



Technical data

DEFIGARD HD-7

System

Device

Dimensions: 322x 276 x 209.7mm (h/l/w) without bag

Weight DEFIGARD HD-7:

- 5.0 kg without paddles
- 6.25 kg with paddles

Ambient conditions

Temperature:

- Standard operation: 0 °C to 45 °C
- Transport/storage: -10 °C to 50 °C

Humidity:

- Operation: 10 to 95 % non-condensing
- Transport/storage: 10 to 95 % non-condensing

Atmospheric pressure:

- Operating: 650 to 1060 hPa
- Transport/storage: 500 to 1060 hPa

Protection case:

- Ingress protection: IP33
- Free fall: 0.5 m according EN1789+A2: 2014
- Transport: Occasional with medical vehicles - Road ambulances, device powered by its battery according to EN1789+A2: 2014

Electrical data

Mains supply: 100 - 240 VAC, 120 VA 50/60 Hz

Battery type: Lithium/ion 11 V, 6.4 Ah, 70.4 Wh

Battery capacity: 200 shocks with maximum energy or 8 hour monitoring with 32 NIBP measurements

Display

LCD colour capacitive touch display, protected by tempered glass

LCD Resolution: 800 x 480 WVGA

LCD Size: 7" (154 x 85.92 mm)

Modes: Colour + black & white (for high sunlight conditions)

Interfaces & Communication

Interface: Ethernet (via USB adapter) and USB 2.0

WiFi: 802.11b, g, n

- Security: WEP, WPA, WPA2 Personal and WPA2 Enterprise

File format: SEMA, PDF

Communication protocol: SCHILLER Restful, Email, SCHILLER ePCR protocol

Patient data transmission:

- Full disclosure ECG II curve
- Full disclosure ECG Defi curve
- Full disclosure impedance curve
- CPR feedbacks events
- Long ECGs
- Trends
- Screenshots
- Events and Patient information

Self-tests: Automatic transmission to SCHILLER Server every 24 hours or every 7 days

Software & Configuration update: Through the network with SCHILLER Update Server or via USB stick

Data storage capacity: for 24 hours monitoring (FIFO)

Measured parameters

ECC

Leads: 4 wire cable, simultaneous acquisition of 6 leads I, II, III, aVR, aVL, aVF

Heart rate: 15 to 350bpm

Amplitude: 0.25, 0.5, 1, 2 cm/mV

Lead Quality Management: lead off detection

SpO2

Technology: Masimo SET or Nellcor

Parameters: SpO2, peripheral pulse

Sensors: disposable and multi-use sensors for adult and children, for measurements on finger, ear or foot

NIBP

Measuring method: Oscillometric

Measurements: manual, automatic and venous blockage feature

etCO2 sidestream

Measuring method: Built in Masimo sidestream module

Parameters: etCO2, Respiration Rate and Apnea

Defibrillation

Defibrillation mode

AED

Manual (synchronised or asynchronised)

Waveform

Pulsed BTE (Biphasic Truncated Exponential) - Multipulse Biowave®

Energy

AED adult: 150/200/200 J - other energies settings can be configured

AED child: 50/50/50 J - other energies settings can be configured

Manual: 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-20-30-50-70-90-100-120-150-170-200 J

Internal defibrillation: 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-20-30-50 J

Pads

Type: for adult and child

Cable length: 2 m

Paddles

Type: for adult and child (removable adult clip)

Cable length: Spiral cable >2m

Buttons: Energy selectors +-, Charging, 2 x Shock, Event/Print

Indicators: Impedance OK indicator

Spoons

Cable length: ~3.5 m

Available spoon size:

- 67 x 88 mm - 54 cm²
- round 64 mm, 32 cm²
- round 28 mm - 6 cm²
- round 45 mm - 16 cm²
- oval 43 x 27 mm - 9 cm²



SCHILLER
The Art of Saving Lives



DEFIGARD HD-7

CPR feedback

Sensor: ARGUS LifePoint®

Measurements: Depth, speed and recoil¹ during chest compression

FreeCPR

Information on the chest compression frequency using impedance variation acquired with defibrillation pads.

Transcutaneous Pacemaker

Pacemaker

Operating modes:

- Demand
- Fixed frequency (FIX)

Output rate: 40, 45, 50, 60, 70 ... 240 beats/min

Output current: 10, 15, 20 ... 200 mA, steps of 5 mA

Printer

Thermal printer

High-resolution thermal head printer

Channels: 3

Speed: 25 mm/s

Thermopaper Format: Roll, 80 mm, 27 m length

Standards

Certification:

Protection class according to 60601-1: I

Applied Part according to 60601-1: CF, Defibrillator BF

Classification according to Directive 93/42/EEC: II b

Standards:

- IEC 60601-1: Electrical safety
- IEC 60601-1-2: EMC
- IEC 60601-1-6: Usability
- IEC 60601-1-8: Alarms
- IEC 60601-2-4: Defibrillators
- IEC 60601-2-27: ECG monitors
- IEC 80601-2-30: Non-invasive blood pressure monitors
- IEC 80601-2-49: Multifunction patient monitors
- ISO 80601-2-61: Pulsoximeter
- ISO 80601-2-55: Respiratory gas monitors (EtCO₂)
- IEC 60529: Protection indication

Notified body: CE 0459

¹ Except for France, Germany, UK and USA

