



medical **ECONET**
GERMANY

PRODUCT CATALOGUE

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M10

Vital Signs Monitor

6" LCD screen with brilliant display - Measurement of oxygen saturation (SpO2) and pulse rate, NELLCOR technology
 • Blood pressure measurement for adults and children (NIBP)
 • Temperature measurement by infrared-ear thermometer (including 20 protective caps) - Mains and battery powered up to 12 hours operation - Dimensions: L 130 x W 125 x H 299 mm, weight: 1,25 kg - 24 months guarantee - Incl. SpO2 sensor (adult), ear thermometer, 20 protective caps, power supply, NIBP cuff for adult.



Infrared thermometer included



Optional five-foot mobile tripod



Article -No. 51-6005 Nellcor compat.

SPECIFICATIONS PROVIEW 10 & PROVIEW 12

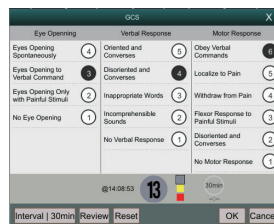
Dimensions	PROVIEW 10: 288 x 236 x 168 mm (WxHxL) about 4kg PROVIEW 12: 175 x 320 x 262 mm (LxWxH) about 4kg	SpO2 range	0% - 100%	IBP (optional)	Transducer sensitivity: 5uV/mmHg, ±2%
Display	PROVIEW 10: 10,4" colour TFT-full-touchscreen 800 x 600 pix. PROVIEW 12: 12,1" colour TFT-full-touchscreen 800 x 600 pix.	SpO2 accuracy	70% - 100%: <3% 0% - 69%: not specified	PROVIEW 12	Measuring range: 50 mmHg - 360 mmHg Accuracy: ± 2mmHg oder 2%
ECG	3-lead: I, II, III 5-lead I: II, III, aVR, aVL, aVF, Vx 6-lead: I, II, III, aVR, aVL, aVF, Vx, Vb 12-lead: I, II, III, aVR, aVL, aVF, V1~V6	Perfusion index	Section: 0,05 - 20,0%	MicroFlow CO2 (optional)	Measuring range: 0% - 25% (0 mmHg - 190 mmHg) Accuracy: ± 0,43% Resolution: 0,1% or 1 mmHg
ST-Segment	Range: -2,0mV - +2,0mV Accuracy: -0,8mV - +0,8mV Resolution: 0,01mV	Drip monitor (optional)	Section: 5 ~ 200 drops/min Accuracy: ± 2 digit or 2% (whichever is greater)	PROVIEW 12	Accuracy: ± 0,43% Resolution: 0,1% or 1 mmHg
Arrhythmia Analysis	VTAC, VFIP, ASYSTOLIC etc.	Data storage	180 hours Alarm Events: 3000 groups Arrhythmia Events: 3000 groups NIBP: 2400 groups Wave trend: 72 hours	Mainstream CO2 (optional)	Measuring range : 0% - 25% (0 mmHg - 190 mmHg) Accuracy: ± 0,43% Resolution: 0,1% or 1 mmHg
		Battery	Rechargeable lithium battery with up to 4 hour operating function	PROVIEW 12	Accuracy: ± 0,43% Resolution: 0,1% or 1 mmHg
		Printer	Thermo printer Speed : 12,5, 25, 50 mm/s Paper width: 50mm	C.O. (optional)	Measuring range: 0,1 L/min - 20 L/min Accuracy: ± 5% or ± 0,1L/min Resolution: 0,1 L/min
		Connections	1x AC current, 1x RJ45 network, 2x USB, 1x VGA (optional), WiFi (optional),	PROVIEW 12	Accuracy: ± 0,1 °C Compatibility: YSI 400 sensor
				Dual channel body temperature	Measuring range 0°C - 50°C Accuracy: ± 0,1 °C
				T1, T2, TD	Compatibility: YSI 400 sensor

PROVIEW 10 & 12 - Included Standard Accessories

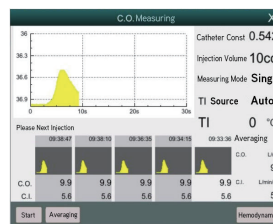


1x 5-lead ECG-cable, 1 package (30 pcs) disposable electrodes for adult, 1x 3m NIBP extension cable, 1x SpO2 sensor for adult, 1x NIBP cuff for adult (25-35cm), user manual, 1x lithium battery

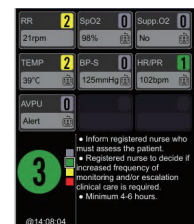
HIGHLIGHTS PROVIEW 10 & PROVIEW 12



Glasgow Coma Scale (GCS)

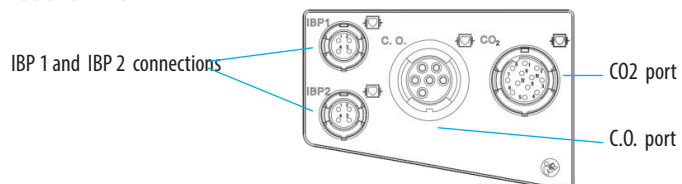


Cardiac Output (C.O.)



Early Warning System (EWS)

EtCO2 Module PROVIEW12



Watch our „medical ECONET“ videos on youtube.com

SPECIFICATIONS

Dimensions	130 x 125 x 299 mm (LxWxH) about 1,25 kg	NIBP	Oscillometric technology Measuring range Systolic: Adults: 40-270 mmHg Children: 40-200 mmHg Neonates: 40-135 mmHg
Display	6" colour display		
View	NIBP SpO2 Heart rate Temperature Patient group (adult, children, neonate) Battery status		Measuring range Diastolic: Adults: 10-215 mmHg Children: 10-150 mmHg Neonates: 10-100 mmHg
Battery	Li-Ion 2.200 mAh Operation up to 12 hours Loading time: about 3 hours Charging time during operation: about 5,5 hours	Temperature	Measuring range 34°C - 42,2°C Resolution: 0,1°C Accuracy: ± 0,2°C
Internal memory	50 Measurements	Accessories	NIBP 3m connecting hose NIBP cuff (adult) SpO2 Sensor (adult) Nellcor SpO2 adapter cable Nellcor Infrared ear thermometer, incl. eartips, power cable, user manual.
SpO2	Saturation range: 0% - 100% Accuracy: 70% - 100% ± 2% Heart rate: 25 bpm - 250 bpm ± 1 bpm		

OPTIONAL ACCESSORIES

20-5262	SpO2 finger sensor - adult (Nellcor compatible)
20-5264	Y-Sensor incl. earclip (Nellcor comp.)
20-5263	Fingerclip sensor child (Nellcor comp.)
50-7061	SpO2 WRAP-Band sensor incl. 1x WRAP-tape
51-7060	SpO2 ear sensor (Nellcor comp.)
20-5265	Softtouch sensor (Nellcor comp.)
10-7052	NIBP cuff - XL adult - 35,5 - 46 cm
10-7051	NIBP cuff - adult - 27,5 - 36,5 cm
10-7036	NIBP cuff - adult - small - 18 - 26cm
10-7031	NIBP cuff - child - 13 - 20 cm
10-7037	NIBP cuff - neonate - 6 - 11 cm
10-5043	Five-foot-tripod



Possibility to store accessories

PROVIEW 10

10,4" Touchscreen Patient Monitor

Superior image display • 27 different arrhythmia detections • Early diagnosis of patients at risk (EWS) • Airway monitoring in neonates • Measurement of oxygen saturation (SpO2) and pulse rate • Blood pressure measurement for adults and children (NIBP) • Glasgow Coma Scale (GCS) • 4 hours battery operation • Dimensions: L 288 x W 168 x H 236 mm, weight: 4 kg • 24 months guarantee • Incl. ECG patient cable 5-lead, disposable electrodes, NIBP hose, cuff (Adult), SpO2 extension cable, SpO2 sensor (adult), printer.



Article-No. 40.20-5360



Easy to reach and color coded connectors.

PROVIEW 12

12,1" Touchscreen with OxyCRG

Superior image display • 27 different arrhythmia detections • Early diagnosis of patients at risks (EWS) • Airway monitoring in neonates • Measurement of oxygen saturation (SpO2) and pulse rate • Blood pressure measurement for adult and children (NIBP) • Glasgow Coma Scale (GCS) • 4 hours battery operation • Dimensions: L 288 x W 168 x H 236 mm, weight: 4 kg • 24 month guarantee • Incl. ECG patient cable 5-lead, disposable electrodes, NIBP hose, cuff (adult), SpO2 extension cable, SpO2 sensor (adult), printer.



Article-No. 40.20-5370



Easy hygienic cleaning.



EtCO2 Module

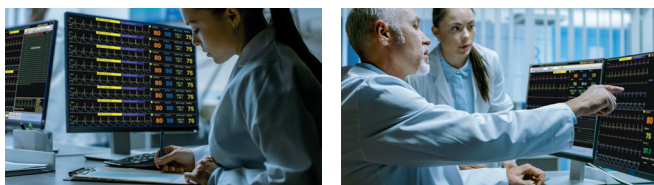
PROVIEW: EASY TO USE CENTRAL MONITORING SOFTWARE



The new generation of patient monitors from medical ECONET impress with its performance, quality and versatility.

The PROVIEW-Series provides exemplary monitoring with economic rationality. These are fast, accurate and comfortable bedside patient monitors. Its innovative technology is the ideal basis for obtaining detailed data and enable first-class visualizations.

PROVIEW-Series monitors adopt full capacitive touchscreen design, concise and artistic appearance.



With increasing tasks come increasing responsibilities. PROVIEW-Series is engineered to help professionals in their daily work lives.

Both monitors use an integrated ECG and SpO2 chip technology, which has an outstanding stability and consistency. The brand new software under Linux+QT architecture makes the interface more novel.

The standard features include ECG, SpO2, NIBP, respiration and temperature. PROVIEW 12 includes also dual channel body temperature, IBP, C.O. and EtCO2 performances.

The Central monitoring software is a kind of intelligent central multi-bed and multi-physiological parameter monitor system, connected by wire or wireless network with bedside units, suitable for performing continuous monitoring of several patients simultaneously.







You can connect to max. 66 bedside units at the same time with up to 64 waveforms for 32 bedside monitors (dual-screen display). With 17 types of arrhythmia analysis, this software will help you collect multiple physiological parameters and waveforms.



Furthermore the Early Warning Score (EWS), Glasgow Coma Scale "GCS" and the Oxygen cardio-respirogram (oxyCRG) are included as well. With the drip monitor as an option for PROVIEW 12.

While the most important task for patient monitor is simply to monitor several parameters of a patient - it is also important to complete secondary but nevertheless important tasks like disinfection control. PROVIEW-Series is built to easily prevent device deterioration. The complete device is made in a way for easy cleaning and maintain the highest standards of minimize ingress and retention of fluids.





The backside was designed to help organize the daily accessories in a very smart way. With everything on hand, the portability is guaranteed.

