

# Pony FX

Desktop Spirometer

“Effective, simple  
lung screening in  
any environment”



Advanced desktop spirometer with spirometry,  
airway resistance and respiratory mechanics



**COSMED**  
The Metabolic Company

“The COSMED Pony FX meets ATS recommendations for accuracy and precision in measuring FVC, FEV<sub>1</sub>, FEF<sub>25-75%</sub> and peak expiratory flow under ambient and BTPS conditions<sup>(1)</sup>”

- I Full spirometry testing (FVC, SVC, MVV, Pre/Post BD)
- I Respiratory Mechanics assessment (MIP/MEP)
- I Airway resistance by Occlusion Technique (option)
- I Oxygen saturimetry with integrated SpO<sub>2</sub> monitor (option)
- I Colour LCD display with real time graphs and embedded high speed thermal printer
- I Validated turbine flowmeter
- I Provided with OMNIA software for data management, real time testing and interpretation on PC



Pressure Transducer with AB filter for MIP/MEP testing



Turbine flowmeter with AB filter for Spirometry testing



Pony FX is the new generation family of portable spirometers from COSMED, representing the ideal solution for flexible lung function screening in many fields of application.

Pony FX design allows easy spirometry testing without sacrificing anything to functionality. Two different Pony FX models are currently available:

**Pony FX:** desktop spirometer with COSMED validated digital bidirectional turbine flowmeter.

**Pony FX MIP/MEP:** desktop spirometer with digital turbine and included module for respiratory mechanics measurements (MIP/MEP)

## Design

- High quality color LCD display for real time testing
- Integrated 120 mm high speed thermal printer for high quality reports in few seconds
- Compact size and light weight
- Alphanumeric keyboard and navigator tool to allow user access to all functions

- New Li-Ion battery with autonomy of up to 6 hours
- Easy interface with PC and other devices through the ports: USB-A, USB-B, RS 232

## Spirometry

- Full spirometry (FVC, SVC, MVV, Pre/post BD)
- New Trial Selection and Quality Control functions (in compliance with ATS/ERS guidelines)
- Innovative pediatric incentivitation with selectable effort grade
- Full compliance with “2005 ATS/ERS consensus” (Interpretation, QC, etc.)
- GOLD COPD interpretation on FVC PostBD
- Includes latest Global Lung Initiative (GLI) predicteds (including Z-score)
- ATS, Metacholine-dose, Mannitol and user defined bronchochallenge protocols
- Possibility to download Six Minute Walk Test data from any Spiropalm 6MWT

## Respiratory Mechanics (MIP/MEP)

- Measurement of respiratory muscle strength

- Easy to perform, quick, non-invasive
- Either for healthy subjects or patients with pulmonary/neuromuscular diseases
- Special mouth pressuremeter
- Complies with ATS/ERS Guidelines

## Data Management & Software

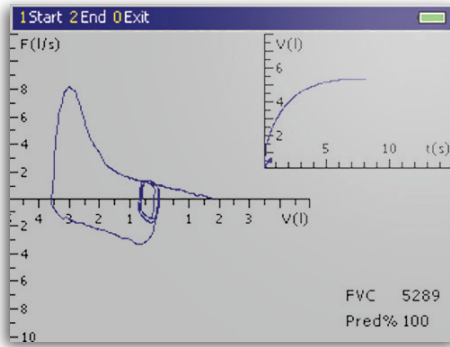
Spirometry tests can be also performed real-time with Pony FX connected to a PC through the powerful software OMNIA.

- Innovative user interface, touch screen, easy and self-explanatory
- Graphical data presentation both at screen and on printouts with gauges (pictograms)
- Powerful algorithm automatically elaborates results and provides comprehensive interpretation text strings including numerical results
- Full customizable time-based trends of main measured parameters
- Access and security compliant to international regulations
- Multi-device management (single license for multiple products)
- Advanced network capabilities (Optional). Running on SQL database.

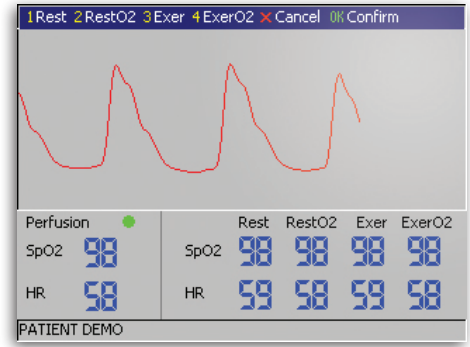
(1) Crapo R. O. (LDS Hospital) 2004 “Validation of COSMED turbine vs ATS 24 standard volume-time waveforms”

# Options & Accessories

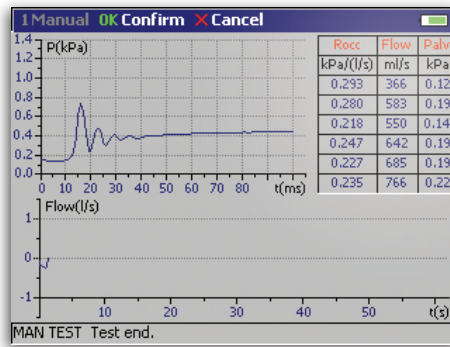
- Respiratory resistance by interrupter technique (Rint, Rocc).** Ideal solution for testing children (requires low patient collaboration) and good alternative to body plethysmography for airway resistance. Test is performed during tidal breathing through, a dedicated low flow PNT mouthpiece while an occlusion valve interrupts the airflow for 100 msec
- Pulse oximetry (SpO<sub>2</sub>).** Oxygen desaturation and heart rate measurement with high quality integrated monitor (Nonin® technology). Low power draw and intelligent pulse-by-pulse filtering.



