

# HandiLaz® Mini

## Handheld Airborne Particle Counter

The HandiLaz® Mini particle counter is ergonomically designed to fit in the palm of your hand. The Mini is rugged and dependable, providing tremendous value for cost-conscious users who want a reliable, easy-to-use, handheld particle counter.



### BENEFITS

#### Cost Effective

- Low-cost alternative for spot monitoring
- Versatile; useful for many applications
  - ISO certification
  - Counts up to 2,000,000 particles/ft.<sup>3</sup>
- Low cost of ownership
- Batteries allow continuous use with no downtime
- Diode laser eliminates need for frequent cleaning

#### Convenient, Easy-to-Use

- Particle measurements made in seconds
- Intuitive, easy-to-learn user interface
- Interfaces directly by cable to optional printer or PC
- Easy CSV data transfer to Excel
- Quick and easy leak detection

#### Compact and Portable

- Fits easily in palm of your hand
- Weighs only 1.5 lb. (0.68 kg)
- Uses standard AA batteries to provide easy mobility, extended testing periods, reduced costs, and simplified repurchasing

### FEATURES

- Simultaneously sizes and counts particles in three fixed channels
- Sizing sensitivities of 0.3, 0.5, and 5.0 microns
- Sample flow rate of 0.1 ft.<sup>3</sup>/min. (2.83 L/min.)
- Quiet pump, flow control
- Power supply for dedicated use, batteries for mobile use
- Stores up to 10,000 samples
- Five different sampling modes
- Data output via RS-232 or RS-485
- Data download software included
- One year warranty
- External printer optional
- Four standard AA-sized, high capacity, quick change, rechargeable NiMH batteries
- IQ/ OQ validation documentation included

### APPLICATIONS

- Conducting ISO certification of cleanrooms
- Detecting local particle sources
- Point-of-use measurements in cleanrooms
- Filter testing and leak detection
- Portable particle counting

Without measurement, there is no control.



## HandiLaz Mini

<b>Channel thresholds:</b>	3 channels: 0.3, 0.5, and 5.0 $\mu\text{m}$
<b>Flow rate:</b>	0.1 ft. <sup>3</sup> /min. (2.83 L/min.)
<b>Light source:</b>	Laser diode
<b>Calibration particles:</b>	NIST-traceable particles
<b>Max. concentration: (@ 5% coincidence error)</b>	>2,000,000/ft. <sup>3</sup>
<b>Zero count:</b>	<1 per 5 min. (JIS)
<b>Counting efficiency:</b>	50% +/- 20% @ 0.3 $\mu\text{m}$ (meets JIS for first channel)
<b>Sample output filter:</b>	None
<b>Communication modes:</b>	RS-232C or RS-485; RJ11 connector; RS-485 via cascade connection only
<b>Communications protocol:</b>	9600 bps Baud rate
<b>User interface &amp; display:</b>	Keypad; LCD: 4 lines, 20 letters
<b>Data display modes:</b>	Counts, Counts/m <sup>3</sup> , Counts/ft. <sup>3</sup>
<b>Sampling modes:</b>	Single, Repeated, Continuous, Calculation, and ISO (calculations for 0.5 and 5.0 $\mu\text{m}$ )
<b>ISO Certification:</b>	ISO 5-8 @ 0.5 and 5.0 $\mu\text{m}$
<b>Key internal software features:</b>	Hotkey, Autostart, Sample, Display, Uplink, Print, Clear, and Alarms
<b>Standard reports: (from optional external printer)</b>	Single, Repeated, or Continuous sampling modes, plus Calculation or ISO mode
<b>Error messages (real-time):</b>	Excessive Concentration, Exceeds Alarm Limits, Laser Power, Low Battery, Printer Buffer, Flow Rate
<b>External software:</b>	Downloads CSV file
<b>Data storage:</b>	Up to 10,000 samples; Calculations take 2 spaces
<b>Data security:</b>	Cannot edit stored data; cannot delete individual records
<b>External surface:</b>	ABS (plastic resin)
<b>Appropriate cleaning materials:</b>	Methanol or neutral detergents
<b>Dimensions (w, h, d):</b>	4.3 x 7.6 x 2.7 in. (11 x 20 x 7 cm)
<b>Weight:</b>	1.5 lb. (0.68 kg) without batteries
<b>Power:</b>	AC adapter: 100-240 VAC, 50/60 Hz
<b>Batteries:</b>	4 standard, rechargeable AA NiMH batteries (1.2 VDC; 2100 mA)
<b>Operating time on battery:</b>	3 hr.
<b>Battery recharging:</b>	External charger
<b>Operating temperature:</b>	10 - 35°C
<b>Operating humidity:</b>	0-85%, non-condensing
<b>Standard Accessories:</b>	Isokinetic sampling probe, AC adapter and cord, zero filter, Operator's Manual, 4 AA NiMH rechargeable batteries, PC cable, stand, and CSV data download software
<b>Optional Accessories:</b>	External printer, printer paper, carrying case, and tripod

Particle Measuring Systems, Inc. reserves the right to change specifications without notice.  
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**AUTHORIZED REPRESENTATIVE**



Registration applies to the Boulder, Colorado facility



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