MIR

Spirobank II Smart

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Multiplatform portable spirometer for Tablets and PCs: 3 modes of use in a single device

Supported tests

Spirometry: FVC, VC, MVV, PRE/POST bronchodilator comparison

Oximetry (optional): Spot test (SpO2%, BPM)

Key features

Dedicated app

Bluetooth connection to Tablet via dedicated **MIR Spiro** app



3 Modes of use

- \cdot Stand Alone
- PC via USB (**MIR Spiro** software)

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• Tablet via Bluetooth (MIR Spiro app)

SpO2% Sensor Oximetry sensor to detect

blood oxygen saturation

Display Intuitive display with easy-to-use buttons

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NReal-time tests

Real-time tests displayed on the Tablet and PC screen

Pediatric incentive



Real-time animation available on both Tablet and PC for improved patient collaboration during the test

Integrated temperature sensor Automatic BTPS Conversion

Long-lasting rechargeable battery

Rechargeable lithium battery

**** Large internal memory

Storage up to 10,000 spirometric tests or 500 hours of oximetry

Predicted values

Wide selection of predicted values including GLI, ERS and others, directly on the device, Tablet and PC

\ EMR/EHR connectivity

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

Compatible turbines

		Mouthpiece	Turbine disinfection	Turbine calibration	Packaging	Antiviral filter
FlowMIR® disposable turbine	A constant of the second secon	Disposable included	Not required	Not required	Individually packaged: packs of 60 pieces	Optional
Reusable turbine		Required, not included	Required	Required	Pack of 1 unit	Recommended by ATS

How to use

Spirobank II Smart works in Stand Alone mode, connected to PC via USB and connected to Tablet via Bluetooth

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.

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Platinum Card

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

MIR Spiro app

Intuitive and flexible interaction during spirometry procedures!

- **N** Real-time tests
- **N** Pediatric incentive
- **** Virtual Assistant
- **** iOS and Android

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Measured parameters

	From MIR Spiro software via connection to the device	From MIR Spiro app via connection to the device	From device in Stand Alone mode
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	FVC, FEV1, FEV1%, PEF, ELA, FEF25-75, FET, FEF50*, FIVC* *Available on Android Tablet only	*FVC, *FEV1, *PEF, FVC, FEV1, FEV1/FVC, FEV1/VC, PEF, T-PEF, FEF25-75, FEF75-85, FEF25, FEF50, FEF75, FEV0.5, FEV0.5%, FEV0.75, FEV0.75%, FEV2, FEV2%, FEV3, FEV3/FVC, FEV6, FEV6%, FET, BEV, FIVC, FIV1, FIV1/FIVC, PIF, FIF25, FIF50, FIF75, R50, MVVcal, VC, EVC, IVC, IC, ERV, TV, VE, RR, tI, tE, TV/tI, tI/tTot, MVV, ELA *Best values
Oximetry (optional)	SpO2% [Min, Max, Media], BPM [Min, Max, Media]	SpO2% [Min, Max, Media], BPM [Min, Max, Media]	SpO2% [Min, Max, Media], BPM [Min, Max, Media]

Datasheet

code 911028xx (spirometer) code 911029xx (spirometer + oximeter)

SpO2% min, max, average Min, Max, Avg BPM Test duration

% Duration of bradycardia

% Duration of tachycardia

% Time with SpO2 \leq 90%

about 300 hours of oximetry

(<40 BPM)

(>120 BPM)

(T90%, T89%)

Size	55 x 160 x 25 mm	Spirometry	
Weight	140 g (battery pack included)	Sensor	two-way digital turbine
Turbine	•Reusable Turbine	Flow range	±16L/s
	(code 910002)	Volume accuracy	±2.5% or 50mL
	•Disposable turbine	Flow accuracy	±5% or 200 mL/s
	(code 910004)	Dynamic resistance	<0.5 cm H2O/L/s
Power supply	3.7 V, 1100 mAh Lithium-Ion	Temperature sensor	semiconductor (0-45°C)
	Rechargeable	Available tests	FVC, VC, IVC, MVV, PRE-POST
Current	1100 mAh Measured parameters		FVC, FEV1, FEV1/FVC%, TPEF, FEV
Consumption	~20-30 mA (during testing)		0.5, FEV0.5/FVC%, FEV0.75,
Charge Batteries	Voltage=5 V DC,		FEV0.75/FVC%, FEV2, FEV2/FVC%,
	Current = minimum 500 mA,		FEV3, FEV3/FVC%, FEV6,
	Connector: micro USB type B		FEV1/FEV6%, PEF, FEF25, FEF50,
	Complies with EN 60601-1		FEF75, FEF25-75, FEF75-85%, FET,
Autonomy	50 hours		Vext, ELA, EVOL, FIVC, FIV1, PIF,
Connectivity	USB 2.0, Bluetooth® 4.0		FIV1/FIVC%, FIF25, FIF50, FIF75, R50,
Display	monochrome LCD,		PIF, IRV, VC, IVC, EVC, IC, ERV,
	160 x 80 pixels		FEV1/VC%, TV, VE, RR, tl, tE, tl/t-tot
Keyboard	6-key membrane		TV/tl, MVV, MVV cal
Mouthpiece	Ø 30 mm (1.18 in)	Memory capacity	more than 10,000 tests
Type of electrical	Powered internally	Outine at my	
protection		Oximetry	
Safety level Electric shock	Type BF device	(on request)	
IP protection level	IPX1	Measurement method	Red and infrared absorption
Terms of use	Device for continuous use	Sp02% range	0-99%
Storage conditions	Temp: MIN -20°C, MAX+60°C	Accuracy of SpO2%	± 2% between 70-99% SpO2
	Humidity: MIN 10% RH; MAX 95%RH	Average number of beats	8 beats
Operating conditions	Temp: MIN +10°C, MAX +40°C	for Sp02% calculation	
	Humidity: MIN 10% RH, MAX 95%RH	Heart Pulse Range	30-300 BPM
Transport conditions	Temp: MIN -40°C, MAX +70°C	Cardiac pulse accuracy	± 2BPM or 2% the greater
	Humidity: MIN 10% RH, MAX 95%RH		of the two
		Mean interval for	8 seconds
		calculation of heartbeat	
		Signal quality indication	0 - 8 segments on screen
		Test available	spot

Measured parameters

Memory capacity

Certificates and registrations	
CE 0476	MDR 2017/745
FDA 510 (k)	K 061712
Health Canada	71191 (class II), 75535 (class III)
MDN liv.4	Z121501
CND Code	Z12150102 (spiral)
	Z1203020408 (spiro + oxi)
GMDN Code	46906 (spiro), 45607 (spiro + oxi)
List no	2494356/R (911028I0)
	2494363/R (911028l1)
	2494457/R (91102910)
	2494606/R (911029I1)
pplicable regulations	Electrical Safety IEC 60601-1
	Electro Magnetic Compatibility
	EN 60601-1-2
	ISO 80601-2-61:2017
	ISO 26782: 2009
	ISO 23747: 2015
	ATS/ERS:2005, 2019(update)
	IEC 60601-1-6:2010
	IEC 60601-1-8:2006+ AMD1:2012
	IEC 60601-1-9:2007+AMD1:2013
	IEC 62304:2006 + A1:2015
	ISO 10993-1:2018
	Directive 2014/53/EU RED

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