

# Reference Only 參考資訊 (AQI - Air Quality Index 空氣質量指數)

Units: microgram/cubic meter  
單位: 微克/立方米

AQI <sup>1</sup>	中國 <sup>2</sup> PM2.5	美國 <sup>3</sup> PM2.5	Health Advisory 建議採取的措施
0-50	0~35 優 Excellent	0~12 Good	Air quality is good. No action is required. 空氣質量良好, 建議可如常活動
51-100	36~75 良 Good	13~35 Moderate	Air quality is acceptable. No action is required. Unusually sensitive should careful. 空氣質量尚可, 建議可如常活動, 對空氣較敏感人士宜小心
101-150	76~115 輕度污染 Slightly	36~55 Unhealthy for Sensitive	Unusually sensitive people should consider reducing prolonged / heavy exertion. 心臟病或呼吸系統疾病患者的人士應考慮減少戶外體力消耗
151-200	116~150 中度污染 Moderately	56~150 Unhealthy	People with heart / lung disease, elderly and children should reduce prolonged / heavy exertion. 心臟病或呼吸系統疾病患者, 兒童及 長者減少長時間停留或大量體力消耗
201-300	151~250 重度污染 Heavily	151~250 Very Unhealthy	People with heart / lung disease, elderly and children should avoid prolonged / heavy exertion. Everyone should reduce prolonged / heavy exertion. 患有心臟或肺部疾病, 老年人和兒童應 避免長期或大量體力消耗。每個人都應該減少長期或大量體力消耗
301-500	>250 嚴重污染 Serious	>250 Hazardous	People with heart / lung disease, elderly & children should avoid all physical activity outdoors. Everyone should avoid prolonged / heavy exertion. 患有心臟或肺部疾病, 老年人和兒童應避免所有的體力 室外活動。每個人都應該避免長期或大量體力消耗

Source 來源: 1, 2 China Ministry of Environmental Protection 中國環境保護部《環境空氣品質標準》1, 3 USA EPA 美國: www.cpub.epa.gov

Specifications 產品參數	
Dimension 尺寸	73x20x73 mm
Weight 重量	0.12 kg
Input 輸入電壓	5 V
Capacity 電池容量	1500 mAh
Power 功率	0.5 W
Current 充電電流	0.5 A
Parameters 監測參數	
PM2.5 Detection range 檢測範圍	0-999.9 µg / m <sup>3</sup>
PM2.5 Concentration Range 解析度	0.1 µg / m <sup>3</sup>
PM10 Detection range 檢測範圍	0-999.9 µg / m <sup>3</sup>
PM10 Concentration Range 解析度	0.1 µg / m <sup>3</sup>
Min. detection particle size 檢測最小直徑	0.3 µm
Operating Temperature 工作環境	5 - 45°C
Storage Temperature 儲藏環境	-20 - 45°C

\* Note: Of placing the instrument in inappropriate environment which is out of detection range (eg, putting cigarette smoke near air inlet); it will cause measurement error or fault. \* 注: 若長時間將儀器置於超過測量範圍的環境中(如將香煙長時間置於儀器進風口), 此時可能導致測量錯誤。  
\* Inaccuracy 誤差: ±10%  
\* One year of free warranty excluding consumable items & freight (一年免費保養服務(消耗品及運費除外))  
\* This product is not sophisticated detection equipment. The results are for reference only, not as a third party in accordance with the law / controversy. 本產品不屬於精密檢測儀器, 其結果僅供參考, 不可作為第三方法律或爭議依據。



## 空氣質量小專家 Your Portable Air Quality Monitor AM-01

- Real-time monitor 即時監測, 每秒自動刷新資料
- Multi-function: PM2.5, PM10 & particle curve 一機多用: PM2.5 及 PM10, 濃度曲線
- Numerical LCD, simple & easy to understand 數值化液晶顯示, 簡單易明
- Illustrate Real-time particle curve 電腦軟件即時繪製 PM2.5 的動態曲線



Color 顏色: White 白色 / Black 黑色

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visible air quality • continue monitoring  
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- All information should be referring to real products. 一切以實物為準  
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- 隨時隨地檢測您呼吸的空氣 ▪ 看得見空氣質量 -



It can't promise fresh air in everywhere.  
Could you evaluate our current place  
which is based on government published information?  
Is it possible to leave the polluted place, isn't it?  
What can we do to compare the ability of air purifiers?  
Don't miss the opportunity to know the solution!

