



Minispir



USB Spirometer
Real time tests directly on PC

Key features

Plug & Play

Device powered via integrated USB cable, without screen, without internal memory and with direct data recording on **MIR Spiro** software



Real-time tests

Real-time tests displayed on the PC screen via **MIR Spiro** software
Spirometry: FVC, VC, MVV, PRE/POST bronchodilator comparison

Pediatric incentive

Real-time animation for improved patient collaboration during the test

Integrated temperature sensor

Automatic BTPS Conversion

Predicted values



Wide selection of predicted values including GLI, ERS and others in PC mode

EMR/EHR connectivity

Integration via **MIR Spiro** software with EMR/EHR (in HL7, GDT, FHIR, EXCHANGE PROTOCOL)



Compatible turbines

		Mouthpiece	Turbine disinfection	Turbine calibration	Packaging	Antiviral filter
FlowMIR® disposable turbine		Disposable included	Not required	Not required	Individually packaged: packs of 60 pieces	Optional
Single patient reusable turbine		Required, not included	Required	Required	Pack of 1 unit	Recommended by ATS

How to use

Minispir works when connected to **PC via integrated USB cable**

MIR Spiro software

- \\ Comprehensive software for spirometry and oximetry
- \\ Designed to be integrated with EMR/EHR
- \\ Complies with the latest ATS/ERS guidelines
- \\ Available for desktop and laptop use
- \\ MacOS and Windows

All MIR professional devices work with **MIR Spiro** software, **the latest generation software** for spirometry and oximetry.



Platinum Card

To subscribe to a Platinum subscription plan it is necessary to **have the MIR Spiro Platinum Card.**

Measured parameters

	From MIR Spiro software via connection to the device
Spirometry	FVC, FEV1, PEF, FEF75, FEF25-75, FET, FEV1/FVC, FEV6, FEV1/FEV6, FEF25, FEF50, FIVC, FEV1/VC, ELA, MVV(cal), Time to PEF, FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/FVC, FEF75-85, Extr. Vol, VC, EVC, IVC, IC, VC, ERV FEV3, FIV1, FIV1/FIVC, PIF, FEV3/FVC, PIF, FEV2, FEV2/FVC, FIF25, FIF50, FIF75, R50, FEV1/PEF (EI), FEV1/FEV0.5 (RFEV), TV, VE, RR, tl

Datasheet

Size	49.7 x 142 x 26 mm
Weight	65 g
Turbines	· Reusable Turbine (code 910002) · Disposable turbine (code 910004)
Supply voltage	5V USB connection
Nominal electrical power	0.25W
Nominal input current	50mA max
Backup battery voltage	absent
Connectivity	USB 2.0
Display	absent
Mouthpiece	Ø 30 mm (1.18 inches)
IP protection level	IPX1
Electrical protection	Class II device
Electrical safety level	Type BF device
Terms of use	Device for continuous use
Storage conditions	Temp: MIN -40°C, MAX +70°C Humidity: MIN 10% RH; MAX 95%RH
Terms of use	Temp: MIN +10°C, MAX +40°C Humidity: MIN 10% RH, MAX 95%RH
PC Software	MIR Spiro
Memory capacity	PC software database

Spirometry	
Flow sensor	two-way digital turbine
Flow Range	± 16 L/s
Volume accuracy (ATS 2019)	± 2.5% or 50 mL
Flow accuracy	± 5% or 200 mL/s
Dynamic resistance	< 0.5 cm H2O/L/s
Temperature sensor	semiconductor(0-45°C)
Available tests	FVC, VC, IVC, MVV, PRE-POST
Measured parameters	FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, TPEF, FEF25, FEF50, FEF75, FEF2575, FEF7585, FET, FEV05, FEV05%, FEV075, FEV075%, FEV2, FEV2%, ELA, BEV, FIVC, FIV1, PIF, FIV1/FIVC%, PIF, IRV, VC, IVC, EVC, IC, EI, RFEV, ERV, FIVC, FIV1/FIVC, FEV1/VC%, FIF25, FIF50, FIF75, R50, VT, VE, RR, tl, tE, ti/tTOT, VT/tl, MVV, MVV cal, MV

Certificates and registrations	
CE 0476	MDR 2017/745
FDA 510 (k)	K 122384
Health Canada	71191 (Class II)
EMDN liv.4	Z121501
CND Code	Z12150102
GMDN Code	46906 (spiral)
Ministry of Health	2494682/R (911006I0) 2494688/R (911006I1)
Applicable regulations	Electrical Safety IEC 60601-1 Electro Magnetic Compatibility EN 60601-1-2 ISO 26782: 2009 ISO 23747: 2015 ATS/ERS:2005, 2019(update) IEC 60601-1-6:2010 IEC 60601-1-9:2007+AMD1:2013 IEC 62304:2006 + A1:2015 ISO 10993-1:2018

Compliance with guidelines and standards

Spirometry: ATS/ERS 2005 + update to 2019;
ISO 23747: 2015; ISO 26782: 2009

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