	 M10 Cost effective vital signs monitor	 COMPACT 5 Innovative and versatile	 COMPACT 7 Multiparameter monitor for general practitioners	 COMPACT 9 Designed for intensive care units	 PROVIEW 10 Diagnostic device for primary care physicians	 PROVIEW 12 Perfect for intensive care units
Short description	Measurement of oxygen saturation (SpO2) and pulse rate, AC and battery functioning up to 12 hours	Wide 8" touchscreen colour display • Networkable by LAN or WLAN (optional) • HL 7 compatible	Networkable by LAN or WLAN (optional) • HL 7 compatible • Integrated and rechargeable battery with a runtime up to 2 hours • Thermic printed laterally installed	Medicaments calculation • Integrated and rechargeable battery with a runtime up to 4 hours • Thermic printed laterally installed	Detection of 27 different Arrhythmia • Rapid identification of patients at risks (EWS) • Respiratory monitoring in neonates	Brilliant image display • Detection of 27 different Arrhythmia • Rapid identification of patient at risks (EWS) • Glasgow Coma Scale (GCS)
Display	6" LED	8" touchscreen	10,4" touchscreen	12,1" touchscreen	10,4" touchscreen	12,1" touchscreen
IBP	—	—	integrated	integrated	—	integrated
Cardiac output	—	—	—	—	optional	optional
EtCO2	—	—	integrated	integrated	—	integrated
Data storage	50 patients	120 hours	120 hours	168 hours	180 hours	180 hours
Printer	—	integrated	integrated	integrated	integrated	integrated
Drip monitor	—	—	—	—	optional	optional
Glasgow Coma Scale / Early Warning System	—	—	—	—	integrated	integrated
Battery operating time	max. 12 hours	max. 1,5 hours	max. 2 hours	max. 4 hours	max. 4 hours	max. 4 hours
Interfaces	—	LAN interface Nurse call VGA (optional) HDMI DC port	LAN interface Nurse call VGA (optional) HDMI USB	LAN interface Nurse call VGA (optional) HDMI USB	1x RJ45 network 2x USB 1x VGA (optional) WiFi (optional)	1x RJ45 network 2x USB 1x VGA (optional) WiFi (optional)
Temperature	by infrared thermometer	integrated	integrated	integrated	integrated	integrated
Respiration	—	integrated	integrated	integrated	integrated	integrated
Derivations	—	3-lead 5-lead (optional)	5-lead 3-lead (optional)	5-lead 3-lead (optional)	5-lead 3-lead (optional)	5-lead 3-lead (optional)
Dimensions	130 x 125 x 299 mm	238 x 250 x 175 mm	238 x 250 x 163 mm	322 x 250 x 224 mm	288 x 236 x 168 mm	175 x 320 x 262 mm

PROVIEW: OPTIONAL ACCESSORIES

ECG

Suitable for PROVIEW 10 and PROVIEW 12

-  20-5362 5-lead ECG cable
-  20-5361 3-lead ECG cable
-  10-3700 Disposable electrodes - adults
Package=30 pcs
-  10-2107 Disposable electrodes - children/neonates
Package =30 pcs

EtCo2 - MicroFlow

Suitable for PROVIEW 12



20-1010 **SET:**
Capno EtCO2 module, extension cable, 2x water filter, L type 3 airway adapter and disposable CO2 nasal cannula



-  20-5390 12 Pin EtCO2 extension cable
-  20-1012 Water filter
-  20-1013 L type 3-way airway adapter
-  20-1011 Disposable CO2 nasal cannula

EtCo2 - MainStream

Suitable for PROVIEW 12





20-1000 EtCO2 Capno-M with disposable airway adapter adult/child

-  20-5390 12 Pin EtCO2 extension cable
-  20-1002 Disposable airway adapter adult/child

Temperature

Suitable for PROVIEW 10 and PROVIEW 12

-  20-5371 Skin temperature sensor for adults, children, neonates
-  20-5372 Rectal temperature sensor for adults, children, neonates

SpO2

Suitable for PROVIEW 10 and PROVIEW 12

-  20-5363 Finger sensor for adults
-  20-5366 Soft finger sensor adults
-  20-5368 SpO2 extension cable
-  20-5364 Finger sensor children
-  20-5365 Soft finger sensor neonates
-  20-5367 Soft finger sensor children
-  20-5449 Disposable sensor adults /neonates
-  20-5391 Y-sensor

NIBP

Suitable for PROVIEW 10 and PROVIEW 12 only

-  20-5369 NIBP 3m cable
-  10-7051 NIBP cuff - adults - 25 - 35 cm
-  10-7052 NIBP cuff - adults XL - 33 - 47 cm
-  10-7050 NIBP cuff - children - 18 - 26 cm
-  10-7037 NIBP cuff - neonates - 6 - 11 cm

Miscellaneous

Suitable for PROVIEW 10 and PROVIEW 12 only

-  20-5373 Drip monitor module
-  20-5375 Li-Ion battery 11,1V / 2.500 mAh
-  20-5376 Li-Ion battery 11,1V / 5.000 mAh
-  20-5377 Printer paper 50mm 1 box=5 Rolls
-  21-5374 Mobile tripod with storage basket
-  20-5450 Wall mounting bracket
-  20-5378 WiFi Module
-  20-5392 Central Monitoring Software

Full accessory list on request.



HIGHLIGHTS

The central monitoring software is a multi-parameter monitor system with network connection via LAN or W-LAN. Suitable for continuous, simultaneous monitoring of multiple patients, max. 66 units can be monitored simultaneously. Here, the waveform displays for 32 monitors are displayed via a dual screen on 2 monitors. With 17 types of arrhythmia analysis, this software helps you interpret multiple physiological parameters and waveforms.

Performances: Waveform: ECG (I, II, III, aVR, aVL, aVF, V1-V6), RESP, CO2, IBP1, IBP2, SpO2.
 Parameters: HR, RR, NIBP, IBP, SpO2, PR, TEMP, CO2, (EtCO2, FICO2), Anesthetic gases. (O2, N2O, 5AA), ICG (C.I.)
 Stroke speed: 12.5mm/s, 25mm/s, 50mm/s, and Customization
 Bedview: Up to 64 waveforms for 32 patient monitors (on a dual screen)
 Various alarms, calculation tools, arrhythmia analysis, display modes for 7- or 12-lead ECG waveform, Oxy CRG, complete display of all waves for one patient, remote control of remote control of the monitors via the software, and much more.

PROVIEW - ACTIVE THROUGHOUT EUROPE

Since the successful market launch of both PROVIEW models last year, medical ECONET has witnessed and designed many installations across Europe. The two models are in use in numerous practices and clinics throughout Europe, including the Saarland University Hospital in Homburg, Germany.

As tasks grow, so does responsibility. The PROVIEW series was developed to support professionals in their everyday work. Both monitors use integrated ECG and SpO2 chip technology that provides outstanding stability and durability.

Standard functions include ECG, SpO2, NIBP, respiration and temperature. PROVIEW 12 also offers dual-channel body temperature measurement, IBP, C.O. and EtCO2 measurements. Also included is an Early Warning System (EWS), Glasgow Coma Scale, „GCS“ and the Sauerstoff-Cardio-Respirogram (oxyCRG).




PROVIEW - USABLE EVERYWHERE



The comprehensive range of accessories makes the PROVIEW series one of the most versatile patient monitors. The stable mobile stand with generous storage basket makes the PROVIEW a mobile unit for any clinic or practice. The quick and uncomplicated locking on the stand is another plus.

In addition to the mobile stand, medical ECONET also offers a wall mount with an additional storage basket, so that the PROVIEW serves as a space-saving component at the bedside. As a third variant, medical ECONET offers a holder for the overhead rail.

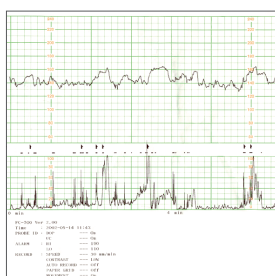
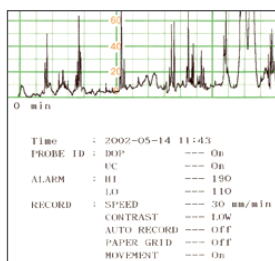


Complete accessory list available on request.



SMART 1

Cost Effective CTG Device with DIN A4 Printer



Alpha numeric display of the fetal heart frequency and uterus contraction • Highly sensitive 1MHz probe technology • Easy readable print in DIN A4 format with CTG report • Capturing of fetal movement • Acoustic alarm, adjustable alarm limits of heart rate • Intuitive concept with compact operating manual on the device • Print speed adjustable: 1, 2 or 3 cm/min. • Adjustable volume of fetal heart sounds • Incl. 1 ultrasound probe with 9 crystals and 1MHz, 1 toco probe for uterus contraction, electrical event marker, straps for probe fixing, 2 rolls of printing paper, ultrasound gel, power cable and user manual. Dimensions: (BxDxH) 296 mm x 305,5 mm x 97,5 mm. Weight: ca. 4 kg

Article-No. 11-7000

SPECIFICATIONS

Ultrasound		Printer		Settings	
Frequency	1.0 MHz	Printer thermal arrey type	215 x 30 mm	Alarm	Upper / low limit value
Intensity	< 10mW / cm ²	Print speed	1, 2, 3 cm/min	Record / Printing	Speed, paper grid, fetal movement on / off
FHR Range	50-240 bpm	Auto paper feeding function	yes	Input power	240 V (50/60 Hz), 18V / 2,5 A Power supply
FHR Accuracy	± 1 bpm	Display		Others	Date / time, print contrast, auto print
Fetal movement detection source	Pulsed ultrasonic probe	Type	7 segment LED, 2 channels (FHR, UC)	Additional functions	
Probe type	9 crystal elements	Display	Indicator of fetal heart rhythm and uterus contraction. Alphanumeric and in curved form	Eventmarker	yes
Uterus contraction		Further indications	Alarm on, autoprinting on/ off, AC power set up	Auto fetal movement Detection	yes
Type	UC probe			CT-Report	yes
Frequency response	DC ~ 0.5 Hz				
Measurement range	0 ~ 99 units				
Reference (zero) control	yes				

ECOsound

Pocket Fetal Doppler



Large LCD to display the heart rate and battery status • Highly sensitive 2 MHz transducer • Active noise reduction to optimize signal quality • 1.2W integrated speaker with infinitely variable volume control • Audio output-jack for earphone • Auto shut off after 5 minutes • Ca. 6 hours operating time at ongoing measurement • Usage: from 10th week of pregnancy • Delivery with bag, ultrasound gel and 2 AA batteries • Display: LCD • Measuring range of heartrate: 50-240 bpm • Accuracy: ± 2% • Ultrasound intensity: <10mWatt / cm² Power supply: 2 x AA batteries, 1,5V

SPECIFICATIONS

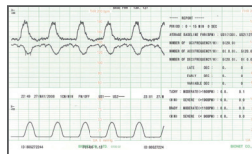
Display	LCD Display
Heart rate range	50-240 bpm
Accuracy	± 2%
US-Frequency	2 MHz
US-Intensity	<10mW/cm ²
Speaker output power	1.2W (integrated loud speaker)
Audio output for earphone	yes
Auto shutt-off	after 5 minutes
Power supply	2 x AA batteries, 1,5V
Sensitivity	10 weeks onward

