



medical **ECONET**
GERMANY

ME PAD ME PAD Automatic ME PAD Trainer

Layman defibrillation to help sudden cardiac arrest



Quickly applied ME PAD saves lifes

ME PAD and ME PAD Automatic are a layman defibrillator to help during sudden cardiac arrest.

Sudden cardiac death is a direct result of cardiac arrhythmias with approximately 150,000 cases per year in Germany alone, now one of the leading causes of death. The unexpected cardiac and circulatory arrest leads after one to two minutes to unconsciousness. Without help it decreases the chance of survival of the patient, by about 10-12 % with each additional minute.

If there is a risk of a sudden cardiac death, the only saving measure is the so-called early defibrillation. ME PAD & ME PAD Automatic have been specifically developed for use by laymen. Clear voice instructions and pictograms guide the helper through the entire resuscitation. Thus, without prior medical training, professional help can be immediately provided.

Features and Benefits

- Specially developed for use by laymen
- Available fully automatic speak various languages
- Internally save all relevant data of the last 5 resuscitations
- Strong Lithium-ion battery: stand-by for up to 5 years or 200 shocks
- Automatic volume adjustment to sound level of the surrounding environment
- Determine the impedance of the patient and evaluate the ECG of the patient
- CPR guide indicator
- Displaying Life expectancy of Electrode
- Automatic daily, weekly and monthly self-test
- Fullfull military standard MIL-STD 810G and IP55
- Emergency change to pediatric without changing pads
- Waveform: E-cube two phases
- Internal monitoring of the electrode pads for quality
- Always up-to-date through software updates
- Supplied complete with battery, electrode pads for adults and carrying bag
- 5 years full warranty

ME PAD

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How To Use ME PAD Defibrillators

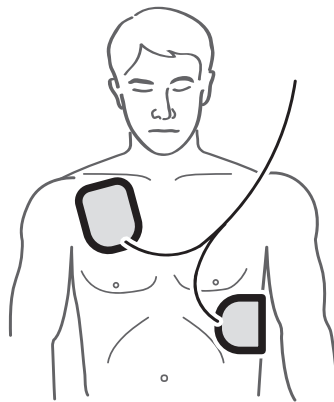
ME PAD defibrillators are ready to use at any place. Up to five operations of three hours of duration can be recorded on the internal SD memory card. At any time, all the important data such as heart rhythm, energy output, time, etc. are available for post-analysis. Software developed in compliance with current ERC guidelines. Detailed instructions are given to the user through the entire CPR.

1. Preperation and Power button



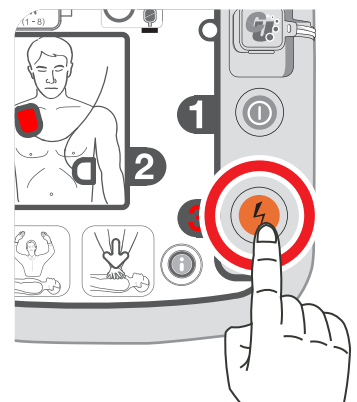
- Set the Adult / Pediatric selection switch to match the victim.
- Turn the device on by pressing the Power button.

2. Attaching pads



- Remove clothes from patient's chest.
- Remove the pads package from the pads storage compartment at the bottom of the device.
- Remove the pad cover and place pads on the patient.

3. Shock delivery after analyzing heart rhythm



- Keep away from the patient during analyzing heart rhythm.
- Press the Shock button if instructed.

**Please check the user manual for detailed instructions*

The Main Function of ME PAD Defibrillators

- Comprehensible voice instructions and pictograms guide the helper through the resuscitation.
- Emergency switchover to children under 25 kg possible without changing the electrode.
- All relevant data of the last 5 resuscitations are stored.
- Automatic self-test and indication of readiness on the display.
- Automatic adjustment of the volume of the voice announcements to the environment.



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Specifications

Dimension

Size:	260 (W) x 256 (L) x 69.5(H) mm
Weight:	2.4 kg including battery & pads

Defibrillation

Output energy:	Adult: 150 J at 50 Ω Pediatric: 50 J at 50 Ω (common usage)
Charging time:	less than 8seconds
Charging time after CPR finished:	at least 8 seconds
Waveform:	E-cube two-phase (truncated exponential type)

ECG

Acquired ECG lead:	Lead II
Frequency:	1 Hz to 30 Hz
Impedance range:	25 Ω to 175 Ω (Shock will not be delivered if the patient's impedance is beyond this range)
Shockable Rhythms:	Ventricular Fibrillation or Fast Ventricular Fibrillation
Sensitivity and Specificity:	meets ANSI/AAMI DF80 guidelines

Operational Guidance

Control Devices:	Power Button, i-Button, Shock Button (only ME PAD semi), Adult/Pediatric Selection Switch
Status LCD:	Displays device status, battery level and pads status
Speaker:	Plays back voice instructions. The CU-SP1 analyzes the ambient noise level during a treatment operation. If ambient noise level is high, it automatically increases the voice instructions volume so that you can hear them clearly.

