

MEDUCORE Standard²

Concentrate on the essentials in an emergency







(Focusing on the patient

You reach the scene of the emergency. The indication for the response call is "unexplained chest pain". The patient complains of pain, nausea and shortness of breath. You check their vital signs and realize that further assessments are necessary. ECG electrodes, NIBP cuff and pulse oximetry sensor are applied. It quickly becomes clear: this patient is seriously ill.

You record a 12-lead ECG and print it out. From the ECG analysis you suspect a heart attack. You send the ECG to the intended hospital for interpretation. The hospital responds within minutes, confirming your suspicion! While you are still preparing further measures to make the patient fit for transport, the patient suffers a cardiac arrest. It is now necessary to act quickly and correctly. Immediately initiating live-saving measures is now crucial!

In order to provide targeted assistance, userfriendly technology of the highest medical standard is required. MEDUCORE Standard² will not let you down! The compact monitor/ defibrillator can be quickly transported to the emergency scene and allows effective monitoring of all the important parameters and facilitates diagnostics. MEDUCORE Standard² also provides support if shock delivery is required.

WEINM/ANN



Your Benefits at a Glance



Concentrate on the essentials in an emergency

- All the necessary functions for extended emergency care in one light and compact unit
- 6-lead ECG for patient monitoring
- 12-lead ECG for extended ECG diagnostics (optional)
- Pulse rate and oxygen saturation control through ${\rm SpO}_{\rm 2}$ measurement
- Quick and easy non-invasive blood pressure measurement with the automatic NIBP measurement

Safely guided through resuscitation

- Support during resuscitation through automatic VF/VT analysis, voice prompts and metronome in AED mode
- Manual shock delivery for defibrillation and cardioversion in manual mode (optional)
- Shock delivery possible using paddles or electrodes

Intuitive and safe operation

- Quick and easy check on readiness for use with an interactive function check
- Quick start to care thanks to pre-defined patient groups: infant, child, adult
- Reliable patient monitoring with color-coded fields for parameters and curves
- Maximum safety for users and patients thanks to the professional alarm system





Service made easy

- Device reminds of service measures in good time
- Possible for the operator to carry out software updates independently
- Remote diagnosis and transfer of the service data by WiFi possible, if required (telesupport)
- After sales support and service for monitoring/ defibrillation, ventilation, O₂ supply and suction from one source

Digitalize measured values for patients and manage as required

- Contemporary interpretation of the 12-lead ECG on the display
- 12-lead ECG delivery by e-mail (optional)
- ECG printout option possible via an external printer
- Replay view to display curves and parameters from the internal memory (optional)
- Transfer function check results and session data (optional) by WiFi to the operator to be centrally documented and archived with WEINMANN Connect

Robustness on all levels

- Robustness confirmed by shock and vibration tests passed in accordance with DIN EN 60601-1-12, MIL-STD 810, RTCA/DO 160 and DIN EN 1789
- Suitability for ground emergency medical services and air rescue services confirmed in accordance with DIN EN 1789, RTCA/DO 160, DIN EN 60601-1-12 and MIL-STD 810
- Suitability for military use confirmed in accordance with MIL-STD 810

Configurable for your applications

- MEDUCORE Standard² meets different requirements for various applications.
 Configure your device individually according to your requirements – optional software functions make this possible.
- Individual configuration of the user interface to users' authorizationss
- Simple transfer of the device configuration to other devices using an SD card



ゆ Clear and Simple

1. Connection terminal for SpO₂, NIBP, ECG and master cable All sensors and electrodes connected to the patient are already pre-connected to the device.

 High resolution color display As large as necessary, as small as possible – thanks to color coding, higher resolution and strong contrasts, the display can be read at all times, even under adverse operating conditions. 3. WiFi and Bluetooth® interface For fast transmission of session device data.

 Professional alarm system Increased safety for patients and EMS personnel thanks to a large and bright LED lamp, loud alarm tones and adjustable alarm limits. The alarm can be muted or fully acknowledged.

5. Lithium-ion batteryFor up to 5 hours monitoring or approx.350 shock deliveries at 200 J without external power supply. Robust, compact housing
 Designed for the harshest conditions in an emergency response.

