SPIROLAB SPIROMETER: 7" TOUCHSCREEN AND SPO_2 OPTION

MIR MEDICAL INTERNATIONAL RESEARCH

CE 0476

FDA 510 (K)

Health Canada

33519

Miniflowmeter for reusable and disposable turbine (Ø 30 mm)

Dimensions: 220x210x51 mm (8,66x8,26x2")
Weight: 1450 g (3,1lb) (battery pack included)

7" TOUCHSCREEN DISPLAY
PEDIATRIC INCENTIVE SYSTEM
DATABASE FOR 10,000 TESTS
USB 2.0, BLUETOOTH

- **33519 SPIROLAB® SPIROMETER WITH 7" TOUCHSCREEN**
- **33520 SPIROLAB® SPIROMETER WITH 7" TOUCHSCREEN AND SpO_2**

Fast, simple, durable diagnostic spirometer with Miniflowmeter.

Features

- FVC, VC, MVV, PRE/POST Bronchodilator comparison with a wide range of selectable parameters
- long life rechargeable battery
- colour Touchscreen 7" display
- direct connection to external USB Printer PostScript
- 10,000 Spirometry tests or 500 hours of oximetry recording
- selectable internal software languages: GB, FR, IT, ES, DE, PT
- fast and silent built-in B/W printer with customizable printout format

Oximetry option (only 33520)

Adult (standard) and pediatric (optional) reusable finger probe available.

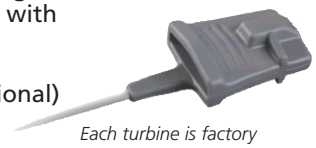
Fast and user friendly

Each function can be activated by a simple touch.

FlowMIR® disposable turbine - complies with ATS/ERS standard

Totally disposable (mouthpiece, turbine) guarantees 100% hygiene, no cross contamination. No calibration required.

MDR certified



Each turbine is factory calibrated with a computerized system and is individually packed in a clean room

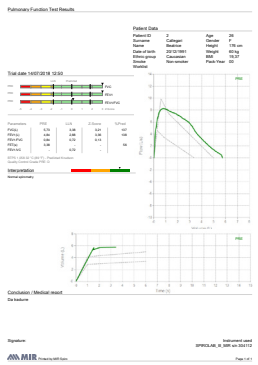
33507

Suitable for children

Patented pediatric incentive directly on the screen. No need of adaptor.

MIR Spiro Basic PC software

High perfomances PC software for spirometry. See page 320.
Multilingual software: GB, FR, IT, ES, DE, PT, PL, HU, RO, NL, LV, SE, CZ, RU, TR, JP, CN.



Printout: spirometry report

GIMA code	MIR code	ACCESSORIES AND SPARES	Minimum order
33410	-	Adult mouthpiece - Ø 30 mm ext	box of 500
33493	-	Thermal paper - 112 mm x 25 m	box of 10
33507	910004	Disposable turbine with integrated mouthpiece	box of 60
33525	-	Antibacterial filter - disposable	box of 50
33523	532367	Micro USB cable for PC connection	
33695	-	SpO_2 probe - adult - spare	
33696	-	SpO_2 probe - paediatric - optional	
33697	910595	Miniflowmeter with cable - spare	

TECHNICAL SPECIFICATIONS - OXIMETRY (33520 only)

SpO_2 range:	0-99%
SpO_2 accuracy:	± 2% between 70-99% SpO_2
Pulse Rate range:	18-300 bpm
Pulse Rate accuracy:	± 2 BPM or 2% whichever is greater
Memory capacity:	up to 500 hours oximetry

OXIMETRY PARAMETERS (33520 only)

%SpO_2 and Pulse Rate (Min, Max, Average), Test duration, Total SpO_2 Events, T90% (SpO_2 time ≤89%), T89% (SpO_2 time ≤88%), T40 (Bradycardia duration with Pulse Rate <40 BPM), T120 (Tachycardia duration with Pulse Rate >120 BPM)

STANDARD ACCESSORIES

Battery charger	MIR Spiro basic PC software
1 roll thermal paper	USB port and cable
Reusable turbine	SpO_2 adult sensor (33520 only)
Carrying case	Manual: GB, IT, (FR, ES, DE, PT available on www.gimaitaly.com)

TECHNICAL SPECIFICATIONS - SPIROMETRY

Power supply:	Rechargeable battery, approx. 10 hours autonomy
Battery charger:	100-240 V, 50-60 Hz, 400-200 mA
Temperature sensor:	semiconductor (0-45°C)
Flow sensor:	bi-directional digital turbine
Flow range:	±16L/s ±5% or 200mL/s
Volume accuracy:	±2.5% or 50mL
Dynamic resistance:	<0.5 cm H_2O/L/s
Connectivity:	USB 2.0, Bluetooth®
Display:	7" colour touch screen LCD, 800x480 resolution
Mouthpieces:	Ø 30 mm (1.18 inch)
Electrical protection:	Class II
Norms:	Electrical safety standard EN 60601-1 Electromagnetic compatibility EN 60601-1-2

SPIROMETRY PARAMETERS

FVC, FEV1, FEV1/FVC, FEV1/VC, PEF, FEF25, FEF50, FEF75, FEF25-75, FEF75-85, Lung Age, Extrapolated Volume, FET, Time to PEF, FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/FVC, FEV2, FEV2/FVC, FEV3, FEV3/FVC, FEV6, FEV1/ FEV6, FEV1/PEF, FEV1/FEV0.5, FIVC, FIV1, FIV1/FIVC, PIF, FIF25, FIF50, FIF75, FEF50/FIF50, VC, IVC, IC, ERV, IRV, Rf, VE, VT, tI, tE, VT/tI, tE/tTOT, MVV (measured), MVV (calculated).

MIR SPIRO BASIC SOFTWARE REQUIREMENTS

Windows 7 (32/64 bit), 8 (32/64 bit), 10 (32/64 bit), 11 (32/64 bit).
iOS operating system 10.13. See page 320 for details.