



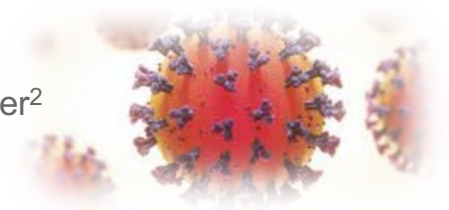
What's In Your Air?

Air Pollution Affects Everyone



Causes lung cancer, alzheimer's, and cardiovascular diseases¹

Allows Covid-19 and other respiratory diseases to spread faster²



Debilitates people with respiratory issues³

Severely reduces cognition affecting health & productivity⁴

Indoors 2-5X worse than Outdoors and as much as 100x⁵



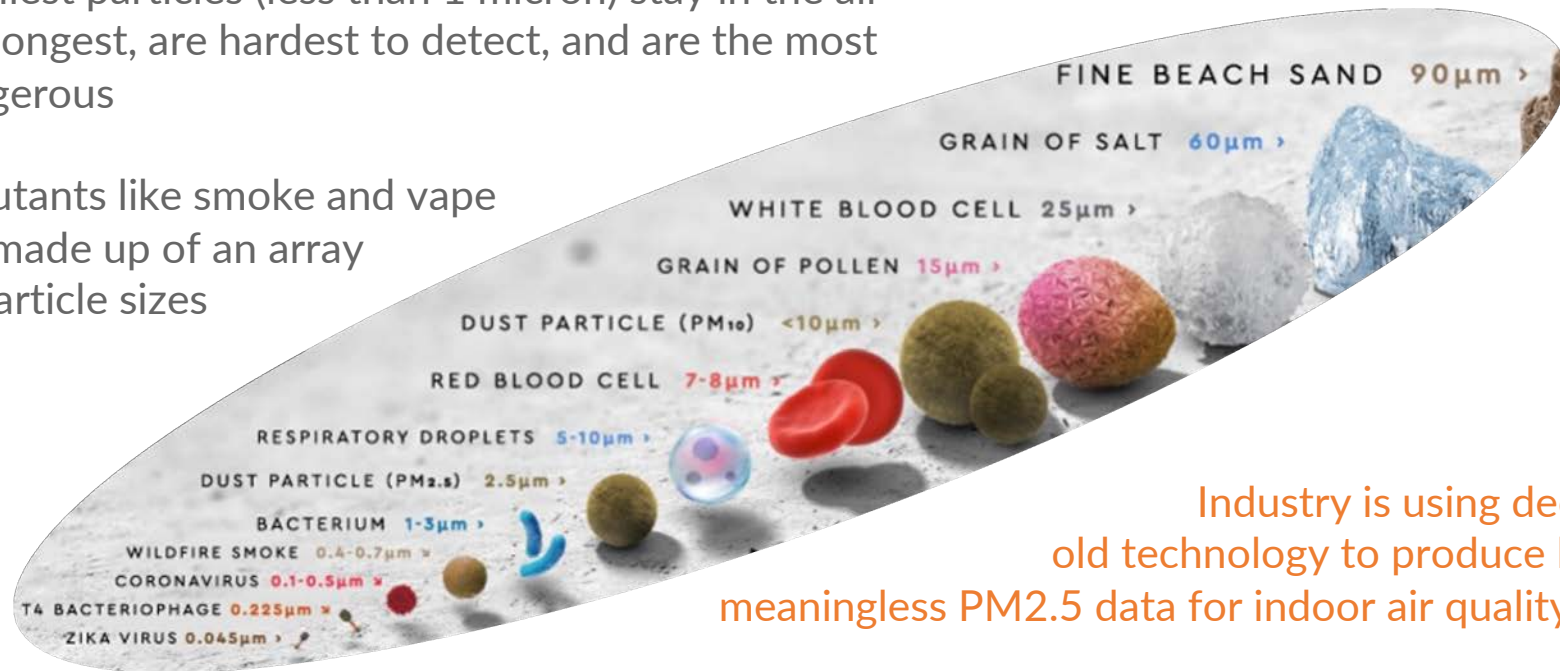
Air pollution costs 8 million deaths/year, \$5 trillion in welfare costs, \$225B in lost income

The Problem

Detecting the smallest particles has not been cost-effective

Smallest particles (less than 1 micron) stay in the air the longest, are hardest to detect, and are the most dangerous

Pollutants like smoke and vape are made up of an array of particle sizes



Industry is using decades-old technology to produce largely meaningless PM_{2.5} data for indoor air quality (IAQ)

Let's Talk About Air



PM10

Vehicles
Industries
Construction
Sandstorms
Pollen



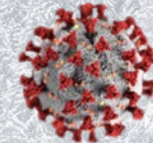
PM2.5

Fires, Wild and Controlled
Vehicles
Industries
Bacteria & Fungi
Biomass



PM1.0 - PM0.1

Cigarette & Vape Smoke
Wood Burning
Allergens
Cooking
Viruses



Canāree measures it all

Challenges Hotels Face – In-Room Smoking

A guests' highest priority is a clean and safe room

Cleaning Costs on the Rise

- Smoked- or vaped-in rooms must be thoroughly cleaned reducing occupancy rates
- Tobacco smoke is expensive to clear out. Cannabis even more so
- Reputation to property is critical

Reducing Chargebacks

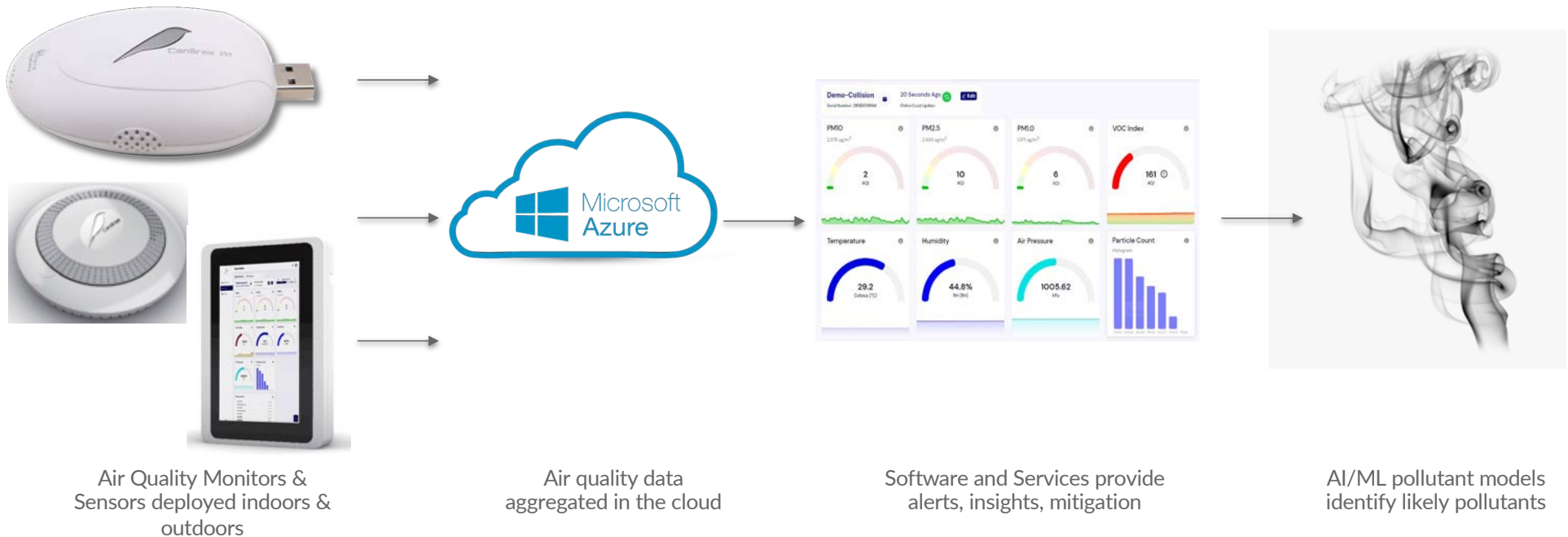
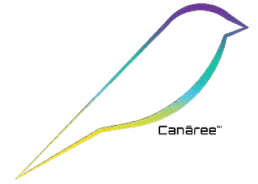
- With no scientific proof behind smoking or vaping events, fine collection is problematic

**Room with clean air = Peace of mind
for guests and hotel managers**



The Solution

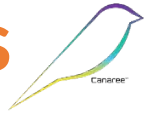
Accurately measure all particles and identify pollutants
at a scalable price



Revolutionary technology that identifies 'What's In the Air'
to provide actionable insights



Canāree: Next Generation Air Quality Monitors



Canāree A-Series (USB) AQM



Canāree R-Series and iX-Series (PoE/WiFi)



Canāree I-Series (WiFi) AQM

- Highly accurate indoor air quality monitor
- SenseiAQ™ real-time dashboard for alerts and insights
- Vape/smoke detection in real-time (VSD)
- Secure cloud-based storage and analytics
- Flexible pricing models
- Solutions available for Aruba and other Wireless APs

