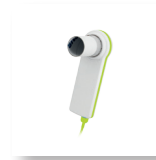
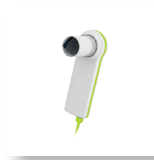

**Minispir[®]
oximetry**

Minispir[®]

Minispir Light[®]

**Minispir Light[®]
Post Edition**
Device Comparison Matrix

Tests Performed				
Spirometry	✓	✓	✓	✓
Pulse-Oximetry	✓	Optional	No	No
6MWT	✓	Optional	No	No
Sleep Test	✓	Optional	No	No
SpO2, BPM Spot Check	✓	Optional	No	No

Parameters Presented				
Spirometry	FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV, MVV (calc.)	VC, IVC, FVC, FEV1, FEV6, PEF, FEV1/FVC%, FEF25-75%, FIVC, ELA	VC, IVC, FVC, FEV1, FEV6, PEF, FEV1/FVC%, FEF25-75%, FIVC, ELA	
Oximetry version only	SpO2 (mean-max-min), Pulse Rate, Delta Index, T90, T89, T88, T5, ODI, NOD, Desaturation Area			
Post BD	✓	No	✓	
Bronchial Challenge Test	✓	No	✓	

Display & User Interface				
Display	Computer Dependent	Computer Dependent	Computer Dependent	Computer Dependent
Keyboard	Computer Dependent	Computer Dependent	Computer Dependent	Computer Dependent
Patient data input	✓	✓	✓	✓
Power Supply	USB Port	USB Port	USB Port	USB Port

Turbine				
Reusable	✓	No	No	
Disposable (1 box/50) (includes mouthpieces)	✓	✓	✓	

Device Memory				
Spirometry memory	Unlimited (PC capabilities)	Unlimited (PC capabilities)	Unlimited (PC capabilities)	Unlimited (PC capabilities)
Spirometry and Oximetry version memory	Unlimited (PC capabilities)	Unlimited (PC capabilities)	Unlimited (PC capabilities)	Unlimited (PC capabilities)

Additional Standard Features				
winspiroPRO [®]	✓	No	No	
Upgradeable Software	✓	✓	✓	
Upgradeable Firmware	✓	✓	✓	
Accelerometer	No	No	No	
Carrying case	✓	✓	✓	

Optional Features				
winspiroPRO NET [®]	✓	No	No	
winspiro Express [®]	No	No	No	
winspiro Light [®] (real time test only)	✓	Always included	Always included	
E-Diary	No	No	No	

Connectivity				
USB to PC	✓	✓	✓	
RS232 to PC	No	No	No	
Bluetooth to mobile phone	No	No	No	
Bluetooth to external printer	No	No	No	
GSM/GPRS/EDGE (embedded)	No	No	No	

Dimensions	5.5 x 1.9 x 1 inch (142x49.7x26 mm)	5.5 x 1.9 x 1 inch (142x49.7x26 mm)	5.5 x 1.9 x 1 inch (142x49.7x26 mm)	
Weight	2.2 oz (65 g)	2.2 oz (65 g)	2.2 oz (65 g)	



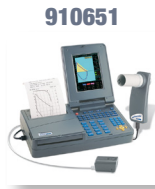
Spirobank G®



Spirobank Usb®

Device Comparison Matrix

Tests Performed		
Spirometry	✓	✓
Pulse-Oximetry	No	No
6MWT (stress test)	No	No
Sleep Test	No	No
SpO2, BPM Spot Check	No	No
Parameters Presented		
Spirometry	FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV, MVV (calc.)	VC, IVC, FVC, FEV1, FEV6, PEF, FEV1/FVC%, FEF25-75%, FIVC, ELA
Post BD	✓	No
Bronchial Challenge Test	✓	No
Display & User Interface		
Display	Graphic LCD (132x48 Pixels)	Graphic LCD (132x48 Pixels)
Keyboard	5 Key Membrane	5 Key Membrane
Patient data input	No	No
Power Supply	9V DC battery or mini USB through PC	9V DC Battery
Turbine		
Reusable	✓	✓
Disposable (1 box/50) (includes mouthpieces)	✓	✓
Device Memory		
Spirometry memory	6,000 Spirometry Test	1 Patient (up to 8 FVL)
Spirometry and Oximetry version memory	No	No
Additional Standard Features		
winspiroPRO®	✓	No
Upgradeable Software	✓	✓
Upgradeable Firmware	✓	✓
Accelerometer	No	No
Carrying case	✓	✓
Optional Features		
winspiroPRO NET®	✓	No
winspiro Express®	No	Always included
winspiro Light® (real time test only)	✓	No
E-Diary	No	No
Connectivity		
USB to PC	✓	✓
RS232 to PC	No	No
Bluetooth to mobile phone	✓	No
Bluetooth to external printer	✓	No
GSM/GPRS/EDGE (embedded)	No	No
Dimensions	6.4 x 1.9 x 1.3 inch - (162x49x32 mm)	6.4 x 1.9 x 1.3 inch - (162x49x32 mm)
Weight	6.4 oz (180 g)	6.4 oz (180 g)



910651
Spirolab III® Color
oximetry



910650
Spirolab III® Color



910655
Spirolab III® B/W

Device Comparison Matrix

Tests Performed			
Spirometry	✓	✓	✓
Pulse-Oximetry	✓	Optional	No
6MWT	✓	Optional	No
Sleep Test	✓	Optional	No
SpO2 and BPM Spot Check	✓	Optional	No

