MEDLIGA
медицинское оборудование

WEINMANN
medical technology

MEDUCORE Standard²

Concentrate on the essentials in an emergency

WEINMANN
medical technology

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, user-friendly 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.

Your Benefits at a Glance

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

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 SpO_2 measurement
- Quick and easy non-invasive blood pressure measurement with the automatic NIBP measurement

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, O_2 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

Clear and Simple

1. Connection terminal
for SpO_2, NIBP, ECG and master cable
All sensors and electrodes connected to the patient are already pre-connected to the device.

2. 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.

4. 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 battery
For up to 5 hours monitoring or approx. 350 shock deliveries at 200 J without external power supply.

6. 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.

BLS

Basic Life Support:
Basic monitoring with SpO_2, NIBP, 6-lead ECG, AED mode

ALS

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

Prepared for Anything with the Right Functions

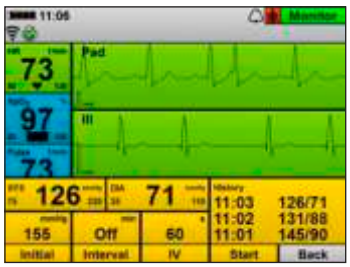
MEDUCORE Standard² has many functions that can be optionally selected and added. In addition to the monitor mode, AED mode and NIBP function mode integrated as standard, other modes and functions can be added by enabling them in the software. That makes it very easy to adapt MEDUCORE Standard² to individual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

Monitor mode

Displays all the vital signs at a glance –
with color coding making recording easy and intuitive.

NIBP function mode

Includes non-invasive blood pressure measurement and
Tourniquet function.



AED mode

Acoustic and optical instructions guide the user
through resuscitation.

Manual mode (optionally available)

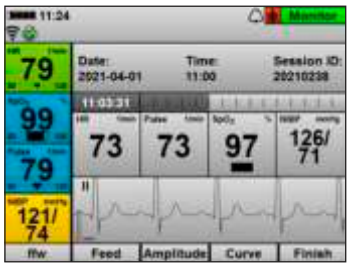
Enables manual defibrillation for experienced users.
Optional with synchronized shock delivery for cardioversion.

12-lead ECG mode (optionally available)

Enables further ECG diagnostics directly
on the display.

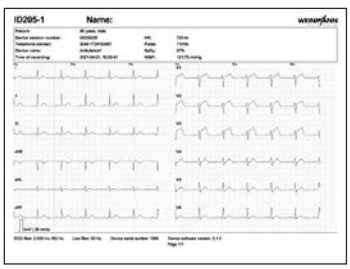
Replay view (ooptionally available)

Loads the curves and parameter of the last hours from the
internal memory to support patient handover.



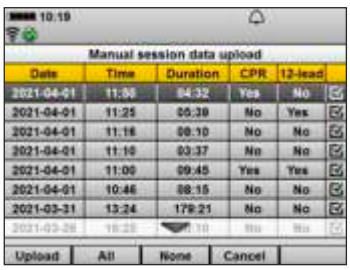
12-lead ECG transmission (optionally available)

Enables delivery of the 12-lead ECG by e-mail.



Upload session data (optionally available)

Upload of device session data to the web portal
WEINMANN Connect.

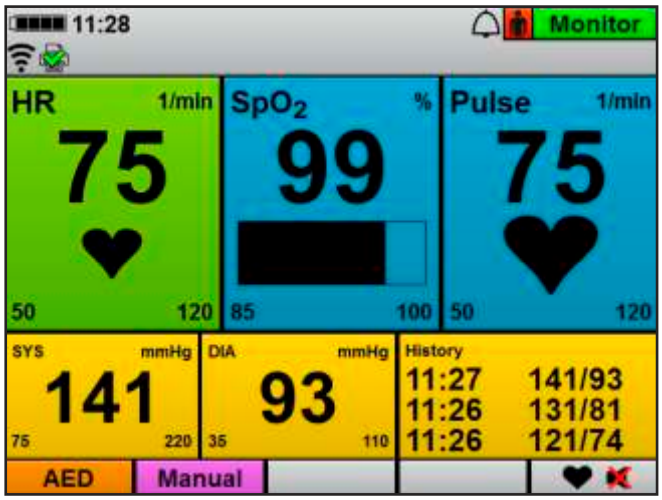


The most important parameters at a glance

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!

