

alveoair® ALV002 Benefits



Comprehensive Spirometry Solution



Flow-volume and Volume-Time with z-Score



Maximum Mid-Expiratory Flow related small airways



Calibration free* device For easy use



Fast & Easy Test in a few minutes



Highly Compact and portable Weighs only 76 gms.



Different race enabled Predicted values provided



Pre-Post Testing enabled and Reversibility reporting



6MWT available in alveofit® ecosystem for detailed analysis



Session Errors and Test grading for most accurate clinical interpretation



alveoair®

PORTABLE
DIGITAL
SPIROMETRY

MEASUREMENT PRINCIPLE: DIGITAL SPIROMETRY

SPIROMETRY TECHNOLOGY: INFRARED INTERPRETION WITH LOWER AIRFLOW DETECTION (PATENTED)

MEASUREMENT MODES: FULL LOOP, EXHALE LOOP, PRE-POST TESTS, 6MWT

MEASUREMENT DURATION: 20 SEC AT MAXIMUM

PATENT INTERFACE USE DISPOSABLE TURBINES AND WORKS WITH VITAL AND BACTERIAL FILTERS

DIMENSIONS & WEIGHT 11x5x2 CM, 76 GMS

PERFORMANCE ATS-ERS 2019 COMPLIANT, ISO 23747 ISO 26782

6MWT SPIROMETRY PROTOCOLS AVAILABLE FOR STRESS SPIROMETRY AND 6MWT

INTEROPERABILITY FULLY FHIR COMPLIANT, SDK BASED OPEN API

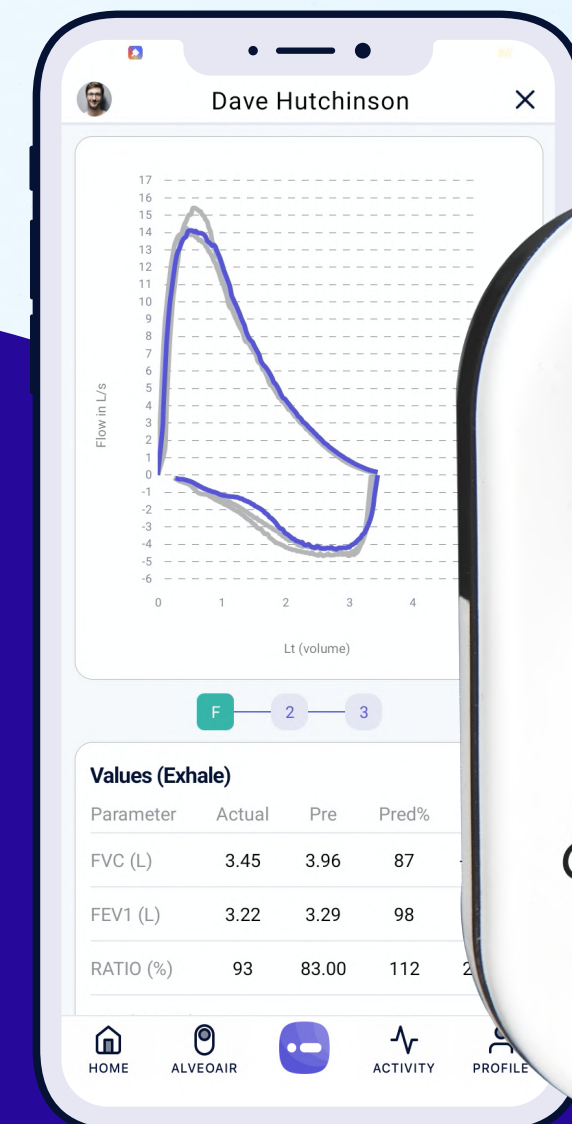
alveofit®

Intelligent Spirometry

New Era of
Digital
Spirometry

FAST. EASY
& PORTABLE

alveoair®
Digital Spirometer



MARKET CLEARANCES

USA, INDIA

Please contact us for most latest clearance updates.