7. Function buttons To activate or deactivate the functions shown on the display.

8. SD memory card Records the session data.

9. Navigation knob Enables quick and easy navigation in the menus.



Basic Life Support: Basic monitoring with SpO₂, NIBP, 6-lead ECG, AED mode



Advanced Life Support: 12-lead ECG Manual defibrillation, cardioversion



Data transmission: e-mail, WiFi, Bluetooth®



Can be combined with a ventilator on a LIFE-BASE portable unit



Light, space-saving and rugged



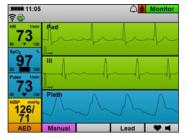
Intuitive and ergonomic



D Prepared for Anything with the Right Functions

MEDUCORE Standard² has many functions that can be optionally selected and added. In addition to the monitor mode, AED mode and NIBP function mode integrated as standard, other modes and functions can be added by enabling them in the software. That makes it very easy to adapt MEDUCORE Standard² to individual needs.





AED mode Acoustic and optical instructions guide the user through resuscitation.



12-lead ECG mode (optionally available) Enables further ECG diagnostics directly on the display.

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 ID20210238-1
 Image: Monitor

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12-lead ECG transmission (optionally available) Enables delivery of the 12-lead ECG by e-mail.

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NIBP function mode

Includes non-invasive blood pressure measurement and Tourniquet function.

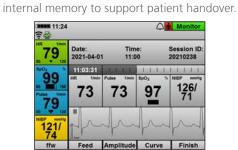
· 11:06 ?₿			4	Monitor
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Manual mode (optionally available)

Enables manual defibrillation for experienced users. Optional with synchronized shock delivery for cardioversion.



Replay view (ooptionally available) Loads the curves and parameter of the last hours from the



Upload session data (optionally available) Upload of device session data to the web portal

WEINMANN Connect.

🖬 10:19			4		
	Manual se	ession data	upload		
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2021-04-01	11:25	05:39	No	Yes	
2021-04-01	11:16	08:10	No	No	
2021-04-01	11:10	03:37	No	No	
2021-04-01	11:00	09:45	Yes	Yes	R
2021-04-01	10:46	08:15	No	No	
2021-03-31	13:24	179:21	No	No	
2021-03-26	16:25	\$ 0:10	No	No	
Upload	All	None	Cancel	1	

^{(IIII}) The most important parameters at a glance

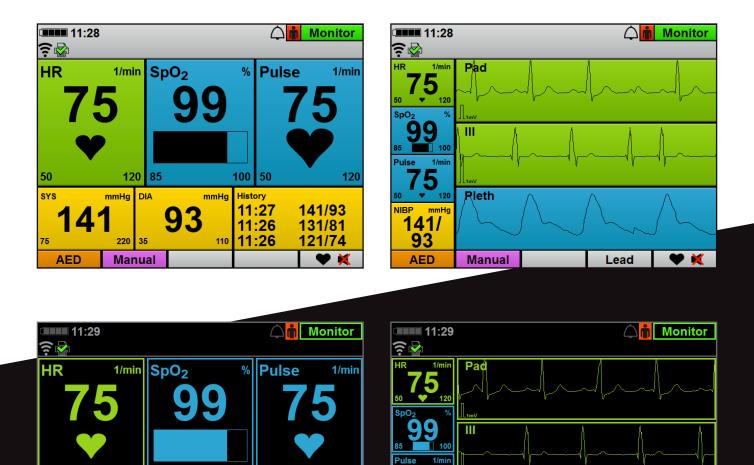
MEDUCORE Standard² gives you the choice. Do you use the classic curve view to monitor vital signs? Or do you prefer monitoring using large symbols and highly visible, clear numerical values? MEDUCORE Standard² offers you both, providing you with the greatest possible flexibility. You can switch between the curve view and parameter view at the press of a button, even when in use!

Parameter view

The parameter view displays the measured values for heart rate, pulse rate, oxygen saturation and blood pressure in large numerals. That means the values on the display can also be read without any problems from a greater distance – even during transport.

Curve view

The curve view allows you to view and evaluate ECG curves and the plethysmogram. This means you can identify the first indications of serious cardiac arrhythmias and take further measures.