It is possible to be a BEST solution.  
MEDAIR AM-01 is personal portable air quality tester.

怎能保證新鮮空氣無處不在？  
怎樣評估我們身處地方的空氣質素？  
是否可以遠離空氣污染的地方？  
怎樣比較空氣淨化器的能力嗎？

MEDAIR AM-01 可能是最好的

空氣質量小專家

Your Portable  
Air Quality Monitor  
AM-01



享受新鮮空氣  
Breathe the fresh air

## Learn more PM2.5 & PM10 認識 PM2.5 & PM10

Atmospheric particulate matter (particulates / PM) refers to the tiny particulate / air mixture. Sources of particulate matter can be human made or natural. Types include suspended particulate matter (SPM), respirable suspended particle (RSP; diameter of 10 micrometres or less), fine particles (diameter of 2.5 micrometres or less). Particulate matter affect human health, climate and precipitation. **PM2.5 and PM10 has been recognized as one of the most harmful air pollutant for human health today.** PM (顆粒物) 是指空氣中非常細小的固態與液態微粒的混合物或懸浮物質，以灰塵、煙、霧滴等型態存在。PM 的來源眾多，如來自自然界如森林火災、風侵蝕等及人為因素包括建築、工業、汽車排放及燃燒物件等所引起。這些懸浮粒子可以對人體健康有嚴重的影響，甚至改變氣候和降雨。微粒中為直徑 10 微米或以下的懸浮粒子為 PM10 及直徑 2.5 微米或以下的可吸入懸浮粒子為 PM2.5。PM2.5 已被確認為當今危害人類健康的源頭之一。

## Threat to health 對健康的危害

PM2.5 & PM10 is respirable and involves harmful gases, heavy metals dissolve in the blood. It will directly into the bronchus, causing including asthma, bronchitis and cardiovascular disease, etc, even lung cancer. PM2.5 及 PM10 被吸入人體後會直接進入支氣管，干擾肺部的氣體交換，引發包括哮喘、支氣管炎和心血管病等各方面的疾病。這些顆粒還可以通過支氣管和肺泡進入血液，其中的有害氣體、重金屬等溶解在血液中，對人體健康的傷害更大。PM2.5 顆粒不僅容易引發心血管和呼吸系統疾病，還增加了所有人患肺癌的機會！

## What can AM-01 do for you? MEDAIR AM-01 為您提供最貼身又看得見的空氣質量

Government and organization publish Air Quality Health Index / Air Quality Index regularly. These indexes focus on macro air quality in appointed monitor in specific period. Unlike AQHI, AM-01 focuses on air quality in personal environment such as home, office, car and public area. MEDAIR AM-01 is a small, portable and easy to carry air quality monitor. It breaks down area and time limitations. In instance, many factors affect air quality including smoking, grease and bad odor, etc. According to visible data, user could take a respond as fast as possible to protect health and assure we could breathe fresh air. 雖然政府及團體定期發放空氣質素的數據，但這是針對室外環境。MEDAIR AM-01 則是著重於個人環境中的當前空氣質量，如二手煙、油煙及其他因素等對家居、辦公室、車廂及公眾場所的影響，用戶可參考檢測儀所提供的數據來及時改善所在環境或作出相應的措施，保障健康及呼吸潔淨的空氣。

## How does AM-01 work? 檢測原理

AM-01 is measured particles using scattering laser light. A bunch of specific laser is produced by a dedicated laser module. When the particulate matter through, the signal will be more sensitive of digital electronics modules detected by the signal wisdom recognition analysis data were obtained particle count and particle size, particle size distribution obtained conversion formula based on the concentration and quality of professional calibration technique, ultimately to give a concentration of PM2.5. AM-01 採用專用的激光模塊產生一束特定的激光，當顆粒物經過時，其信號會被超高靈敏的數位電路模組檢測到，通過對信號資料進行智慧識別分析得到顆粒數量和顆粒大小，根據專業的校準技術取得粒徑分佈與微粒濃度轉換公式，最終得到 PM2.5 的濃度。

## Suggested applications 建議應用範圍

- Do whatever you want - apply to indoor & outdoor including home, office, shopping mall, public area and inside the car, etc  
隨時隨地隨心 - 可用於室內及室外，如家居、辦公室、商場、公眾場所及汽車內等
- Evaluate filtration ability of air purifier  
評估空氣淨化器的過濾效能



家居  
Home



Evaluate air purifier  
評估空氣淨化器



旅行必備  
Travel with AM-01