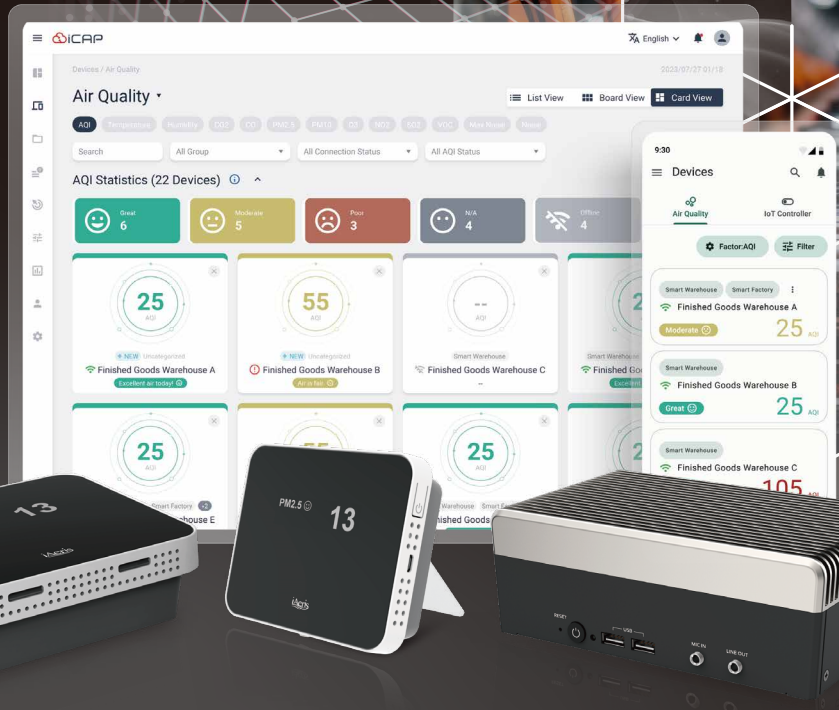Certified by
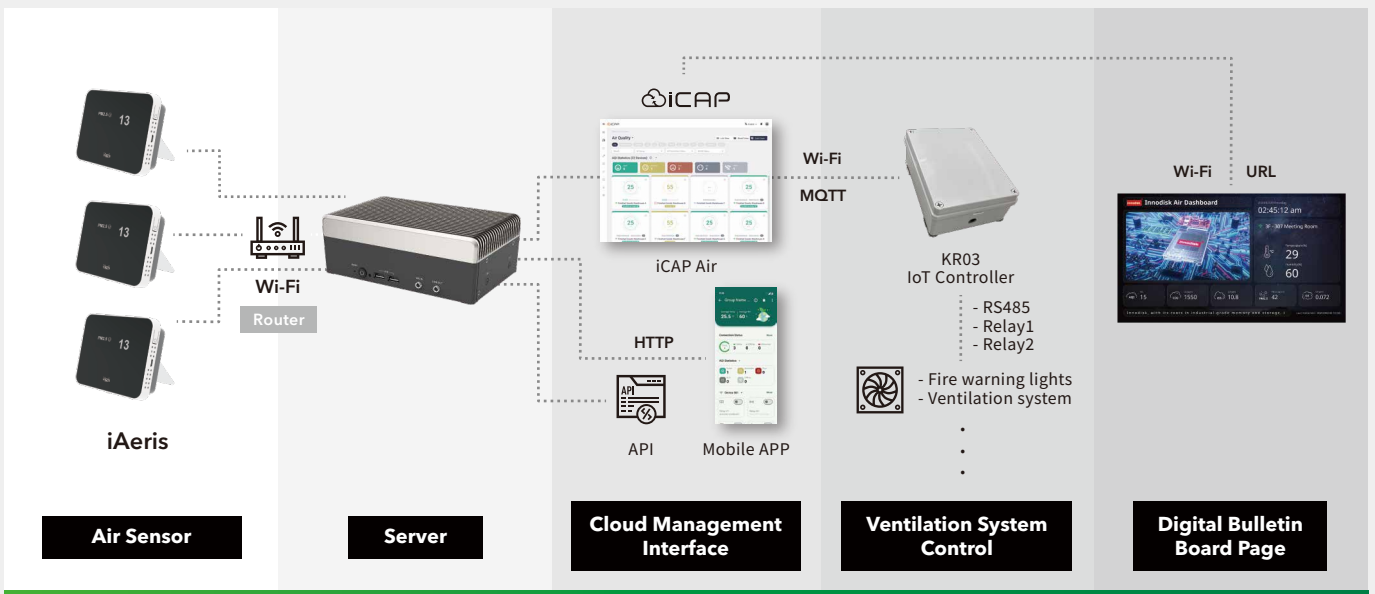ITRI/SGS and
International
FCC/CE/RoHS/
NCC/BSMI