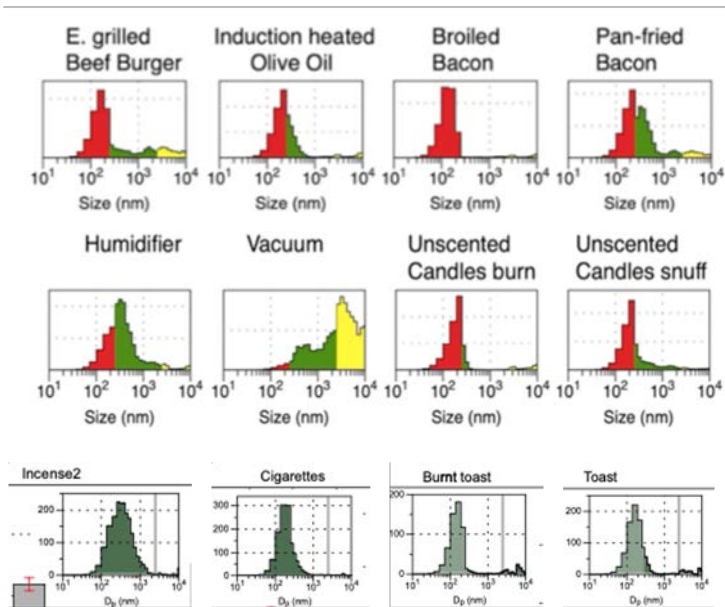
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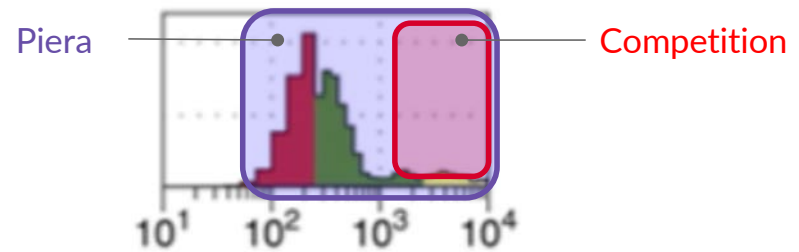
Canāree on Wireless AP Solutions



Classification is the New Frontier



Pollutant signatures from Lawrence Berkeley National Laboratory



Only Piera can measure PC0.1-1.0
Competition cannot classify particles

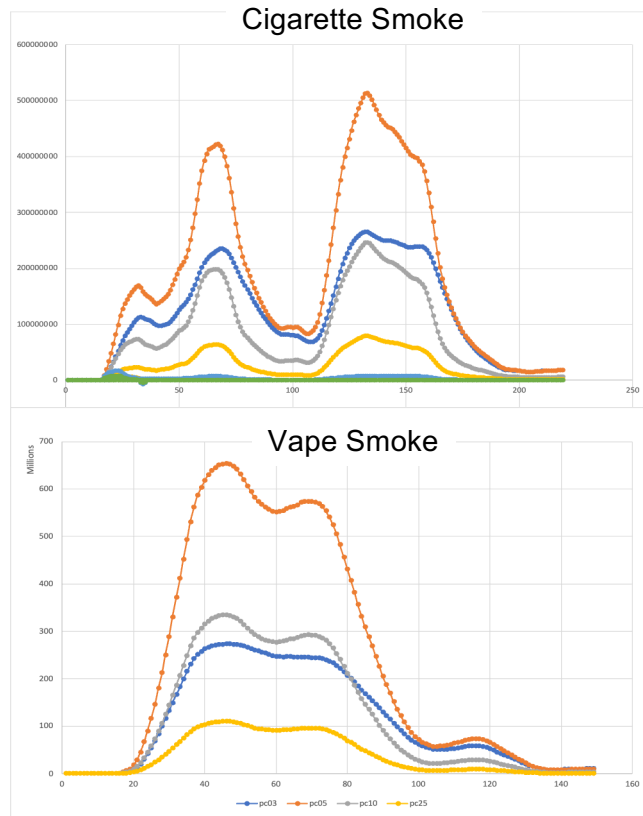
Particle Count + Particle Size + Number of Bins = Particle Classification

Canāree pollutant profiling works like Shazam™

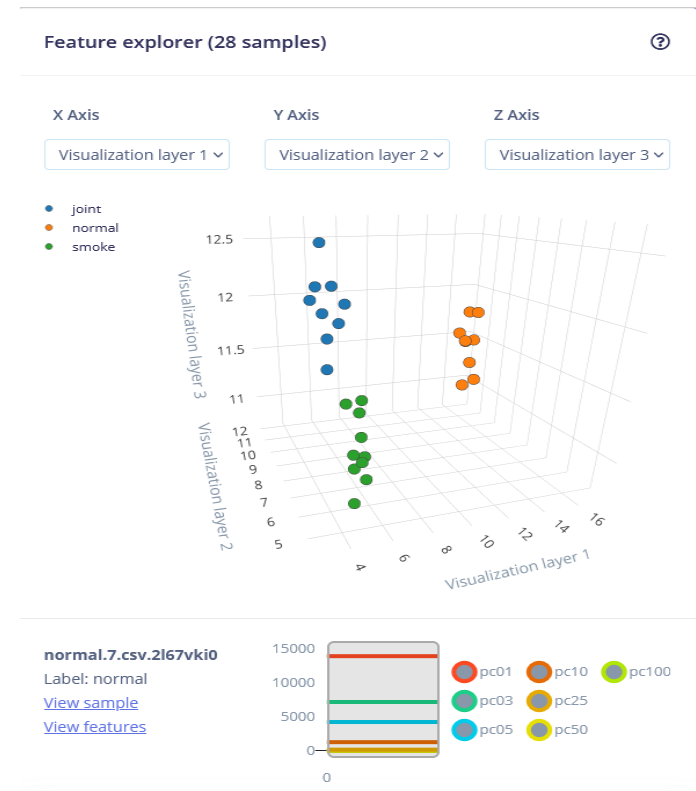
How does Shazam work?



Classifying/Profiling Pollution Sources



Classification requires accurate particle count and size data, from multiple 'bins', over time



ML Model for Vape, Tobacco Smoke and Good Air

Piera Systems Classification/Profiling



Air Quality Monitors & Sensors
deployed indoors & outdoors

Classification/Profiling Roadmap

Complete

Vape
Smoke
Cannabis
Body Spray

In Progress

Mold
Pollen
Construction dust
Wildfires
Cooking

Future

Pet dander
Allergens
Diesel
Bacteria



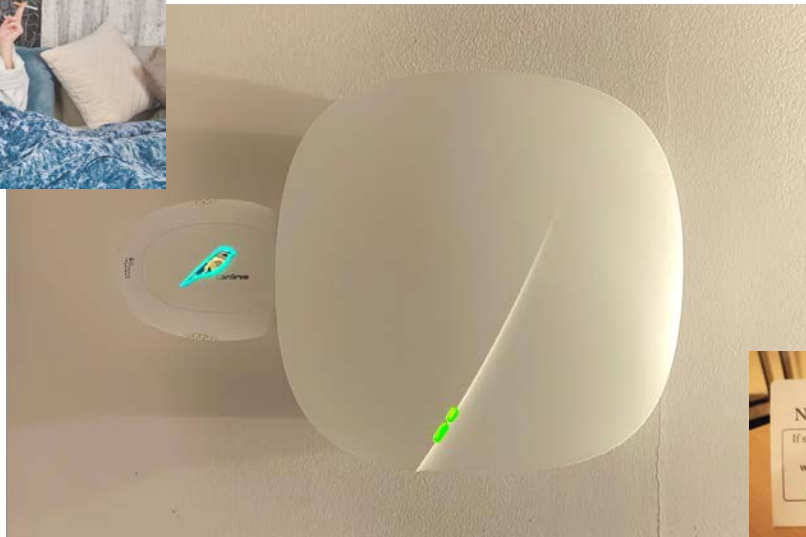
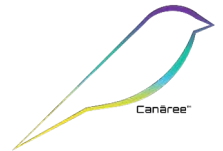
edge ai + vision
ALLIANCE™

Formerly the Embedded Vision Alliance



Vape/Smoke Detection on Canāree

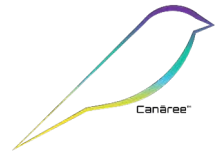
- Highly accurate event detection; within 30 seconds
- Distinguishes smoke from vape with proprietary algorithms
- SenseiAQ displays events as they happen and logs them
- LED on Canāree flashes **red** for smoke and **purple** for vape