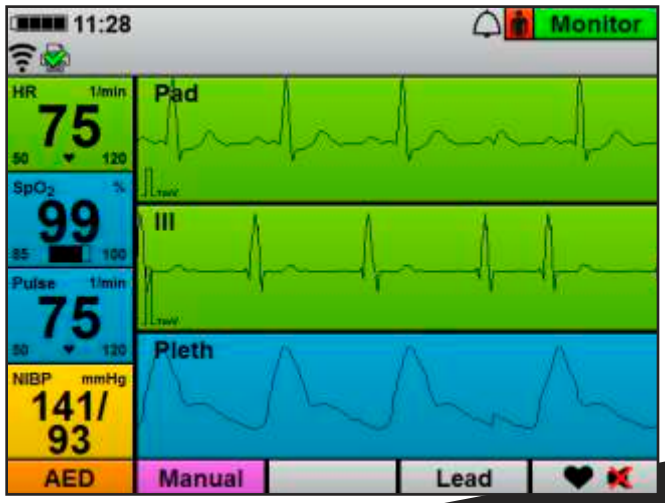
Parameter view

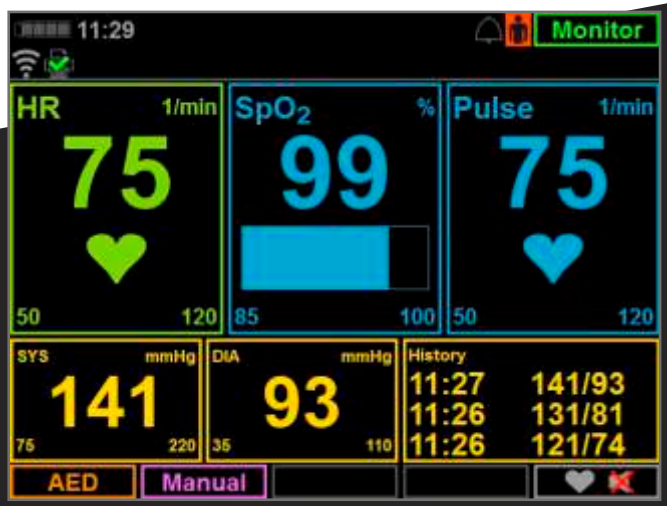
The parameter view displays the measured values for heart rate, pulse rate, oxygen saturation and blood pressure in large numerals. That means the values on the display can also be read without any problems from a greater distance – even during transport.



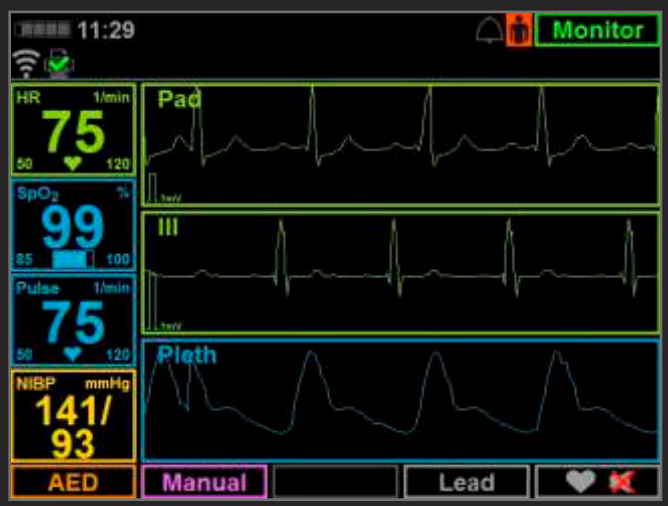
Curve view

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.