iCAP AIR

AIR QUALITY MANAGEMENT SOLUTION

Learn more

Software & Hardware Integration
One-to-Many Industrial-Grade Smart IoT Solutions

Wi-Fi
Router

iAeris

Wi-Fi
MQTT

iCAP Air

HTTP

API   Mobile APP

KR03
IoT Controller

- RS485
- Relay1
- Relay2

- Fire warning lights
- Ventilation system

Wi-Fi   URL

Innodisk Air Dashboard

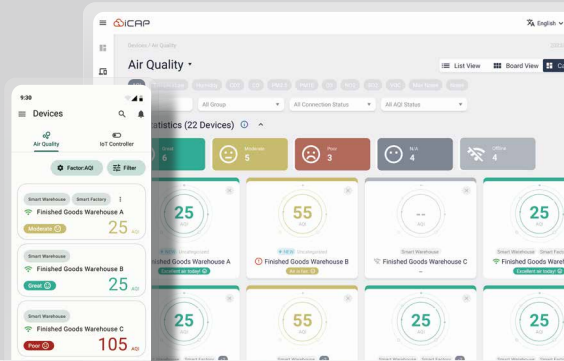| **Air Sensor** | **Server** | **Cloud Management Interface** | **Ventilation System Control** | **Digital Bulletin Board Page** |

Remote Management ✕ On-Site Display
Instantly Satisfying Both Front-End and Back-End Application Needs

Remote Management

Real-time air quality information via web browser or mobile APP.
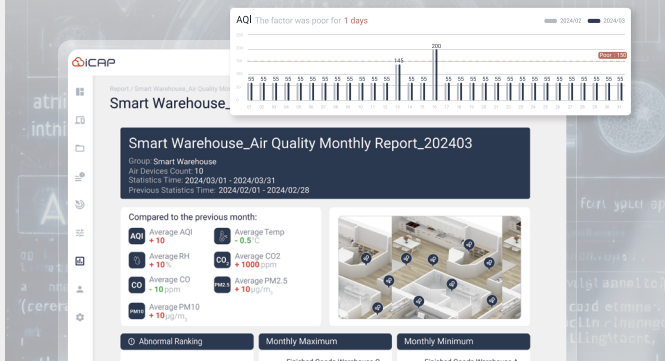
On-Site Display

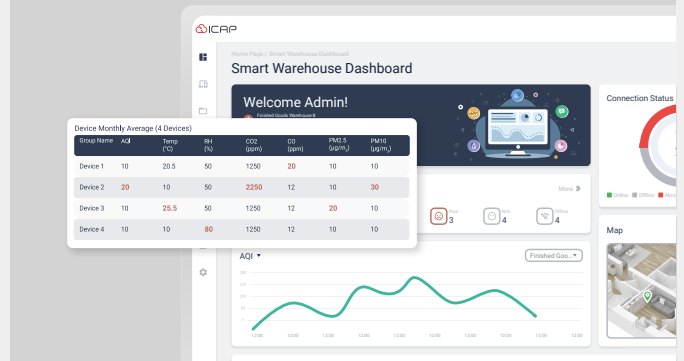Upload videos and text for commercial and policy promotion.

