MESI

Simplifying Diagnostics

Pre-order Primary app package now and get the **Quick add-on for free!**

MESI mTABLET SPIRO

The most versatile digital spirometer

- **Wireless** mode of operation for practice or home-care use
- Pneumotachograph technology with **integrated self-calibration** for accurate measurements at any time
- **Automatic best breath selection** with a clear and intuitive measurement review
- **Part of the MESI mTABLET system**, providing all system functions and integration capabilities



Why MESI mTABLET SPIRO

- Multiple measurement modes and parameter calculation options: **quick, primary or advanced spirometry app package**
- Automatic selection of the best of all repeated maneuvers with the **BestBreath™ detection**
- Detailed report with the ability to **switch between charts and values** for a clear interpretation
- Option to compare different measurements on the same screen through **MESI mRECORDS**

MESI mTABLET SPIRO Technical Specifications

Measurement Specifications

Quick spirometry:

Measurement mode: FEV6

Parameters: PEF, FEV1, FEV6, FEV1/FEV6

Primary spirometry:

Measurement modes: FVC, SVC*, Pre- & Post-Drug Phase

Parameters: PEF, FEV1, FEV3, FEV6, FEV1/FVC, FEV1/FEV6, EF75 (FEF75), MEF50, MEF25, MMEF, SVC*

Verification of each maneuver through on-screen quality indicators.

*available: end of May 2021

Advanced spirometry**:

Measurement modes: FVC, FIVC, FVC+FIVC, SVC, MVV, TV, Pre- & Post-Drug phase, Incentive mode

Parameters: PEF, FEV1, FEV3, FEV6, FEV1/FVC, FEV1/FEV6, MEF75 (FEF75), MEF50, MEF25, FIVC, FIV1, FIV3, FIV6, PIF, MIF75, MIF50, MIF25, MMEF, SVC, MVV, MVVFR, MVVT, TV, FR, MV

**available: July 2021

Sensor type

Pneumotach

Calibration

Automated self-calibration 1/s, based on the ambiental conditions and pre-calibrated mouthpieces

Accuracy & Reproducibility

Meets or exceeds ATS (1994), ERS (1993), and ATS/ERS (2005)

Measurement range

Volume range: 0-14 L

Flow range: +/- 14L/ sec

Quality checks

ATS Acceptability and ATS Reproducibility checks

Power & Battery

High-power rechargeable Lithium-Polymer battery

Capacity: 620 mAh

Examinations per battery charge: >150

Continuous use: >4h

Charge time for depleted battery:

Approximately 1 hour (minimum charge time for a complete measurement using the FVC mode: 10 minutes)

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

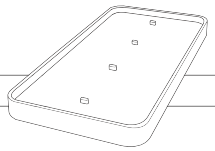
Depth: 200 mm

Height: 38 mm

Weight: 675 grams

Positioning types:

Desk, wall mount or trolley



Module Dimensions

Width: 40mm (1.57 inches)

Depth: 40mm (1.57inches)

Height: 140mm (7.05 inches)

Weight: 220 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: IP30

Applied Standards

EN 60601-1 General requirements for Safety

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

EN ISO 26782 Anaesthetic and respiratory equipment — Spirometers intended for the measurement of time forced expired volumes in humans

Operating Conditions

Temperature, operating: 10° to 40°C

Relative humidity: 25 to 85% (no condensation)

Pressure during operation: 700 to 1060 hPa

Warm up period of 5 minutes

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)

MESI mTABLET Technical Specifications

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

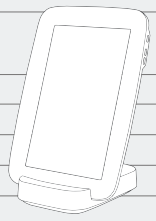
Camera: 5 MP

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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No.1 Leading provider of Ankle-Brachial Index measuring technology

Worldwide presence

European production and development

ISO 9001 Q-1664
ISO 13485 M-049

CE 1304, ISO 9001 and ISO 13485 certified

CE 1304