Parameter night view



Curve night view

Good view even at night

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

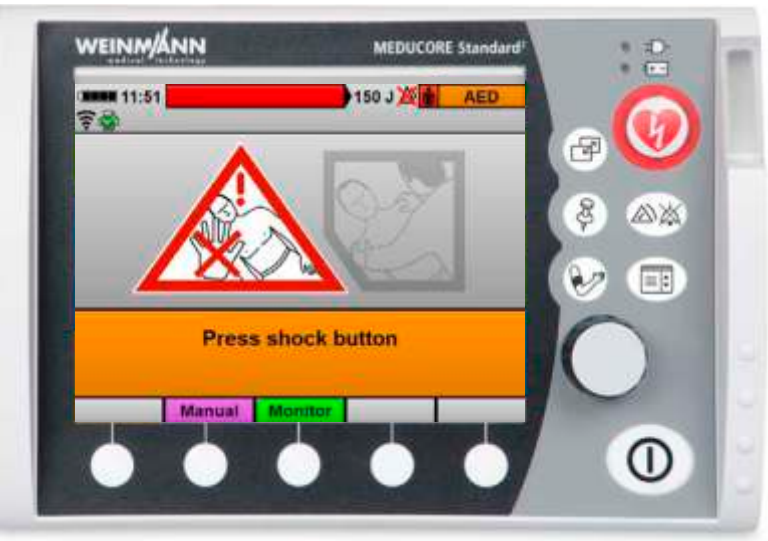
Alternatively, the ECG can also be printed out on paper and interpreted with an ECG ruler. This can be done regardless of location using our mobile printer with Bluetooth® connection.

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

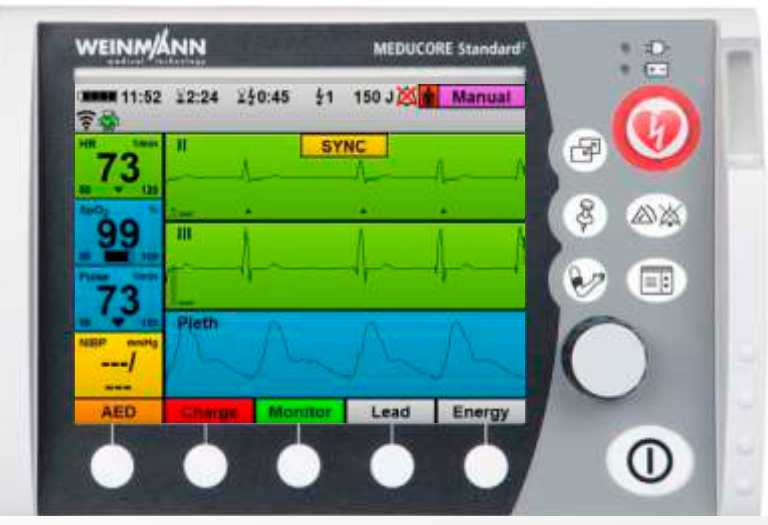
In AED mode, MEDUCORE Standard² provides safe guidance through resuscitation using voice prompts and a metronome. For defibrillation, all there is to do is press the shock button. Then the device guides the user through cardiopulmonary resuscitation in line with the guidelines.

- 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

Patient 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!

