



uHoo Aura

Technical Specifications

Wall-mounted or Table Top Environmental Quality Monitor



uHoo Aura

The Most Comprehensive Environmental Quality Monitor



Temperature



Relative Humidity



Air Pressure



Light



Noise Index



PM₁



PM_{2.5}



PM₄



PM₁₀



TVOCs



Carbon Dioxide



Carbon Monoxide



Formaldehyde



Virus Index™



Mold Index

Take control with uHoo Business and #StayOnTopOfSafety

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

Partner with us and future-proof your business.

Learn more and send a message to business@getuhoo.com



uHoo Aura

Technical Specifications

General

Installation:	Wall-mounted / Table-top / Ceiling-mounted
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:	800 mW

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

uHoo Account:	Contact business@getuhoo.com for account registration
Web Dashboard:	https://web.getuhoo.com (supports all major browsers)
Mobile App:	uHoo 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, HBCDD Contents, Green Building Product (SGBC), Works with WELL and GRESB
Performance:	Complies with WELL Certification Performance Verification Guidebook requirements, 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

uHoo Aura Base Device Measures the Following:

Temperature, Relative Humidity, Air Pressure, Light, Noise Index, PM₁, PM_{2.5}, PM₄, PM₁₀, TVOCs, Carbon Monoxide (CO), Carbon Dioxide (CO₂), Formaldehyde (HCHO), Virus Index™ and Mold Index.

In addition to the 13 sensors of the uHoo Aura base device, you can customize it to measure more parameters by choosing up to three more sensors for Module A from the list below.

Module A <i>(Built to order and the lead time depends on which sensor combination is preferred.)</i>	a. Nitrogen Dioxide (NO ₂) b. Ozone (O ₃) c. Sulfur Dioxide (SO ₂) d. Hydrogen Sulfide (H ₂ S) e. Ammonia (NH ₃) f. Carbon Monoxide (CO)
Module B	Temperature, Relative Humidity, Carbon Dioxide (CO ₂), TVOCs, Air Pressure
Module C	PM ₁ , PM _{2.5} , PM ₄ , PM ₁₀

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	-	-
	PM ₁	0 to 1,000 µg/m ³	1 µg/m ³	±5 µg/m ³ (0 to 50 µg/m ³) ±10% (50 to 1,000 µg/m ³)
	PM _{2.5}	0 to 1,000 µg/m ³	1 µg/m ³	±5 µg/m ³ (0 to 50 µg/m ³) ±10% (50 to 1,000 µg/m ³)
	PM ₄	0 to 1,000 µg/m ³	1 µg/m ³	±5 µg/m ³ (0 to 50 µg/m ³) ±10% (50 to 1,000 µg/m ³)
	PM ₁₀	0 to 1,000 µg/m ³	1 µg/m ³	±5 µg/m ³ (0 to 50 µg/m ³) ±10% (50 to 1,000 µg/m ³)
	TVOCs	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	±1 ppm (0 to 20 ppm) ±5% (20 to 1,000 ppm)
	Formaldehyde	0 to 2,000 ppb	1 ppb	±30 ppb (0 to 300 ppb) ±10% (300 to 2,000 ppb)

	Sensors	Range	Resolution	Accuracy
	Nitrogen Dioxide	0 to 5,000 ppb	1 ppb	±20 ppb (0 to 100 ppb) ±20% (100 to 5,000 ppb)
	Ozone	0 to 5,000 ppb	1 ppb	±10 ppb (0 to 100 ppb) ±10% (100 to 5,000 ppb)
	Ammonia	0 to 20 ppm	0.1 ppm	±0.5 ppm (0 to 5 ppm) ±10% (5 to 20 ppm)
	Sulfur Dioxide	0 to 25 ppm	0.1 ppm	±1 ppm (0 to 10 ppm) ±10% (10 to 25 ppm)
	Hydrogen Sulfide	0 to 100 ppm	0.1 ppm	±1 ppm (0 to 10 ppm) ±10% (10 to 50 ppm)