Self-Diagnostic Test

Auto:	Power On Self-Test, Run-time Self-Test Daily, Weekly, and Monthly Self-Test
Manual:	Battery Pack Insertion Test (done when the user inserts the battery pack into the battery pack compartment of the device)

Disposable Battery Pack

Battery type:	12V DC, 4.2Ah LiMnO ₂ Disposable: Long-life
Capacity:	At least 200 shocks for a new battery or 8 hours of operating time at room temperature
Standby Life (After inserting battery):	At least 5 years from the date of manufacture if stored and maintained in accordance with the instructions in this document.
Temperature ranges:	Operating: 0 °C to 43 °C Storage: -20 °C to 60 °C

Pads

Adult Defibrillation Pads

Electrode area:	120 cm ²
Cable length:	120 cm (Inside the pouch: 95 cm, Outside the pouch: 25 cm)
Shelf life:	Up to 30 months from the date of manufacture

Pediatric Defibrillation Pads

Electrode area:	46.43 cm ²
Cable length:	Total 120 cm (Inside the pouch: 80 cm, Outside the pouch: 40 cm)
Shelf life:	Up to 24 months from the date of manufacture

Data Storage and Transfer

Internal memory data capacity:	5 individual treatments, up to 3 hours per treatment
SD card:	External memory. Data may be copied from the internal memory to the SD Card
IrDA:	For PC communications

Standards

Sealing:	meets DIN EN 60529: IP55
ESD:	meets EN 61000-4-2:2001
EMI (Radiated):	meets EN 60601-1-2 limits, method EN 55011:2007 + A2:2007, Group 1, Class B
EMI (Immunity):	meets IEC 60601-1-2 limits, method EN 61000-4-3:2006 + A1:2008 Level 3 (10V/m 80MHz to 2500MHz)
Vibration:	Operating: Meets MIL-STD-810G Fig.514.6E-1, random Standby: Meets MIL-STD-810G Fig.514.6E-2, swept sine (helicopter)
Languages:	German, English, French, Danish, Spanish, Norwegian, Italian, Czech, Portuguese, Greek, Swedish, Dutch, Polish, Lithuanian

Environment Conditions

Altitude:	0 to 15,000 feet (operational and storage)
Drop:	withstands 1.2-meter drop to any edge, corner, or surface
Temperature range:	Operation: 0° C to 43° C Standby: 0° C to 43° C Transport: -20° C to 60° C
Humidity range:	Operation: 5% ~ 95% (non condensing) Standby: 5% ~ 95% (non condensing) Transport: 5% ~ 95% (non condensing)

Accessory

Standard	Battery Pads Bag
Optional	Wall holder Wall cabinet Pediatric pads

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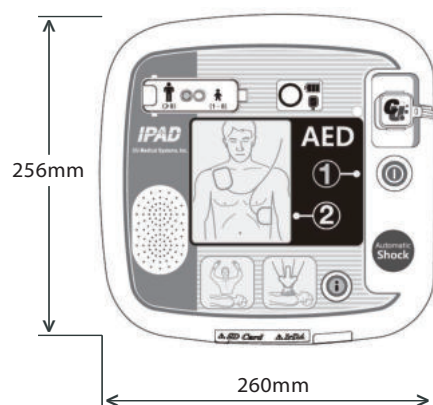
Specifications

Scenario (ME PAD Trainer)

Scenario 1 (S1):	1. Apply first shock, CPR 2. Reproduce normal rhythm, CPR
Scenario 2 (S2):	1. Apply first shock, CPR 2. Apply second shock, CPR 3. Reproduce normal rhythm, CPR
Scenario 3 (S3):	1. Reproduce normal rhythm, CPR 2. Apply first shock, CPR 3. Reproduce normal rhythm, CPR
Scenario 4 (S4):	1. Reproduce normal rhythm continuously, CPR
Scenario 5 (S5):	1. Apply first shock, CPR 2. Reproduce normal rhythm, CPR 3. Apply second shock, CPR 4. Reproduce normal rhythm, CPR
Scenario 6 (S6):	1. Reproduce ventricular fibrillation continuously, CPR
Scenario 7 (S7):	1. Apply first shock, CPR 2. Apply second shock, CPR 3. Reproduce normal rhythm, CPR 4. Apply third shock, CPR 5. Reproduce normal rhythm, CPR
Scenario 8 (S8):	1. Apply first shock, CPR 2. Apply second shock, CPR 3. Apply third shock, CPR 4. Reproduce normal rhythm, CPR

ME PAD Series Dimension

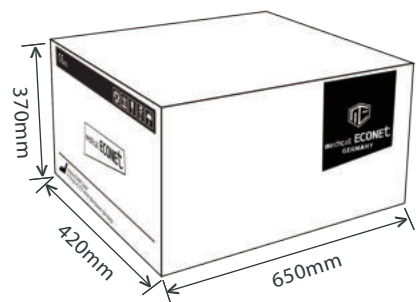
Top



Rear



Packaging



Approx. 5.6kg

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Accessory Information



Bag

Standard accessory



Battery

Standard accessory



Pads

Standard accessory



Pediatric Pads

Optional accessory



Wall Cabinet

Optional accessory



Wall Holder

Optional accessory



Remote Control

for ME PAD Trainer

Standard accessory



Training Pads

for ME PAD Trainer

Optional accessory