Patient monitoring during transport

- Monitoring vital signs in the parameter view
- Switching between the curve and parameter view at the press of a button
- Quick access to the AED, NIBP or manual mode
- Professional alarm system with various setting options to provide maximum safety for both users and patients

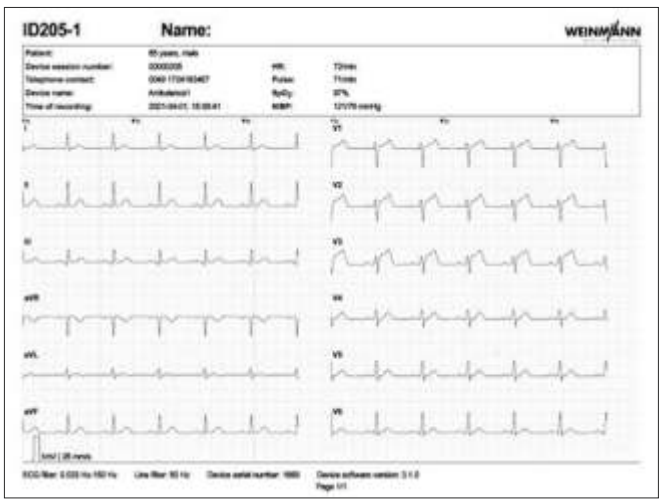
Digital patient transfer of care

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-to-balloon time and the patient receives optimum care immediately on arrival at the hospital.



