Commercial Air Filtration

AirVisual Pro

The AirVisual Pro is the most comprehensive high-accuracy air monitor available, providing real-time measurements of PM2.5, CO2, temperature and humidity, and instant comparison of indoor and outdoor conditions via a clear 5" display screen.

As a Wi-Fi enabled and battery-powered device with data-logging capacity, it is an enterprise grade monitor ideal for building-wide, and mobile monitoring. It displays its data via a clear LED screen as well as remotely through the AirVisual app, website, customizable widgets and API.

The Pro benefits from an integrated platform with the world's largest global air quality dataset, reporting data for 9,000+ cities globally. It is the only air monitor to provide 3 day air quality forecasts, real-time and historic outdoor data, and plain text recommendations based on factors across the two environments, to ensure that users always know how to achieve the healthiest air possible.

Leading technological performance at your fingertips

Fine particulate matter is measured using an advanced light-scattering laser photo-sensor. Auto-calibration components instantly consider temperature and humidity, while the Pro's internal CPU applies artificial intelligence to eliminate outlying data points. Air-flow control fans carefully monitor air intake to ensure stable, reliable readings and improved durability, extending the lifespan of the sensor. The PM2.5 laser sensor is completely silent, reliably creating zero disturbance.

The AirVisual Pro is an ideal monitoring device for applications in industrial/occupational air quality surveys, indoor air quality management and outdoor environmental monitoring.

Features & benefits

- Bright 5" display compares indoor readings with outdoor data, from the nearest official station.*
- Intuitive historical graphs for indoor and outdoor AQI, and CO2
- Three-day air quality forecasts driven by in-house artificial intelligence
- Outdoor weather data and forecast display
- Supplemental crowd-sourced map

- Tailored recommendations based on indoor and outdoor environments
- Free API access
- Option to publicize outdoor data
- Internal battery
- Website widget
- Integrated ecosystem servicing data access across the app, website and API

*Outdoor pollution data available for select locations, see airvisual.com/world for availability

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Specifications

Physical	Size	Weight	Screen	Operational Range
	7 x 8 x 18.2 cm	670g	5" LED wide screen; 800×480 pixels; True color	Recommended: 0-40°C

Electrical	Power Inputs	Battery
	Micro-USB charging cable 5V, 1A minimum Overcurrent protection for 3A Auto re-boot with power	Rechargeable Lithium-Ion battery 1900 mAh; 3-8 hours [depending on settings]

Hardware

Sensors

Particulate Matter
Measured particles:
PM2.5: 0.3μm to 2.5μm
PM10: 2.5μm to 10μm
Concentration range: 0 to 1,798μg/m³
Accuracy: ±10%
Reaction time: 5 seconds
Silent fan

Carbon Dioxide
Non-dispersive infrared sensor (NDIR)
Measurement range: 0 to 10,000ppm
Accuracy: ±50ppm, ±3% of reading
Calibration time: 2 weeks
Lifetime: 10 years
Operation range: 0-50C, 0-95% RH (non condensing)
Matches LEED certification requirements

Temperature
Measurement range:
-10°C to +40°C; 14°F to +104°F

Humidity
Measurement range:
0 to 95% RH, non-condensing

Wi-Fi

Connectivity
802.11 b/g/n 2.4ghz - WPA, WPA2, WEP
High sensitivity antenna
Auto-connect - unlimited Wi-Fi credentials
Disable Wi-Fi feature

Configuration
Configurable directly from the device, or remotely viat the mobile app and AirVisual website

Storage

Memory
2 GB storage - sufficient for 3 years of continuous data

Software

Data Handling
Hardened Linux platform suitable for enterprise network
Robust cloud system with redundancy and scalability
Security: encrypted data transfer

Data Download / Access
Detailed logs download with Samba protocol via Wi-Fi
Access through Node API
Download from AirVisual cloud*

Time / Location
Time syncronization from internet; IP Geolocation; Time zone detection

Software Settings

Efficiency

Power Saving Modes
+ Up to 2 time slots daily
+ Sleep mode after defined period of inactivity

Data Acquisition Modes
+ Continuous measurements
+ Power saving mode for optimizing sensor life
+ Custom mode for setting defined intervals

Display

Screen Display Options
+ Automatically rotate through slideshow
+ Manually click through slideshow
+ 6 levels of screen brightness

Languages
+ English
+ Chinese (simplified & traditional)
+ French
+ Korean

AQI

Unit Selection
+ US or Chinese air quality indexes
+ Option to display PM2.5 concentration
+ Metric (°C) or Imperial (°F)

Indoor / Outdoor
Outdoor location selection from more than 9,000+ cities in 70 countries

*Only available for Enterprise account users

FC CE
RoHS MSDS UN38.3 REACH IC (UL)