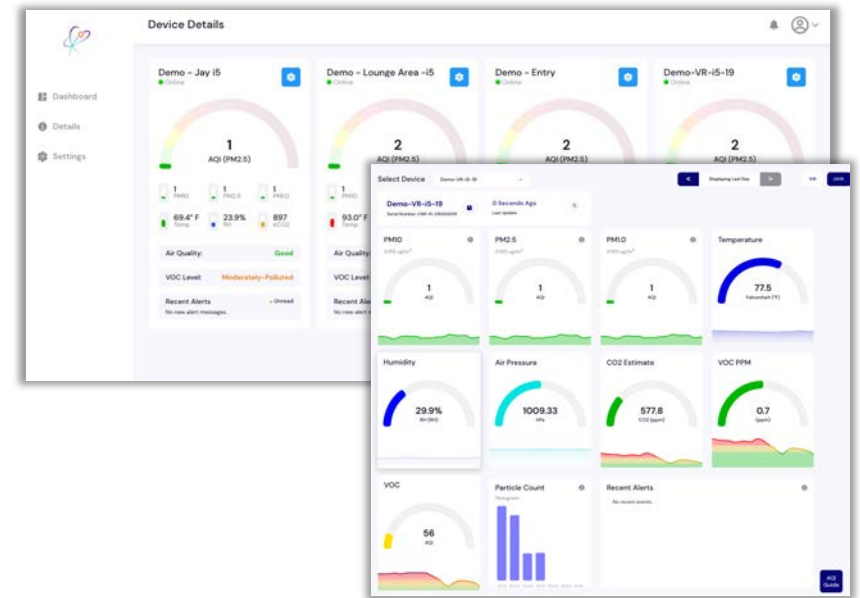
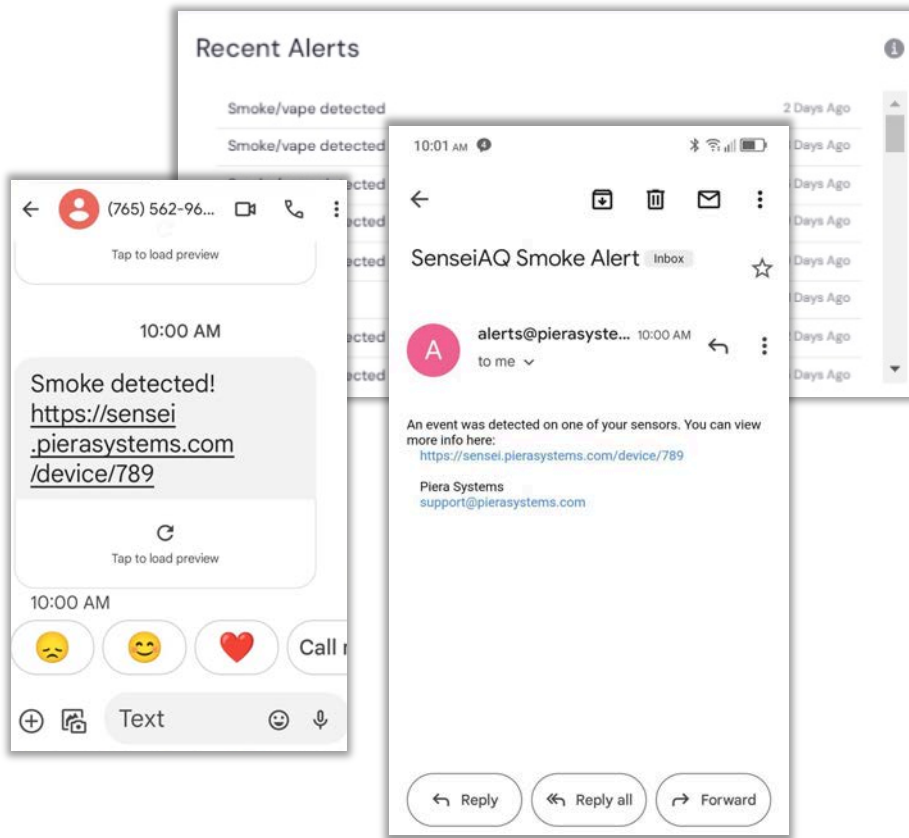
SenseiAQ Cloud Dashboard enables event detection and alerting from remote sensors



Actionable Data and Alerts



Real-time text / email alerts and alert logs for smoke/vape enforcement



Comprehensive environmental data for energy efficiency



Canāree is an Aruba Certified Solution

PARTNER SOLUTION OVERVIEW
ARUBA AND Piera Systems



UNIQUE VALUE PROPOSITION

The joint solution delivers the operational visibility and robustness demanded by COOs and Facilities Managers, without the expense of installing a traditional wired sensor system. Plug and Play USB installation allows Canāree AQM's to be deployed anywhere an Aruba AP is installed or planned in an ideal ceiling mounted location without additional expensive conduit or installation costs. These savings multiply during facilities changeouts because adds, moves, and changes are just as easy and inexpensive.

The demand for Air Quality Monitoring places unique demands on facilities, IT and finance with purchasing, installation and ongoing management challenges. Both companies are respected leaders in Air Quality and IT, respectively, and the joint integration allows data to flow reliably and securely across the existing network infrastructure. Flexible business models allow organizations to quickly install, operate and maintain the AQM network. And the insight provided will deliver peace of mind to employees, customers, and everyone visiting your facility.

BETTER TOGETHER

Aruba and Piera Systems have partnered to enable Aruba access points to 'anchor' Air Quality Monitoring for Indoor Spaces. Piera's Canāree PM (and PRO) Air Quality Monitors represents a breakthrough in the ability to measure Particulate Matter from 0.1-10 um with the accuracy and resolution of expensive reference instruments at a low cost. The location and separation of existing Access Points typically provides an ideal placement (ceilings) and distribution for Air Quality Monitoring (~ 10 m²). Canāree PRO augments Canāree PM with additional Sensors and Wifi and can be located remotely from Access Points (See Figure 2). PM and PRO can be deployed as needed across high traffic locations or where sources of emissions may occur.

Canāree and SenseIQ software when installed quickly and easily report indoor Air Quality providing insight into poor ventilation, indoor pollution due to vaping, smoking, cooking or other activities. Mitigation can include adjusting HVAC systems, increasing fresh air flow, adding or moving air purifiers, alerting those with respiratory issues or limiting access to areas with poor air quality.



PARTNER SOLUTION OVERVIEW Aruba & Piera Systems Indoor Air Quality Monitoring and Reporting

THE NEED FOR INDOOR AIR QUALITY MONITORING

Employees, customers and the general public are now aware of the need to monitor, measure and improve indoor air quality. Wildfires, global warming, COVID-19 and the increasing amount of time spent indoors has created a 'tipping point' for companies to take action. The source of most poor air quality is due to particulate matter (PM), a mixture of airborne solid particles and liquid droplets that can be inhaled and cause serious health problems. The World Health Organization (WHO) reports airborne particulate matter (particulate from 0.1-10 micrometer in size) as a Group 1 carcinogen and as the biggest environmental risk to health, with responsibility for about one in every nine deaths annually.

The EPA monitors and reports outdoor air quality but not indoor, and their monitoring stations are quite far apart, expensive and do not update in real-time. The EPA's Air Quality Index (AQI) is a simple, easy to follow metric for classifying air quality and can be applied indoors. However, it doesn't classify sources of poor air quality. To do so requires more detailed information about particle size and count. A new class of air quality monitors based on more accurate, higher resolution, real-time data about particle size and count has been developed by Piera Systems. It can leverage existing wireless access points from Aruba to quickly and cost effectively allow monitoring of indoor air quality.

A BREAKTHROUGH IN AIR QUALITY MONITORING: CANĀREE

Canāree™ PM is a low cost, Air Quality Monitor that plugs into existing Aruba Access Points (APs) and measures air quality instantly. Canāree PM is an IoT device connected to the Microsoft Azure cloud for secure data storage and access. Piera's SenseIQ™ software application running on Azure is a real-time dashboard that reports AQI together with additional analytics and alerts about indoor air quality. Canāree PM installs by simply plugging into an existing Aruba AP USB connector without needing to remove the AP to

WHY ARUBA & PIERA SYSTEMS?

- Highly accurate indoor air quality monitoring and management
- Leverage existing wireless access points to reduce costs, simplify installation and deliver real-time analytics
- SenseIQ™ application provides real-time dashboard, alerts and insight to take action and improve indoor air quality
- Vape/smoke detection in real-time
- Secure, cloud-based storage and analytics integrates with existing IT and facilities management applications
- Flexible business models allow own/rent/lease for short or long-term business requirements



Figure1: Canāree PM

Install. Power and secure IoT communications are provided by the AP. Data is logged and stored on Azure IoT Hub for easy integration with existing Building Management Systems. Canāree is easy to install, configure, maintain and update. A network of Canāree sensors monitored by SenseIQ can be easily reconfigured as needed.