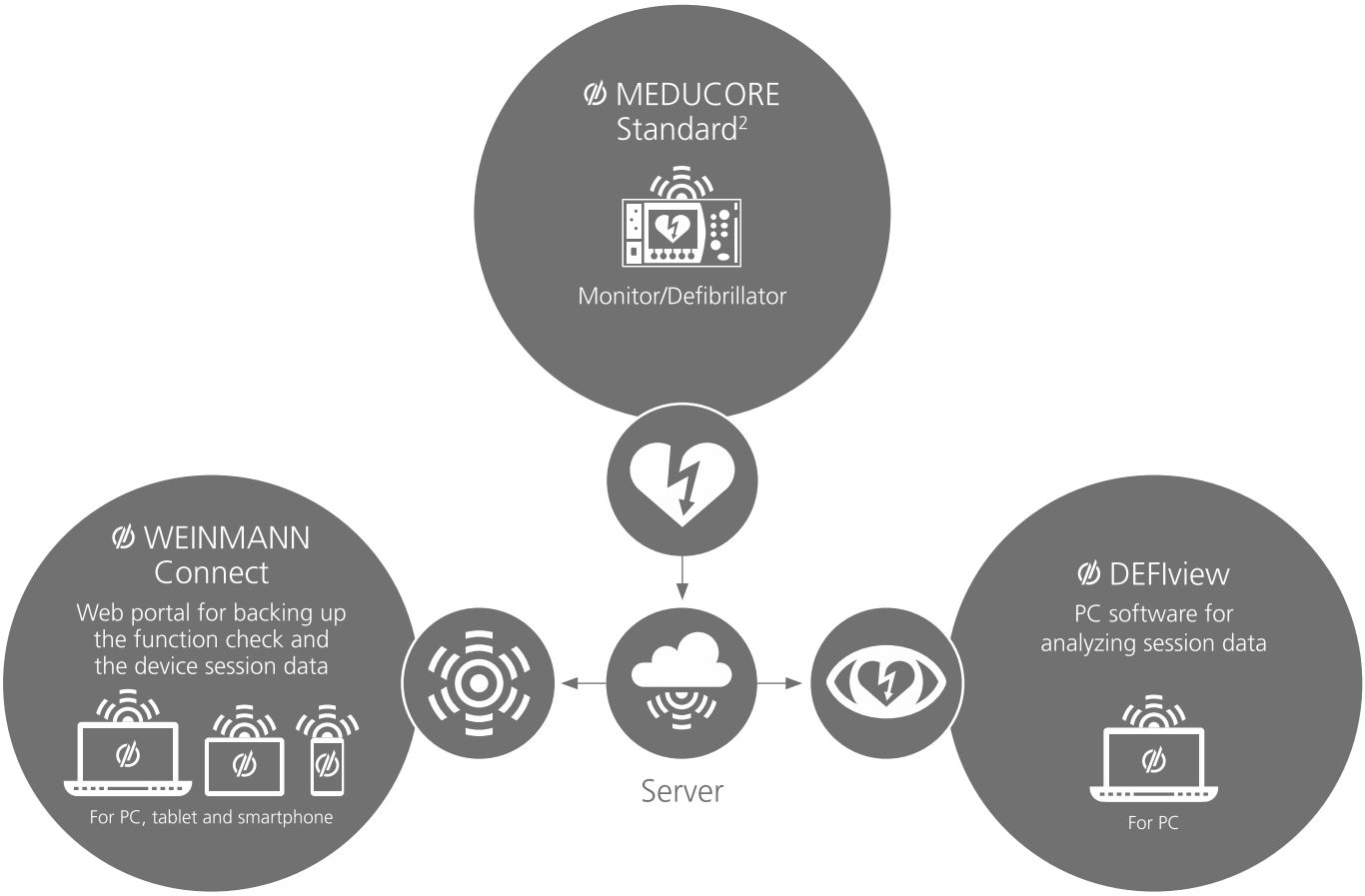
Data management

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

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	IIb
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) • Oxygen saturation (45 - 100 %) • SpO_2 plethysmogram • Blood pressure (systolic and diastolic) • Time • Session duration • Battery capacity • Alarm causes
Defibrillator	Shock form: biphasic, current-controlled, impedance-compensated, asynchronous (defibrillation) 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 • Printing method: direct thermal printing • Degree of protection against ingress of water/dust: IP54 • Resistance to falls: 1.5 m
Degree of protection against ingress of dust/ water	IP55
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 60601-2-49, DIN EN 60601-2-61, DIN EN 1789, RTCA DO 160, MIL-STD 810

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

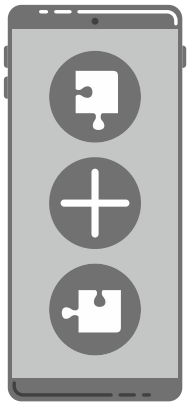
WEINMANN
medical technology

Full treatment solution to meet all requirements.

MEDUCORE Standard² with MEDUVENT Standard and O_2 cylinder on LIFE-BASE 3 NG, WM 9935

Configure Your Portable Unit to Suit your 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 — WM 45481
   - 3 m length — 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 8-15 cm upper arm circumference, disposable — WM 45472

Pulse oximetry

15. Pulse oximetry connecting cable — WM 45430
16. SoftTip® pulse oximetry sensor
    - Size S, reusable — WM 45431
    - Size M, reusable — WM 45432
    - Size L, reusable — 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

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ECG

30. ECG cable ERC
    - 2 m length — WM 45451
    - 3 m length — WM 45452

31. ECG cable ERC
    with ECG extension cable connection
    - 6-pole, 2.4 m length — WM 45455
    - 6-pole, 3.4 m length — WM 45456

32. ECG extension cable ERC for 12-lead ECG
    6-pole — WM 45447

33. ECG cable AHA
    - 2 m length — WM 45453
    - 3 m length — WM 45454

34. ECG cable AHA
    with ECG extension cable connection
    - 6-pole, 2.4 m length — WM 45457
    - 6-pole, 3.4 m length — 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 — WM 45450
    (without illustration)

Miscellaneous

38. ECG simulator
    - 6-lead ECG, shockable — WM 45444
    - 12-lead ECG, shockable — WM 45445

39. Adapter cable for connecting
    to Ambu/Laerdal practice manikin — WM 45424

40. Adapter cable for connecting
    ShockLink® — WM 45369

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 — WM 39510
    (without illustration)

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 — WM 45620
    Requirement: manual mode is enabled

51. 12-lead ECG — WM 45622
    ECG cable with connection for extension cable and
    ECG extension cable must be additionally ordered

52. Printing — WM 45621
    Printer set must be additionally ordered

53. Replay view — WM 45628

54. E-mail delivery — WM 45626
    Requirement: 12-lead ECG is enabled

55. Bluetooth data transmission — WM 45624

56. Upload session data — WM 45627