Article-No. 71-2600

SMART 3

Twin Fetal Monitor with 7" Touch-Screen

Display of fetal heart rate of two fetuses and uterus contraction alpha numeric and in curved form • Recording of movement of both fetuses (Fetal Movement) • High sensibility by 1MHz probe frequency • Printout of all parameters in DIN A5 format • Integrated base CTG analysis incl. STV • Documentation of system data on the print • Free configurable note list for use during CTG recording • Adjustable alarm limits and acoustic alarming • 72 - hours trend data storage and volume regulation • Dawes/Redman criterion • Acoustic stimulator (optional)
 Rechargeable accumulator (optional) battery operation: Up to 2 hours if accumulator is fully loaded • Network possibility by LAN for data transfer LAN, Wi-Fi- converter (optional) • Transfer of stored data on a USB-memory (JPEG) • Live transfer to a free central software to archiving the data on the PC - central software for up to 16 devices (optional) • Dimensions: 296 (W) x 305,5 (D) x 97,5 (H) • Weight: 2.9 kg



REPORT	
PERIOD:	0 - 15 MIN 0 SEC
AVERAGE BASELINE FHR(FPK):	US1(130), US2(127)
NUMBER OF ACCL(FREQUENCY/Hz):	0(20,0)
NUMBER OF DECL(FREQUENCY/Hz):	0(0,0), 0(0,0)
LATE DEC:	0, 0
EARLY DEC:	0, 0
VARIABLE DEC:	0, 0
TACHY > MODERATE(+50BPM):	0, 0, 0, 1
BRX > SEVERE (+50BPM):	0, 0, 0, 0
BRADY < MODERATE(-15BPM):	0, 0, 0, 0
BRX < SEVERE (-15BPM):	0, 0, 0, 0



Article-No. 11-4200

SPECIFICATIONS

Display	7" Colour display with 800 x 480 pixels	Auto CTG analysis	Average baseline FHR Number of TOCO Number of acceleration Number of deceleration: Late, early, variable High/Low episode Short term variability Signal loss *CTG Analysis results is printed out every 10 minutes
Printer	Type: thermal Paper format: 152 x 30 mm / 215 x 30 mm Paper type: thermal rollers Print speed: 1, 2, 3 cm/min Paper feeding function	Data storage	72 hours
Fetal heart rate	Input signal: ultrasound pulsed doppler FHR detection method: autocorrelation FHR range: 50~210 FHR accuracy: 120~160: ± 1 bpm Except: 120~160: ± 2 bpm	Power	Input: 100~240VAC, 50/60 Hz, 1.5 A
Ultrasonic probe	Frequency: 1.0 MHz Intensity: < 10mW/cm ²	Battery	Li-Ion Battery operation: up to 2 hours (fully charged)
Uterine contraction	Input source: External transducer Automatic zero matching Measurement range: 0~99	External link	LAN, WiFi, USB, SD



OPTIONAL ACCESSORIES SMART-SERIE

11-4111	Accumulator SMART 3 (NEW)	70-3465	Bag
11-4102	Ultrasound probe SMART 3 (NEW)	60-2610	USB to serial-adaptor incl. RS232 cable
11-4103	Toco probe SMART 3 (NEW)	10-2090	Accumulator SMART 3 (OLD)
11-4104	Acoustic stimulation probe SMART 3 (NEW)	10-1421	Printing-paper SMART 5
11-4105	USB-WiFi Stick SMART 3 (NEW)	50-9010	Waterproof US-probe Insight-Series
10-1434	Ultrasound probe SMART 3 (OLD)	50-9011	Waterproof UC-probe Insight-Series
10-1435	Toco probe SMART 3 (OLD)	50-9012	Event Marker Insight-Series
10-7028	Ultrasound probe SMART 1	50-9020	Paper Insight-Series
10-7029	Toco probe SMART 1	51-9018	Li-Ion accumulator Insight-Series
10-7014	Event Marker SMART-Series	10-3018	Equipment trolley with drawer
50-5032	CTG belt set (3 pc.)		
10-1420	Paper SMART 3 (15cm x 30m)		
10-7022	Paper SMART 1 (21cm x 30m)		
99-1036	Ultrasound gel 0,25L		
10-8000	Mobile tripod for SMART-Series		

The packaging unit for printer paper is:
25 rolls / folding layers.



SMART 1 Probes + Marker



Bag



CTG-belt Set



SMART 3 Toco-Probe



ECotwin LCD

Fetal Monitor for twins

7" colour LCD display, rotatable by 270° • Ultra sensitive 9-crystals US-probes with 0,985 MHz frequency • Waterproof probes (US & UC) • Integrated Li-Ion battery • 450 hours internal data storage • Easy to transport • Monitoring of fetal movement • Wall mounting option • Selectable scaling (international / european) • Easy data transfer through USB stick • LAN-interface • Supplied with two ultrasound probes, 1 TOCO-probe, electronic event marker, CTG-belts, registration paper, ultrasound gel, power supply, bag

Article-No. 71-3480

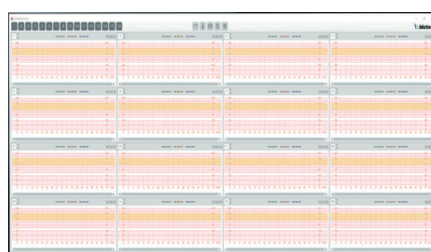
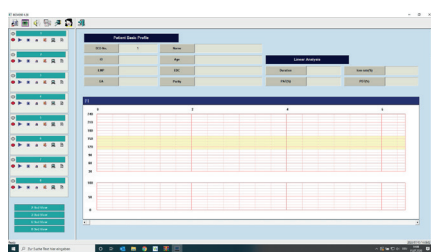
SPECIFICATIONS

Ultrasound		Fetal movement		Settings	
Probes	9-Crystal-Probes	Method	Ultrasound for recognition	Alarm limits	Over-under limit
Doppler	Pulsed	Movement	Dual fetal movement	Date & Time	yes
Ultrasound frequency	0,985 MHz	Display		Print contrast	1, 2, 3
Intensity	< 10mW /cm2	Size	7" TFT Colour display (LCD)	FHR volume	yes
FHR Area	50 ~ 240 bpm	Display	Heart rhythm	Other	Print speed ,Zoom-function
FHR Accuracy	± 2%	Printer	Record speed: 1, 2, 3 cm / min Auto record period: 10, 20, 30, 40, 50, 60 min Alarm status display via LED	Interfaces	
Waterproof	IPX7	Sound		RS-232C	yes
Uterus contraction		Heart rate	with volume setting	USB	yes
Measurement	External	Key tone	yes	Bluetooth	Optional
Frequency response	DC ~ 0,5 MHz	Alert	Paper OFF Probe error Low battery level	Functions	
Calibration function	yes			Event marker	yes
Measuring range	0 ~ 99			UC-calibration	yes
				Zoom	yes
				Others	Base Anteparum CTG-Analysis (LED)

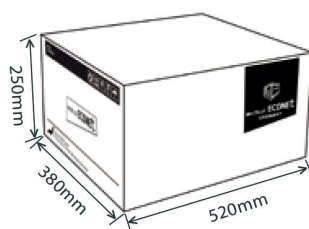
OPTIONAL ACCESSORIES

70-3494	Waterproof US-probe
70-3495	Waterproof Toco-probe
70-3033	Eventmarker ECotwin / BT-350
50-5032	CTG belt set (3 pc)
70-3455	Paper 9cm x 15m (30-240bpm) red
70-3454	HP Paper M1911A (50-210bpm) green
99-1036	Ultrasound gel 0,25 L
70-3465	Bag
71-3451	Mobile tripod
70-3493	Accumulator ECotwin
70-3040	Ultrasonic probe BT-300
70-3035	Toco probe BT-300
70-3020	Paper BT-300
10-3018	Trolley with drawer

The packaging unit for printer paper is: 25 rolls / folding layers.



Software BCM350 inclusive



Weight: ca. 7kg



Shipping information

ECotwin LED

Fetal Monitor for twins

7" colour LCD display, rotatable by 270° • Ultra sensitive 9-crystals US-probes with 0,985 MHz frequency • Waterproof probes (US & UC) • Integrated Li-Ion battery • 450 hours internal data storage • Easy to transport • Monitoring of fetal movement • Wall mounting option • Selectable scaling (international / european) • Easy data transfer through USB stick • LAN-interface • Supplied with two ultrasound probes, 1 TOCO-probe, electronic event marker, CTG-belts, registration paper, ultrasound gel, power supply, bag



Article-No. 71-3490

SPECIFICATIONS

Ultrasound

Probes	9-Crystal-Probes
Doppler	Pulsed
Ultrasound frequency	0,985 MHz
Intensity	< 10mW /cm ²
FHR Area	50 ~ 240 bpm
FHR Accuracy	± 2%
Waterproof	IPX7
Uterus contraction	
Measurement	External
Frequency response	DC ~ 0,5 MHz
Calibration function	yes
Measuring range	0 ~ 99

Fetal movement

Method	Ultrasound for recognition
Movement	Dual fetal movement
Display	
Size	7-Segment LED display (LED)
Display	Heart rhythm
Printer	Record speed: 1, 2, 3 cm / min Auto record period: 10, 20, 30, 40, 50, 60 min Alarm status display via LED
Sound	
Heart rate	with volume setting
Key tone	yes
Alert	Paper OFF Probe error Low battery level

Settings

Alarm limits	Over-under limit
Date & Time	yes
Print contrast	1, 2, 3
FHR volume	yes
Other	Print speed, Zoom-function
Interfaces	
RS-232C	yes
USB	yes
Functions	
Event marker	yes
UC-calibration	yes
Zoom	yes
Others	Base Anteparum CTG-Analysis (LED)



Comfortable for patients

CARDIO M-PRO



CARDIO M-PRO

12-channel resting ECG with touchscreen

Resting ECG with A4 printout

12-, 6- and 3-channel ECG recording with recommended interpretation
 • True 12-channel resting ECG: Time saving in comparison to 3- and 6-channel ECG recorder
 • Illustration of all 12 channels one below the other or bundled in packages (2x6, 3x4)
 • Clear structure in DIN A4 format
 • Printout of the rhythm (lead) for 3- and 6-channel setting
 • Manual ECG monitoring or 10-second-memory-ECG for interpretation
 • Automatic recommended interpretation
 • The interpretation function distinguishes between 140 diagnostic events on the basis of the Minnesota protocol
 • Battery (standard) • Incl. ECG accessory kit

