm
Weight	1,8 kg (incl. battery)
Pixel Number	2264 x 1752 pixels
Pixel Pitch	127 µm
Resolution	3,9 lp/mm
Energy Range	40 - 150 kV
A/D Conversion	14/16 bits
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

Equine Practice
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meX+ 1417 WCC

Wireless most versatile DR flat panel



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

- **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

Specifications	1417 WCC
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
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



Compact, robust & light-weight solution

„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:

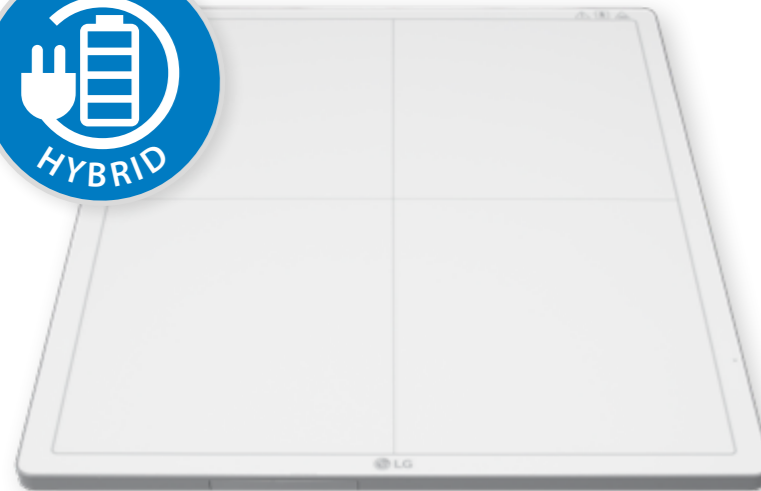
X-ray generator: meX+20BT lite
 DR detector: meX-1417 WCC
 Software: meX+ Image Acquisition Software

Veterinary Practice at
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mex+ 1417LGW

The hybrid Digital Radiography system



**Veterinary Practice Borken-Weseke
Dres. Julia and Daniel Venema**

- Flexible use as **wireless or wired** system
- **Excellent image quality** due to CsI and 4,3 lp/mm
- High DQE enable **extreme low radiation dose**
- Useable as complete wireless solution with integrated **AP (Access Point) Mode**
- Compatible with every X-ray system due to **Automatic Exposure Detection (AED)**
- Suitable for **mobile and stationary use**
- Retrofit use due to **ultra-thin cassette size** of 1,5 cm
- **Liquid and dust protection** (IP53)

Specifications	1417LGW
Data Interface	wireless and wired
Sensor Type	Amorphous Silicon with TFT
Dimensions	364,92 x 443 mm
Active Area	350 x 427,28 mm
Weight	2,95 kg
Pixel number	2500 x 3052
Pixel pitch	140 µm
Resolution	4,3lp / mm
A/D Conversion	16 bit
Energy Range	40 - 150 kV
DQE	@ 0.1 lp/mm = 69,95% @ 0.26 µGy
Battery type	Lithium ion battery
Running time	~ 6,5 hours (~13h in standby)
Scintillator	Cesium-Iodide (CsI)
Including	2 Batteries & DR Carrying Bag



We were fortunate enough to test the X-ray detector meX+1417LGW for medical ECONET in our small animal practice for a week, before it officially was sold on the veterinary market. This test run convinced us so much that we decided to buy the detector, although we had no need considering a new imaging system for our practice during this time.

Especially the significantly lower radiation dose demand and the intuitive and user-friendly operation of the meX+Image Acquisition Software convinced us, which occur to have obvious time savings in comparison to X-ray with a cassette system. Above all, it is of perfect quality – even concerned soft tissue and orthopedic X-rays. The switch to the new system worked smoothly and it optimized our workflow concerning radiographic use - an absolutely worthwhile investment!

In addition to this really great product, we are happy to have medical ECONET as a competent and reliable support, which helped us quickly, efficiently and friendly with all questions about our new DR system.

