

MESI mTABLET SPO2 Technical Specifications



Measurements:

Pulse oximetry and heart rate

Measurement Extensions*

6-minute walk test

*Available with upgrade

Measurement Range

SpO2 measurement: 45 – 100 %

Pulse frequency measurement: 20 – 300 bpm

Accuracy

Plethysmogram: 0 – 28 LSB

Raw plethysmogram: 0 – 224 LSB

Signal quality: 0 – 100 %

Power & Battery

High-power rechargeable Lithium-Polymer battery

Capacity: 1240 mAh

Examinations per battery charge: >8000

Continuous use: >56h

Charge time for depleted battery:

Approximately 2 hours

Input: 100-240V AC/50-60Hz/350mA

Output: 5V DC/5.0A

Charging Station

Dual purpose of the charging station: safe storage of the module between measurements and fully charged device at all times.

Width: 400 mm

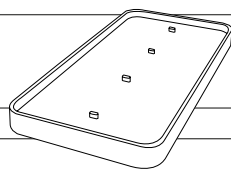
Depth: 200 mm

Height: 38 mm

Weight: 675 grams

Positioning types:

Desk, wall mount or trolley



Module Dimensions

Width: 40mm (1.57 inches)

Depth: 48mm (1.89 inches)

Height: 135mm (5.31 inches)

Weight: 210 grams



Smart Data Management

Secure report access with the out-of-the-box platform - MESI mRECORDS

MESI mPRINT service for secure printout through the internal network, direct .pdf storage on a local computer

Worklist integration for: DICOM, HL7, XML, GDT, JSON

Full custom integration upon request

Protection Classification

Type of protection against electric shock: Class II

Medical device classification: Class IIa

Applied parts: CF

RF emissions (CIPSR 11): Group 1, Class B"

Ingress protection: IP44

Applied Standards

EN 60601-1 General requirements for Safety

EN 60601-1-2 Electromagnetic compatibility - Requirements and tests

EN 80601-2-61 Particular requirements for basic safety and essential performance of pulse oximeter equipment

Operating Conditions

Temperature, operating: 10° to 40°C

Relative humidity: 25 to 85% (no condensation)

Pressure during operation: 700 to 1060 hPa

Transport & Storage Conditions

Temperature:

-15° to 50°C (<1 month)

-15° to 40°C (<3 month)

-15° to 25°C (<12 month)

Relative humidity: 25 to 85% (no condensation)

Pressure during operation: 700 to 1060 hPa

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Operating System: MESI OS

Processor: CPU Quad ARM Cortex A53

@ up to 1.2GHz per core

Barcode reader: 1D/2D barcode imager

Screen: 1280 x 800 px IPS

Storage: 8 GB

RAM: 1 GB

Connectivity: Wi-Fi 802.11b/g/n

and 2.4 GHz single band Bluetooth 4.1

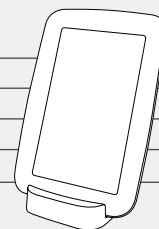
Camera: 5 MP

Environment: IP2x, 90 cm drop resistant

Audio: Mono speaker

Security: 2 step authentication, user password or PIN

Battery operation: more than 8 hours of continuous use



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CE 1304, ISO 9001
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