

# ATI-2I气溶胶数字光度计



2i Base Display



## ATI-2I 气溶胶数字光度计特点说明

### ATI-2I Digital Aerosol Photometer

The most advanced, innovative and user friendly digital aerosol photometer available today, the ATI 2i is portable, yet rugged, and the ideal instrument for in-situ filtration system integrity testing. Utilizing the iProbe provides full functionality away from the base unit, minimizing downtime and maximizing efforts in the field.

最新款 ATI-2I 气溶胶光度计是现在最先进的，创新的，用户界面友善的便携式气溶胶数字光度计。ATI 2i 是轻便的，理想的用于现场高效过滤器系统的完整性检测仪器。新型的 2i 的扫描探头可以提供主机的全部操作功能。

## Innovative User Interface

The 2i base instrument's 4.3" Liquid Crystal Display gives life to the easy to use, menu driven interface. Aerosol measurements and pump sampling rates are prominently displayed for easy viewing. System parameters and selections such as alarm types, alarm set points and aerosol reagent are shown on the lower menu bar, while icons at the top of the screen give the status of connected peripherals, reporting functions, and aerosol noise suppression selections.

**创新的用户界面**——2i 主机采用 4.3 英寸的 LCD 显示，用主题驱动型界面，容易使用。气溶胶的测量，真空泵的取样速度在 LCD 上都有明确的显示，很容易看到；对于选择的报警类型，报警点，选择的气溶胶原液，在 LCD 下面的菜单上都有指示；在 LCD 顶部是显示连接状态、报警类型和报告类型及减噪等信息

### iProbe

The iProbe acts as an extension of the base instrument through a nearly identical user interface. All status and selection icons from the base unit are represented on the iProbe. With the press of a button, the sampling location can be remotely selected and switched by way of an electronically controlled valving system.

**iProbe 扫描探头**——扫描头 iprobe 通过电路连接来作为一个主机的延伸，所有主机的操控状态，选择图标都在 iprobe 上有显示。甚至通过按键编辑测试位置都可以在 iprobe 上实现。

### Data Reporting

Three unique report functions are now available with the 2i through the USB or optional thermal printer interface.

Continuous mode offers the same output as ATI's legacy photometers to ensure backward compatibility.

Monitoring mode provides the ability to collect data at user defined intervals for long term sampling. Summary mode, which gives discrete reporting capability for individual filter locations, can output to the thermal printer to meet customer documentation requirements.

**数据报告**——2i 有三个独立的报告功能，Continuous连续模式提供与以前ATI光度计相同地输出以确保能向后兼容；Monitoring模式由用户设定的时间间隔下长时间的取样；Summary模式将给出实际的报告，包括过滤器位置等内容可通过热敏打印机输出以便客户保存。

### Performance Guaranteed

To ensure consistent results in all applications and altitudes, the sampling flow rate is constantly monitored and controlled via a pulse width modulated pump.

The 2i has been independently tested and qualified to ensure compliance with all applicable electrical and safety requirements.

**性能保证**——为确保在在不同海拔不同区域的应用能得到一致性的结果，取样流速用高精度的脉冲幅度模块来控制泵；2i 已被独立的测试和验证，以符合电子和安全标准要求。  
技术参数

## Specification

### 规格参数

**SIZE:** 10.1" W × 13.0" D × 6.0" H (25.7 cm × 33.0 cm × 15.2 cm)

尺寸:25.7 cm x 33cm x 15.2 cm

**WEIGHT:** Base unit – 19.0lbs (8.6Kg), Ensemble - 48lbs (21.8Kg)

重量:7.5 kg （主机）+ 1.1 kg （扫描探状和配件）= 8.6 kg；

### POWER:

Voltage: 100 to 250 Volts AC, 50/60Hz automatic adjustment

Consumption: 0.5 amps @ 120V, 0.25 amps @ 240V

100-250V交流，50/60HZ。自动的调整到世界上所有的现用的标准电压

**AUTO ZERO:** Automatically establishes zero reading at startup

自动归零:自动建立零位

**ALARM:** User selectable audible, visual, and vibratory alarms notify the user when the user defined set point is exceeded.

报警:当设定的点被超过时，开始声音报警。可见的报警显示在面板和扫描头的上闪烁；

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**FLOW CONTROL:** Pulse Width Modulation (PWM) control ensures sampling rate of 1 cfm (28.3lpm) +/- 10% in all applications.

流量控制：用PWM(脉冲幅度控制模块) 确认在任何应用中取样流速为28.3+/-10%

**REAGENT SETTINGS:** PAO-4, DOP, Ondina, PEG, Krydol, Corn Oil, Mineral Oil, Paraffin  
可设定气溶胶原液：PAO—4，DOP，Ondina,PEG,Krydol,Corn Oil,Mineral Oil,Paraffin

**DYNAMIC RANGE:** Up to 600 micrograms per liter  
动态范围:高达600ug/L

**SENSITIVITY:** 1% of readings 0.01% to 100%  
灵敏度：在大于或等于0.01%到100%范围内读数的1%

**REPEATABILITY:** 0.5% of readings 0.01% to 100%  
重复性:在大于或等于0.01%到100%范围内读数的 0.5%

**LIGHT SOURCE:** Solid State, rated for life of instrument  
光源：长寿命的，稳定的，固体的光散射型腔体光源。

**OUTPUT:** USB Connection  
输出：USB连接

**REPORTING:** Continuous, Summary, and Monitoring modes  
报告：Continuous（连续模式）,Summary（小结模式）, and Monitoring modes（监控模式）;

**PRINTER ACCESSORY:** Thermal Printer for hard copy of Summary Report  
打印机（选购）：热敏打印机用于小结报告

**STANDARDS COMPLIANCE:**  
Industry: NSF 49, IEST, ISO-14644  
符合标准：NSF 49, IEST, ISO-14644

**Elec. & Safety:** CE, FCC, EN61010-1:2010, EN61326-1:2006  
电气类安全：CE, FCC, EN61010-1:2010, EN61326-1:2006