System:

DR detector: meX-1417 LGW
Software: meX+ Image Acquisition Software

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Dres. Julia und Daniel Venema

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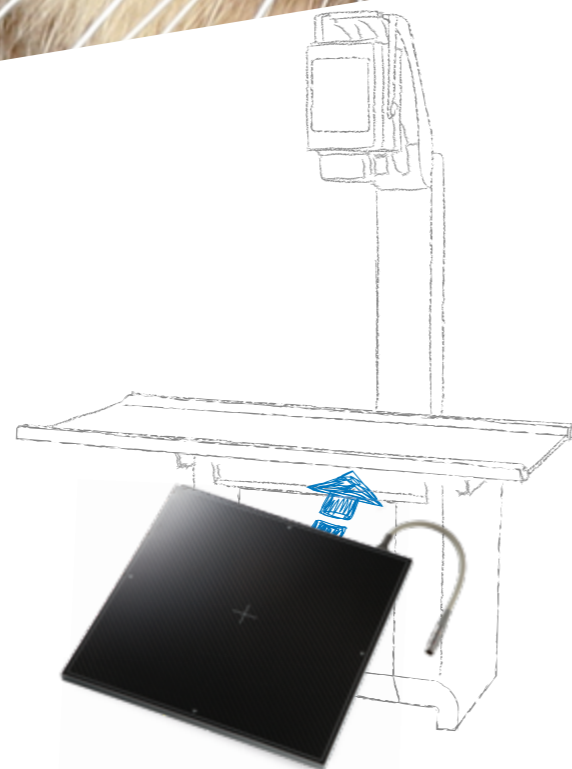
mex+1717 SCC

Digital retrofit panel for stationary X-ray



- **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
- **QUICK IMAGE ACQUISITION** and low weight

Specifications	1717SCC
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	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+1717SCC.

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+1717SCC
- Software: meX+ Software

Veterinary Practice
Dr. med. vet. Marco Germann
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www.tierarztpraxis-germann.de