AI Analysis Report

Generate monthly analysis reports automatically to comprehend air quality trends.
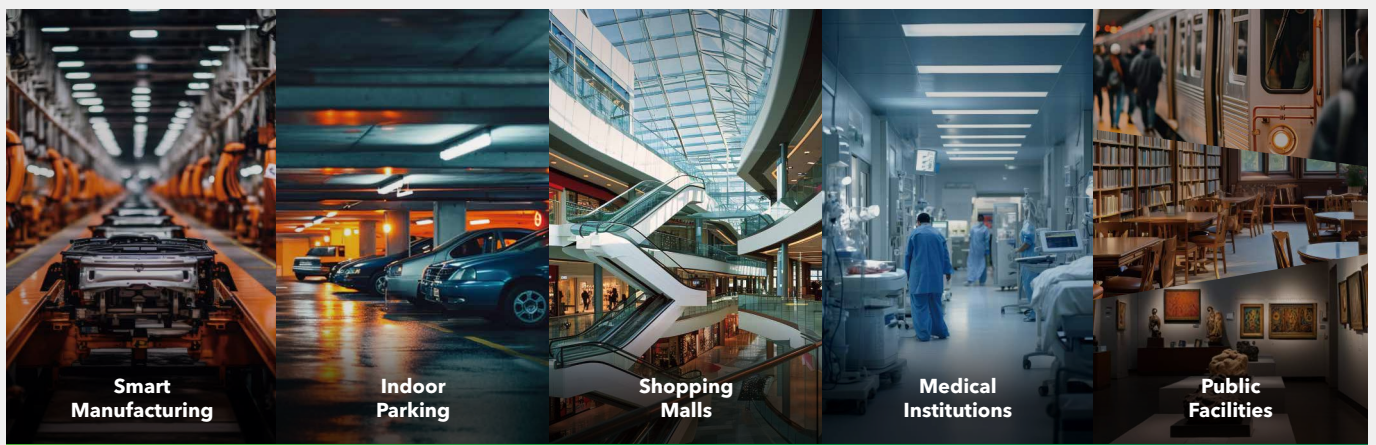
Data Reocrd and Download

Data traceability in air quality management supports LEED and WELL certifications.

Supporting Multi-Field Air Quality Management for Sustainable Environments

Smart Manufacturing

Indoor Parking

Shopping Malls

Medical Institutions

Public Facilities

Industrial-Grade Quality ✕ Comprehensive Management Features

		iCAP Air	Other industrial products	Other commercial products
Feature Technologies	Detection accuracy	Industrial grade	Industrial grade	Consumer / Commercial grade
	Customized detection factors	✓	✓	–
	SGS certification	✓	✓	–
	Self-developed and calibration capability	✓	✓	–
AI Service	AI-generated analysis reports	✓	–	–
Exclusive Features	Advertising display function	✓	✓	–
Management Functions	Group management	✓	–	–
	Customized administrative permissions	✓	–	–
	APP access and alarm notifications	✓	–	✓
	Automated scheduling and conditional ventilation system control	✓	–	✓

People Flow Detection Integrated for Enhanced Facility Management

iCAP Air can be further integrated with advanced people-counting cameras. By analyzing real-time data on foot traffic and air quality, it can help optimize ventilation systems, improving energy efficiency and indoor comfort.
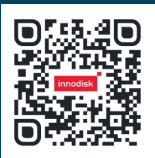
Customized Solutions

Depending on site-specific needs, systems can be customized with either a complete iCAP Air solution or individual iAeris series detector.

A — iCAP AIR
AIR QUALITY MANAGEMENT SOLUTION

B — iAERIS AIR QUALITY DETECTOR / MODULE

Model	iAeris Indoor Solution				iAeris Outdoor IP68 Housing Case
	iAeris 2	iAeris 5	iAeris 6	iAeris 7	iAeris 3
Supports iCAP Air Platform			●	●	●
Display	--	-- / Directly output to HDMI display	Yes (7"), Touchable	Yes (2.23")	--
Dimension (LxWxH mm)	158 x 115 x 32	171 x 125 x 44	227 x 129 x 37	114 x 96 x 36	180 x 265 x 138
PoE		●	●		
Total support factors	3-9	3-10	3-9	2-6	3-8
Temperature	●	●	●	●	●
RH	●	●	●	●	●
PM2.5	●	●	●	●	●
PM10	●	●	●	●	●
CO2	●	●	●	●	
TVOC	●	●	●	●	●
HCHO	●	●	●		
CO	●	●	●		●
NO2, SO2, NH3, H2S, O3 and other sensors can be changed by request.					
Control Interface	--	3 sets DO (Max 24V DC)	3 sets DO (Max 125V AC / 30V DC)	1 set DO (Max 125V AC / 30V DC)(opt.)	--
Transmission interface	Wi-Fi / RS485 / BLE 4.0	RS485 / Wi-Fi / RJ45-Ethernet / USB	RS485 / Wi-Fi / RJ45-Ethernet	RS485 / Wi-Fi / BLE4.0 (opt.)	NB-IOT / 4G (opt.) / RS485 / Wi-Fi
Communication Protocol	Modbus-RTU / Modbus-TCP / HTTP / MQTT				
Power	DC 5V,1A / DC 12-24V, 0.5A	DC 5V , 2A / POE-IEEE802.3af (opt.)	DC 5V,1A / DC 12-24V, 0.5A POE-IEEE802.3af (opt.)	DC 5V, 1A / DC 12-24V, 0.5A	AC110-240V / DC 12-24V / DC 5V (opt.)

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