Technical data

CARDIOVIT AT-102 G2

System

Device
Dimensions: 384 x 319 x 90 mm (l/w/h)
Weight: approx. 4.5 kg with paper

Environmental conditions
Temperature: – Operation: 10 to 40 °C; – Transport: -10 to +50 °C – Storage: 5 to +50 °C
Humidity: – Operation: 15 to 95 %, non-condensing – Transport/storage: 10 to 95 %, non-condensing
Pressure: – Operation: 700 to 1060 hPa – Transport/storage: 500 to 1060 hPa

Electrical data
Power: Mains or battery operation
Power supply: 100 to 240 VAC, 1.3- 0.7 A 50 or 60 Hz
Power consumption: max. 64 VA
Battery capacity: 8 hours with ECG printout every 15 minutes

ECG

ECG amplifier
CF, defibrillation-protected (only with original SCHILLER patient cable)

Interfaces & Communication
Interface: LAN (Ethernet 1 Gbit), 2x USB, Potential equalisation, Kensington lock
WiFi: 802.11a, b, g, n
Security protocol: – WPA2-PSK – WPA2 Enterprise/ieee802.1, Authentication: PEAP, EAP-TLS, EPA-TTLS
PDF export: PDF / A-1a or b (A4 or letter) to USB stick

Memory
Internal memory: up to 350 ECG, 100 Resting Rhythm Recordings and 10 exercise ECG

Filter
Myogram filter: LP 25, LP 40, LP 150 Hz or off (250 Hz)
AC filter: 50 or 60 Hz

Recording functions ECG
12 lead simultaneous analysis
On screen review of ECG
Signal quality check and lead reversal detection
Standard, Cabrera
Lead configuration: Standard 12 lead, Pediatric, Right precordial, Standard C4r, Left posterior, Nehb, Balanced
Provides 10 seconds of instantaneous ECG acquisition
Resting Rhythm up to 10 minutes
Basic exercise ECG
Computerized measurements
QT correction: Bazett, Fredericia, Fremingham or Hodges

Spirometry

Recording functions Spirometry (optional)
Sensor: SpiroScout SP plus (see over)
Tests: FVC (with incentive screen), SVC, MVV
Standards: Normal standards selected for predicted value calculation
Review: On screen review of PRE and POST measurements
Interpretation: Automatic interpretation of FVC

Standards

Certification:
Safety and performance standard: 60601-1: Conforms with or exceeds IEC/EN 60601-1 and IEC/EN 60601-2-25
Protection class according 60601-1: I
Applied part according to 60601-1: CF
Classification according to Directive 93/42/EEC: IIa
Notified body: CE 0123

Components

Display
Colour LCD
LCD Resolution: 1024*768
LCD Size: 8"
Displayed leads: 6 or 12
Sensitivity: 5,10, 20 mm/mV
ECG speed: 12.5, 25, 50 mm/s
Review ECG: – on a grid of 88 x 152 mm – Review speed: 12.5/25/50 mm/s – Review amplitude: 5/10/20 mm/mV
Review Resting Rhythm: – on a grid of 95 x 140 mm – Review speed: 6.25 or 12.5 mm/s – Review amplitude: 2.5 or 5 mm/mV

Printer
Internal Thermal Printer
Selectable Print Formats
Real-time rhythm strip (Manual mode)
Printing number of traces in Real-time rhythm: 6 or 12
Thermal paper format: Z-folded, 210 mm wide (A4, 8.5 x 11 inches)
Paper speed manual printout: 5/12.5/25/50 mm/s
Sensitivity manual printout: 5/10/20 mm/mV

Keyboard
Sealed silicon alphanumeric keyboard
12 touch keys: Multifunctional keys
3 direct keys: Acquire resting ECG, start manual printout stop manual printout

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CARDIOVIT AT-102 G2

Spirometry Sensor

Sensor
Name: SpiroScout SP plus
Dimensions: 14 cm x 5 cm x 9 cm
Weight: 185 g

Electrical data
Power: Powered via USB 2.0, 4.5 to 5.25 VDC, 500 mA
Power consumption: Standby: 275 mA, 5 VDC (1.4 W), Measurement: 500 mA, 5 VDC (2.5 W)

Temperature
Operation: 15 to 35 °C
Transport: -20 to 50 °C
Storage: 5 to 50 °C

Humidity
Operation: 30 to 80 % non-condensing
Transport/storage: 10 to 95 % non-condensing

Pressure
Operation: 700 to 1060 hPa
Transport/storage: 500 to 1060 hPa

General
Measurement Method: Ultrasound
Patient protection and hygiene: ScoutTube: single patient use, disposable breathing insert ergonomically shaped mouthpiece and standard cone 22 mm
Respiratory resistance: 0.002 kPa/l/s = approx. 0.02 cmH_2O/l/s
Dead space, complete: 18 cm^3
Measurement Ranges:
– Flow: 0 to 16 l/s – Volume: 0 to 15 litres
Measurement Accuracy:
– Flow: ± 5 % or 200 ml – Volume: ± 3 % or 50 ml

Options

Hardware
Trolley
Schiller vacuum electrode system
Barcode scanner

Software
ETM (computer-aided ECG interpretation):
– ETM for adults and children (5.108002) incl. ETM Sport
Culprit Coronary Artery Algorithm Software (CCAA) (5.108004)
Worklist (5.108005)
Basic exercise ECG (5.108006)

Communication
Schiller Server required
– PDF export to HIS/EMR – DICOM/HL7 ECG export to HIS/PACS – HIS/EMR patient import for PDQ – HIS / EMR Results Export
Schiller Link
– PDF export to EMR – Patient data import

Warranty

Our general terms and conditions are available on www.schiller.ch

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