Canāree I5 Vape Detector and AQ Monitor for Schools
For the detection of vaping/smoking and generation of instant alerts

Who invented the Canāree monitor?

Canāree is widely deployed by educational institutions, hospitals , hotels, cruise ships, and short-term rental properties to detect unauthorized vaping and smoking. Piera Systems gives school administrations and risk-management staff the data they need to keep children safe.

Piera Systems Inc. (Mississauga, Ontario, Canada) designs and builds hardware to monitor air quality. These monitors successfully detect when air quality is poor but were previously unable to isolate the source of pollutants. Piera System's AI/ML algorithms allow Canāree to intelligently detect type of aerosols and determine if they are harmful, e.g., vaping or cigarette smoke. In addition, it successfully distinguishes between vaping aerosols or those from deodorants or air fresheners.

https://pierasystems.com/products/canaree-i5/

Who currently uses the Canāree monitor?

Schools and hospitals throughout North America and Australia are adopting the monitor. For example, Avon-Maitland District School Board operates more than 40 schools in Ontario, Canada. They were concerned about students vaping in the bathrooms and set up a trial unit in a girls' toilet block. That one block immediately began detecting three to four vaping events a day and they are subsequently rolling out the monitors across their schools. The Canāree is set up with the SenseiAQ dashboard which sends text messages (or e-mails) to the Principal and Vice-Principals each time it detects a vape/smoke event. Their initial sensor can be viewed live here, via the SenseiAQ platform:

Quad School Girl's Bathroom (Live)

What makes the Canāree monitor better than any other solution?

- **REAL-TIME DATA** - Canāree gives an instant reading because it uses an AI model to detect vape at the edge, not in the cloud. It operates from an edge processing device, that is, a microprocessor, which updates on the device automatically and performs inference/calculations on the device itself for genuine, real-time alerts. No sending of results to the cloud for analysis.

- **EFFICIENT ALERTS** - Once an alert is raised, a text message (or e-mail) alert is sent to school principal and/or other nominated staff to take action. By the time a student is on the second or third puff/hit, staff have entered the bathroom and are able to catch a student (or more usually a group of students) in the act. Alternatively, should the school wish to gather data instead, the SenseiAQ platform stores historical data for later recall and analysis.

- **EASIER DEPLOYMENT** - Canāree can be easily deployed using existing network access points (eg. Aruba or Cisco) or anywhere where power can be derived from a USB port (eg. televisions). Piera Systems is an Authorized Technology Partner of HPE Aruba.

- **BETTER ACCURACY** - Competitors like Zeptive or HALO (by IPvideo, Div. of Motorola), use a gas sensing solution in combination with a low-cost PM2.5 particulate matter sensor to detect vape. They are less effective and prone to false readings from aerosols also found in school bathrooms, e.g. body sprays and hair sprays. Many schools who use these detectors find that students figure this out quickly, rendering the monitor next to useless. In contrast, Canāree detects and distinguishes between different types of aerosols and vaping/cigarette aerosols, only generating alerts when it detects vaping or cigarette smoke.

- **LOWER COST OF OWNERSHIP** – School budgets are limited. Canāree is significantly less costly than the competition.

How much does the Canāree monitor cost?
The Canāree' solution starts at USD $469. (MSRP). Included are:

- Model Canāree i5 Vape Detector & AQ Monitor
- SenseiAQ AQ Monitoring service for 12 months
- Smoke/Vape detection and alerting (via text and/or email)
- (Optional) Mounting Kit which includes a protective cover, 5V/2A USB-A power adapter, and 1m USB-A extension cable
- **Multi-year lease options are available upon request**

Award Winning Canāree
Canāree has won the accolades of many in the industry. In 2023, the product has won an Innovation Award at CES 2023 and is the Product of the Year from the Edge/AI Vision Alliance:

Hewlett Packard Enterprise · **aruba** a Hewlett Packard Enterprise company

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