



## HANDHELD 3016 IAQ PARTICLE COUNTER

Ergonomically designed and lightweight, the Lighthouse **HANDHELD 3016 IAQ** is the newest, most advanced handheld particle counter on the market, featuring Mass Concentration Mode that approximates density in  $\mu\text{g} / \text{m}^3$ .

Offering 6 channels of simultaneous particle counting, the **HANDHELD 3016 IAQ** displays both cumulative and differential particle count data as well as Temperature/Relative Humidity data on its easy to read 3.8" (9.65 cm) touch screen. A removable battery maximizes the **HANDHELD**'s uptime. Data is easily downloaded using the Lighthouse Data Transfer Software.

The **HANDHELD** will monitor particulate levels accurately and reliably, even in those "hard-to-reach" areas where two-handed operation is unsafe.

**Designed and built by  
Lighthouse - a name you can trust.**

Lighthouse is an ISO 9001:2000 Registered company.

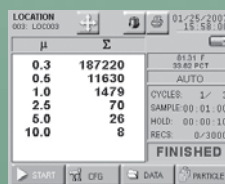
[www.golighthouse.com](http://www.golighthouse.com)

### Features:

- ★ 0.3 - 10  $\mu\text{m}$  Size Range
- ★ 0.1 CFM (2.83 LPM) Flow Rate
- ★ View 6 Particle Sizes Simultaneously
- ★ Approximate Mass Concentration in  $\mu\text{g} / \text{m}^3$
- ★ 3.8" (9.25 cm) Touch Screen Interface
- ★ Removable / Rechargeable Li-Ion Battery
- ★ Large Memory for Storing Data (3,000 samples)
- ★ Concentration Limit - 4,000,000/ $\text{ft}^3$
- ★ Temperature/Relative Humidity Probe Included
- ★ 200 User Defined Alphanumeric Location Labels
- ★ Easily Configurable Interface with Zoom Capability
- ★ On Screen Data Buffer Viewing
- ★ Molded Handle Allows One-handed Sampling
- ★ Internal Audible Alarm
- ★ Ergonomically Designed
- ★ Lightweight
- ★ Data Easily Downloaded to Computer

### Benefits:

- ★ 2 Year Warranty
- ★ User Friendly Interface
- ★ International Support
- ★ Low Cost of Ownership



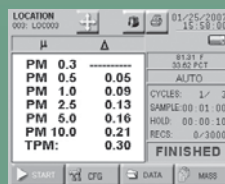
Backlit  
Touchscreen  
Interface



Removable  
Rechargeable  
Li-Ion Battery



One-handed  
Operation with  
Start & Stop  
on Handle



Mass  
Concentration  
Screen



Removable  
Temp / RH and  
Isokinetic Probes



Easily Download  
Data to PC



## Specifications:

<b>Size Range:</b>	0.3 - 10.0 $\mu\text{m}$
<b>Channel Sizes:</b>	Standard: 0.3, 0.5, 1.0, 2.5, 5.0, 10.0 $\mu\text{m}$
<b>Flow Rate:</b>	0.1 CFM (2.83 LPM)
<b>Counting Efficiency:</b>	50% @ 0.3 $\mu\text{m}$ ; 100% for particles > 0.45 $\mu\text{m}$ (per JIS)
<b>Laser Source:</b>	Laser Diode
<b>Zero Count Level:</b>	<1 count / 5 minutes (per JIS)
<b>Concentration Limits:</b>	4,000,000 Particles / $\text{ft}^3$ @ 5% Coincidence Loss
<b>Calibration:</b>	NIST Traceable
<b>Count Modes:</b>	Automatic, Manual, Beep, Concentration, Cumulative/Differential, Mass Concentration
<b>Data Storage</b>	3,000 Sample Records, Rotating Buffer (includes particle and environmental data, plus location and time)
<b>Communication Modes:</b>	RS-232 via RJ-45 to PC or Printer
<b>Supporting Software:</b>	LMS XChange
<b>Environmental Sensors:</b>	Temperature/Relative Humidity Probe: 32-122°F(0-50°C) $\pm 1^\circ\text{F}$ (0.5°C), 15-90% $\pm 2\%$ RH
<b>Touch Screen Display:</b>	3.8" (9.65 cm), Monochrome, 320x240
<b>Alarms:</b>	Internal, Adjustable Alarm Buzzer. Alarms on Counts, Low Battery, Sensor Failure
<b>Sample Inlet:</b>	Isokinetic Sampling Probe
<b>Sample Output:</b>	Internally Filtered to HEPA Standards (>99.997% @ 0.3 $\mu\text{m}$ )
<b>Vacuum Source:</b>	Internal Pump, Automatic Flow Control
<b>Enclosure:</b>	High Impact Injection Molded Plastic
<b>Power:</b>	100-240 V, 50-60 Hz
<b>Battery:</b>	Li-Ion, Removable & Rechargeable
<b>Dimensions:</b>	8.75" (l) x 5.0" (w) x 2.5" (h) [22.23 x 12.7 x 6.35 cm]
<b>Weight:</b>	2.2 lb (1kg)

## Environmental Conditions:

<b>Operating:</b>	50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing
<b>Storage:</b>	14°F to 122°F (-10°C to 50°C) / Up to 98% non-condensing

## Accessories:

<b>Included:</b>	Operating Manual on CD, Removable Battery, Isokinetic Sample Probe (direct mount), Purge Filter, Temperature/Relative Humidity Probe, Power Supply, Power Cord, LMS XChange Software
<b>Optional:</b>	Carrying Case, Isokinetic Sample Probe (with 6 ft tubing for extending Isokinetic Sampling input), Removable / Rechargeable Li-Ion Battery, External Battery Charger w/ AC & Car Adapter, Thermal Printer and Cable

## Manufactured by:



## Distributed by:

