Partnering Robotics

DIYA ONE

Anti-pollution robot

Tech Specs - Sensors and filtration system

Temperature	**Measurement range:** from -40°c to 80°c Accuracy: ± 0.5°c Data update: every 3 seconds
Relative Humidity	**Measurement range:** from 5% to 99% relative humidity Accuracy: ± 2% RH Data update: every 3 seconds
CO_2 (confinement ratio)	**Measurement range:** from 0 to 5,000 ppm **Accuracy:** ± 50 ppm + 3% compared to the collected data (at 25°c and 1 bar air pressure) Data update: every 15 seconds Available confinement alert.
VOCs (confinement ratio)	**Detection range:** from 0.45 to 2 ppm **Data update:** every 11 seconds **Detected pollutants:** carbon monoxide (CO), methane(CH_4), formaldehyde (CH_2O), Benzene (C_6H_6), aliphatic and aromatic hydrocarbons, amino, Ketone,Organic acids…
Particulate matter	**Detection range:** from 0 to 300 µg/m³ Data update: every 5 seconds Size detected: 1 µm up to 7 µm Available particulate matter alert.
Ozone	**Detection range:** from 10 to 1,000 ppb Continuous measurement process Available ozone peak alert.
Filters	Large range of filters available; developed in collaboration with Camfil,world leader on the air purification market. Efficacity scientifically proven, even at low speed airflow.

Filters	Effective on
G4 + F7	PM
G4/CA + F9	PM+VOCs
H13	PM
E11 + CA	PM+VOCs
H13+CA	PM+VOCs
H13+	99.95% of all air pollutants

Best Air Technology

Partnering Robotics

DIYA ONE
Anti-pollution robot

Tech Specs - DIYA ONE

Dimensions	105cm height, 50cm diameter
Weight	35kg
Operating Temperatures	10 to 35 °C
Operating Relative Humidity	50% RH ± 25% RH
Power & Battery	Lithium-Ion 24V battery: > 750Wh Charge on 220V – 50/60Hz – 7A
Autonomy	Up to 10 hours on normal use
Moving speed	From 0.5 to 1 km/h
Big Data & Cloud	Collected data are uploaded and saved on a secured cloud. Access online, on the robot's display & on Diya Board.
Wi-Fi	Wi-Fi 802.11a/g/n
Data Storage	Built-in flash memory to store data prior to transfer on the server
Display	8 inch (diagonal) Multi-Touch display – 1024x768 pixels
Camera	- 1 Panoramic camera dedicated to navigation - 1 Frontal camera dedicated to interactions functions
Audio	2 Stereo Speakers and 1 Microphone
Obstacle avoidance	Embedded ultrasound and infrared sensors
LEDs	LED RGB system providing a large set of colors for interactions
IEQ sensors	Temperature, Relative Humidity, CO_2, VOCs, Fine particles, Ozone
Air purification system	2 modes: - Continuous purification mode - Detection mode

Partnering Robotics

DIYA ONE

le robot anti-pollution

Tech Specs - DIYA DOCK

Dimensions (in mm)	1,036 (height) x 600 (length) x 477 (width) Surface area: 0.4m²
Weight	13 kg
Power Supply	220V / 50-60Hz
Connectivity	With the robot: Wi-Fi and infrared To internet: ethernet plug
Big Data & Cloud	Incoming data from the robot are transmitted to Diya Dock prior to their upload on a secured cloud.
Data storage	Data are collected on the built-in flash memory prior to their transfer to the cloud.
Security	Safe charge system (constant temperature and voltage monitoring)
Built-in Sensors	Temperature, Relative Humidity, CO_2, VOCs, fine particles, ozone