



# FRESH Air Disinfection Robot

## Epidemic protection product in public area

# Air Guard For You

**UVC + Negative ion + photocatalyst Disinfection**

**six purification modules**

**to maintain public safety**



### Human-Machine coexistence

safe design for normal use in a human environment.



### Smart work

smart disinfection, autonomous navigation, autonomous route planning.



### Broad spectrum and high efficiency

high efficiency in killing and disinfection. Bacteria killing rate reaches 99.99%; it is equally effective for formaldehyde, toluene.



### Multifold purification

the ultraviolet light, photocatalyst, negative ion, HEPA filter mesh, honeycomb ceramic filter element constitute a 6-fold purification



### Real-time monitoring

It detects the harmful gases such as TVOC/ formaldehyde in the air, and accelerates the work by the auto mode

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# FRESH Air Disinfection Robot Parameter Table

Basic information of product	Product name	Air disinfection robot	Power supply	Battery	Lithium iron phosphate battery
	Color	White		Battery capacity	2V/ 40Ah
	Material	ABS + sheet metal		Charging time	=2H
	Rated voltage	220V/50/60HZ		Service life	80% retention after 300 cycles
	Rated power	135W		Maximum charging voltage	29.4V
Air sterilization and purification configuration information	Primary filter purification	Yes	Driving wheel	Battery life (no load)	3H- 4H
	PM 2.5 purification	Yes		Size (wheel diameter* width mm)	160*45
	Formaldehyde purification	Yes		Material	Styrene-butadiene rubber (SBR)
	Negative ion purification	Yes		Power	200W
	UV sterilization purification	Yes		Max speed	180r/min
Working mode and functions of product	Air speed gear	1. 2. 3 gears adjustable	Performance	Max torque	4.7NM
	Smart mode	Yes		Max load	50KG
	OLED screen display	Yes		Max operating speed	1.5M/s
	Consumables replacement reminder	Yes		Navigation accuracy	± 30mm
	TVOC real-time monitoring display	Yes	Safety protection	Direction	360° rotation
	Timer mode	Yes		Emergency stop button	Emergency stop
	Sleep mode	Yes		Ultrasonic	Located at the front and rear of the casing, 6 in total
	Child lock mode	Yes		Indicator lamp	Operating status indication
	APP remote control function	Yes		Voice broadcast	Broadcast of car status
Product performance parameters	Product size	560*560*1276	Navigation	Body induction	Thermal infrared human sensor (optional)
	Net/gross weight of product	50kg		Remote start/stop	Configured with a remote control module for remote start and stop
	Operating maximum noise (DB)	= 60DB		Navigation mode	SLAM navigation
	Cumulative amount of purification of particulate matters CCM	P4		Route planning	Automatic planning/ manually assigned route planning
	UV lamp power/W	108W	Communication	Navigation sensor	TOF LiDAR (20m)
	UV lamp size	2958*μ15*Ushape		Wireless network	2.4G/5G WiFi
	UV lamp wavelength	253.7nm		Debug port	Ethernet RJ45
	UV illumination	100uW/cm²		USB	USB2.0
	UV leakage	<1	Environment	Ambient temperature	0°C 45°C
	Applicable area	20-50M²		Ambient humidity	Relative humidity 5~95% (frost free)

	Formaldehyde removal rate	90%	Floor conditions	Protection rating	IP20
	Staphylococcus albus removal rate	99.94%		Floor anti-slip coefficient	≥0.5
	Bacillus subtilis	99.91%		Floor requirements	Horizontal concrete floor (free from water, oil, dust)
	Removal rate of indigenous flora in the air	95.61%		Vertical obstacle crossing capability	5mm
				Gully crossing capability	10mm
				Maximum permissible	5°