Canāree contains Piera Systems Intelligent Particle Sensor Module, "Piera-1", an optoelectrical sensor based on laser scattering. Piera-1 utilizes a proprietary "PCIC" (Particle Counting Integrated Circuit), a custom ASIC specifically developed for photon-counting and processing (3 granted US patents). PCIC can identify different sized particles and their concentration by directly counting pulses of different levels

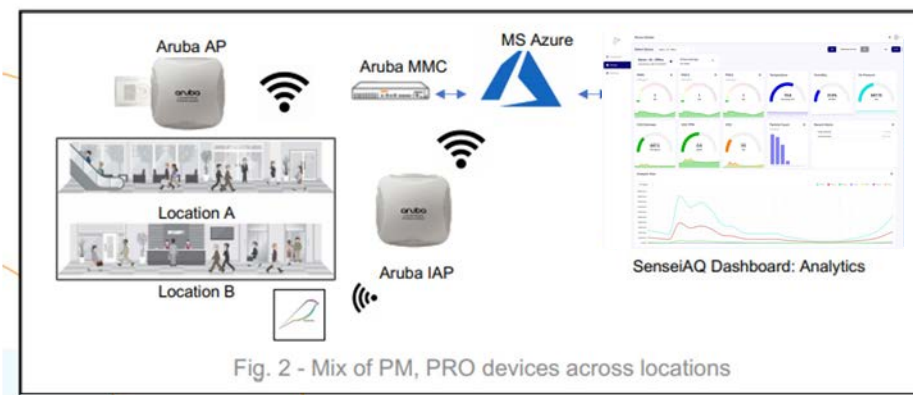
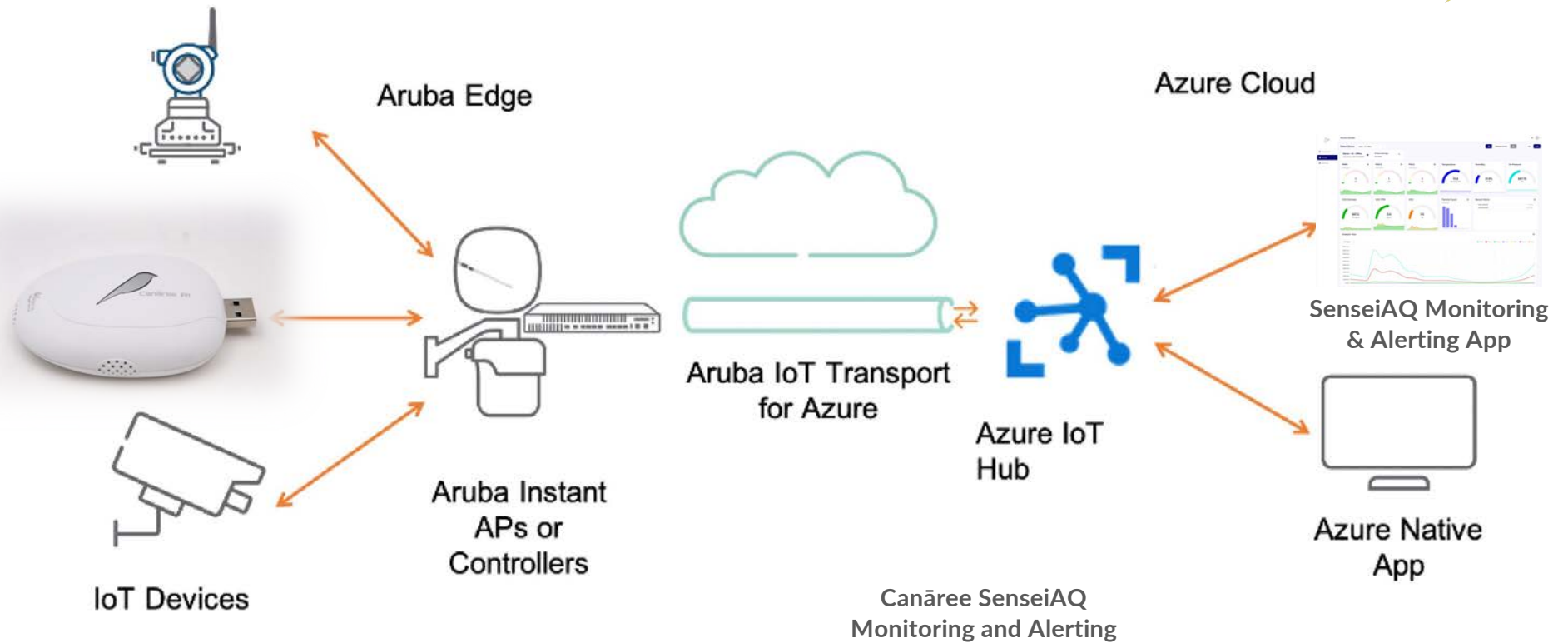
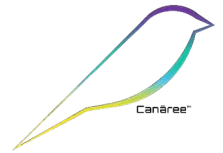


Fig. 2 - Mix of PM, PRO devices across locations



Aruba Intelligent Edge-IoT Transport

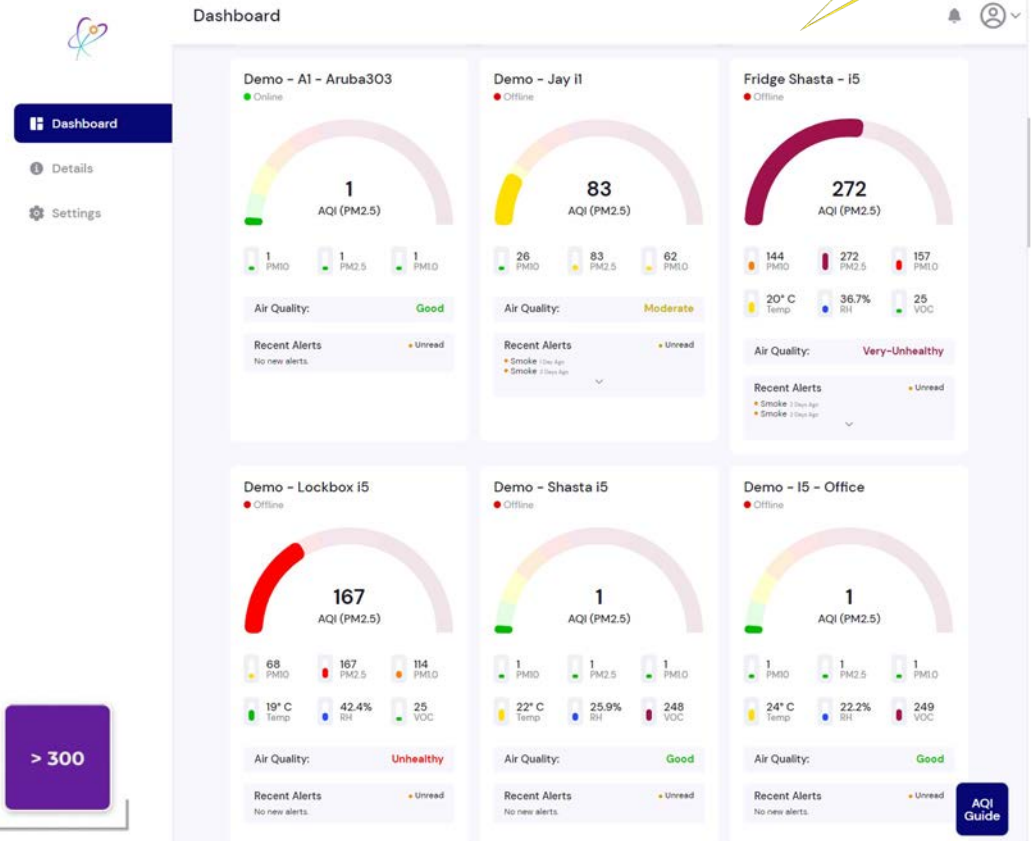
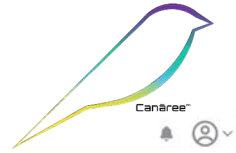


