

# DATA SHEET: PM-350 Digital Aerosol Photometer

## High-Efficiency Filter Integrity & Leak Detection System

### 1. PRODUCT OVERVIEW

The **PM-350** is a professional-grade digital aerosol photometer designed for the critical task of HEPA/ULPA filter integrity testing. Utilizing advanced laser scattering technology, it provides high-speed detection of aerosol concentrations for downstream leak scanning and upstream concentration verification. The system features a high-performance internal pump and a unique dual-display architecture—the main unit and a smart scanning probe—allowing technicians to monitor results in real-time while focusing on the filter surface.

### 2. KEY FEATURES

- Precision Flow Control:** Powerful internal pump maintains a steady, regulated sampling flow rate for consistent filter scanning.
- Smart Dual Displays:** Features a primary 5-inch color touch screen on the main unit and an integrated 3.5-inch color touch screen on the Smart Probe for seamless field operation.
- Wide Dynamic Range:** Measures aerosol concentrations from 0.0001% to 100.0% with high precision.
- Multi-Aerosol Support:** Digital calibration for common challenge aerosols including PAO, DOP, and Corn Oil.
- Audit-Ready Reporting:** Internal memory for 20,000 sample records, with USB data export for GXP-compliant documentation.
- Auto-Zero & Rapid Response:** Instantaneous baseline stabilization and high-frequency sampling for efficient leak detection.

### 3. TECHNICAL SPECIFICATIONS

Feature	Specification
Dynamic Range	0.0001% to 100.0%
Flow Rate	<b>1.0 CFM (28.3 LPM) ± 5%</b>
Light Source	Long-life Solid-state Laser
Main Unit Display	5-inch Color Touch Screen
Scanning Probe Display	Integrated 3.5-inch Color Touch Screen
Data Storage	20,000 Records
Communication	USB / RS-232 Interface

Feature	Specification
Dimensions (W×H×D)	260 × 160 × 360 mm
Weight	10 kg
Power Supply	AC 110V - 240V, 50/60 Hz

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## 4. APPLICATIONS & COMPLIANCE

- **Certification:** Cleanrooms, Biosafety Cabinets (BSC), and Laminar Flow Hoods.
- **Maintenance:** HEPA/ULPA filter leak scanning and integrity audits.
- **Standards Compliance:** Meets ISO 14644-3, NSF/ANSI 49, and IEST-RP-CC001.3 requirements.

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## 5. STANDARD ACCESSORIES

- Intelligent Handheld Scanning Probe (3.5" Display)
- Upstream & Downstream Sampling Hoses
- USB Data Cable & PC Reporting Software
- Rugged Protective Carrying Case
- **Factory Calibration Report**
- Comprehensive User Manual

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**Manufactured by:**  
**Honri Airclean Technology (Suzhou) Co., Ltd.**