ULTRASONIC, DISINFECTABLE SPIROMETERS

- **33682 OTTHON SPIROMETER US (English) + SOFTWARE**
- **33683 OTTHON SPIROMETER IT + SOFTWARE**
- **33684 OTTHON SPIROMETER OTHER LANGUAGES + SOFTWARE**

Pulmonary function diagnostics and monitoring spirometer for use by general practitioners, respiratory physicians and patients. Compact, mobile, affordable solution for screening COPD (Chronic Obstructive Pulmonary Disease) and asthma.

- automated diagnostic interpretation
- voice and video explain use of device and communicate results
- battery or USB charger
- touchscreen, bright colour high resolution LCD display QVGA (320x240 px), 16 M colours
- external printer connectivity
- automatic internal calibration
- flow tube disinfectable by cold sterilization
- voice languages available: US (English), AU, FR, IT, DE, ES, AT, HU.

Made in Europe.

- **33686 SPIROTUBE MOBILE EDITION BLUETOOTH SPIROMETER**

Pulmonary function diagnostics and monitoring spirometer with Bluetooth communication interface and built in rechargeable battery. Suitable for screening COPD and asthma.

- wireless connection to mobile phones, PDAs, android systems.
- Real-time measurement with FVC curve visible on the mobile screen
- plug & play USB connection to PC
- automatic internal calibration
- tele-medical connection via Bluetooth
- automated medical interpretation
- long-term monitoring for home care use
- pharmaceutical testing subsystem
- flow tube disinfectable by cold sterilization
- software can be downloaded free from Google Play Store

Made in Europe.

**REGISTRATIONS**

All spirometers are CE marked and registered in Indonesia, Hong Kong, Australia, New Zeland, Korea, Argentina.

**THORSOFT - PULMONARY DIAGNOSTIC PC SOFTWARE**

Standard medical interfaces (HL7, GDT, BDT, XML).

Automatic interpretation module.

Diagnostic decision support system (for general practitioners and physicians)

Complete stress testing procedure

Languages: GB, IT, DE, ES, TR, RO, HU, SL.

**GIMA ACCESSORIES**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>33690</td>
<td>Instrumed disinfectant concentrate 1 l</td>
</tr>
<tr>
<td>33691</td>
<td>Plastic mouthpieces</td>
</tr>
<tr>
<td>33890</td>
<td>Disposable mouthpieces</td>
</tr>
<tr>
<td>33692</td>
<td>Loki Green single use bacterial filter</td>
</tr>
<tr>
<td>33505</td>
<td>Calibration syringe 3 l</td>
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**STANDARD ACCESSORIES**

<table>
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<tr>
<td>33682/3/4</td>
<td>Thorsoft software</td>
</tr>
<tr>
<td>33686</td>
<td>Plastic mouthpieces</td>
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<tr>
<td>33688</td>
<td>Cups for disinfection</td>
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<tr>
<td>33688</td>
<td>Battery charger</td>
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<td>33688</td>
<td>Bacterial filter</td>
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<tr>
<td>33688</td>
<td>Paper manual (GB)</td>
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<tr>
<td>33688</td>
<td>CD manual (GB, IT, ES, DE, HU)</td>
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**TECHNICAL SPECIFICATIONS**

- Flow measurement principle: Idegen™ multiple-path
- Flow tube diameter: 30 mm (OD)
- Dead space: 16.8 ml
- Flow resolution: 3 ml/s (33686), 8 ml/s (33682-4, 33688)
- Flow precision: 2% (33686, 33688), 3% (33682-4)
- Flow range: ±18 l/s
- Flow to PC: USB

**MEASURED PARAMETERS**

- FVC, FEV0.5, FEV0.5/VC, FEV1.0/VC, FEV1.0/FVC, PEF, FEF25-75%, MEF25%, MEF50%, MEF75%, FET, MITT, FIVC, FIV1.0, FIV0.5, FIV1/FVC, FIV/VC (Tiffeneau index) FIV0.1, FII, FII25-75%, IRV, ERV, TV, Breath rate value

- Insp./Expi ratio: From 1:10 to 10:1

**SIZE:** 35x120x120 mm
**WEIGHT:** 300 g

**SIZE:** 27x60x150 mm
**WEIGHT:** 300 g

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**Minimum order**

- box of 10
- box of 100
- box of 50

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