



FVC, MVV & VC measurement

> Integrated Oximeter (optional)

Otthon is a pulmonary function diagnostics and monitoring device for use by general practitioners. Otthon is a compact, mobile, affordable solution for screening COPD and asthma.

FEATURES

• **Friendly and easy to use user interface** with large Touchscreen display. Buttons, text entry screens and lists are easy to operate with fingertips, no pen is required.

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- **Huge patient database** to store several hundreds of patients and all their measurements. You can easily browse through them by searching for their names or ID's.
- Audible human voice interpretation and measurement control: during measurements the devices plays audible human voice that explains how to improve maneuver quality.
- **Measurement tutorial** presentation system for increased patient compliance. The device plays a simplified video with human voice explanation on its own screen. The device explains to the patient its own usage with a tutorial comprising simplified video and audible text. In case of a poor maneuver such as prematurely stopped FVC, coughing, slow starting, poor effort, short expiration, or failed reproduciblity, the device explains the reason of the poor maneuver to the patient with human voice and also provides a direct tutorial which focuses on the reason of the poor maneuver.
- **ATS/ERS and NLHEP interpretation** systems for automated pulmonary diagnostics. The device automatically processes FVC trials and provides suggestions on how to improve maneuver quality.



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Otthon



SELF-CONTAINED DISINFECTABLE ULTRASONIC SPIROMETER

SPECIFICATION

Parameters measured	FVC, PEF, ELA, FEV1, FEV3, FEV6, FEV1/FVC, FEF25, FEF50, FEF75, FEF2550, FEF2575, FEF5075, FET, PEFT, FIVC, FIV1, FIV1/FIVC, FIT, EV, ET, PIF, VC, IVC, IC, ERV, IRV, TV, TI, TE, VE, RR, TV/TI, TE/TI, MVV
Memory capacity	The instrument is able to store more than 4 000 patients and/or measurements. The number highly depends on the measurement type and the measurement length.
Display	Quarter VGA (320×240 pixels), 262k colors with touchscreen
Communication port/interface	Connection to PC via USB or Bluetooth (optional)
Printing	The instrument can print to any HP deskjet and officejet printers (via USB interface) that support the PCL3 language.
USB connector type	Standard 5-pin mini-B
Dimensions of the device	37×80×92 mm
Dimensions of the flow tube	Ø30×165 mm
Weight	184 grams
Flow/volume measurement system	● IDEGEN [™] Technology
Measurement principle	●IDEGEN [™] ultrasonic multiple-path
Maximum volume	± 20 L
Flow range	± 14 L/s
Insp./Expi Ratio	From 1:10 to 10:1
Volume accuracy	$\pm3\%$ or 50 mL whichever is greater
Flow accuracy	$\pm3\%$ or 50 mL/s whichever is greater
Sample rate	100 Hz
Expiratory impedance at 14 L/s flow	< 0,15 kPa/L/s
Battery	Internal 3,7 V Li-lon battery (rechargeable via 5V, 500 mA mini USB charger)
Electrical protection	Internal battery power supply
Level of electrical protection	BF
Protection against water ingress	IP32
Operating and storage conditions	Temperature: 10 - 40°C Relative humidity: 5 - 95% without condensation

MISCELLANEOUS

- No moving parts
- Battery or USB charger operation
- Touch screen, bright color high resolution LCD display
- External printer connectivity
- Automatic internal calibration, (external validation with calibration pump available as an option)
- Tele-medical connection via Bluetooth avaiable
- Firmware upgrade option via Internet
- Easy upgrade, standard interfaces, e.g. 02 or CO2 analog boards attachable
- The inner surface of the flow tube is continuous, it can be disinfected with cold disinfecting liquid InstruMed

THORSOFT PULMONARY DIAGNOSTICS PC SOFTWARE

Complete Pulmonary Diagnostics PC software with medical decision support system, innovative

animated visualization, patient database, configurable medical report system.





Integrated oximeter

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