



Technical data

CARDIOVIT FT-2

System

Device

Dimensions: 424 × 274 × 44 mm (l/w/h)

Weight: approximately 3.82 kg

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 (maximum 3000 meters above sea level)
- Transport/storage: 500 to 1060 hPa

Electrical data

Power: Mains or battery operation

Power supply unit:

- Medical-grade switching power supply unit, protection class I
- Input: 100 to 240 VAC, maximum 2 to 0.7 A, 50 to 60 Hz
- Output to CARDIOVIT FT-2: 24 VDC, maximum 6.25 A, 150 W

Power consumption: maximum 64 VA

Battery capacity: 4 hours normal operation without print-out and without Wi-Fi

ECG

ECG amplifier

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

Interfaces and Communication

Interface: LAN (Ethernet 1 GB - RJ45), 3 x USB 3.0 (5V/ maximum 0.5 A), Potential equalisation, Connector for thermal printer. Kensington lock

Wi-Fi transmission standards: IEEE 802.11 a, b, g, n

Security protocol:

- WPA2 Enterprise/IEEE 802.1
- WPA2-PSK
- WPA-PSK
- TKIP
- AES

Frequency range: Dual band 2.4 GHz and 5 GHz

PDF export: PDF /A-1a or b to an attached USB memory stick

External printer: Connection to network printer

Memory

Internal memory: EMMC: Min. 2GB data storage for recordings (or 350 ECG, 100 rhythm ECG and 100 Spirometry recordings)

Filter

Myogram filter: LP 25, LP 40, LP 150Hz or Off (250 Hz)

AC filter: 50 or 60 Hz

ECG recording functions

12 lead simultaneous analysis

ECG recording functions

On-screen review of ECG

Signal quality check, lead reversal and lead off detection

Lead sequences: Standard, Cabrera

Lead configuration: Standard 12-lead, Paediatric, Right precordials (C3r - C6r), Standard with C4r, Left posterior C7 - C9, Nehb chest, Balanced

Provides 10 seconds of instantaneous ECG acquisition

Resting rhythm up to 20 minutes

Computerised measurements

QTc calculation: Bazett, Fridericia, Framingham or Hodges

Spirometry

Spirometry recording functions

Sensor: SpiroScout SP plus (see below)

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: Conforms with or exceeds IEC/EN 60601-1 and IEC/EN 60601-2-25

Protection class according to IEC/EN 60601-1: I

Applied part according to IEC/EN 60601-1: Type CF

Classification according to EU MDR 2017/745: IIa

Ingress protection: IP20

Notified body: CE0123

Manufacturer: SCHILLER AG

IFU reference: 2.511436

Components

Display

TFT-LCD with Multitouch

LCD resolution: 1366 × 768 dots

LCD size: 15.6"

Displayed leads: 12

ECG sensitivity: 5/10/20 mm/mV

ECG speed: 12.5/25/50 mm/s

ECG review:

- On an area of 118 × 192 mm
- Review sensitivity: 5/10/20 mm/mV
- Review speed: 12.5/25/50 mm/s

Rhythm ECG review:

- Review sensitivity: 2.5/5 mm/mV
- Review speed: 6.25/12.5 mm/s

Thermal printer (optional)

Selectable print formats

Real-time ECG rhythm strip (manual ECG printout)

Number of leads printed for real-time rhythm: 12; 6; 3 lead groups available

Thermal paper format: Z-folded, 210 mm wide (A4)



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CARDIOVIT FT-2

Thermal printer (optional)

Paper speed manual printout: 5/12.5/25/50 mm/s

Sensitivity manual printout: 5/10/20 mm/mV

Dimensions: 384 × 318 × 74 mm

Weight: approx. 2.53 kg

Resolution: High-resolution thermal head printer; 8 dots/mm (amplitude axis); 40 dots/mm (time axis 25 mm/s). Dots per line 1728

Trolley (optional)

Dimensions: 1400 × 631 × 590 mm

Weight: approximately 24 kg

Maximum load on surface: 5 kg

Maximum total load: 60 kg

Spirometry sensor

Sensor (optional)

Name: SpiroScout SP plus

Dimensions: 14 × 5 × 9 cm

Weight: 185 g

Electrical data

Power: Powered via USB 2.0, 4.5 to 5.25VDC, 500 mA

Power consumption: Standby: 275 mA, 5 VDC (1.4 W), Measurement: 500 mA, 5VDC (2.5W)

Environmental conditions

The operating conditions for the SpiroScout SP plus might differ from the CARDIOVIT FT-2 operating conditions (see above). The operating conditions of the system are defined by the most restrictive values.

Temperature:

- Operation: +15 to +35°C;
- Transport and storage: -20 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: 600 to 1060 hPa

General

Measuring method: Ultrasound

Patient protection and hygiene: ScoutTube: single-patient use, disposable breathing insert ergonomically shaped mouthpiece and standard cone 22 mm

Airway resistance: 0.002 kPa/l/s = approx. 0.02 cmH₂ O/l/s

Measurement ranges:

- Flow: 0 to ± 18 l/s
- Volume: no limit

Measurement accuracy:

- Flow: ± 2% or 50 ml/s (for a flow from 0 to 16 l/s)
- Volume: ± 2% or 50 ml

Options

Hardware

Trolley

Barcode scanner

Hardware

Spirometry sensor

Thermal printer

Software

ETM (computer-aided ECG interpretation):

- ETM for adults and children (5.108002) including ETM Sport

Worklist (5.108005)

Communication

SCHILLER Server required

- PDF export to HIS/EMR (Standard)
- DICOM / HL7 aECG Basic Waveform Export (5.602101)
- HIS/EMR patient import (ADT) for PDQ (5.602102)
- HIS / EMR Results Export (ORU, DFT, MDM) (5.602103)
- Orders Import licence for HL7 ORM protocol or DICOM modality worklist (5.602104)

SCHILLER Gateway required

- PDF export to HIS/EMR (Standard)
- DICOM Waveform Export (5.603002)
- HIS ORU Export (5.603004)
- DICOM modality worklist (5.603001)

SCHILLER Link

- PDF export to EMR
- Patient data import

Warranty

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

