

DATA SHEET: DMH-635 Handheld Laser Dust Monitor

Advanced Light Scattering Technology for Portable Aerosol Analysis

1. PRODUCT OVERVIEW

The **DMH-635** is a high-performance handheld laser dust monitor that utilizes the principle of light scattering to detect the mass concentration of suspended particulate matter in the air. This instrument provides simultaneous measurement and display of three key channels: PM1.0, PM2.5, and PM10. Featuring a lightweight design, intuitive computer-controlled interface, and robust data management capabilities, the DMH-635 is an essential tool for air quality assessments and occupational health monitoring.

2. KEY FEATURES

- Simultaneous Multi-Channel Detection:** Real-time monitoring of PM1.0, PM2.5, and PM10 concentrations.
- Flexible Sampling Control:** Adjustable measurement durations (up to 8 hours), sampling periods (4-600s), and customizable interval settings.
- Delayed Start Function:** Features a programmable delayed start timer (3-999s) to ensure representative environment stabilization.
- Massive Data Storage:** Integrated memory capable of storing up to 500,000 data points across 20 distinct groups.
- Effortless Data Export:** Supports direct USB data export in multiple formats, including TXT, Excel, and PDF.
- Optional Hardcopy Output:** Compatible with optional external printers for instantaneous field reporting.
- Portable Power:** High-capacity internal Li-ion battery supports up to 8 hours of continuous field operation.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Measurement Channels	PM1.0, PM2.5, PM10
Concentration Range	0 - 10 mg/m ³
Resolution	0.1 µg/m ³
Accuracy	± 10%
Flow Rate	2.83 L/min (0.1 CFM) or 1.5 L/min (Optional)

Feature	Specification
Data Storage	500,000 Records
Power Supply	Built-in Rechargeable Li-ion Battery
Dimensions (LWH)	130 × 45 × 245 mm
Net Weight	0.9 kg

4. APPLICATIONS

- **Environmental Safety:** Outdoor air quality investigations and public health monitoring.
- **Industrial Hygiene:** Assessment of airborne dust levels in manufacturing and mining.
- **Occupational Health:** Ensuring workplace compliance with safety standards.
- **Laboratory Research:** High-precision aerosol analysis and aerosol filtration testing.
- **Quality Control:** Monitoring dust-sensitive production and assembly lines.

5. STANDARD ACCESSORIES

- DMH-635 Dust Monitor
- USB Charging & Data Cable
- Isokinetic Sampling Inlet
- **Factory Calibration Report**
- User Manual & Carrying Case

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