Canāree i-Series



SenseiAQ Software and Dashboard

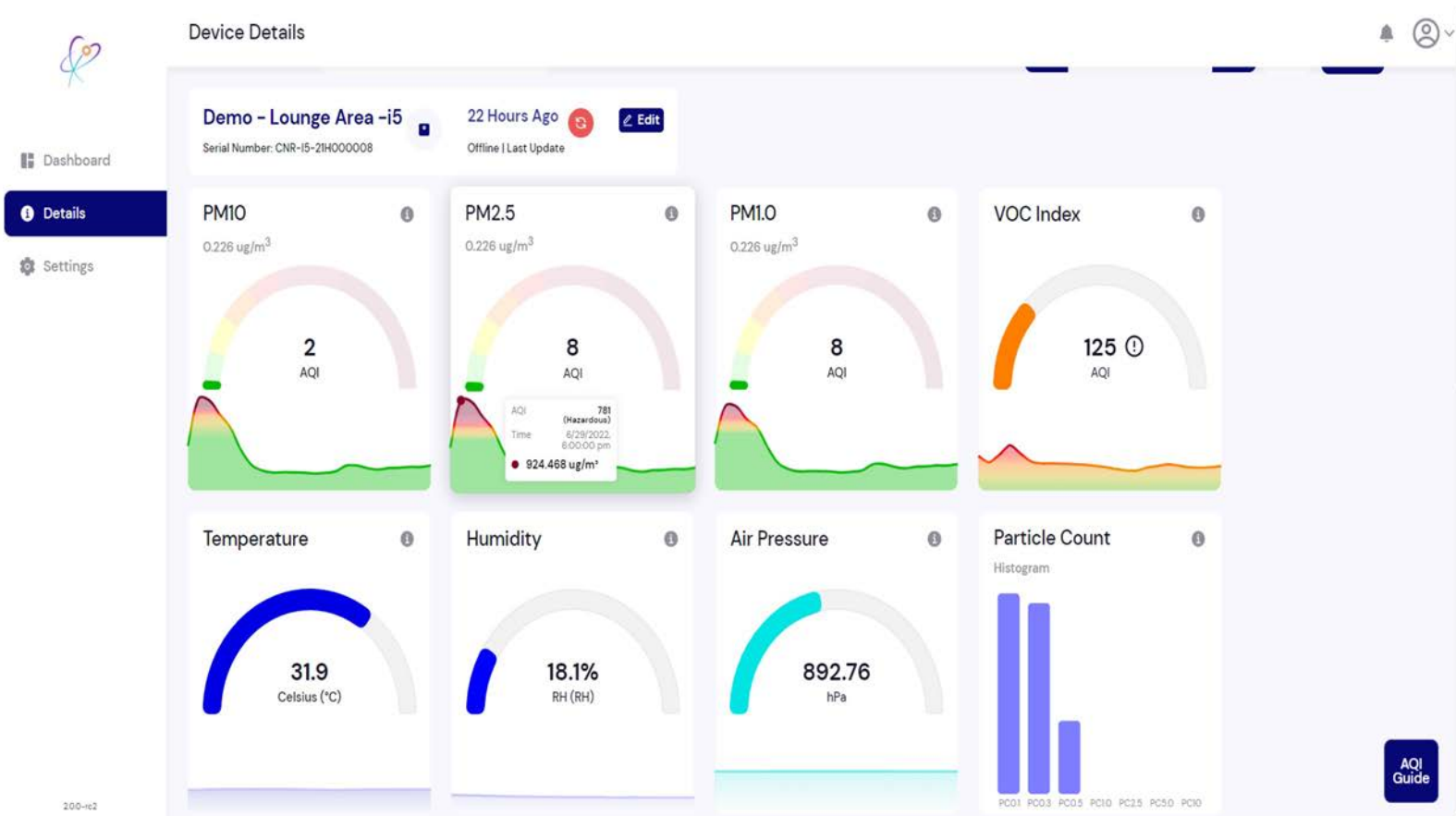
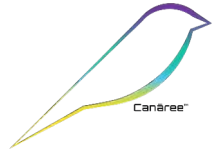
- Browser or application for Windows/Mac
 - iOS, Android apps (Q4 '22)
- Standalone or connected to cloud
 - Our cloud or yours
- Dashboard: **EPA AQI**, vape/smoke, alerts
- Detailed analytics tab and logging capabilities
- Manage Canāree installation, setup, control
 - Name Sensors, Set Locations, Make AQI Data Public
- API for integration with other applications



United States (AQI)



SenseiAQ Details View

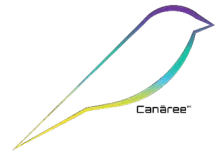


Scan QR Code to see AQ and alerts

Demo Site [https:// demo.pierasystems.com](https://demo.pierasystems.com) login: demo / demo



Custom Smart Floorplans (optional)



Ideal Sensor Placement in the Hotel

- Hotel Rooms
- Common Areas
- Executive Offices
- Lobby / Entryway
- Pool change rooms

High-Density WiFi designs are great for full AQM coverage

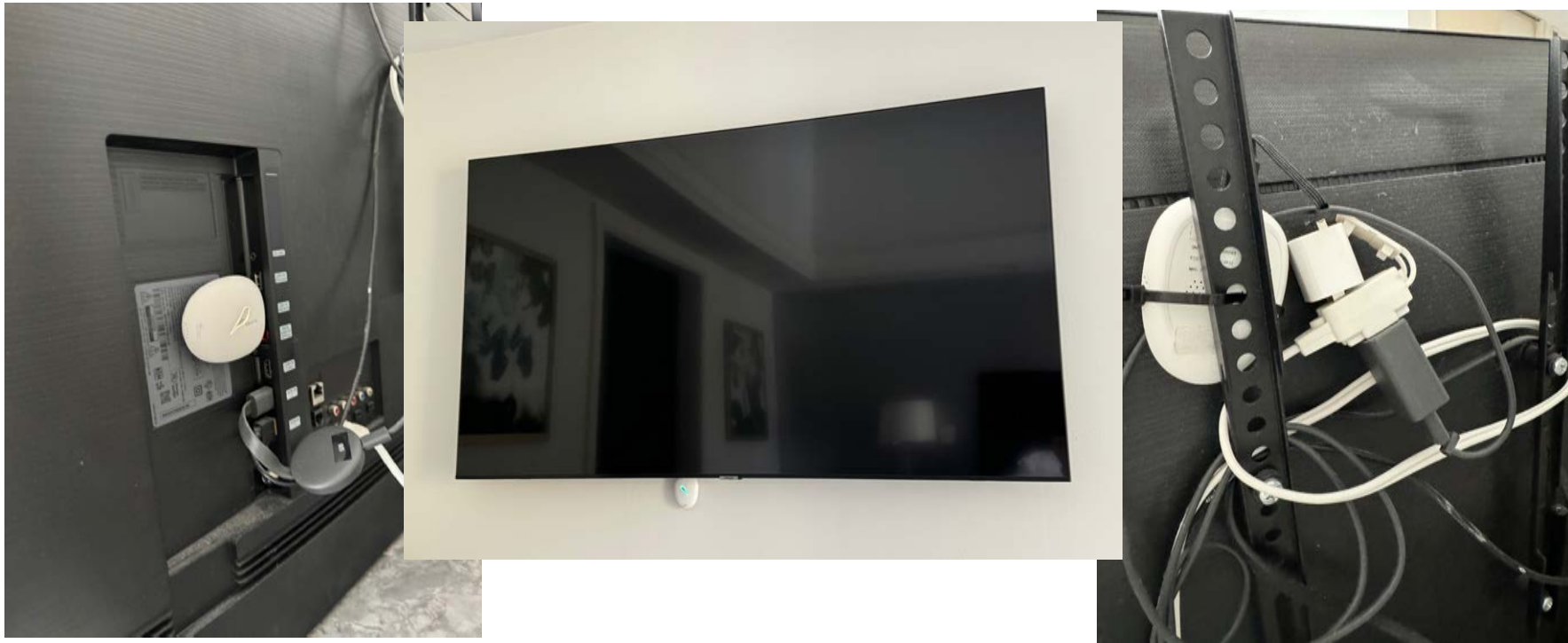


Scan QR Code to see AQ !



Hotel Room Installations

Canāree can be installed and powered using the latent USB-A port on network access points. In addition, they can be installed in the USB ports of either the TV or set-top box located behind the TV. Customers have secured in place with either lock straps, zip ties or glue.



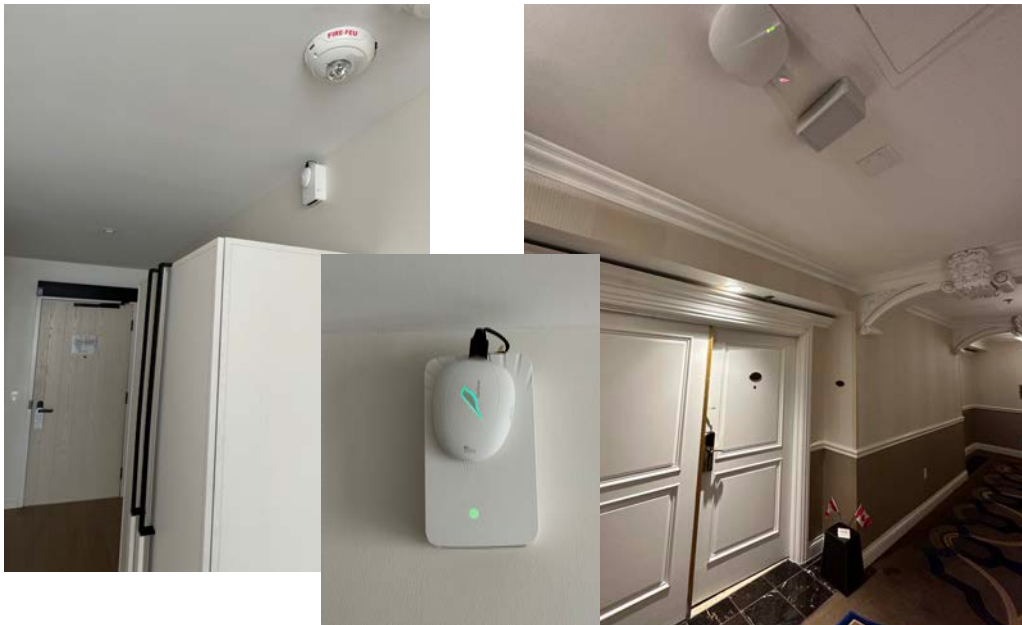
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⚠ Use a dedicated USB port or adapter capable of 5W output (min), not shared with other devices

Access Point or Set-Top Box Powered

If the environment has Wireless APs deployed with side- or top-mounted USB-A connectors, the Canāree can be powered and managed directly from the AP. The AP itself is typically powered by 48V PoE+ Ethernet, or its own 12V aall charger

If the environment has STBs deployed with USB-A connectors, the Canāree can use the STB power and transmit data to the cloud through the local SSID.