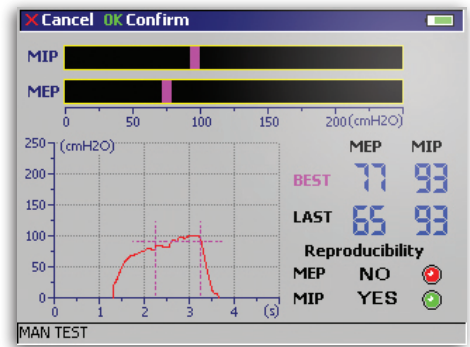
Pony FX screenshot: real-time FVC



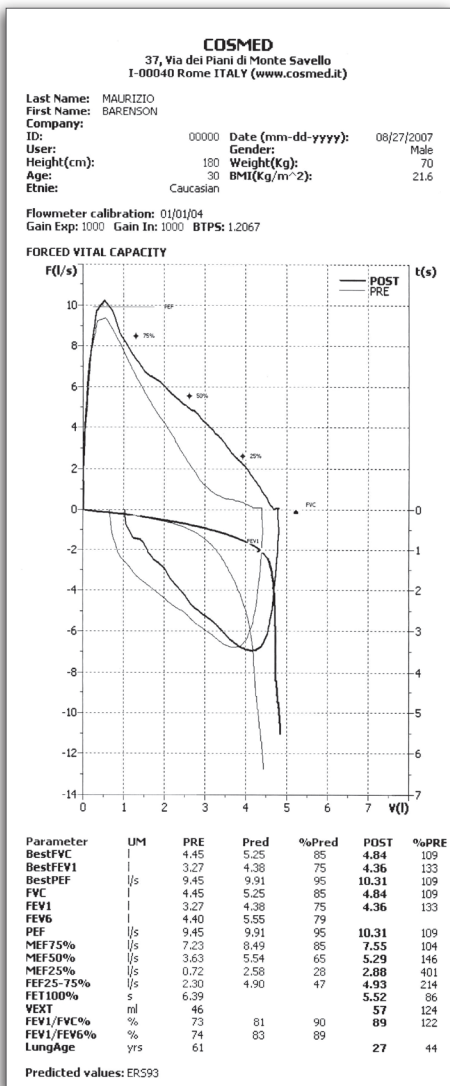
Pony FX screenshot: real-time SpO<sub>2</sub>



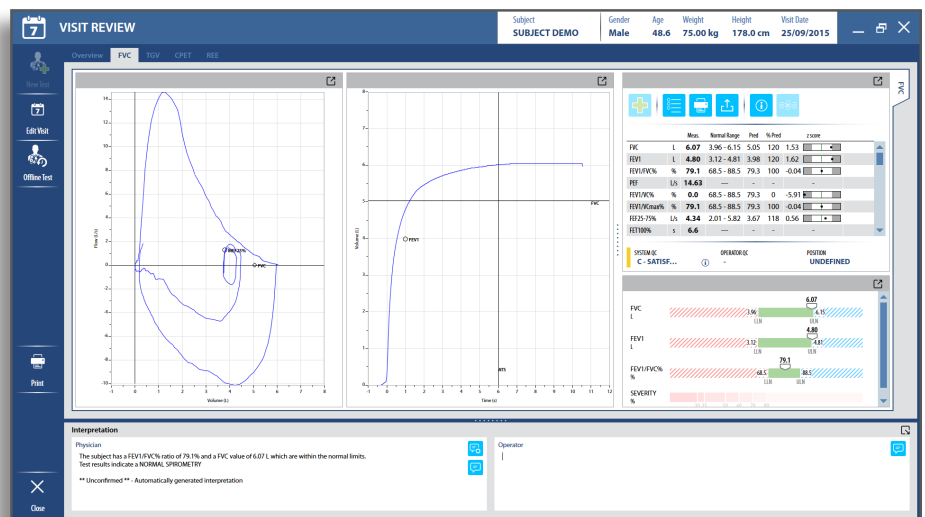
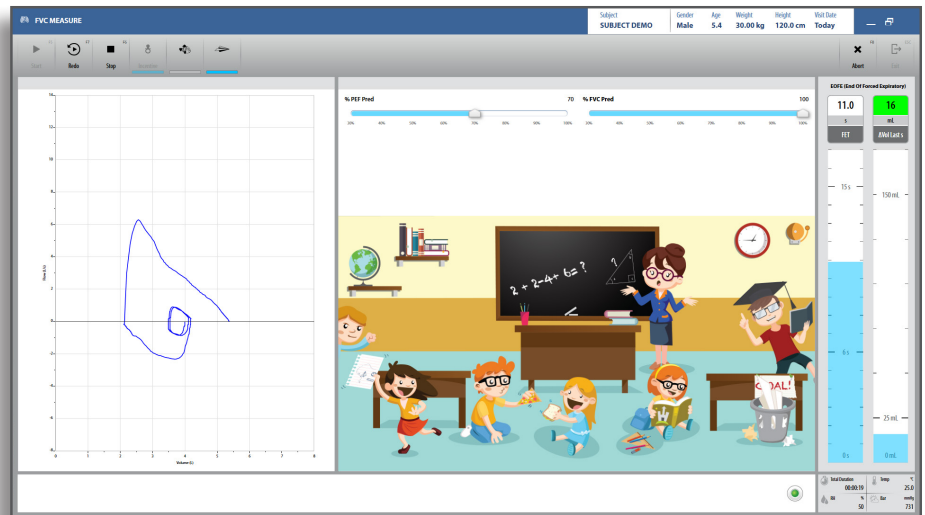
Pony FX screenshot: real-time Rocc



Pony FX screenshot: real-time MIP/MEP



Thermal printout sample (original size 110mm wide): Forced Vital Capacity (FVC)



Advanced software for data management, real time testing and interpretation directly on PC



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