HEAD OFFICE - INDIA

Roundworks Technologies Private Limited
+91-8767115748
info@alveo.fit

USA - NEWYORK

Roundworks Technologies Inc
+1-216 327 8582
info@alveo.fit



Device Name	alveoair® Digital Spirometer
Medical Device Class	Class B
Data Storage	Cloud Storage
Sensor Technology	Accu-sense proprietary Optical interference
Flow Range	0 - 14 L/s
Maximum Volume Measured	12 L
Volume Accuracy	2.5 % or 75 ml whichever is greater
Test Modes	Standard, Full Loop and Pre-Post bronchodilator
Power Supply	AAA Batteries
Dimensions (H-L-W)	H -110 cm, L- 56 cm , W- 18 mm
Weight (With batteries)	76 gm
Wireless Connection	BLE 5.2
Use Environment	Offices, Clinics, Occupational Health centres, Ambulances Primary Care centres, Hospitals
Mouthpiece	Standard Turbine 28 mm (*FlowMIR disposable turbine compatible)
Predicted Values	Quanjer 2012 (GLI), NHANES III 1999 (Hankinson), ERS 1993
Interface Device	Android Mobile phone above Android OS 8
Calibration	No Calibration required. (Pre-calibrated)
Reverse Flow Detection	Yes
ATS Error Codes	Back extrapolated, Early Termination, Glottis Closure, Early cessation, Slow Start,
Lower Limits of Normal (LLN) & Zscore Implementation	Quanjer 2012 (GLI), NHANES III 1999 (Hankinson), ERS 1993
Parameters	FVC, FEV1, FEV1/FVC, PEF, MEF25 (FEF75), MEF25 (FEF75), MEF50 (FEF50), MEF75 (FEF75), FEF 25-75, Duration Inhale, Lung age, FIVC, PIF, MIF75, MIF50, MIF25, MIF50/MEF50, Duration Inhale, BEV, FEF10, FEF25-75/FVC, FEF40, FEF50/FVC, FEF60, FEF80, FEF.25, FEV.50, FEV.75, FEV.50/FVC, FEV.75/FVC, FEV3, FEV3/FVC, MEF95, FEV6, FEV1/FEV6
Quality / Medical Devices / Electrical Safety Standard	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, Roundw-Pune-MH/M/MD/001068, FCC ID 2AV9TD8-52832-01



Sample Reports



Download now



Actual Reports

Full Loop Report
Patient: Dave Hutchinson
3205-04-09 | Male | 37 Years | North Indian | Covid Vaccinated: only
HT: 5.9 ft (179.0 cm) | WT: 205.4 lbs (93.0 kg) | BMI: 29.65 | Smoking: No
Test DT: 05 May 2022 10:18 AM | AQ: 50.0

Sample Pre-Post Report
Patient: Dave Hutchinson
3205-04-09 | Male | 37 Years | North Indian | Covid Vaccinated: only
HT: 5.9 ft (179.0 cm) | WT: 205.4 lbs (93.0 kg) | BMI: 29.65 | Smoking: No

alveoConnect®

Population health made easy

alveoConnect | Home Branch Account | English | John Doe | Provider

Dashboard
Congratulations John! You have successfully screened many patients.
359 All Patients

Statistics
39 All Patients | 140 All Tests | 287 All Sessions

Screening Data
Obstructive Pattern: 3%
Restrictive Pattern: 43%
Mixed Pattern: 4%
Normal Pattern: 52%

Population Distribution
Age Group: 19-45 Age

Today's Air Quality
Middleburg Heights, Cuyahoga County, United States
Air Quality Index: 75 (Fair) | Temperature: 17.6°C | Humidity: 80%

alveoConnect | Home Branch Account | English | John Doe | Provider

Summary
Dave Hutchinson | 3205-04-09 | Male | 37 Years | North Indian | Covid Vaccinated: only
HT: 5.9 ft (179.0 cm) | WT: 205.4 lbs (93.0 kg) | BMI: 29.65 | Smoking: No

Lung Performance
FVC (BLM) - 2.16L | 2.43L (94%)
FEV1 (BLM) - 1.12L | 1.21L (108%)
Spirometry Interpretation: Normal

Your Lung Health Score
17 (88%)
You have WELL controlled your asthma.

Medication Adherence
No record available

Top Symptoms
S1: Difficulty laboring
S2: Coughing
S3: Chest tightness