 Use a dedicated USB port or adapter capable of 5W output (min), not shared with other devices

Real-time Solution for Hospitality

Canāree is a cost-effective air monitor

Real-time vaping/smoking alerts using patented technology

Vape/smoke data logged for further enforcement

Deploy tamper-free in every room



Enforce vaping/smoking bans, cut down on cleaning costs, and ensure healthy spaces



Canāree Pays for Itself

- Each smoking incident can cost between \$500 - \$1500 to clean
- Powerful deterrent to prevent activity before it starts
- Accurate air data will result in energy savings
- Improved occupancy rates for additional revenues
- Differentiate your property with 'clean marketing'

Respiratory Smoke/Vape Detection & Alerts ROI Calculator

Assumptions	Year 1	Notes
Average Room Rate (\$/N)	150.00	2023 US Average Rate - \$150.00
Number of Rooms per Room (#)	150	
Number of Rooms per Night (#)	22,500	
Hours of Clean Cycle	4,000	Assuming 20% of Cleaning Service
Hours to Clean Rooms	2,000	Assuming 50% of Cleaning Service
Hours to Clean Corridors	2,000	Assuming 50% of Cleaning Service
Costly Smoke/Vape Cleaning Cost (\$/N)	150.00	
Monthly Cleaning Rate (\$)	750.00	
Average Monthly Cleaning Cost per 10,000 sq. ft. of Cleanable Area	7.50	US Average - \$7.50 (2023 average)
Average Monthly Cleaning Cost per 10,000 sq. ft. of Cleanable Area (\$/N)	5.00	US Average - \$5.00 (2023 average)
Estimated Monthly Cleaning Cost (\$)	2,500.00	US Average - \$2,500.00 (2023 average)
Monthly Cleaning Cost (\$/N)	16.67	US Average - \$16.67 (2023 average)
Monthly Cleaning Cost (\$/Room)	1.11	US Average - \$1.11 (2023 average)
Monthly Cleaning Cost (\$/Night)	16.67	US Average - \$16.67 (2023 average)
Monthly Cleaning Cost (\$/Day)	55.56	US Average - \$55.56 (2023 average)
Monthly Cleaning Cost (\$/Month)	1,667.00	US Average - \$1,667.00 (2023 average)
Annual Cleaning Cost (\$/Year)	20,004.00	US Average - \$20,004.00 (2023 average)
Annual Cleaning Cost (\$/Room)	133.36	US Average - \$133.36 (2023 average)
Annual Cleaning Cost (\$/Night)	666.80	US Average - \$666.80 (2023 average)
Annual Cleaning Cost (\$/Day)	2,000.40	US Average - \$2,000.40 (2023 average)
Annual Cleaning Cost (\$/Month)	16,670.00	US Average - \$16,670.00 (2023 average)
Annual Cleaning Cost (\$/Year)	200,040.00	US Average - \$200,040.00 (2023 average)
Annual Cleaning Cost (\$/Room)	1,333.60	US Average - \$1,333.60 (2023 average)
Annual Cleaning Cost (\$/Night)	6,668.00	US Average - \$6,668.00 (2023 average)
Annual Cleaning Cost (\$/Day)	20,004.00	US Average - \$20,004.00 (2023 average)
Annual Cleaning Cost (\$/Month)	166,700.00	US Average - \$166,700.00 (2023 average)
Annual Cleaning Cost (\$/Year)	2,000,400.00	US Average - \$2,000,400.00 (2023 average)
Annual Cleaning Cost (\$/Room)	13,336.00	US Average - \$13,336.00 (2023 average)
Annual Cleaning Cost (\$/Night)	66,680.00	US Average - \$66,680.00 (2023 average)
Annual Cleaning Cost (\$/Day)	200,040.00	US Average - \$200,040.00 (2023 average)
Annual Cleaning Cost (\$/Month)	1,667,000.00	US Average - \$1,667,000.00 (2023 average)
Annual Cleaning Cost (\$/Year)	20,004,000.00	US Average - \$20,004,000.00 (2023 average)
Annual Cleaning Cost (\$/Room)	133,360.00	US Average - \$133,360.00 (2023 average)
Annual Cleaning Cost (\$/Night)	666,800.00	US Average - \$666,800.00 (2023 average)
Annual Cleaning Cost (\$/Day)	2,000,400.00	US Average - \$2,000,400.00 (2023 average)
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Annual Cleaning Cost (\$/Year)	2,000,400,000,000,000.00	US Average - \$2,000,400,000,000,000.00 (2023 average)

ROI Spreadsheet Available Upon Request



An aerial photograph showing a dense, vibrant green forest on the right side, which meets a bright blue body of water on the left. The water's surface has a slight ripple, and the forest appears thick and healthy. The overall scene is serene and natural.

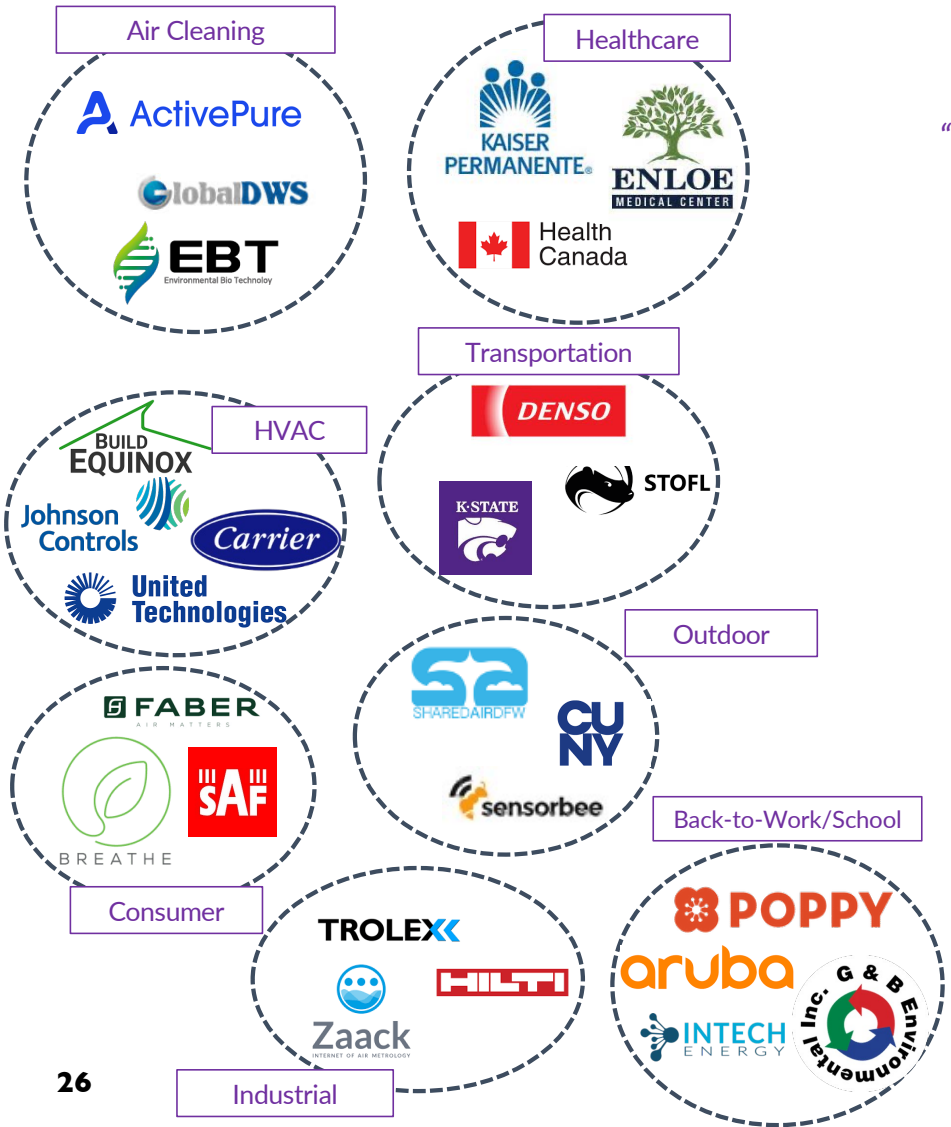
Key Values for Hospitality

Improve customer experience and health

Differentiate your property – vape and wildfire proof

Increase revenues with enforcement, cleaning, and energy savings

Our Customers



“Your sensor is so powerful that it'd be a shame to use it just to control the range hood”

- Chief Engineer, Faber Spa, Kitchen Appliance Maker

“We have picked Piera as our long-term partner to attack a vastly untouched sector with a huge demand for robust industrial sensing technology”

- CEO, Trolex, Mining and Industrial Solutions

“Human health is directly correlated to sub-micron particles and Piera’s sensors are a game-changer as this allows us to monitor air quality at an unprecedented scale”

- VP, Build Equinox, HVAC equipment & Prof, Univ of Illinois - Urbana Champaign

“Air pollution is an enormous global health problem and our ability to combat it starts with accurately measuring it. We couldn’t be more pleased with our collaboration with Piera and the quality of their particle sensors, We are now able to offer highly accurate outdoor air quality monitors while unlocking brand new applications.”