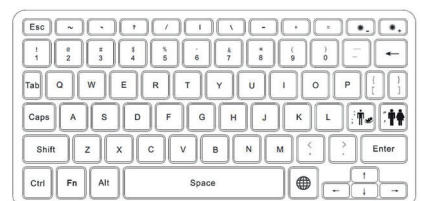
Article-No. 11-2300

SPECIFICATIONS

Dimensions	360 x 276 x 130 mm (WxHxD) approx. 4,2 kg	Recorder	Thermal dot array Resolution: 8 dots/mm (vertical) 40 dots/mm (horizontal) Paper type: Folded Paper: 210mm x140mm x 20m (Z-type) Record width: 215mm (the effective record width of the device is 210mm)
Display	8" TFT LCD touchscreen, 800 x 480 pixels	Safety level	Class I, Type CF
ECG leads	12 channels (standard)	Power supply	Alternating current (A.C.): 100-240 V, 50/60 Hz, 30-100 VA Direct current (D.C.): 11.1 V/4.400 mAh, integrated rechargeable lithium battery After complete charging of the battery the power supply is sufficient for 5 hours of operation. Alternatively, it is possible to print out approx. 500 ECG reports in the automatic mode
Measurement information of ECG waveform	HF, PR-interval, Duration of the QRS complex, QT/QTc, electrical R/QRS/T-axis, RV5/SVI-amplitude	Connections	1x SD card 2x USB 1x RJ-45 (Network)
Acquisition mode	Manual mode: 3-way, 6-way, 12-way Rhythm: Single-lead, 3x, R-R-R-R Automatic mode (3CHx4, 3CHx4+1R, 3CHx4+3R, 6CHx2, 6CHx2+1R, 12CHx1, 12CHx1_V6)		
Filter	EC filter: 25 Hz, 35 Hz, 45 Hz, Close Frequency filter: OFF/ON Lowpass filter: 75 Hz, 100 Hz, 150 Hz, 200 Hz, Close		
Paper speed	5 mm/s, 6,25 mm/s, 10 mm/s, 12,5 mm/s, 25 mm/s, 50 mm/s, Tolerance: $\leq \pm 3\%$		
CMRR	>110 db		





Special function keys for an efficient workflow in the practice.

Gender
switch
keyAge group
switch
keyMethod
switch
key




Complete alphanumeric keyboard for a comfortable use.

CARDIO SERIES - ACCESSORIES

ECG cable

-  12-2034 ECG patient cable (New type) banana type
-  91-9503 ECG patient cable snap type




Rubber belts

-  10-2103 Extremities Electrodes rubber Belt
-  10-2101 Chest Electrodes rubber Belt
-  10-2104 Fixation button for rubber Belt

Others


-  10-2035 ECG cable clamp type for disposable electrodes
-  10-3018 Mobile card with drawer
-  10-2090 Rechargeable NiMH Battery CARDIO M
-  11-4111 Rechargeable Li-Ion Battery CARDIO M-PLUS
-  30-2105 Rechargeable Li-Ion Battery CARDIO E3
-  11-4105 WiFi (USB-Dongle) CARDIO M-PLUS

Paper

-  10-2301 Z-Folder Paper for CARDIO M-PRO (10pcs)
-  10-2022 Roll Paper for CARDIO M series (25Rolls/box)
-  30-2101 Roll Paper for CARDIO E3 (5Rolls/box)

Electrodes

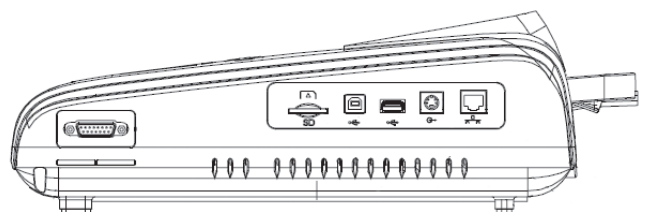
-  10-2039 Adapter for Disposable Electrodes (10pcs)
-  11-2054 Limb Electrodes, adult (4pcs/pack)
-  10-2053 Limb Electrodes, pediatric (4pcs/pack)
-  11-2055 Chest Electrodes, adult (6pcs/pack)
-  10-2056 Chest Electrodes, children (6pcs/pack)
-  10-3700 Disposable Electrodes (30pcs/pack)
-  10-2107 Ped./Neo Disposable Adhesive Electrodes



Complete accessory list available on request.

CARDIO M-PRO provides on the devices right side all important ports and sockets for an easy everyday workflow.

You can connect easily the Cardio M-PRO via the first USB port with an USB stick, a barcode scanner or an external USB printer. You can connect the Cardio M-PRO with a PC via the second USB port and create a Internet conection via the RJ-45 port.



CARDIO E3

3- Channel Rest ECG

12 simultaneous derivations including automatic ECG interpretation program • Sampling frequency: 1000 Hz, Pacemaker detection 10.000 Hz • Filters: Muscle Tremor- 30 / 40 Hz adjustable / Mains filter to suppress 50 / 60 Hz interference Baseline filter selectable • Recording speed 5 / 10 / 25 / 50 mm/s • Programmable sensitivity: 2,5 / 5 / 10 / 20 mm/mV - Automatic or manual mode • Control panel: Alphanumeric • Printing method: High resolution thermal comb printing • External USB-printer with PCL6-language • Data storage: SD Card, USB-Stick, networkable by LAN cable • Power supply 100 – 240 VAC, 50 / 60 Hz • Built-in, rechargeable lithium battery • Dimensions (WxHxL): 310 x 244 x 65 mm • Weight: 2,25 kg • Incl. ECG-accessories

Article-No. 31-2100



Data saving on a SD card



LAN cable connection

CARDIO M

12- Channel Rest ECG

Rest ECG with A4 printer

12, 6 and 3 channel ECG • Recommended recording with interpretation • Real 12 channel Rest ECG: Time saving compared with 3 and 6 channel records. Display of all 12 channels individually or in packages (2x6, 3x4) • Clear display in DIN A4 format • Printout of the rhythm derivation with 3 - 6 channel setting • Manual ECG monitoring or 10 second recording for ECG interpretation • Automatic interpretation • The interpretation function distinguishes among 25 different diagnostic cases based on the Minnesota protocol • Optional rechargeable battery • Incl. ECG accessory set • Including free download version of ECG Cardio archive



Optional: cart

Article-No. 11-2200

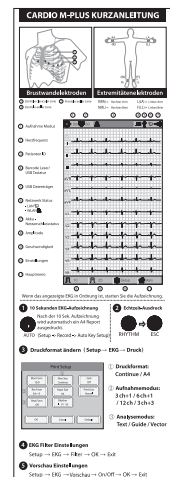
CARDIO M-PLUS

12 Channel Rest ECG with Touchscreen

Available from 2nd quarter.

12 channel Rest ECG with 7" Touchscreen

Touchscreen operation (full alphanumeric keyboard support) • USB memory/ USB barcode scanner / external USB keyboard • Spirometry (optional) • Direct and bidirect connection with PACS (optional) • 7" colour TFT LCD screen (800x480) • Preview function before printing • Extended data storage up to 200 ECG measurements • Various standard file formats • Auto print key for analysis, storage and printing of results • Long-term ECG recording and automatic arrhythmia detection • 12 channel Rest ECG with T30 Diagnostic interpretation • Dimensions: (WxLxH) 296 mm x 305 mm x 97,5 mm • Weight: 3.2 kg • Power supply: mains or battery • Voltage: 95 - 240 Volt AC / 50-60Hz • Power consumption: 60 Watt (max.) • Safety: Class I / Type BF



Helpful instructions on the device

Article-No. 11-3700

SPECIFICATIONS

Dimensions	310 x 244 x 65 mm (WxHxL) about 2,1 kg	Recording	Method: thermomatrix printing Resolution: ≥ 8 points/mm (vertical) ≥ 32 points/mm (25 mm/s), ≥ 16 points/m (50 mm/s) (horizontal) Print paper: 80mm wide, roll
Display	7" LCD colour screen, 800 x 480 Pixels	Security level	Class I, Type CF
Derivations	12 (Standard)	Power supply	AC: 100–240 V, 50/60 Hz, 30– 100 VA Direct current: 14,8 V/2.200 mAh, built-in, rechargeable lithium battery Fully charged battery allows 5 hours operations and continuous printing for about 3 hours. Manual mode: about 600 ECG reports with 3x4+1R automatically printed. The battery takes 5 hours to charge in normal functioning, from complete discharge to 90% capacity.
Measured parameters	HF, PR interval, QRS complex, QT/QTc, electric R/ QRS/T-axis, RV5/SVI-amplitude		
Acquisition mode	Manual mode (manual 1, manual 2, manual 3, manual 6, manual 12) Rhythm mode Automatic mode (3CHx4, 3CHx4+1R, 3CHx4+3R, 6CHx2, 6CHx2+1R, 12CHx1)		
Filter	AC filter (mains filter): 50 Hz / 60 Hz / OFF EMG filter (EMG filter): 20 Hz / 25 Hz / 30 Hz / 35 Hz / 40 Hz / 45 Hz / OFF DFT-filter: 0,05 Hz / 0,15 Hz / 0,25 Hz / 0,32 Hz / 0,5 Hz / 0,67 Hz / ADS / OFF		
Paper speed	5 mm/s, 6,25 mm/s, 10 mm/s, 12,5 mm/s, 25 mm/s, 50 mm/s, tolerance: $\leq \pm 5$ %		
CMRR	>98 db		

ECG accessory set included with every Cardio devices:



Paper, ECG-patient cable, power cord, 6x chest electrodes, 4x clamp electrodes, ECG gel, user manual

SPECIFICATIONS


Derivations	12 channel	Zero line	0,1 Hz - 3 dB or less
Recording channels	1, 3, 6 and 12	Low pass filter	off, 40 Hz, 100 Hz, 150 Hz
Sensitivity	5, 10, 20, auto (I~aVF: 10,V1 ~ V6:5) mm/mV	Patient data	ID, name, age, gender, height, weight
Parameters	Heart rate PR, QRS, QT/QTc, P-R-T Axis	Communication	PC connection by LAN interface
Display	2 line text display	Defibrillation protection	Available
User interface	Keyboard	Input impedance	$\geq 10M\Omega$
Available characters	Alphanumeric & special characters	Input	$\geq \pm 5$ mV
Printer	Speed: 12,5, 25, 50 mm/s Type: Thermo printer Width printout: 204 mm Vertical resolution: 8 Points/mm Horizontal resolution: 16 Points/mm Paper type: Thermo roll	Voltage	Supply: mains or battery Area: 100-240 Vax, 50/60 Hz, 1.0-5.0 A
Network filter	50/60 - 20dB or better	Power consumption	60 W max
Muscle filter	25 ~ 35 Hz - 3dB	Safety	Class I, type BF
		Humidity	30 ~ 85%
		Operating temperature	10°C ~ 40°

