



Technical Data

medilog[®]AR

medilog[®]AR Office/Professional/Enterprise

Device

Dimensions: 83 x 60 x 18 mm
Weight: approx. 125 g without AAA battery
Protection against ingress of water: IP22
Keyboard: 2 Buttons for operation and patient event marking

Electrical data

Power:
- 1 x AAA 1.5 V single use or 1.2 V NiMH rechargeable battery
- 1 x Li-Ion 3.7 V 1000 mAh (Internal battery)

Charging current: max. 450 mA
Charging voltage: 5 V
Charging time: 0 to 80 %: approx. 2 h
Battery capacity: >14 days¹

Interface Bluetooth

Bluetooth 2.1, 3.0, 4.0 LE

Interface microUSB

Protocol: Mass storage device
Transfer speed: approx. 150 seconds for a 24 h recording

Display

OLED Monochrome white
Resolution: 128 x 64 px
Dimension: 30 x 15 mm
Signal check: true signal quality check with amplitude indication

Storage microSD card (SDHC)

Capacity: up to 32 GB
Typical recording size: 75 MB/24 hours

Recording duration

Recording duration without AAA battery:
- 24 h mode > 48 h
- 72 h mode > 80 h
- Infinity mode > 7 days
- Scientific mode > 24 h

Recording duration with AAA battery:

- 24 h mode > 72 h
- 72 h mode > 100 h
- Infinity mode > 14 days
- Scientific mode > 48 h

Voice recording

1 x 30 s (for patient identification)

Accelerometer

Axis: 3
Range: ±2 g
Recording frequency: approx. 25 Hz

ECG

ECG amplifier

Resolution: 15.5 bit
Sampling rate: 8000 to 32000 Hz
Oversampling: max. 128x
Recording rate: 250 Hz
Recording rate scientific mode (Enterprise): 1000 Hz
Lower filter frequency: 0.05 Hz
Analogue bandwidth: >1.0 kHz
Dynamic bandwidth: 12 - 14 mV, typically 13 mV
Resolution real time analysis R peak: 62.5 µs
Resolution real time analysis P peak: 500 µs
Resolution real time analysis pacemaker: 62.5 µs

Patient Cable

Leads: 5 or 7
Length: 0.85 m
Automatic cable type detection

Software

Software

medilog[®]DARWIN2

Environmental Conditions

Operation

Temperature: 5 to 45 °C
Humidity: 10 to 95 % non-condensing
Pressure: 700 to 1060 hPa

Transport and storage

Temperature: -25 to 70 °C
Humidity: 10 to 90 % non-condensing
Pressure: 700 to 1060 hPa

Standards

Classification

Safety and performance standard: Conforms with IEC/EN 60601-1-11 and IEC/EN 60601-2-47
Protection class according 60601-1: II
Applied Part according 60601-1: BF
Classification according Directive 93/42/EEC: IIa
Electromagnetic radiation: CISPR 11, class B
Notified body: CE 0123

¹ Power consumption and operation duration were measured with a Cactus Industrial Grade 2GB microSD Card (K2GRT-803M) - power consumption varies depending on the SD card, selected settings and the battery type used.