David Löwenbrand, CEO of Sensorbee.

250+ evaluations by commercial, industrial, academic, and citizen scientist groups on 6 continents across a broad range of applications



The Team



Vin Ratford
CEO



Aaron Soh
Founder & CTO



Howard Pakosh
Sales & Business
Development



Andy Soh
Chief Architect

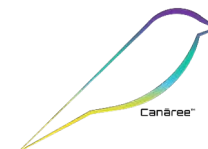


Mark Hobaugh
VP Manufacturing
Operations



Neil Klepeis
Environmental
Research
Scientist

- Decades of startup and corporate experience
- Serial entrepreneurs, innovation-focused
- Successfully scaled multiple companies
- Multiple exits through M&A, IPO
- Semiconductors, Software, AI/ML, Crypto, Biotech, Environmental Data



Piera Systems

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Mississauga, ON L5L 1C6

Telephone: +1.905.634.6688

Email: sales@pierasystems.com

What's in your AIR?





Additional Details

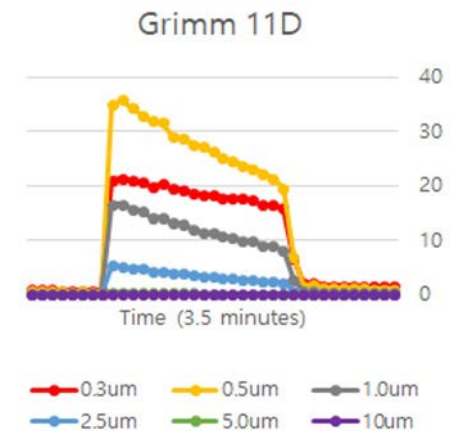
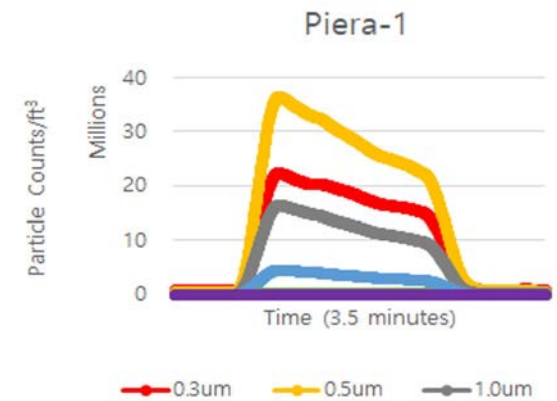
The Technology Behind Canāree

IPS - Breakthrough Family of Sensors



- Highly Accurate
- PM10 to PM0.1
- Particle counts and size, not just mass
- Software Defined
- >6000 $\mu\text{g}/\text{m}^3$
- <\$30-\$95
-

World's only certified sensor that accurately counts every particle from 0.1 μm - 10 μm in real-time

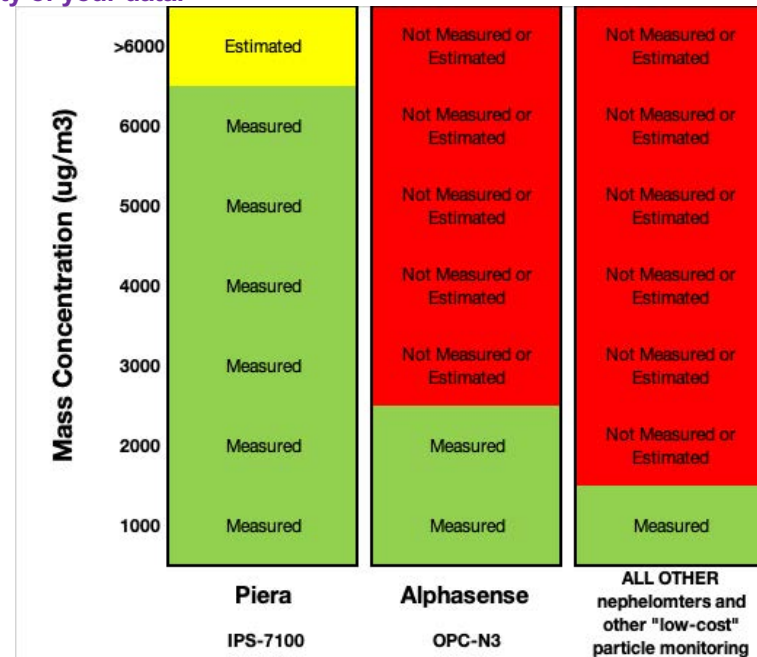
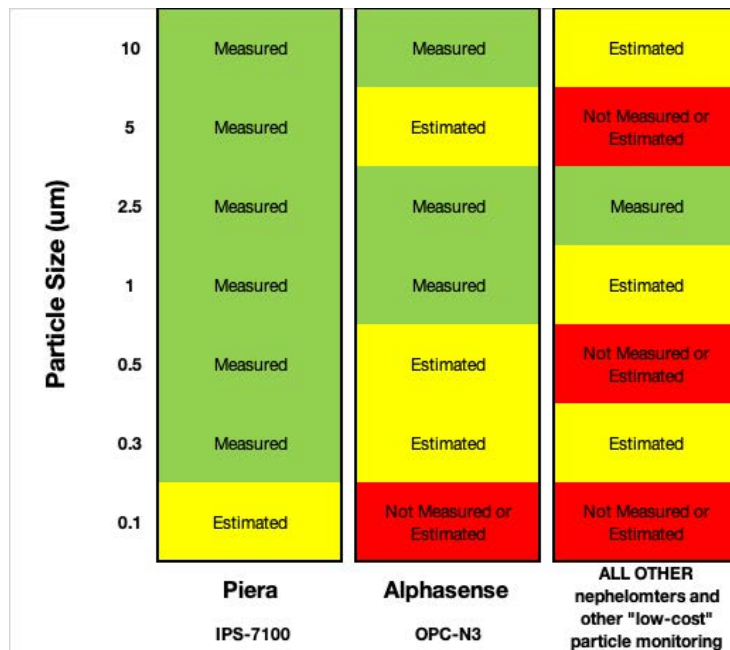


Piera IPS vs. PM2.5 Sensors

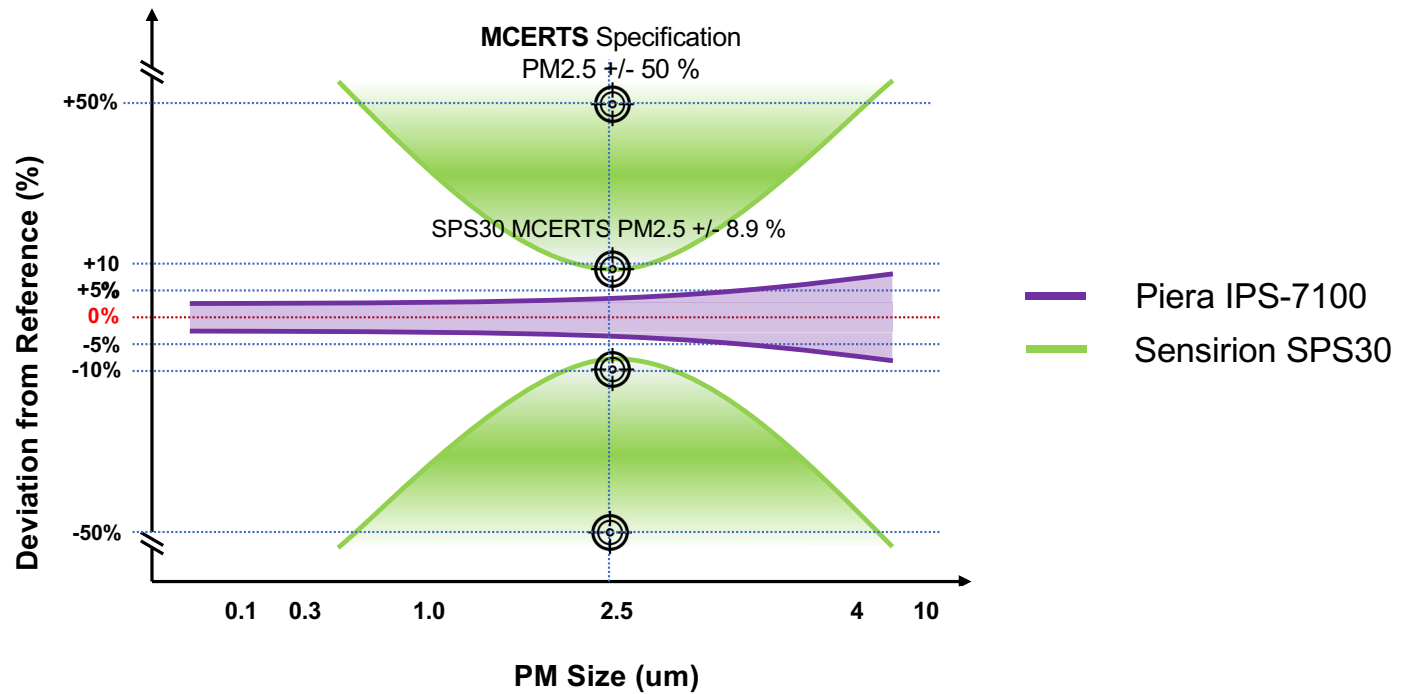
Measurement Differentiation

- ✗ Some low-cost monitors measure only one particle size (e.g. PM2.5) and interpolate to give readings for other particle sizes.
- ✓ Piera Systems IPS measures and count each particle size: PM0.1, PM0.3, PM0.5, PM1.0, PM2.5, PM5.0, and PM10 for reliable, high accuracy data, in real-time.