OPTIONAL ACCESSORIES

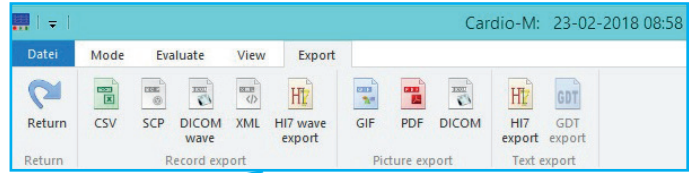
10-2090	CARDIO M battery
11-4111	CARDIO M-PLUS battery
10-2022	Paper for CARDIO (25 Rolls)
10-3030	Disposable mouthpiece 1 box= 100 pc
10-2101	Chest rubber belt, 135x7 cm, 5 row holes
10-2103	Rubber limb belt 45x3 cm
10-2104	Fastening button rubber belt
10-2055	Chest suction electrodes adult 6 pc.
10-2056	Chest suction electrodes child 6 pc.
10-2054	Clamp electrodes adult (red, yellow, green, black) 1 Set
10-2034	ECG-patient cable with 4mm banana plug - 1 Set
10-2035	ECG-patient cable with adaptor clamp - 1 Set
90-9503	ECG-patient cable with push button adapter - 1 Set
10-2038	Push button adapter for 4mm banana plug - 1 pc.
20-3112	3L Calibration pump vitalograph
10-3700	ECG Solid gel adhesive electrodes \emptyset 50mm - 30 pc
10-2107	Solid gel adhesive electrodes for child \emptyset 30 mm - 30 pc
11-2062	Electrodes for quickels suction unit - 128 pc

SPECIFICATIONS

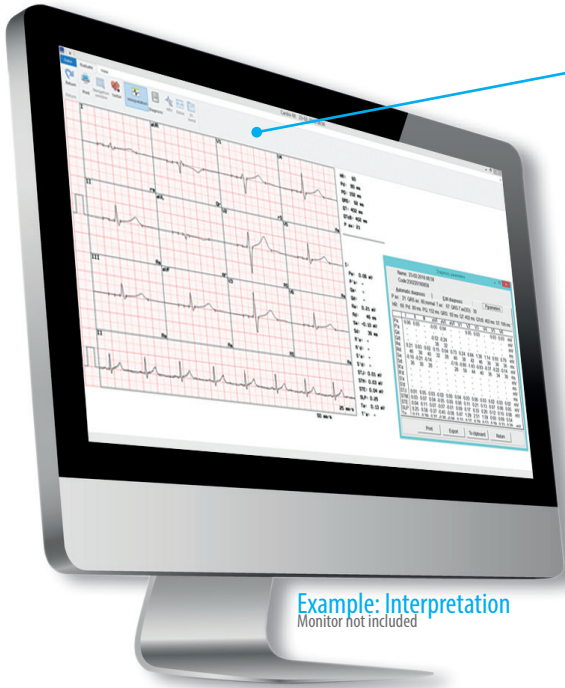
Dimensions	300 x 299 x 123 mm (WHL), about 4 kg	Sampling rate	500 sample per second
Display	7" TFT color display (800 x 480)	Filter	AC (50/60 Hz, - 20 dB or better) Muscle (25 ~ 35 Hz, -3dB or better) Base line drift (0,1 Hz, -3 dB or better) Low pass filter (OFF, 40 Hz, 100 Hz, 150 Hz)
Standard Parameters	Heart rate, PR, QRSd, QT/QTc, P-R Axis	Ground voltage	20uV (p-p)/max
Recording channels	3CH + 1 RHY, 3CH + 3 RHY, 6CH + 1 RHY, 12CH, 1CH long time (1 min, 3 min, 5 min, 10 min) and special report	Input impedance	$\geq 50M\Omega$
User interface	Touchscreen, hotkey, barcode-scanner, USB port	Input	$\geq \pm 5$ mV
Interfaces	LAN, WiFi (optional), 2x USB port	CMRR	> 100 dB
Input power	95~240 VAC, 50/60 Hz, 1.5 A	DC-Off set voltage	3.2 seconds
Output power	60 VA max	Current leakage on patient	<10 μ A
Battery	Removable and rechargeable Lithium battery (optional)	Recording	12 channel auto, rhythm, arrhythmia detection
Battery capacity	360 minutes continuous functioning without recording or 200 ECG's with full load	ECG Data storage	Internal memory up to 200 ECGs, USB stick
		File format	PDF, JPG, XML, MFER, DICOM



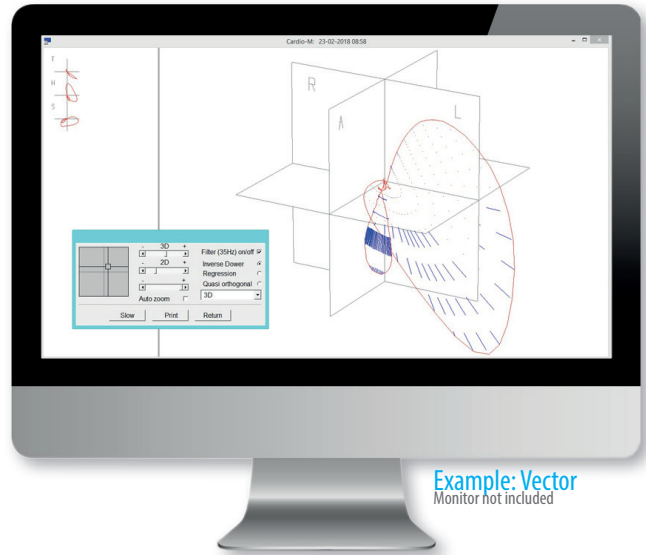
Complete accessory list available on request.



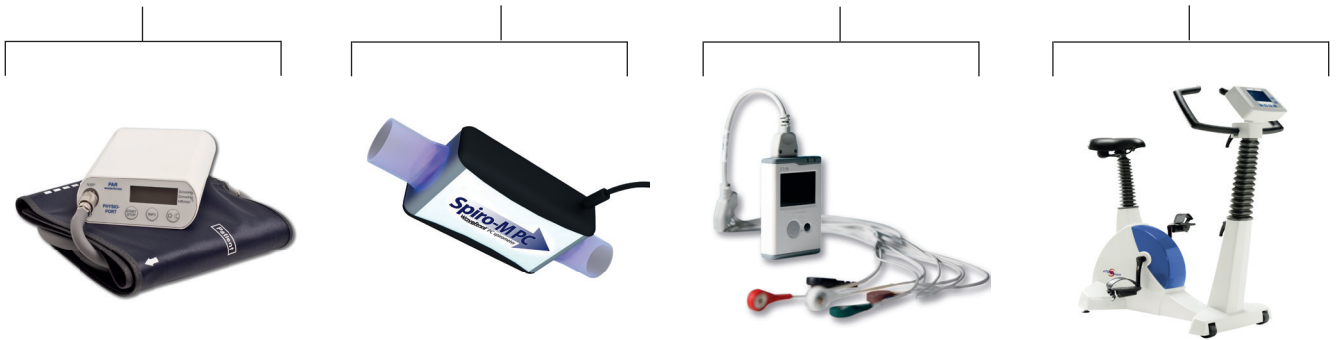
Export options



Example: Interpretation
Monitor not included



Example: Vector
Monitor not included



Long term blood pressure monitor

Spirometer

Long time ECG

Stress ECG

The products shown here are not included, but must be purchased additionally. For an individual offer please contact us.

CARDIO M-PC

ECG Workstation

The state of the art microelectronic combined with cardio software, make Cardio M-PC the ideal solution for your ECG workstation. An easy connection by USB port allows the mobile use by notebook PC.

12 channel ECG Einthoven, Goldberger, Frank, Nehb • Interval-(8/ 16/ 32 seconds) and continuous ECG data storage • ECG- Display and ECG- Comparison • Automatic measurement and interpretation by Mortara-Rangoni Algorithm • Assessment of heart rate variability (HRV) • 2D / 3D- Vector View • Emergency- ECG function • Network access up to 256 working stations (optional) • Expandable with spirometer, long term blood pressure measurement and long term ECG • HL7- interface for connection to EDP system

CARDIO M-PC BASIC
Rest ECG software
Article-No. 90-9500

CARDIO M-PC Net
rest ECG, network license
Article-No. 90-9501

CARDIO M-PC Ergo/Net
rest ECG, stress ECG, network license
Article-No. 90-9502

DDC digital diagnostic center software
Article-No. 31.90-9501

SPECIFICATIONS

Sampling rate	2000 Hz per channel	PC connection	USB	Operating system	Windows 7, Windows 8
Input impedance	> 10 MΩ	Power supply	+5 V (100mA) via USB-Port	Processor	min. 1,6 GHz Dual Core
Accuracy	0,05 μV/bit	ECG connection	12-pol standard	RAM	min. 2 GB RAM
A/D Converter	24 Bit	LED	Yellow: USB connection Green: ECG-monitoring	Hard disk	min. recommended 500 GB
CMRR	> 120 dB	Safety	IEC 601, BT-Type, Class II, USB galvanically isolated	Interface	1 free USB-port
Polarisation voltage	400 mV	Defibrillation protection	5kV (max. 1kV/μsec)		
Time constant	1,6 sec.	Dimensions	131 x 73 x 25 mm		
Linearity error	< 0,5% < 1/2 LSB	Weight	140 g		
Filter	524 Hz Low pass (hardware) 50, 100, 200 Hz (selectable) 60, 120 Hz (selectable) 35 Hz Tremor (selectable)	Measurement/ Interpretation	Mortana-Rangoni		
Leads	12 standard Frank Nehb	Interface	GDT, HL7, DICOM heart rate variability (HRV), arrhythmia detection, 2D/3D ECG-vector, emergency - ECG function, ECG-report transmission via Internet / ergometer control		

Advanced microprocessor synthesized by a software designed for cardiologists, ensure Cardio M-PC as ideal instrument for your ECG workstation. Mobile application on notebook PC is supported by the USB port.

Cardio M-PC package includes the high-powered ME-diagnosis center software with patient data base and HL7 interface for binding to the EDP system in practice, clinic, or for being integrated into the existent network. During the recording and afterwards, it is possible to adjust the ECG amplitude, the speed and the filter programme, to provide even better overview. During evaluation, the stored ECG data can be displayed in different views and compared up to other 5 ECGs.

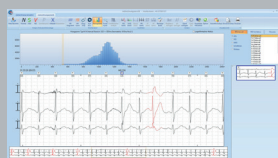
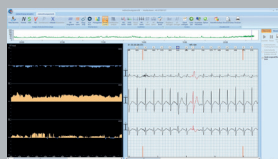
During ergometry, compatible treadmills, bicycle ergometers and blood pressure monitors are automatically controlled, and all ECG records are continuously analyzed and saved. The ECG data, together with heart rate, blood pressure value of heart rate variability (HRV) and the ST segment measurement are available in graphical and tabular form. Any comment entered during the stress ECG session, can be printed out separately at any time.

By applying Spiro M-PC, PhysioPort long time blood pressure monitor or Cardio M Holter long time ECG, you can enhance Cardio M-PC to a fully featured diagnostic station.

CARDIO TRAK

Long term ECG incl. Software

Sampling rate 10.000 Hz • Patented automatic analysis • Energy saving : 1x AAA battery for 96 hours recording • Light and comfortable, only 63g weight • Automatic pacemaker recognition • Complete data transfer within 10 seconds • LCD display for monitoring and electrode placement • Incl. patient cable (5 lead), software, SD card and bag.

