

CAM Monitor

Technical Specifications

Wall-mounted or Table Top Environmental Quality Monitor



Our CAM Commercial IAQ Monitor:
The Most Comprehensive Environmental Quality Monitor



Temperature



Relative Humidity



Carbon Dioxide



Dust PM₁



Dust PM_{2.5}



Dust PM₄



Dust PM₁₀



Formaldehyde



Carbon Monoxide



Air Pressure



Light



Sound



VOCs



Virus Index™

Take control with Steira Air Business and Stay On Top Of Safety

Take your first step to a healthier, safer and more productive workplace.

Partner with us and future-proof your business.
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Technical Specifications

☰ General

Installation:	Wall-mounted / Table-top
Operating Temperature:	-10°C to 60°C (14°F to 140°F)
Operating Humidity:	0% to 95% non-condensing
Built-in Fan:	Yes
OTA Firmware Update:	Yes
Accessories:	5V/2A USB Adapter (Region-specific), 2m USB Data Cable, Mounting Tape, Tapping Screws, Wall Plugs, Air Health and Virus Index Sticker

🔍 Design

Dimensions (W x L x D):	200mm x 180mm x 57mm or 7.8in x 7.1in x 2.2in
Weight:	765g or 1.7lbs
Material:	ABS Plastic
Mechanical Protection:	IP43 Ratings with Dust-filtering Mesh
Light Indicators:	SIM, Wi-Fi, Battery
Screen Display:	No
Main Power Source:	5V/2A USB Adapter, PoE via a PoE to USB adapter
Backup Power Source:	3250mAh @ 3.6V Lithium-ion Battery
Power Consumption:	900 mW (Normal Operation) and 1.1 W (Data Transmission)

📄 Data

Frequency:	Once per Minute
Backup:	Up to 15 minutes during network outage. Permanent on Cloud.
Format:	Minute-by-minute or Hourly-average
APIs:	Yes. Polling only.

User Interface

Steira Air Account	Contact info@steiraair.com for account registration
Web Dashboard:	(supports all major browsers)
Mobile App:	Steira Air Business
Minimum OS Requirement:	iOS 11 (64-bit Devices) and above, or Android 5.0 and above

Certifications

Radio:	FCC, IC, CE, TELEC, NTC
Safety:	FCC, IC, CE, PSE
Battery:	UN38.3, UL 62368, CB (IEC 62133-2017), PSE
Environmental:	RoHS, REACH, WEEE, Free of SCCP and HBCDD Contents, Green Building Product (SGBC)
Performance:	MCERTS, RESET Air Accredited Grade B monitor, RESET Accredited Data Provider, WiredScore Accredited Solution

Connectivity *Choose your connectivity protocol from the following options**

1. Cellular

Standard:	LTE-M or NB-IoT
Frequency Bands:	1/2/3/4/5/8/12/13/18/19/20/26/28 (Multi-regional. 1 and 26 are Roaming Bands)
SIM Card:	Micro-SIM supporting LTE-M or NB-IoT connectivity. Contact your Local Telecommunication Service Provider for Network Coverage.

2. Wi-Fi (Setup using mobile app)

Standard:	802.11 a/b/g/n @ 2.4GHz and 5GHz (20MHz Channels Only)
Security:	Open, WEP, WPA/WPA2-Personal
IP Addressing:	IPv4 + DHCP

There is only one connectivity protocol used by each device. Be sure to select your preferred option when ordering to ensure it is compatible with your setup.

☐☐ Sensor Modules

Steira Air Base Device Measures the Following:

Temperature, Relative Humidity, Air Pressure, Light, Sound, PM1, PM2.5, PM4, PM10, TVOC, Carbon Monoxide (CO), Carbon Dioxide (CO₂), Formaldehyde (HCHO) and Virus Index™














In addition to the 13 sensors of the CAM Commercial base device, you can customize it to measure more parameters by choosing one of the options below

Module A	a. Nitrogen Dioxide (NO ₂) and Ozone (O ₃)
	b. Nitrogen Dioxide (NO ₂)
	c. Sulfur Dioxide (SO ₂)
	d. Hydrogen Sulfide (H ₂ S)
	e. Ammonia (NH ₃)
	f. Oxygen (O ₂)

Built to order and the lead time depends on which sensor is preferred.

Module B	Temperature, Relative Humidity, Carbon Dioxide (CO ₂), TVOC, Air Pressure
Module C	PM1, PM2.5, PM4, PM10

☞ Sensor Specifications

Sensors	Range	Resolution	Accuracy
 Temperature	-40 to 85 °C	0.1 °C	± 0.5°C
 Relative Humidity	0 to 100 %	0.1 %	± 3%
 Air Pressure	300 to 1,100 hPa	0.1 hPa	± 1 hPa
 Light	0 to 40,000 lux	1 lux	± 20 lux or ± 5% of actual value, whichever is higher.
 Noise Index	Tier 1 through 5	-	-
 PM1	0 to 1000 µg/m ³	1 µg/m ³	± 10 µg/m ³ (0 to 100 µg/m ³) ± 10% (100 to 1000 µg/ m ³)
 PM2.5	0 to 1000 µg/m ³	1 µg/m ³	± 10 µg/m ³ (0 to 100 µg/m ³) ± 10% (100 to 1000 µg/ m ³)
 PM4	0 to 1000 µg/m ³	1 µg/m ³	± 25 µg/m ³ (0 to 100 µg/m ³) ± 25% (100 to 1000 µg/ m ³)
 PM10	0 to 1000 µg/m ³	1 µg/m ³	± 25 µg/m ³ (0 to 100 µg/m ³) ± 25% (100 to 1000 µg/ m ³)
 TVOC	0 to 60,000 ppb	1 ppb	± 15%
 Carbon Dioxide	400 to 10,000 ppm	1 ppm	± 30 ppm plus 3% of actual value
 Carbon Monoxide	0 to 1,000 ppm	0.1 ppm	± 2 ppm
 Formaldehyde	0 to 2,000 ppb	1 ppb	± 30 ppb (0 to 300 ppb) ± 10% (300 to 2000 ppb)