At Piera Systems, we don't compromise on accuracy, so you never have to worry about the reliability of your data.



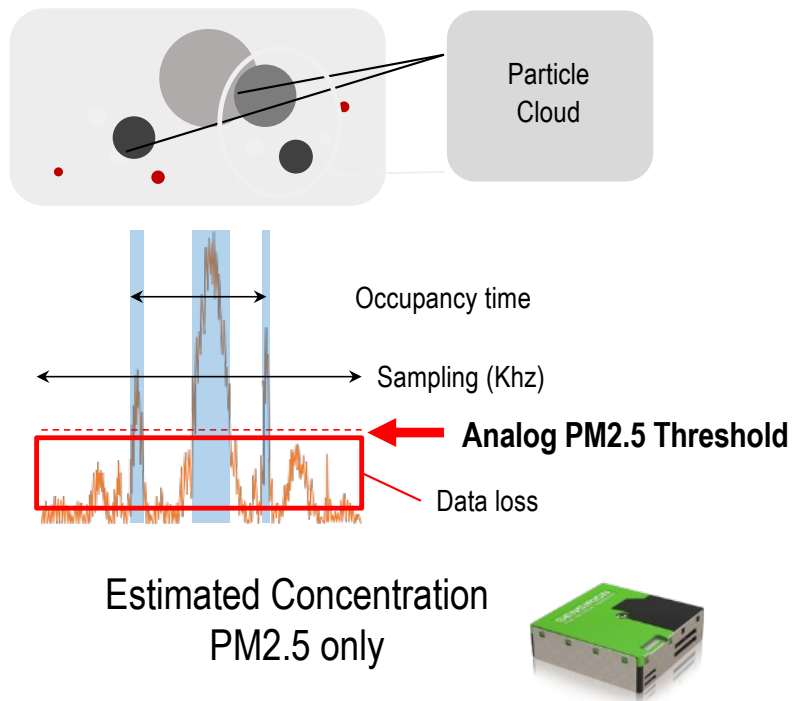
Piera IPS vs PM2.5 Sensors Accuracy



The plots are not drawn to scale, intended for illustrative purpose only. The error can be different depending on test particles used, reference instrument used and environment.

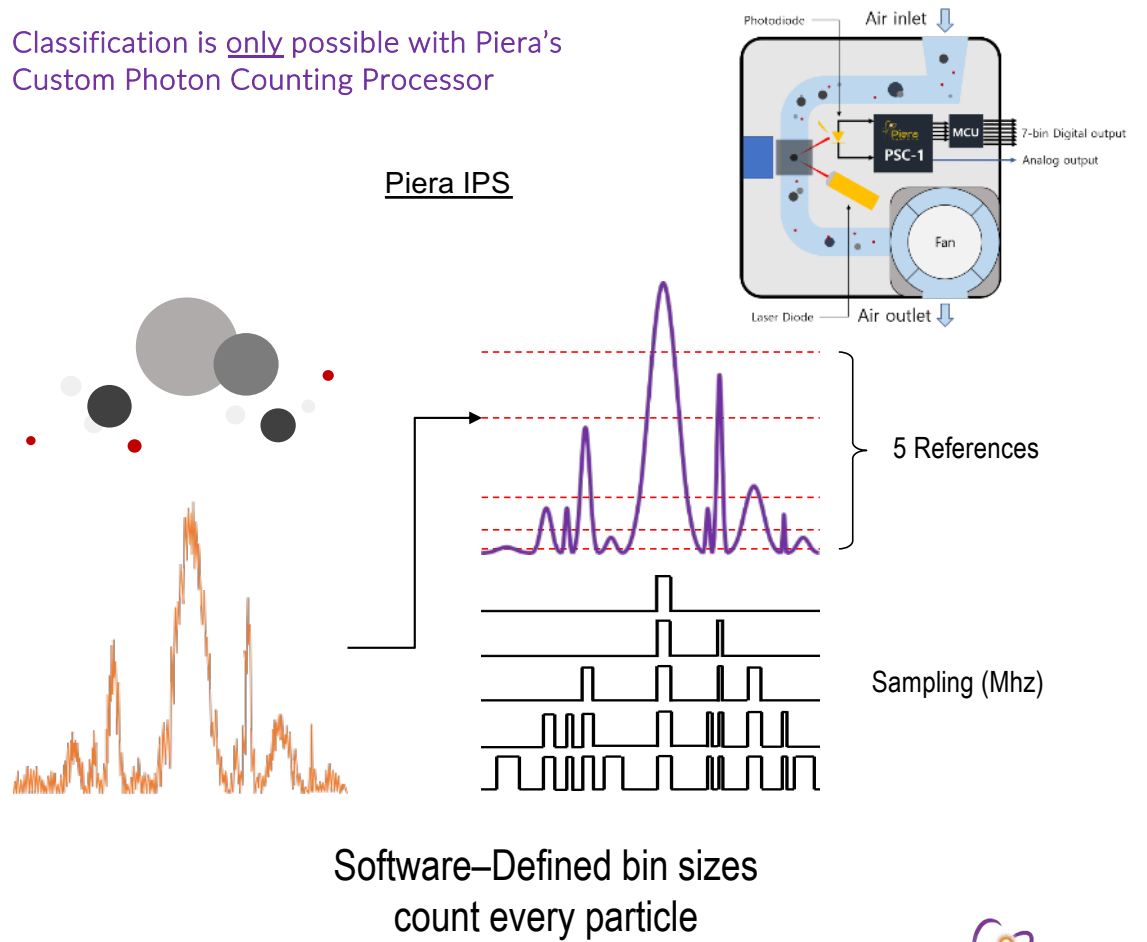
Piera IPS vs PM2.5 Sensors Technology

Competition



Classification is only possible with Piera's Custom Photon Counting Processor

Piera IPS

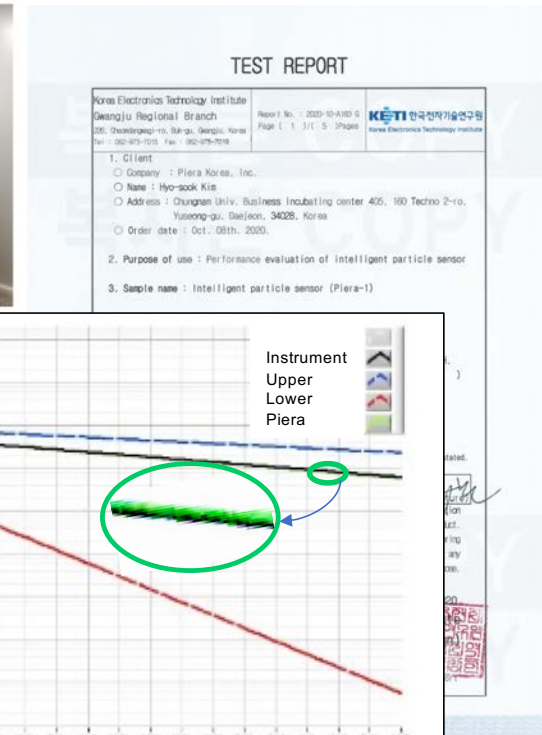


IPS Certification

- Extremely accurate particle-counting mixed signal IC (PCS-1)



- Accurate, cost-effective Intelligent Particle Sensors (IPS Family)



The Only Certified Sensor that counts every particle from 0.1µm-10.0 µm in real-time



PASCAL – Piera Automated Sensor Calibration

The PASCAL Process

A standardized process developed by Piera Systems to calibrate each individual particle sensor according to a set of strict standards

3-in-1 process

Includes a programmable device functionality testing step; particle size/mass calibration step; a final validation and QA step

Industry's first automatic volume production chamber capable of calibrating devices based on both particle counts and mass concentration for the widest concentration range in the industry (0-6,000ug/m³)

Testing capacity: ~4,000 units per week

Advantages

Enables precise device calibration

Minimal labor involvement

Scalability and adaptability

Provides complete individual device calibration record for traceability