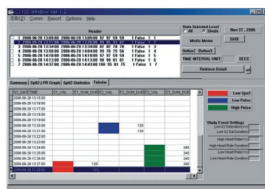


Software (Standard)

Article-No. 90-9453

SPECIFICATIONS

ECG channel	3 channel (5-lead ECG Cable)	Dimensions	91 x 57 x 16,5 mm	Battery type	1x AAA
Operation	LCD-display, indicator light, buzzer, button	Weight	about 60g	Storage temperature	-40°C - 50°C
Sampling rate	10.000 Hz	A/D accuracy	16 Bit	Humidity	max. 95%
Memory	4GB SD-Card	Frequency	0,05 ~ 410 HZ @ 3dB	Operation at altitude	-150 - 4500 meters
Recording time	24/48 hours 7/14 days (optional)	Resistance	> 10 MΩ	Storage	-150 -4500 meters
Pacemaker detection	3 channel synchronization detection	CMRR	> 90 dB		



PC-Software (optional)



Mounting infusion stand (optional)

PALMCARE PRO PULSE OXIMETER

Accurate pulse oximeter for all age groups

It measures oxygen saturation and pulse rate • 3" LCD colour display • Selectable screen mode (4 different views)
 • Display of SpO₂, pulse rate, alarm limit, pulse wave, perfusion index, battery status, alarm status, trend memory • Acoustical and optical alarm • Adjustable alarm limits • 4 x AA batteries or rechargeable accumulator
 • Dimensions: 154 x 72 x 26 mm • Weight: 273 g

Delivery includes SpO₂-sensor for adults, protective cover and 4 x AA batteries

Article-No. 50-2240

Article-No. 50-2300
 rechargeable battery version

SPECIFICATIONS

Measurement range	SpO ₂ : 0-100% Pulse rate: 30-250 bpm Perfusion: 0.05 - 20%	Protection type	IPX1
Saturation Accuracy	Adult/Child 70-100% ± 2 50-69% ± 3 0-49% unspecified Newborn 70-100% ± 3 50-69% ± 4 0-49% unspecified	Power supply	Receipt: 9 Vdc (max.) Back-up: 5A, 32VAC/DC 4 batteries 1,5 AA Capacity up to 10 hours Accumulator: Li-Ion Accumulator (2360 mA) Capacity up to 8 hours Charging time: ca. 6 hours
Pulse rate accuracy	30-250 bpm ± 3	Environmental conditions	Storage temperature: -20°C - 70°C Operating temperature: 5°C - 35°C Operating height: 0 ~ 2.000 m Humidity: 15-95%
Resolution	1 bpm	Dimensions	72 x 154 x 26 mm / ca. 273 g



Finger pulse oximeter ME 5

Small and handy finger pulse oximeter

For spot-check measurement in patients >25kg • Digital dissolution of pulse, SpO₂ and signal quality • Weight only 50 g incl. batteries • Measuring range of SpO₂: 70-99 %, Pulse: 30-235 bpm • L 58 x W 32 x H 34 mm • Incl. batteries, bag, and carrying cord.

Article-No. 22-5206



Finger pulse oximeter ME 7

Digital SpO₂ oximeter with pulse rate waveform

For measurement of oxygen saturation in the arterial blood (partial oxygen saturation or SpO₂) • Displays SpO₂, 3 pulse frequency value, battery performance and pulse intensity • The oximeter uses two types 1,5v AAA batteries • No alarm function available

Article-No. 21-5207

OPTIONAL ACCESSORY



Finger pulse oximeter ME 10

Digital SpO₂ oximeter with pulse rate waveform

Display is switchable to six different positions • Coloured and numeric display of SpO₂, Pulse and pulse as plethysmography • Weight only 50g (incl. batteries) • Measurement range of SpO₂: 70-99 %, pulse: 30-235 bpm • With alarm function • L 60 x W 34 x H 30 mm • Incl. bag, carrying cord, 2 batteries AAA

Article-No. 22-5205

defMASTER

Professional biphasic Defibrillation, pacing and complete monitoring in one portable device

- Defibrillation Mode, Monitor Mode, AED Mode, Pacing Mode are all in one • Cardioversion function enables to deal with atrial fibrillation.
- Internal defibrillation function enables open chest defibrillation.
- 1~360 joule energy selectable. • Implementing the custom shock sequence by applying Energy escalation function. • Patient Impedance Range: 25 ~200ohm.
- First and only 12 leads ECG diagnosis function (Glasgow algorithm) in Korea. • Automatically change energy based on choice and possible selection of adult and child patients.
- Built-in 5 country voice / text guide selectable (voice / text group can be specified). • CPR feedback function enables effective CPR implementation. • Voice recording confirms and strengthens on-site measures. • Multi-parameter function – 3, 5 leads ECG, SpO2, 2 IBP, 2 temp. EtCO2, NIBP. • Ambulance holder – Enhances usability by applying rechargeable wall mount. • Bed rail function enables patient bed to be fixed, enhancing usability. • 2 batteries installed, extending the battery life to 9 hours. • Pacing current max 140mA possible. • Equipped with 80mm thermal printer leads to expressing 3 channel waveforms.

Article-No. 10-4450

Available from 3rd quarter.



EMERGENCY CARE



SPECIFICATIONS

		Manual Mode	Shock Energy Level When connecting pads or external paddles: Adult: 1,2,3,4,5,6,7,8,9,10,15,20,30,40,50,75,100,125,150,175,200,300,360 J Pediatric: 2,3,4,5,6,7,8,9,10,15,20,30,40,50,75,100 J When connecting internal paddles: Adult/Pediatric: 1,2,3,4,5,6,7,8,9,10,15,20,30,40,50 J Automatic Discharge Time: 20, 60 seconds Synchronous Cardioversion: Energy transfer begins within 60msec of the QRS peak.	Interpretive Algorithm	University of Glasgow 12-Lead ECG Analysis Program
Display	8,4" TFT-LCD color 170 x 128 mm Resolution			Respiration	<u>IM Respiration</u> Technique: Impedance Pneumography Range: 0~150 bmp Resolution: 1 bpm Accuracy: ± 3 bmp Base Impedance: 500 - 2000 Ohm Delta Impedance: ≥ 3 Ohm Lead Off Detection: Yes <u>AW Respiration</u> Technique: Non-dispersive Infrared Spectroscopy Range: 0 - 150 breaths/min Accuracy: ±1 breaths/min
Alarms	Categories: Patient - and System Status Priorities: Low, Medium and High Priorities Notification: Audible and Visual Setting: Default and Individual Alarm Volume Level: 45 to 85 dB			NIBP	Pulse Rate Range: Adult/Pediatric/Neonatal 30-240 bpm Resolution: 1 bpm Accuracy: ±5% NIBP Technique: Oscillometric Measurement Measurement Modes: Off, Cont., 1,2,2.5,5,10,15,30,60,120 minutes / Edit program measurement interval Accuracy: ±3mmHg Resolution: 1 mmHg Defibrillator Protection: Protected
Dimensions	310 x 290 x 215 mm (WxHxD) 6,5 kg	AED Mode	1 ch ECG measurement Lead: Lead II Patient Impedance: When connecting pads or external paddles: 25 - 175 Ohm When connecting internal paddles: 15 - 175 Ohm Heart Rate: 20-300 bpm Charging Time to 200L: Within 5 sec at AC/DC rated voltage. Within 6 sec with fully charged battery power.	IBP	Pulse Rate Range: Adult/Pediatric/Neonatal: 20-250 bpm Resolution: 1 bpm Accuracy: ±1bpm IBP Measurement Range: BP: -50 to 300mmHg Resolution: BP 1mmHg
Printer	Type: Thermal Weight: 190 g Channels: 1 to 3 channels Paper Type: Thermal transfer paper Paper Width: 80 mm Printer Speed: 25 mm/sec, 50 mm/sec	Pacer	Mode: Demand or non-demand Rate: 30 ppm - 180 ppm (Increment unit = 2bpm) Accuracy: ±1,5% Output current: 0mA - 140mA Resolution: 2mA Accuracy: ±5% or 5mA, whichever is greater QES Marker: In the demand mode	SpO2	Measurement Range: Medtronic Module: 1~100% Accuracy: Medtronic Module: No movement: ±2 digits (70-100%) Low Saturation: ±3 digits (60-80%) Low Perfusion: ±2 digits (70-100%) If movement: ±3 digits (70-100%)
Electrical	Instrument: Power Requirement AC Mains 100 to 240V, 50/60 Hz, 140-130 VA Battery (Option) Type: Li-ion battery Dimensions: 105,40 x 143,97 x 36 mm (WxHxD) Voltage/Capacity: 452P 14.52V / 6600 mAh Discharge: A minimum of 200 shocks at 200 Jouls (per battery) Operating Time: 5 hours per battery Recharging Time: 8 hours with operating Defibrillator / Patient Monitor - 5 hours with power off Dual Battery: Automatic Switching	ECG	Heart Rate Measurement Rate: 0, 20 - 300 bpm Resolution: 1 bpm Accuracy: ±1 bpm or ±1%, whichever is greater ECG: Leads: 3/5/12 Lead Lead I,II,III,aVR,AVL,AVF,V1,V2,V3,V4,V5,V6, Paddles, Pads Lead Off Detection: Detected and displayed Pacer Detection: Detected pacer pulses of ±2mV to ± 700mV with pulse widths of 0.1 - 2msec and rise times 10% of width not to exceed 100 msec.		
Defibrillator	Biphasic Waveform / Biphasic Truncated Exponential / Resuscitation Guidelines: Selectable AHA/ERC	Capnography	Display Parameters: EtCO2, InCO2 Measur. Range: 0-150 mmHg (0-20kPa, 0-20%) Not decreased according to respiratory rate or I/E ratio Display Accuracy: ±2 mmHg		
Temperature	Probe Type: Thermistor probe YSI compatible type Measurement Range: 0.0 - 50°C (32-122°F) Resolution: 0.1°C Defibrillator Protection: Protected				
Trend	Type: 12 lead, Events, Trend Data Storage: Internal memory, SD card				

For further information please contact: info@medical-econet.com

ME PAD Trainer

Easy to use trainer for AEDs

ME PAD Trainer replicates the exact functions of the ME PAD semiautomatic defibrillator, allowing rescue students to familiarize themselves with the device and learn the basic skills needed to use the defibrillator in an emergency.

Simulates all functions of the ME PAD semiautomatic defibrillator • 8 pre-programmed training and demonstration scenarios according to AHA/ERC standards • Compatible with any type of educational manikin for Cardio Pulmonary Resuscitation • Voice and visual controls • Unique markings and colors to prevent unintended use in case of emergency • Compact and lightweight • Supplied complete with bag, reusable electrodes, remote control and batteries

Technical Specifications

The default setting for ME PAD Trainer-led CPR is 5 cycles, with 30 chest compressions and 2 ventilations, according to current American Heart Association CPR (AHA) guidelines.

