



Technical Data

mediog[®]AR holter recorder

mediog[®]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 Button for operation and patient event marking

Electrical data

Power:
- 1x AAA 1.5 V single use or 1.2 NIMH rechargeable battery
- 1x 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, 4.0LE

Interface microUSB

Protocol: Mass storage device

Transfer speed: 2 1/2 minutes 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: 2 to 32 GB

Typical recording size: 75 MB/24 hours

Recording duration

Recording duration without AAA battery:

- 24h mode > 48 h
- 72h mode > 80 h
- Infinity mode > 10 days
- Scientific mode > 24 h

Recording duration with AAA battery:

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

Voice recording

1 x 30 s

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: 0.045 Hz

Analogue bandwidth: >1.0 kHz

Dynamic bandwidth: 14 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

Lead: 5 or 7

Length: 0.85 m

Automatic cable type detection

Software

Software

mediog[®]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 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 in the SD card the selected settings. Moreover, the operation duration varies depending on the battery type used.

