

Advanced Airway Oscillometry for Modern Respiratory Diagnostics

New Era of Respiratory Diagnostics

 Advanced Airway Oscillometry (AOS) using patented dualmesh excitation module

 Spirometry and FOT available in single device

 Captures small airway dynamics via intra-breath oscillometric analysis

 Auto Calibration device For easy use

 Fast & Easy Test in a few minutes

 Highly Compact and portable Standalone System

 All age range covered.

 Pre-Post Testing enabled and Reversibility reporting



MARKET CLEARANCES INDIA

Please contact us for most latest clearance updates

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TRUE TIDAL BREATHING	No forced maneuvers required — patients breathe naturally for accurate, reproducible data.
NEXT-GEN FORCED OSCILLATION	Dual-band multi-frequency waveform (5–40 Hz) with enhanced signal-to-noise ratio.
INTRA-BREATH RESOLUTION	Capture full resistance-reactance profiles across every breath in real time.
AI INTERPRETATION ENGINE	Auto-classifies patterns (Normal, Central, Peripheral Obstruction) with adaptive thresholds based on demographics.
FAST TESTING WORKFLOW	Full measurement in under 30 seconds; complete session with 3 repeats in <2 minutes
SMART CALIBRATION	Self-check and adaptive reference calibration in <20 seconds, eliminating manual steps.
CLOUD CONNECTIVITY	Secure wireless data sync, EMR integration, and telehealth reporting.
ADULT & PEDIATRIC READY	Built-in normative datasets for ages 4–99 years, auto-adjusted by age and height.
PRE-POST BRONCHODILATOR COMPARISON	Automated analysis with visual gauge for treatment response.



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Technical Specifications

Device Name	alveoflow® FOT System
Medical Device Class	Class B
Test Duration	12 Sec for Mono 24 Sec for Multi
Reproducibility	±3 % (Resistance), ±5 % (Reactance)
Flow Range	0–2 L/s with strong validation by PWG
Method	Forced Oscillation Technique (FOT)
Accuracy	<2 % deviation from standard reference loads
Noise Level	<20 dBA (silent operation)
Technology	Advanced Airwave Oscillometry (AOS) using patented dualmesh excitation module
Waveform Type	Pseudo-random and chirp signal hybrid
Frequency Range	5 – 40 Hz (high fidelity up to 60 Hz optional)
Data Output	R5, R20, R5–R20, X5, AX, Fres, intra-breath R/X loops
Sampling Rate	400 Hz digital acquisition, 24-bit precision
Compliance	ERJ 2003 (22:1026–1041) and ISO 23747:2015
Display	10" capacitive touchscreen with interactive data plots
Connectivity	Dual smart band Wi-Fi , Bluetooth 5.3, USB-A, optional Ethernet
Software	alveoSenseAI™ and alveoConnect platform for analysis, report generation, and cloud storage
EMR Integration	HL7 / FHIR compliant
Security	AES-256 encrypted data transmission
Operating Environment	10–45 °C, 10–90 % RH (non-condensing)
System Specification	A76- 8GB RAM, 128GB i.e. can store upto 1.5 Lakhs patients data
Quality / Medical Devices / Electrical Safety Standard	ISO 13485, MDSAP Systems ISO-26782:2009, ISO-23747:2015, IEC 60601-1, IEC 60601-1-11, IEC 60601-1-2, ISO-10993-1, ISO-10993-5, ISO-10993-10, ISO-10993-23, FCC ID 2AV9TD8-52832-01, FDA 510K (Pending)
Printer Support	USB Printers and Wifi Printer support



Beyond Spirometry — Precision, Ease, and Insight

alveoFlow™ brings a new standard to respiratory assessment, combining cutting-edge oscillometry technology with AI-powered analytics to deliver unmatched clarity on small airway function — all in a compact, patient-friendly device.

Clinical Insights

Visual Patterns and Interpretation

Green-to-Red Gauge clearly indicates patient position relative to normative ranges.

AI-assisted interpretation highlights small airway dysfunction, bronchodilator response, and disease progression trends.

Applications

Early detection of Asthma, COPD, Post-COVID airway remodeling, and Transplant monitoring

Ideal for research, clinical trials, and routine pulmonary testing

Easy of use

- **Plug-and-Play Setup** — ready in under a minute.
- **Automatic Artifact Detection** — filters coughs, leaks, and tongue movements.
- **Voice and Visual Prompts** — guide patients throughout the test.
- **Daily Calibration Reminder** — ensures reliable results with minimal maintenance.

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