ME PAD Trainer also allows you to customize the process by modifying the following parameters:

- Number of chest compressions
- Number of ventilations
- Number of cycles
- Number of chest compressions per minute
- Break duration
- Detailed guide selection

Article-No. 10-4310



Remote Control



Training Pads



CPR Manikin VINCENT

Reanimation phantom with audio feedback

Audio feedback on the compression speed and on the quality of the CPR, i.e. „press harder“, „press faster“, „You are doing well“ etc.

Visual feedback is given by the LED display on the forehead • Breast compression of 5 cm depth and frequency from 100 to 120 times /minute • Supports 10 languages: Korean / English / Chinese / Japanese / Indonesian / Vietnamese / Arabic / Spanish / German / French • Accessories: facial skin (1x), vinyl face shield (20x), vinyl lung bag (1x), user manual (1x), jacket (1x), carrying bag (1x), type D batteries (4x)
Dimensions: Shoulder width: 35 cm x height: 63 cm x depth: 21 cm

Article-No. 10-4300

Optional Features



Jacket



Transportation Bag



ME PAD SEMI

Public Access Defibrillator. Semi automatic AED for kids and adults

Shock output via shock button by following the instruction given by the device • All relevant data are internally stored • Long lasting battery: guarantees a standby time of up to five years or up to 200 shocks at full power • Automatic volume adjustment to the sound level of the surrounding environment • Daily, weekly and monthly automatic self-test • Emergency switch to pediatric mode without changing pads • Waveform: two phases E-cube • Weight: 2,4 kg incl. battery and pads • Dimensions: 260 x 256 x 69,5 mm • Incl. electrode pads for adults, battery and carrying bag

Article-No. 10-4300

ME PAD AUTO

Public Access Defibrillator. Fully automatic AED for kids and adults

Fully automatic shock output from the device • All the important data will be stored internally • Long lasting battery: Standby for up to 5 years or 200 shocks • Automatic volume adjustment to the sound level of the surrounding environment • Daily, weekly and monthly automatic self-test • Emergency switch to pediatric mode without changing pads • Weight: 2,4 kg incl. battery and pads • Dimensions: 260 x 256 x 69,5 mm • Incl. electrode pads for adults, battery and carrying bag

Article-No. 10-4600

SPECIFICATIONS ME-PAD Half- and Fully automatic

Output energy	Adults 150 Joule at 50 Ω Children 50 Joule at 50 Ω	Pads	Adults: Area: 120cm Cable length total: 120cm Shelf life: up to 36 months from the date of manufacture Children: Area: 46,43cm Cable length total: 120cm Shelf life: up to 24 months from the date of manufacture	10-4335	Wall cabinet with alarm
Charging time	10 seconds max			10-4305	Wall bracket
Charging time after CPR is completed	10 seconds at least			10-4303	Bag
ECG Derivation	Derivation II			10-4302A	Pads for adults
ECG Frequency response	1 Hz to 30 Hz			10-4306C	Pads for kids
ECG Impedance range	25 Ω bis 175 Ω (shock will not be delivered if the patient's impedance is beyond this range)	Data storage and transfer	Internal memory data capacity: 5 individual treatments, up to 3 hours per treatment SD card: Data may be copied from the internal memory to the SD card.	10-4301B	Lithium battery
Accuracy	Sensitivity and Specificity ANSI/AAMI DF80 guidelines	Standards	Sealed housing: DIN EN 60529: IP55 ESD: EN 61000-4-2:2001 EMI (high frequency): EN 60601-1-2 limits, method EN 55011:2007 + A2:2007, Group1, Class B EMI (Immunity): EN 60601-1-2 limits, method EN 61000-4-3:2006 + A1:2008 level 3 (10V/m, 80 MHz bis 2500 MHz) Vibration operating: switched on: meets MIL-STD-810G, Fig. 514.6E-1, random test standby: meets MIL-STD-810G, Fig 514.6E-2, sliding sine (Helicopter) Environmental conditions: Operation: 0° ~ 43° C, 5% ~ 95% (non condensing) Standby: 0° ~ 43° C, 5% ~ 95% (non condensing) Transport: -20° ~ 60° C, 5% ~ 95% (non condensing), device only		
Status LCD	Status of the device, battery level and status of the pads				
Speakers	Automatic volume adjustment to sound level of the surrounding environment				
Self-diagnostic test	Auto: switch ON, run-time, daily, weekly and monthly self-test Manual: test when the user inserts the battery				
Battery	Type: 12 V DC, 4,2 Ah LiMnO ₂ Capacity: at least 200 shocks with a new battery or 8 hours of operating time at room temperature+20°C Standby: at least 5 years from the date of manufacture				

Wall cabinet



Wall bracket



Bag



Lithium battery



Pads for kids



Pads



ECOPAD



ECOPAD

semi or fully automatic AED

The most economical AED.

ECOPAD defibrillator is available in 2 versions: semi-automatic or fully automatic · Function to detect and inhibit pacemaker pulses · Light weight of only 1.97 kg · Fast shock delivery time · 3 pre-programmed languages to guide through CPR – Protection & isolation class IP 55 · Easy to convert from adult to child mode · In compliance with 2015 ERC guidelines, as well as AHA guidelines · Large clear display showing: self-test (failed/passed), battery level, temperature and pad status · The included pads can be used for adults as well as children · Periodic self-test: daily, weekly and monthly · The ECOPAD defibrillator has the possibility to store activities via an SD card · Optional PC software for a complete overview of events

Article-No. 11-4100 (semi)

Article-No. 11-4150 (fully)

SPECIFICATIONS

Dimensions	200 x 286,5 x 90 mm (WxHxD) approx. 1,95 kg incl. battery w/o pads
Defibrillation	Wave form: Biphasic truncated exponential (BTE) wave form (impedance compensation) Delivered energy: Adults: 170 - 195 joules ± 5% Children: 44 - 51 joules ± 5%
ECG	Leads: II (RA, LL) Patient impedance: 25 - 200 Ohm Detection: V/F: greater than or equal 0,2 mV V/T: Adults: greater than or equal 15 bpm Children: greater than or equal 180 bpm
Display	Controls: Power button, Shock button, Patient mode switch button, Voice dial button Indicators: Visible: Action icon, status LCD (AED status, battery status, temperature statistics, pads status), LED Audible: Audio speaker (voice indicator, CPR indicator), beeper (CPR indicator, power on, critically low battery, self-test failed, abnormal operation alarm)
Self-test	Cycle: Daily, weekly, monthly, self-test at power-up and battery insertion Test result: Status LCD display: „0“ /”X“
Data backup and communication	Internal memory, SD card slot, infrared communication port

ACCESSORIES SPECIFICATIONS

Adult and children pads	Shelf life: 2 years from date of manufacture
	Electrodes: Disposable pads Placement: Adults: Anterior-lateral Children: Anterior-posterior Minimum active gel area: 80 sq cm ± 5% Cable length: approx. 1,8 m
Environmental conditions	Temperature: Operation: 0°C - 43°C Storage: 0°C - 43°C
Battery Type	Relative humidity: 5 - 95% RH (non-condensing)
	Type: LiMnO ₂ , disposable primary cell, long service life. Voltage/Power: 15V, 3000 mAh Shelf life (original packaging): 2 years from date of manufacture Standard life AED: 5 years from date of manufacture Discharge: At least 200 shocks (excluding the CPR phase between defibrillation therapies) or more than 6 hours of operation at 20°C

Languages selection button

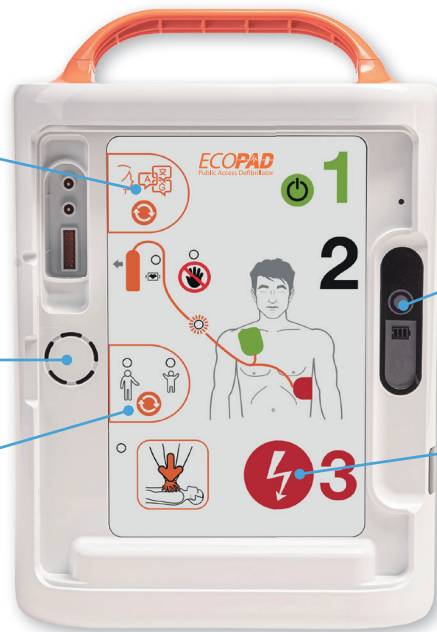
ECOPAD has three pre-programmed selection options for the appropriate language. This provides the greatest possible coverage of the understandability of the voice instructions.

Loudspeaker

The built-in loudspeaker plays back clear and comprehensible voice instructions. The volume automatically adjusts to the surrounding volume.

Shift key „Adults / Children

By using this switch button, you can quickly and easily change the mode from adult to child. The active mode is indicated by an illuminated LED.

**Status display**

The easy-to-read and generously designed display shows you the status of battery, pads, as well as the temperature statistics and AED status

Shock button

When triggered by the ECOPAD, this shock button must be pressed in the semi-automatic version. In the fully automatic version, this key has no effect



Remove the cover



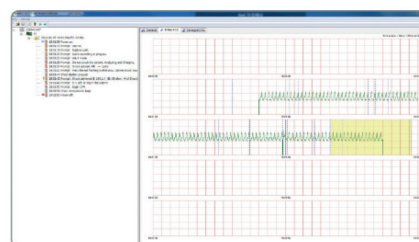
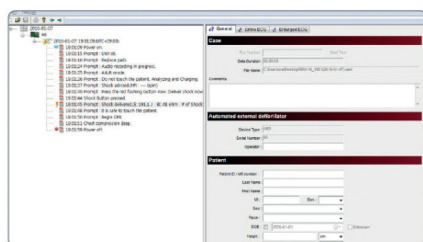
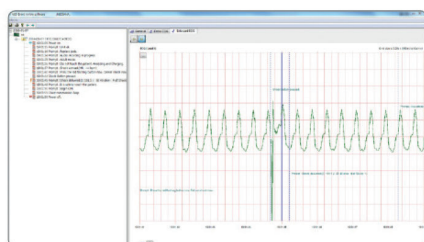
Apply the pads



The heart rhythm is analysed.



Press the shock button when prompted. (semi only)

ECOPAD - EVENT SOFTWARE (optional)**WHAT ARE THE ERC® GUIDELINES?**

The GRC is the professional society for resuscitation in Germany. All professional groups involved in emergency medicine and the aid organizations are represented by the GRC in an interdisciplinary and interprofessional manner. We see our central task in education, training and research in the field of resuscitation and reanimation.

Together with our members, our member organizations and business partners, we would like to further optimize resuscitation care throughout the entire rescue chain.

The association was founded on December 13, 2007, at the Reisenburg Castle Science Center of the University of Ulm. Thus, an interdisciplinary community of interest was also created in Germany, which unites all professional groups involved in emergency medicine under one roof.

Education, training and research in the field of resuscitation was formulated as the central task of the GRC at its foundation. For almost 10 years now, we have pursued the goal of supporting, promoting, and harmonizing interdisciplinary collaboration among all those involved and interested in resuscitation care. In addition, we evaluate research results from an expert perspective with regard to their relevance for recommendations and guidelines. Representatives of our association are involved, among other things, in the guideline conference for the preparation of the regularly revised guidelines of the International Liaison Committee on Resuscitation (ILCOR guidelines).