 141
 93
 11:27
 141/93

 120
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 11:26
 131/81

 11:26
 121/74
 93
 AED
 Manual

 AED
 Manual
 Image: Manual
 Image: Manual
 Image: Manual

 Parameter night view
 Curve

100 50

120 85

Curve night view

Lead

Pleth

^(IIII) Good view even at night

120

Both curve and parameter view can be displayed in night view. Disruptive glare effects are minimized by inverted colors and the display can be optimally read, even in complete darkness.

Emergency diagnostics

The 12-lead ECG mode enables emergency personnel on site to identify heart attacks and other life-threatening cardiac arrhythmias. The recorded ECG can be evaluated in various ways:





Interpretation directly on the display

The ECG can be directly interpreted on the display. You can switch between the leads at the press of a button or adapt the ECG curves in their displayed amplitude and feed rate.

Extremity leads:

- according to Einthoven (I, II, III)
- and Goldberger (aVR, aVL, aVF)

Chest wall leads:

• according to Wilson (V1, V2, V3, V4, V5, V6)

Interpretation via paper printout

Alternatively, the ECG can also be printed out on paper and interpreted with an ECG ruler. This can be done regardless of location using our mobile printer with Bluetooth® connection.





Interpretation using a tele-emergency physician

Send the recorded 12-lead ECG by e-mail to an expert of your choice to obtain a second opinion. They can provide you with support in your diagnosis and in selecting a suitable hospital.

Defibrillation/ cardioversion

A life-threatening cardiac arrhythmia or cardiac arrest with ventricular fibrillation require immediate and appropriate intervention. MEDUCORE Standard² offers support in such cases.







AED mode | Basic Life Support

In AED mode, MEDUCORE Standard² provides safe guidance through resuscitation using voice prompts and a metronome. For defibrillation, all there is to do is press the shock button. Then the device guides the user through cardiopulmonary resuscitation in line with the guidelines.

- Automatic cardiac rhythm analysis and preparation for defibrillation
- User guidance with voice and text instructions
- Metronome to maintain the correct ventilation rate during chest compression(s)
- ECG lead display and plethysmogram
- Extensive range of operator settings for regional requirements
- AED mode for adults and children from 1 year of age

Manual mode | Advanced Life Support

Manual mode is reserved for experienced emergency staff, as the shock energy and time of shock delivery can be controlled manually. An option to lock manual mode is available, so it can only used by entering a freely selectable code.

- Shock energy can be set from 1-200 J
- Biphasic defibrillation impulse
- Impedance compensation
- Alarm sounds for asystole and VF/VT
- Display of duration after last defibrillation
- Display of number of defibrillations performed

Cardioversion | Advanced Life Support

Unstable patients with tachycardic arrhythmias can benefit from cardioversion treatment. MEDUCORE Standard² will support you in such cases by delivering shocks synchronized with R-wave.

- Requirement: manual mode is enabled
- Shock energy can be set from 1-200 J
- Shock delivery synchronized with the R-wave

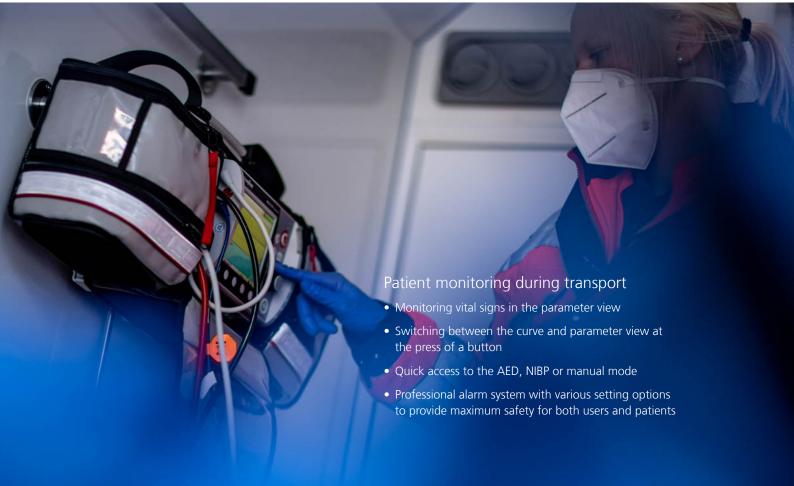


Basic check on the emergency patient at the accident site

- Vital signs at a glance in monitor mode
- Variable display of the 6-lead ECG with the I, II, III, aVR, aVL, aVF leads
- Display of the heart rate, pulse rate, oxygen saturation and blood pressure value

Detient monitoring

The integrated 6-lead ECG means you have all the relevant ECG leads for patient monitoring. Peripheral pulse rate and oxygen saturation are always under control thanks to integrated SpO_2 measurement. As MEDUCORE Standard² has automatic NIBP measurement, the device also monitors blood pressure for you – non-invasively and completely incidentally. That gives you scope to focus on the essentials!