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



**Veterinary Practice
Dr.med.vet. Rüger**



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**

“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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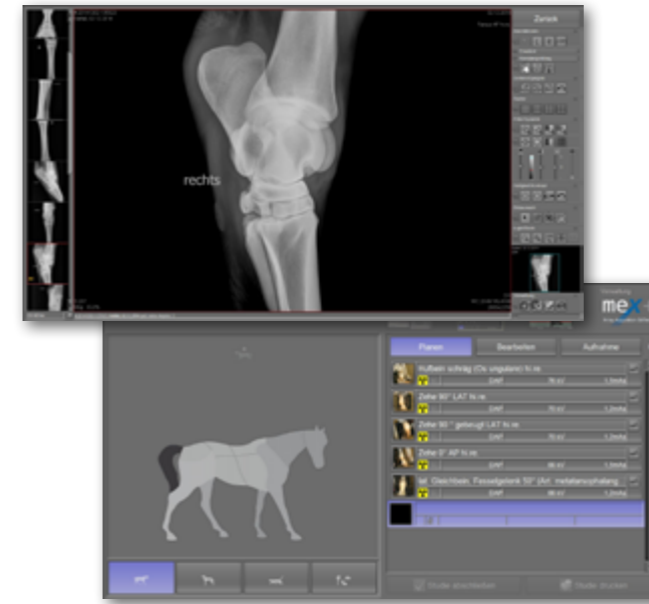
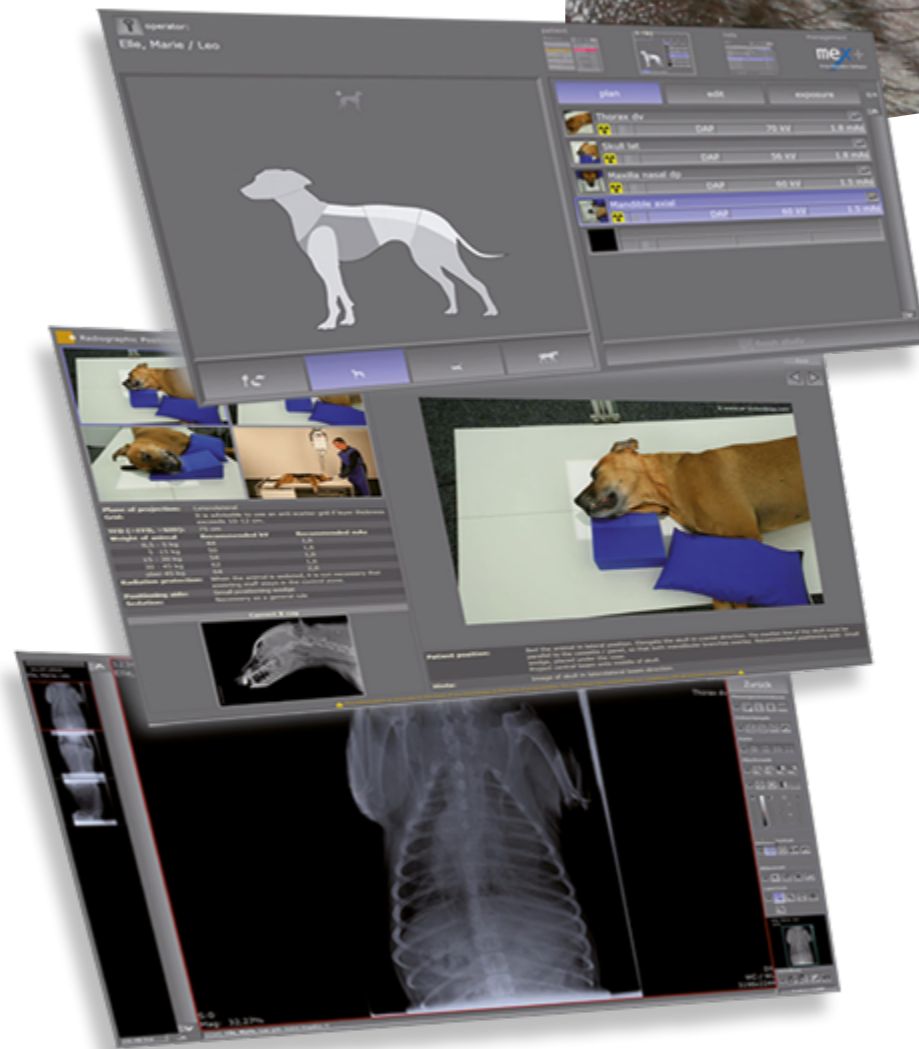
Specifications	meX+CR
Selectable Pixel Size	High: 100µm – Standard: 200µm
Throughput	Up to 50 plates per hour
Resolution	16-bits per pixel, 65.535 grey tones
Dimensions (H x W x D)	137mm x 456mm x 803mm
Weight	19,5 kg
Including	Wall mounting, 2 cassettes

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 smartphones and tablets. Fast check of images saves time and optimized the workflow



REXTAR X

Hand-held Dental X-ray Generator



- Double rigid shielding ensures the safety from leakage radiation
- Optimized dose settings (70kV, 2mA) for clear dental X-ray exposures
- Focal spot of 0,4mm for sharp image resolution
- Integrated battery for up to 300 exposures
- Light weight of 1,9kg
- 3,5" coloured LCD display
- APR memory slots for prestored exposure times



mex+ DG 70

Dental X-ray Generator

- Performance: High quality based on the small focal spot (0,4 mm) and 70kV
- Efficient: Compact and easy to use, for a fast and certain diagnosis
- Usability: Intuitive usable control panel with LED display
- Mobility: Simple movement due to integrated mobile stand
- Flexibility: Extension arm 500-900 mm, max. height 2110 mm



- 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



mex+ dentX

Compact dental CR reader



Q5 VET

Portable semi-modular veterinary monitor

- 12,1" TFT LCD touch screen
- Measurements for ECG, SpO2, Heart Rate, Respiration, Temperature, NIBP, Pulse Rate and IBP
- Lightweight and modular screen
- Multi-display and various extended interfaces
- 168 hours of trend data and up to 1000 groups NIBP data review
- LAN/Wireless (optional) connections
- Internal Li-Ion battery: Operating time 210 min (fully charged)



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 25 years experience.

With our flexible and innovative technologies we advance steadily new fields of applications and in the meanwhile we look back at hundreds of 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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