Parameters Presented				
Spirometry	FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV, MVV (calc.)	FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV, MVV (calc.)		
Post BD	✓		✓	
Bronchial Challenge Test	✓		✓	
Oximetry version only	SpO2 (meanmax-min), Pulse Rate, Delta Index, T90, T89, T88, T5, ODI, NOD, Desaturation Area		No	

Display & User Interface			
Display	FSTN Graphic (320x240 Pixels)	FSTN Graphic black & white (320x240 Pixels)	
Keyboard	15 - Dedicated Icon Keyboard	15 - Dedicated Icon Keyboard	
Patient data input	✓	✓	
Power Supply	Internal Rechargeable Battery	Internal Rechargeable Battery	
Printer/paper	Thermal, 4.4 inch (112 mm) width	Thermal, 4.4 inch (112 mm) width	

Turbine			
Reusable	✓		✓
Disposable (1 box/50) (includes mouthpieces)	✓		✓

Device Memory			
Spirometry memory	6,000 Spirometry Test	6,000 Spirometry Test	
Spirometry and Oximetry version memory	6,000 Spirometry Test 1,000 Oximetry hours	No	

Additional Standard Features			
winspiroPRO®	✓		✓
Upgradeable Software	✓		✓
Upgradeable Firmware	✓		✓
Accelerometer	No		No
Carrying case	✓		✓

Optional Features			
winspiroPRO NET®	✓		✓
winspiro Express®	No		No
winspiro Light® (real time test only)	✓		✓
E-Diary	No		No

Connectivity			
USB to PC	✓		✓
RS232 to PC	✓		✓
Bluetooth to mobile phone	No		No
Bluetooth to external printer	No		No
GSM/GPRS/EDGE (embedded)	No		No

Dimensions	12.2 x 8.1 x 2.6 inch (310x205x65 mm)	12.2 x 8.1 x 2.6 inch (310x205x65 mm)	
Weight	4.2 lbs (1.9 Kg)	4.2 lbs (1.9 Kg)	


Device Comparison Matrix
Spirodoc® Spiro & Oxy
Spirodoc® Spiro
Spirodoc® Oxy

Tests Performed			
Spirometry	✓	✓	No
Pulse-Oximetry	✓	No	✓
6MWT	✓	No	✓
Sleep Test	✓	No	✓
SpO2, BPM Spot Check	✓	No	✓

Parameters Presented			
Spirometry	FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV, MVV (calc.), SpO2 Baseline, Min, Max, Mean, Pulse rate Baseline, Min, Max, Mean, T90, T89, T88, T87, SpO2 Events, Pulse Rate Events, Δ Index. 6MWT parameters: TΔ2, TΔ4, Recording time, Time [Rest, Walking, Recovery], Borg Dyspnea & Fatigue [Baseline, End, Change], Sleep Test Analysis: Total Desat Events, Desaturation Index (ODI) and Mean Value	FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV, MVV (calc.)	SpO2 (Baseline, Min, Max, Mean), Pulse rate [Baseline, Min, Max, Mean], T90 [SpO2<90%], T89 [SpO2<89%], T88[SpO2<88%], T87[SpO2<87%], SpO2 Events, Pulse Rate Events [Bradycardia, Tachycardia], Δ Index [12s]6 Minute Walk Test Specific Parameters: TΔ2 [SpO2≥2%], TΔ4 [ΔSpO2≥4%], Recording time, Time [Rest, Walking, Recovery], Borg Dyspnea [Baseline, End, Change], Borg Fatigue [Baseline, End, Change]Sleep Test Specific Analysis: Total Desaturation Events, Desaturation Index (ODI), Desaturation [Mean Value]
Post BD	✓	✓	No
Bronchial Challenge Test	✓	✓	No

Display & User Interface			
Display	Touchscreen graphic LCD (128×64 Pixels)	Touchscreen graphic LCD (128×64 Pixels)	Touchscreen graphic LCD (128×64 Pixels)
Keyboard	Alphanumeric	Alphanumeric	Alphanumeric
Patient data input	✓	✓	✓
Power Supply	Internal Rechargeable Battery	Internal Rechargeable Battery	Internal Rechargeable Battery

Turbine			
Reusable	✓	✓	No
Disposable (1 box/50) (includes mouthpieces)	✓	✓	No

Device Memory			
Memory	10,000 Spirometry Test 300 Oximetry hours	10,000 Spirometry Test	300 Oximetry hours

Additional Standard Features			
winspiroPRO®	✓	✓	✓
Upgradeable Software	✓	✓	✓
Upgradeable Firmware	✓	✓	✓
Accelerometer	✓	✓	✓
Carrying case	✓	✓	✓

Optional Features			
winspiroPRO NET®	✓	✓	✓
winspiro Express®	No	No	No
winspiro Light® (real time test only)	✓	✓	No
Oximetry	Always included	No	Always included
E-Diary	✓	✓	✓

Connectivity			
USB to PC	✓	✓	✓
RS232 to PC	No	No	No
Bluetooth to mobile phone	✓	✓	No
Bluetooth to external printer	✓	✓	No
GSM/GPRS/EDGE (embedded)	No	No	No

Dimensions	4.2 × 2.4 × 1.0 inch (central unit 101x48x16mm turbine head: 46x47x24mm)	2.4 × 5.7 × 1.2 inch (101x48x16mm)	2.4 × 5.7 × 1.2 inch (101x48x16mm)
Weight	4.0 oz (116 g)	4.0 oz (116 g)	3.4 oz (99 g)