Digital patient transfer of care

Handing over a patient to the emergency physician

If the emergency physician arrives later, the initial ECG recorded and initial measured values need to be handed over with the patient. This is where the replay view comes in, allowing measured values and ECG curves to be viewed retrospectively on the display.



Notifying the admitting hospital in advance

The hospital must be notified of an emergency patient's arrival as early as possible. With MEDUCORE Standard², emergency staff can send the recorded 12-lead ECG by e-mail to the hospital. Specialists at the hospital can thus perform ECG diagnostics before the patient arrives and, if necessary, prepare the cardiac catherization laboratory in good time. This reduces door-toballoon time and the patient receives optimum care immediately on arrival at the hospital.

ID205-1	Name:					WEINM/ANN
Patient: Device session number: Talephone contact: Device name: Time of recording:	65 years, male 00000205 0049 1724183467 Ambulance1 2021-04-01; 15:09:41	00205 HR: 72/min 49 1724183467 Pulse: 71/min foulance1 SpOg: 97%				
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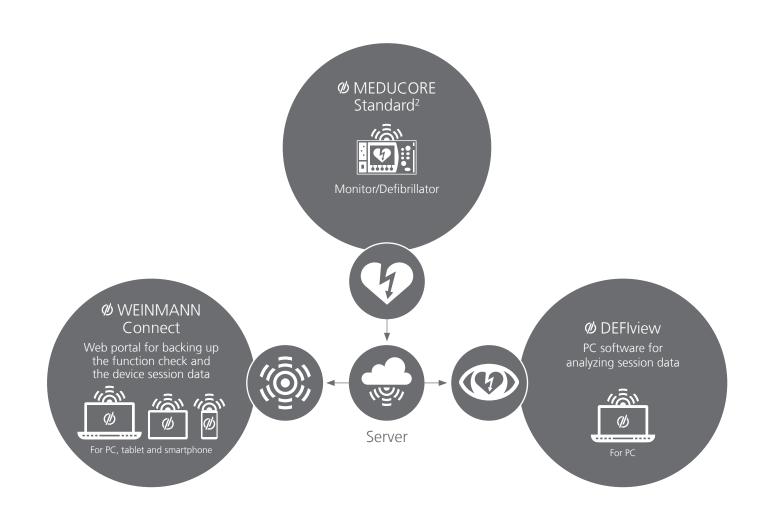


Document and evaluate session data

Important as it is to save and safely transport the patient, it is equally important to document session data. While you concentrate on emergency care for the patient, the monitor/ defibrillator documents all vital signs, curve progressions and any particular events from the time of switching it on.

Transmitting to electronic patient documentation systems

Ensure seamless session documentation. Recorded session data can be transmitted to an electronic patient care report (ePCR) such as MEDICALPAD by Bluetooth®.



Transmission to WEINMANN Connect

Backing up all session and device data is part of modern quality assurance. The WEINMANN Connect web portal reduces the complexity and effort involved in backing up data to a minimum, allowing you to concentrate on the essentials. After completing a session, the session data can be uploaded from the device at the press of a button to WEINMANN Connect via WiFi and archived.

