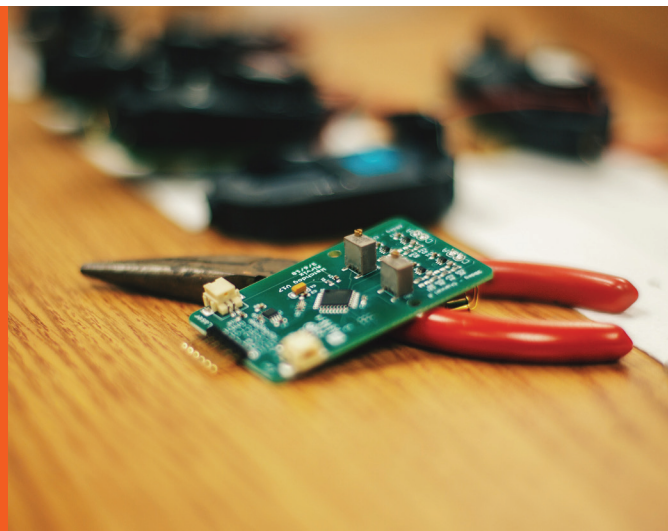


AIRVIZ

ULTRAFINE PARTICLE SENSOR

In addition to integrating off-the-shelf sensors, Airviz has distilled years of research in partnership with Carnegie Mellon University into proprietary, advanced scalable particulate sensing technology. Airviz sensors offer unparalleled ultrafine particle sensitivity in a customizable low-cost package for a wide range of consumer, industrial and scientific applications.



PORTFOLIO APPLICATIONS

- Healthcare
- Mining
- Manufacturing
- Agriculture
- Scientific and research
- Commercial spaces
- Residential

SOFTWARE AND CONNECTIVITY

Full-stack IoT development from device to cloud: real-time monitoring, wireless connectivity, over the air device upgrades

CUSTOM SOLUTIONS

Desktop and mobile apps, web sites, visualization, machine learning and algorithms, data storage, and server-side development

PRODUCT SPECIFICATIONS

- **Detection method**
Proprietary optical particulate sensor
- **Sensitivity**
Better than $10 \mu\text{g} / \text{m}^3$ for particles in the range 100 nm to $2.5 \mu\text{m}$, up to $1500 \mu\text{g} / \text{m}^3$
- **Measurement units**
Particle mass concentration ($\mu\text{g} / \text{m}^3$) and size distribution metric
- **Additional on-board sensors**
Temperature, Humidity, Pressure
- **Environmental operating range**
 $-10 \sim +65 \text{ }^\circ\text{C}$, $< 95\% \text{ RH}$ without condensation
- **Processor**
32-bit microcontroller
- **Sampling interval**
Variable
- **Data storage**
Customizable on-board and unlimited cloud
- **Connectivity**
Wi-Fi, BLE, USB, serial
- **Supported wireless encryption**
WEP, WPA2
- **Power supply**
USB or battery