(Quelle: <https://www.grc-org.de/>)

SPECIFICATIONS

Scan-type	Point source emitter	Full-Body Scan	no
Scan-time		Skoliosis & Kyphosis detection	no
Spine	approx. 2 min.	Lateral measurement	no
Femur	approx. 3 min.	LVA measurement	no
Scan-area		Software	Windows 7, 8, 10
Femur	12 x 5,6 cm	Picture storage / Interface	DICOM / PACS
Spinal column	16 x 6,4 cm	Dimensions	max. 200 x 82 x 122 cm min. 121 x 82 x 122 cm
Measurement method	Non-Stop Scan (L1-L4, Dual Femur)	Weight	131 kg
Calibration	Automatic by measurement phantom	Package content	PC-workstation Printer PC-mouse, keyboard PC-desk Screen Power/Network cables
Analysis option	BMD, T- and Z-Score		
Paediatrics function	no		
Orthopaedics function	no		
FRAX© Analysis	yes		

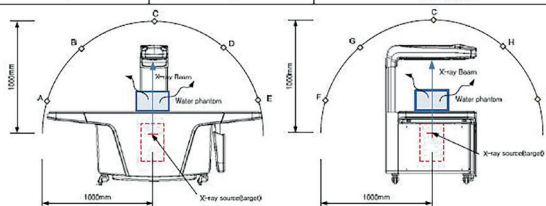


We offer to our customers of our DXA-Systems the worldwide support of remote maintenance. You can contact us in order for periodic check ups of your system or for helping you with the installation.

Feel free to speak to us for more detailed information about this topic and we will be happy to support you.

The Amount of leaked radiation of INUS D is as follows.

No	Position	Value of measured scatter radiation (uSv/hr)
1	A	0.862 uSv/hr
2	B	1.048 uSv/hr
3	C	1.012 uSv/hr
4	D	1.132 uSv/hr
5	E	0.958 uSv/hr
6	F	0.267 uSv/hr
7	G	0.209 uSv/hr
8	H	1.168 uSv/hr
9	I	1.156 uSv/hr



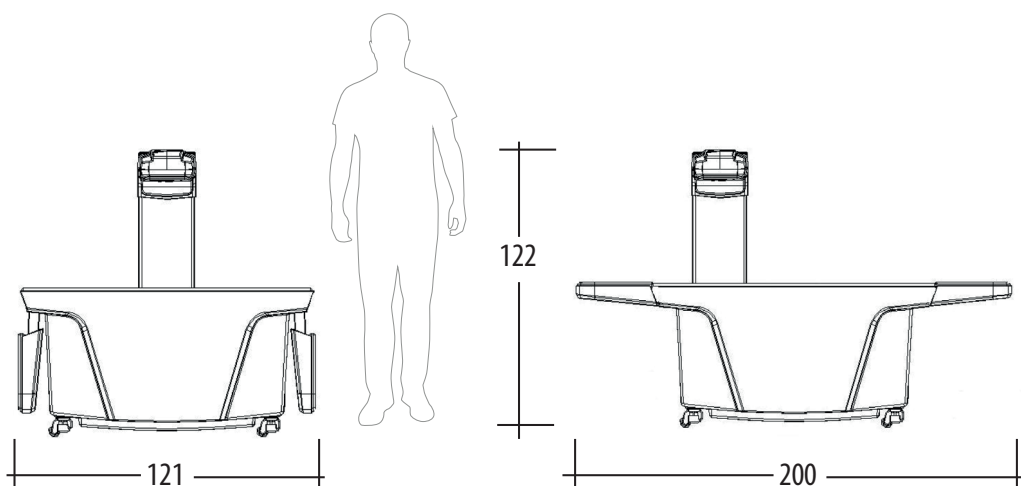
Key facts about Osteoporosis

Bone mineral density measurement is underutilized in majority of European countries. Reasons include limited availability of densitometers, restrictions in personnel permitted to perform scans, low awareness of usefulness of BMD testing, limited or non-existent reimbursement. (IOF (2001) Osteoporosis in the European Community: A Call to Action.)

The number of new fractures in 2010 in the EU was estimated at 3.5 million, comprising approximately 620,000 hip fractures, 520,000 vertebral fractures, 560,000 forearm fractures and 1,800,000 other fractures. (Hernlund E, Svedbom A, Ivergard M, Compston J, et. al. Osteoporosis in the European Union: Medical Management, Epidemiology and Economic Burden.)

Up to 20% of patients die in the first year following hip fractures, mostly due to pre-existing medical conditions. Less than half those who survive the hip fracture regain their previous level of function. (Keene GS, Parker MJ, Pryor GA (1993) Mortality and morbidity after hip fractures. BMJ 307:1248.)

Identifying and treating patients at risk of fracture, but who have not yet sustained a fracture, will substantially reduce the long term burden of osteoporosis. Reducing the risk of first fracture from 8% to 2% can reduce the 5-year fracture incidence from approximately 34% to 10%. (Lindsay R, Pack S, Li Z (2005) Longitudinal progression of fracture prevalence through a population of postmenopausal women with osteoporosis. Osteoporos Int 16:306.)



meX+ Image Acquisition Software

Professional acquisition software for X-ray images

meX+ is a professional acquisition software for X-ray images of flat panel system(DR)

The software will be sold only in combination with digital X-ray detectors.

The software allows a smooth and systematic workflow. A simple and intuitive user interface (GUI) used by touchscreen or mouse, completes the system.

The professional system meX+ image processing can be adapted to individual user needs and offers outstanding image quality. It has been specially developed to enable organ specific optimization, guaranteeing the highest quality X-ray images.

Many helpful integrated functions such as the radiographic positioning guide and intuitive operation simplify daily routine tasks greatly.

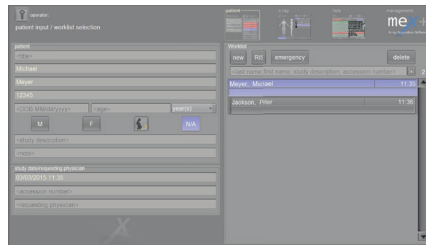
The integrated full dicomPACS viewer even allows the user to diagnose X-ray images within the acquisition software. Therefore, the system can also be applied as fully-fledged diagnostic workstation with the option to upgrade to a PACS (Picture Archiving and Communication System).

meX+ forms the core of a direct digital X-ray unit, whether it is a retrofit system to upgrade existing X-ray units, or a portable suitcase solution for mobile X-ray generators.

EXAMPLES FROM THE PRACTICE



Process operation of meX+ Image Acquisition Software



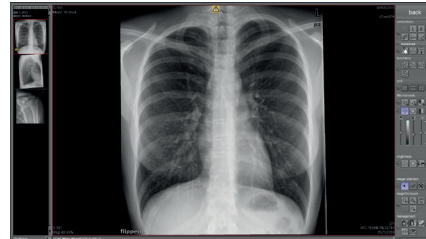
Step 1: PATIENT MANAGEMENT

- Capture of patient data via DICOM Worklist, BDT/ GDT, HL7 or other protocols – data may also be captured manually
- Safe and fast registration of emergency patients
- Searching for patients or studies



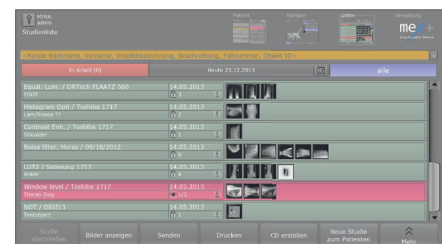
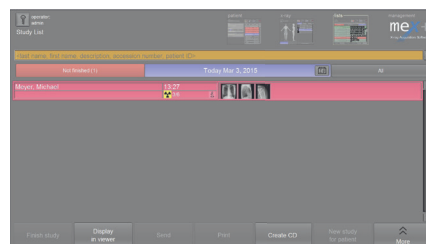
Step 2: PLANNING

- Freely configurable body parts with more than 400 projections and numerous possible adjustments
- Allows the user to switch between examinations of a patient, for instance to avoid the frequent position change of the patient
- Entry of recurring examination procedures as macros
- Fully integrated radiographic positioning guide for each examination incl. comprehensive notes, photos, videos and correct sample X-ray images



Step 3: DIAGNOSIS

- Completely integrated dicomPACS Viewer for image diagnosis
- Stepless zoom, (measuring) lens, rotate, mirror etc.
- Measuring of distances, angles, areas and density
- Adjustment of window/level options and gamma correction, sharpening filters, noise suppression
- Many additional functions such as calculation of Cobb's angle, HD measurements, pelvic obliquity measurements, integrated capturing of diagnostic reports etc.
- Special filters for the optimization of bones and soft tissue in one image – this enables the user to improve his diagnosis significantly
- Details of bones and microstructures are very easy to recognise
- Measuring function TPLO and TTA, MMP, distraction index determination, cardiac measurements



Step 4: STUDY MANAGEMENT

- Connectable to an image management system (PACS)
- Export of images to JPEG, TIFF, BMP and DICOM formats
- Printing of images both on Windows printers and laser imagers via DICOM Basic Print
- Creation of DICOM patient CDs with integrated viewer
- Integrated e-mail function
- Archive of all studies and comfortable search function



Especially for the fight against COVID-19 the mobile meX+ X-ray systems are ideally suited for pulmonary radiography and the diagnosis of pathological changes of the lung.

Our mobile meX+ digital radiography solutions are used in many regions of the world and prove successfully in action also in challenging environment as developing countries, conflict areas and disaster zones. At all times it is considered as unique assistive equipment in the medical care on site.

The extraordinary compactness of those X-ray systems makes the usage possible in smallest clinics and in most remote parts of the world.

Innovative battery-typed technology allows examinations also in surroundings without any power source.

Specifications meX+100

Max. output	5 kW at 75 kV
Tube Vol./Current	110 kV / 100 mA
Focal Spot	1,5 mm
Lamp	LED
PROM Memory	330 slots
Weight	19,6 kg



meX+100 and PXMS-2010

Mobile X-ray system

The portable X-ray generator meX+100 is equipped with an anatomic pre-set program and high-performance capacitor for stable power supply. Mounted on the folding mobile stand PXMS-2010 it is an optimal solution for mobile application fields and circumstances with limited space.

Specifications PXMS-2010

Folding by gas spring technology
Max. height of 210 cm
Weight: 31 kg

meX+1417WCC

Wireless and portable Digital Radiography

The meX+1417WCC is the combination of excellent image quality and highest mobility. The imaging size of 36x43cm enables the X-ray of all body parts and an intuitive operation due to the clear user interface of the equipped meX+ Image Acquisition Software. A safe and pleasing transportation is guaranteed by the light-weight meX+ DR Carrying Bag.

Specifications

Data Interface	wireless
Scintillator	Cesium-Iodide (CsI)
Imaging size	358 x 423 mm
Pixel Pitch	127 µm
Resolution	3,9 lp/mm
Image Acquisition time	5 sec.
Battery type	Lithium ion battery (3500 mAh)
Weight of detector	3 kg



Battery and charger



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