Advantages of WEINMANN Connect

- Simplified device data management: overview of function check results, site administration, software version
- Central backup of session and device data (optional)
- For PC, tablet and smartphone

More information on the topic of data management can be found on our website: WEINMANN-Emergency.com



1 Technical Data

Device dimensions	W: 242 mm x H: 137 mm x D: 130 mm
Weight without battery	Approx. 2.25 kg
Weight, incl. battery	Approx. 2.75 kg
Product class according to Directive 93/42 EEC	llb
Temperature range for temporary operation	-20 °C to +55 °C
Temperature range for permanent operation	0 °C to +40 °C
Humidity	15 % RH to 95 % RH
Air pressure	540 hPa to 1100 hPa
Battery operating time	Approx. 5 h monitoring
Battery charging time (0% - 90 %)	Approx. 3.5 h
Power supply	12 V to 15.1 V
Saving of session data	Internal memory: approx. 9.5 h
SD card (32 GB)	Approx. 1,675 h
Data transmission	WiFi, Bluetooth®, SD card
Display type	TFT color display
Size	5.7"
Resolution	640 x 480 pixel
Information displayed	• ECG curves (I, II, III, aVR, aVL, aVF, V1 - V6)
	Defibrillation energy
	Time after last shock
	ECG lead via defibrillation electrodes
	Number of shocks delivered
	 Instructions for performing cardiopulmonary resuscitation Heart rate (30 to 250/min)
	 Pulse rate (30 to 250/min) Pulse rate (30 to 250/min)
	 Oxygen saturation (45 - 100 %)
	 SpO, plethysmogram
	 Blood pressure (systolic and diastolic)
	Time
	Session duration
	Battery capacity
	Alarm causes
Defibrillator	Shock form: biphasic, current-controlled, impedance-compensated, asynchronous (defibrillation)
Denbrinator	or synchronous (cardioversion)
Energy level	Adjustable 1 J to 200 J
Charging time	Approx. 8 s (200 J)
Shock sequence	Constant or escalating (programmable)
Patient impedance	5 Ω to 200 Ω
AED mode record	ERC 2015
Analysis time	8 s
Metronome	Adjustable to 100/min, 110/min, 120/min, deactivated
Duration between cardiac rhythm analyses	Adjustable from 120 to 300 s
Systolic blood pressure measuring range	40 to 260 mmHg
Diastolic blood pressure measuring range	20 to 200 mmHg
Venous stasis function	Yes
Interval measurement	30 s to 60 min
Alarm system	 Alarm limits: can be set for all measured values Automatic alarm function: Yes
	 VF/VT alarm: can be deactivated if required
	 Muting audio alarm output: if required, can be paused for 1/2/5/10 minutes
	or can be permanently deactivated
	Alarm tone acknowledgment: Yes
External printer	Print width: 80 mm
External printer	 Print width: 80 mm Printing method: direct thermal printing
	 Printing method: direct thermal printing Degree of protection against ingress of water/dust: IP54
	 Resistance to falls: 1.5 m
Dograp of protection against ingress of dust/	IP55
Degree of protection against ingress of dust/ water	
Standards used	DIN EN 60601-1, DIN EN 60601-1-2, DIN EN 60601-1-6, DIN EN 60601-1-8, DIN EN 60601-1-12 DIN EN 60601-2-4, DIN EN 60601-2-25, DIN EN 60601-2-27, DIN EN 60601-2-30,
	DIN EN 60601-2-4, DIN EN 60601-2-23, DIN EN 60601-2-27, DIN EN 60601-2-230, DIN EN 60601-2-49, DIN EN 60601-2-61, DIN EN 1789, RTCA DO 160, MIL-STD 810





We reserve the right to make changes to the technical specifications without notice.



1 Convincing Combinations

MEDUCORE Standard² can, of course, be individually mounted on our LIFE-BASE portable units. In addition, MEDUCORE Standard² can also be combined with an emergency and transport ventilator and optionally also with an oxygen cylinder. Both devices together on a LIFE-BASE provide an optimally matched unit, consisting of monitoring, defibrillation and ventilation in one hand!



Small, light and handy treatment solution with monitor and defibrillator. MEDUCORE Standard² with protective transport bag WM 9900



Monitor and defibrillator for ground emergency medical services and air rescue services – simple attachment to a BASE-STATION wall mounting. MEDUCORE Standard² on LIFE-BASE 1 NG XS, WM 9910





Compact treatment solution for emergency responses requiring a monitor, defibrillator and ventilator on one portable unit. MEDUCORE Standard² with MEDUVENT Standard on LIFE-BASE 1 NG XL, WM 9915







Full treatment solution to meet all requirements.



