

2i Aerosol Photometer



The 2i is the ideal portable, yet rugged instrument for in-situ filtration system

testing. With the NEW iProbe **Plus**, it provides secure data storage, reporting, and traceability in the palm of your hand.



Applications

- Pharmaceutical manufacturing
- Medical facilities and cleanrooms
- Biosafety cabinets and fume hoods
- Nuclear facilities

Options

- iProbe or iProbe **Plus** with 12-ft cable
- The 2i-N model, with sealed sample train, is compatible with ASME N511, ASME 510, ASME 509, and ASME AG-1

Key Features and Benefits

- Supports 21 CFR Part 11 requirements (iProbe **Plus**)
- Enhances data integrity, quality control, and security (iProbe **Plus**)
- Large, 4.3-inch color touchscreen (iProbe **Plus**)
- Better accuracy, precision, and quality control with enhanced calibration and verification
- Lightweight, portable, and rugged aerosol photometer
- Improves efficiency and safety with upstream/downstream/clear valve controls from the probe (patented)



SCANNING PROBES: IPROBE OR IPROBE PLUS

The iProbe or iProbe **Plus** allows the user to control the 2i from the scanning probe.

Quality Control, Traceability, and Security

The iProbe **Plus** creates a unique record of each filter scanned. Each record includes key identifiers (IDs) and important scan data for quality control and traceability.

Scan Traceability IDs Additional Data for Each Scan

- | | |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Job • Room • Filter • Technician | <ul style="list-style-type: none"> • Max % leakage • Effective scan time • Every alarm instance recorded • Pass/fail recorded for each scan |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
- **Supports 21 CFR Part 11 compliance** through encryption, password protection, and data protection.
 - Offers optional **password protection** and **encryption** of the test data.
 - **Reporting:** Can save approx. 150,000 scans. Each saved leak scan is in a **.CSV** and **.PDF** file format for easy analysis.

Efficiencies, Ease of Use, and Safety

Upstream/Downstream/Clear Controls:

The iProbe **Plus** allows the user to actuate the upstream/downstream/clear valves through the touchscreen (patented feature). This improves efficiency and safety by eliminating the need to actuate the valves through the 2i base unit.

Additional User Conveniences:

- All firmware updates are installed via USB-A memory stick
- Unique 10-second “rewind” button allows the exclusion of accidental alarm events (patent pending)
- Ergonomic handle with finger grooves and thumb rest
- Important information displayed on screen, such as Max % Leakage; Filter ID; Elapsed Scan Time



FEATURE	iProbe Plus	iProbe
Supports 21 CFR Part 11 compliance	✓	
Unique record of each filter scan (scan IDs and data)	✓	
Secure, onboard data storage and reporting	✓	
Password protection and data encryption	✓	
Data removal and firmware updates via USB	✓	
Large, 4.3-inch color touchscreen	✓	
Upstream/Downstream/Clear controls	✓	✓
Visual, audible, and vibratory alarms	✓	✓



Ergonomic Handle (iProbe Plus)



Scan the QR code for more details on the iProbe **Plus**



ENHANCED CALIBRATION AND PERFORMANCE VERIFICATION

Photometers help protect human health. How you calibrate them matters.

ATI's new CALIBRA™ system provides significant advances in 2i calibration, and a new multi-point aerosol linearity verification testing capability (patent pending).

Better Performance and Consistency

Precision = More Consistent Measurement

Photometers are calibrated with an aerosol source. ATI's new CALIBRA™ 800 Precision Aerosol Source achieves a more stable aerosol concentration and particle size distribution over time, resulting in improved photometer consistency.

Accuracy = the Right Measurement

Photometers are calibrated against a gravimetric reference standard. The new ATI CALIBRA™ System enables a more accurate gravimetric measurement through automated control of the process and stringent methodology.



Low Precision,
Low Accuracy



High Precision,
High Accuracy

Better Quality Control and Reduced Risk

ATI's **Linearity Verification Testing (LVT)** service measures the instrument's photometric and electronic response throughout its operating range. Together these tests provide a complete linearity verification that reduces quality risks, with documentation that strengthens your Quality Assurance program.



Aerosol LVT:

Tests the linearity of the complete photometric response, including optics and flow, by measuring a controlled aerosol concentration at multiple levels from 0.6 to 100 mg/m³.

COMPLETE SOLUTION:
ATI's Linearity Verification Testing



Electronic LVT:

Tests the linearity of the photometer's electronic system only, with an electrical signal input at multiple levels from 0.0001 to 100 mg/m³.

Trust in ATI

- Enhanced quality assurance
- Strengthened audit trail
- Better performance and consistency
- Increased confidence

ATI is the world's leading photometer manufacturer, with **ISO 9001 certification and ISO 17025 accreditation (coming soon in 2024!)**.

ATI's high-quality calibrations and multi-point verification tests provide a clear and comprehensive record of photometer performance.



ATI's CALIBRA™ system for photometer calibration



2i AEROSOL PHOTOMETER

PRODUCT SPECIFICATIONS

Dimensions (L x W x H)	25.7 cm x 33 cm x 15.2 cm (13 in. x 10.1 in. x 6 in.)
Weight	8.6 kg (19 lbs)
Power	100 to 250 Volts AC, 50/60Hz automatic adjustment 0.5 amps @ 120V, 0.25 amps @ 240V
Auto Zero	Automatically establishes zero reading at startup
Alarm	User selectable audible, visual, and vibratory
Flow Control	1 cfm (28.3 lpm) +/- 10%
Reagent Settings	PAO-4, DOP, DOS/DEHS, Ondina, PEG, Krydol, Corn Oil, Mineral Oil, Paraffin
Dynamic Range	0.0001 mg/m ³ (µg/l) to 120 mg/m ³ (µg/l)
Accuracy	1% of readings (0.01% to 100%)
Repeatability	0.5% of readings > 0.01% to 100%
Light Source	Solid state, rated for life of instrument
Data Output	Thermal printer, USB (2i base unit)
Data Storage & Retrieval	iProbe Plus
Standards Compliance	
Industry	ISO 14644-3, NSF-49, IEST-RP-CC034, EN 12469
Electrical & Safety	CE, UKCA, EN 61010-1:2010, EN 61326-1:2006, FCC Part 15 Subpart B, ISED Canada ICES-003 Issue 7



Accessories

- 1 Small Case, p/n 9300258**
Holds a 2i Photometer and iProbe or iProbe **Plus**
- 2 Combo Case, p/n 9300474 or 9300475**
Holds a 2i Photometer, iProbe or iProbe **Plus**, thermal printer, 5D (p/n 9300474) or 4B (p/n 4300475) generator, regulator, hose adapter
- 3 Large Case, p/n 9300243**
Holds a 2i Photometer, iProbe or iProbe **Plus**, and thermal printer
- 4 Thermal printer, p/n 9300249**



Scan to visit
www.ATItest.com for more details



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