

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, tI

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, tI, tE, ti/tTOT, VT/tI, 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

ITALY

MIR Medical
International Research
S.p.A.

Viale Luigi Schiavonetti,
270 00173, Rome

Tel. +39 06 22 754 777

Fax +39 06 22 754 785

mir@spirometry.com

spirometry.com

USA

MIR USA, Inc.
5462 S. Westridge Drive
New Berlin, WI 53151

Tel. +1 (262) 565-6797

Fax +1 (262) 364-2030

mirusa@spirometry.com

FRANCE

MIR Local Branch
Jardin des Entreprises, 290,
Chemin de Saint Dionisy
30980 LANGLADE

Tel. +33 (0)4 66 37 20 68

Fax +33 (0)4 84 25 14 32

mirfrance@spirometry.com

BRAZIL

MIR Local Branch
Rua Pinheiro Machado, 2659,
Sl.303, Caxias do Sul RS

Tel +55 5430253070

mirbrazil@spirometry.com

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