Configure YourPortable Unit to Suityour Requirements

You can configure your portable unit to suit your individual requirements. A short guide can be found on our website at: WEINMANN-Emergency.com. Scan the QR code with your cell phone camera or a QR code reader to access the website directly.





Accessories and consumable(s)

Blood pressure measurement

1.	NIBP connection hose • 2 m length • 3 m length	WM 45481 WM 45482
2.	Adapter tube for connection of NIBP disposable cuffs for neonates (without illustration)	WM 45467
3.	NIBP cuff, infant for 8-13 cm upper arm circumference, reusable	WM 45460
4.	NIBP cuff, child for 12-19 cm upper arm circumference, reusable	WM 45461
5.	NIBP cuff, small adult for 17-25 cm upper arm circumference, reusable	WM 45462
6.	NIBP cuff,adult for 23-33 cm upper arm circumference, reusable	WM 45463
7.	NIBP cuff, adult plus for 28-40 cm upper arm circumference, reusable	WM 45464
8.	NIBP cuff, large adult plus for 40-55 cm upper arm circumference, reusable	WM 45465
9.	NIBP cuff, thigh, adult for 38-50 cm thigh circumference, reusable	WM 45466
10	. Set of 20 NIBP cuffs, newborn Size 1 for 3-6 cm upper arm circumference, disposable	WM 45468
11	. Set of 20 NIBP cuffs, newborn Size 2 for 4-8 cm upper arm circumference, disposable	WM 45469
12	. Set of 20 NIBP cuffs, newborn Size 3 for 6-11 cm upper arm circumference, disposable	WM 45470
13	. Set of 20 NIBP cuffs, newborn Size 4 for 7-13 cm upper arm circumference, disposable	WM 45471
14	Set of 20 NIBP cuffs, newborn Size 5 for	

14. Set of 20 NIBP cuffs, newborn Size 5 for8-15 cm upper arm circumference, disposable WM 45472

Pulse oximetry

15. Pulse oximetry connecting cable	WM 45430
16. SoftTip® pulse oximetry sensorSize S, reusableSize M, reusableSize L, reusable	WM 45431 WM 45432 WM 45433
17. Pulse oximetry sensor, adult set of 24, disposable	WM 45436
18. Pulse oximetry sensor, child set of 24, disposable (without illustration)	WM 45439
19. Pulse oximetry sensor, infant set of 24, disposable (without illustration)	WM 45437
20. Wrap pulse oximetry sensor reusable	WM 45434
21. Fastening strap for wrap pulse oximetry sensor set of 10	WM 45442
22. Ear clip pulse oximetry sensor single item, reusable	WM 45435
23. Hook for ear clip pulse oximetry sensor set of 5	WM 45443

Defibrillation

24. Defibrillation electrodes, adult	WM 45418
25. Defibrillation electrodes, child	WM 45419
26. Master cable	WM 45397
27. Function test resistor (without illustration)	WM 45428
28. Paddles	WM 45498
29. Set of 12 electrode gel (without illustration)	WM 14291

A wider selection can be found in the supply catalog on our website: WEINMANN-Emergency.com













ECG

30. ECG cable ERC2 m length3 m length	WM 45451 WM 45452
31. ECG cable ERCwith ECG extension cable connection6-pole, 2.4 m length6-pole, 3.4 m length	WM 45455 WM 45456
32. ECG extension cable ERC for 12-lead ECG 6-pole	WM 45447
33. ECG cable AHA2 m length3 m length	WM 45453 WM 45454
34. ECG cable AHAwith ECG extension cable connection6-pole, 2.4 m length6-pole, 3.4 m length	WM 45457 WM 45458
35. ECG extension cable AHA for 12-lead ECG 6-pole	WM 45448
36. ECG electrodes for adults and children set of 50	WM 45201
37. ECG cable separator (without illustration)	WM 45450
Miscellaneous	
Miscellaneous	
38. ECG simulator6-lead ECG, shockable12-lead ECG, shockable	WM 45444 WM 45445
39. Adapter cable for connecting to Ambu/Laerdal practice manikin	WM 45424
40. Adapter cable for connecting	

