



HONEYWELL INDOOR AIR DETECTOR

Honeywell
THE POWER OF **CONNECTED**

Honeywell Air Detector – Detecting “bad air” anytime

空气侦探

PN	Description	Temperature	Humidity	PM2.5	HCHO	TVOC	CO2	IQ%	clock	APP (wi-fi)
HAQSPF	4-in-1	Y	Y	Y	Y				Y	Y
HAQSPA	High-end	Y	Y	Y	Y	Y	Y	Y	Y	Y

TVOC

Total Volatile Organic Compounds

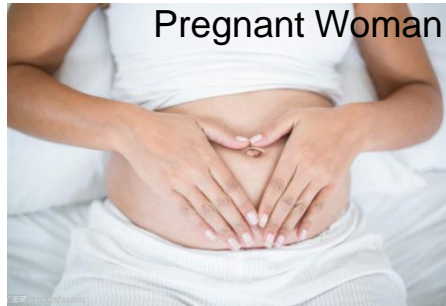
HCHO

Formaldehyde

IQ%

Advanced cognitive function is directly impacted by CO2 and TVOC levels in ambient air. IAQ showing what percentage of a person’s IQ is available in a given work/study environment .

Application And Target User



Good Design Small Size



Aluminium Alloy



Small Size

Volume : 80×80×22(mm)

Weight: 150g/156g

Special Design

Round Screen- Square shape

Convenient
Interaction

OLED touch display

Won the IF design
award in 2018.

Indicator light shows the air quality



Item	Green	Orange	Red
PM2.5	0-79 ug/m3	80-199 ug/m3	200 ug/m3 and above
HCHO	< 0.08ppm	—	> 0.08ppm
Temperature	-10°C--40°C	—	—
Humidity	0%-100%	—	—
TVOC	<0.38ppm	—	>0.38ppm
CO2	<750ppm	—	>750ppm
IQ%	>60%	—	<60%

Special Design



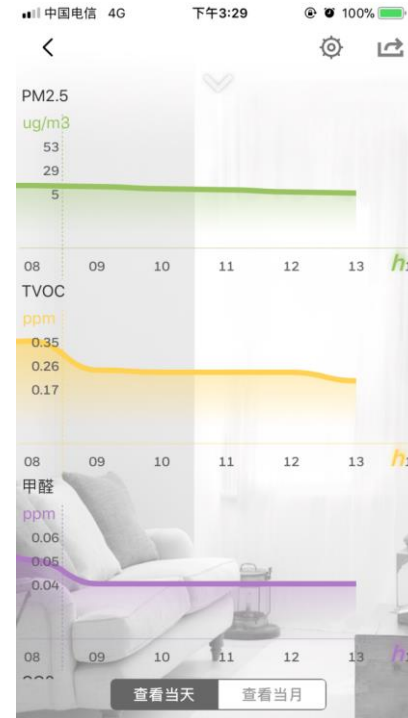
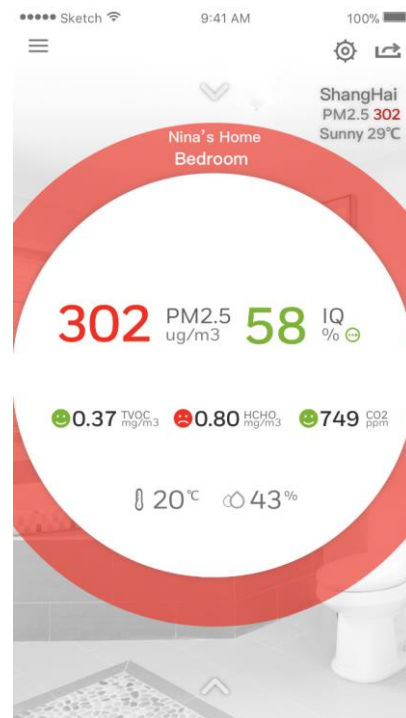
Independent sensors inside, monitoring air quality accurately



Multiple ducts make sure the air inside device is similar to outside environment

App--more smarter, more convenient

- View the real-time data
- View the trend of air quality (1day and 1month)
- Custom settings –device interface、 alarm clock、 Mode、 Alarm threshold
- Check the IQ% phase



App--more smarter, more convenient



Icons show the air quality



PM2.5	HCHO	TVOC	CO2	IQ%
0-79 ug/m3	<0.08ppm	<0.38ppm	<750ppm	>60%
80-199 ug/m3	—	—	—	—
>200 ug/m3	>0.08ppm	>0.38ppm	>750ppm	<60%

Note: Air quality of PM2.5 and IQ% are showed through the change of font color accordingly
The ring show the comprehensive air quality .

IQ%

“Bad Air” not only cause physical disease ,but also affect cognitive function. IAQ showing what percentage of a person's IQ is available in a given work/study environment.

Target Customer ;student ,writer ,engineer

Domains ↕	Definitions ↕
1) Basic Activity Level ↕	Overall activity ↕
2) Applied Activity Level ↕	Activity directed towards overarching goals ↕
3) Focused Activity Level ↕	Activity directed towards task at hand ↕
4) Task Orientation ↕	Focus on concurrent task demands ↕
5) Crisis Response ↕	Critical thinking under crisis ↕
6) Information Seeking ↕	Openness to, and search for, information ↕
7) Information Usage ↕	Ability to utilize information effectively ↕
8) Breadth of approach ↕	Multi-dimensional thinking ↕
9) Strategy ↕	Optimally prioritized and sequenced plans and actions ↕



Long battery life



2600mAh lithium battery inside
Battery Life: normal mode-15h, energy-saving mode -40h



Range and Precision

Description	Detection Range	Precision/Resolution
PM2.5	100 – 999ug/m ³	±15%
	<100ug/m ³	±15ug/m ³
Temperature	-10°C – 40°C	±1°C
Humidity	0% – 100%	±5%
HCHO (Formaldehyde)	0 – 2ppm	0.01ppm(resolution)
TVOC	0.12 – 0.99ppm	0.01ppm(resolution)
CO2	400 – 2000ppm	5%±50ppm
IQ%	0 – 100%	1%(resolution)