41. Printer set consisting of printer, battery, printer bag and charger, incl. power supply unit and charger	WM 45640
42. 10 rolls print paper	WM 14698
43. SD card 32 GB memory capacity (without illustration)	WM 39510
44. Battery	WM 45045
45. Battery charging station	WM 45190
46. Power supply unit and charger	WM 28937
47. Charging adapter MAG (without illustration)	WM 28979
48. Adapter cable 12 V on-board power supply/circular connector (without illustration)	WM 28356

Optional functions

49. Manual mode	WM 45499
50. Cardioversion Requirement: manual mode is enabled	WM 45620
51. 12-lead ECG ECG cable with connection for extension cable ECG extension cable must be additionally order	
52. Printing Printer set must be additionally ordered	WM 45621
53. Replay view	WM 45628
54. E-mail delivery Requirement: 12-lead ECG is enabled	WM 45626
55. Bluetooth data transmission	WM 45624
56. Upload session data	WM 45627

A wider selection can be found in the supply catalog on our website: WEINMANN-Emergency.com

WM 45369

ShockLink®



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^(III) Service straight from the manufacturer

Telesupport – risk-free through remote diagnosis

Is your device ready for use? The quick and easy to perform function check gives you certainty at all times. MEDUCORE Standard² assists you by guiding you through the individual test steps. If your device is not ready for use, it may be due to various causes. For reporting purposes, you can transfer the service data of your device via a WiFi interface directly to WEINMANN Connect in a matter of seconds. Alternatively, you can save the service data on an SD card and send it to WEINMANN Emergency by e-mail. Ideally, this data alone will be sufficient to enable our service technicians to resolve the device fault with you via telesupport. However, if the malfunction requires closer inspection by our service technicians, we will simply provide you with a replacement device to bridge the downtime.

Service data: MEDUCORE Standard²

Manufacturer's warranty	2 years
Technical Safety Check ("Sicherheitstech- nische Kontrolle" in accordance with § 11 of the German regulation MPBetreibV) interval	1 year
Metrological check interval	2 years
Maintenance interval	Maintenance-free
COMFORT Plus service package with fixed annual fees available	~
Device-assisted function check with clear and brief summary	~
Function check result documentation on WEINMANN Connect	~
Software update can be carried out by the operator	~
Password-protected operator menu	~
Replaceable battery system*	~
Battery status display also on battery itself	~
External charging base for replaceable battery	Available as an option
Telesupport	~
Service information on the display, e.g. relat- ing to upcoming Technical Safety Checks and Metrological Checks ("Sicherheitstechnische Kontrolle" and "Messtechnische Kontrolle"	~

* You can use the removable rechargeable battery for MEDUCORE Standard², MEDUCORE Standard and MEDUMAT Standard² to support your logistical processes and simplify device handling during use.

in accordance with § 11 of the German

regulation MPBetreibV)

Easy and reliable software updates – your benefits as operator

- Always up-to-date with the latest software
- No deadline constraint, no waiting time you determine when you want to perform the update
- You decide who makes the update at your site thanks to the password-protected operator menu
- No risk performing the update is simple and reliable
- Maintain operational readiness shipping the devices is not required

Automatic reminder of intervals

MEDUCORE Standard² gives you reliable help with the planning of required servicing. The device reminds you in good time about any Technical Safety Checks and Metrological Checks that are due ("Sicherheitstechnische Kontrolle" in accordance with § 11 and § 14 of the German regulation MPBetreibV). At the end of the function check, the user is informed of the exact date of any upcoming service check. MEDUCORE Standard² thus supports operators in complying with their legal obligations.

Active support of your quality management and documentation processes

Important information is automatically archived:

- Up to 1,675 hours session date recording (ECG curves, plethysmogram, measured values, events and function checks). The session data can be optionally transfered to WEINMANN Connect and centrally archived. The PC software DEFlview enables sessions to be analyzed for debriefing and lessons to be learnt for subsequent sessions.
- Error-free standardization individual device configurations can be transferred from one device to others by SD card.



1 We Simplify Saving Lives

WEINMANN Emergency is a family-owned, internationally active medical technology company. With our mobile system solutions for emergency, transport and disaster medicine, we set standards for saving human lives. In close collaboration with professional users in emergency medical services, hospitals and military medical corps, we develop innovative medical products for ventilation and defibrillation. For more than 100 years we have offered our customers a high degree of reliability, extensive experience and quality made in Germany.

Headquarters

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