

# SOLAIRPortable

## AIRBORNE PARTICLE COUNTERS




**T**HE SOLAIR 1100LD leads the industry as the first-of-its-kind portable particle counter with 0.1-micron sensitivity and 1.0 CFM (28.3 LPM) flow rate using laser diode technology. Conventional HeNe (Helium Neon) particle counters require frequent cleaning and periodic laser tube replacement and suffer low concentration limits. The SOLAIR 1100LD is designed to operate in ISO class 1 to class 7 cleanrooms without concerns of it exceeding concentration limits.

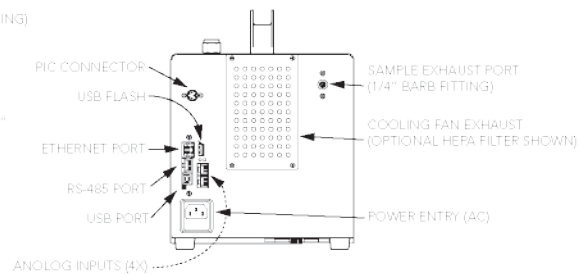
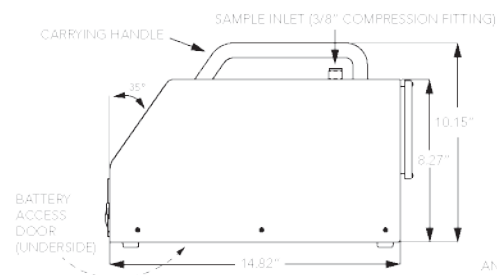
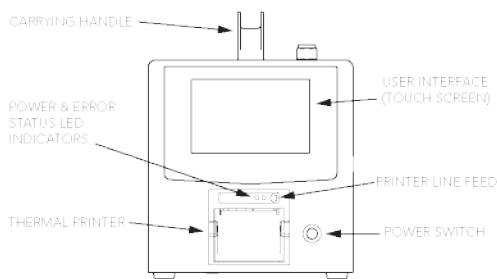
Weighing just 23.35 lbs (10.6 kg) with Li-Ion battery option, the SOLAIR 1100LD is the smallest, lightest, and coolest running 0.1 micron 1.0 CFM portable particle counter on the market.

## F E A T U R E S

- 0.1 -5.0 $\mu$ m Particle Size Channels
- 1.0 CFM (28.3 LPM)
- Up to 8 channels of simultaneous count data
- 21 CFR Part 11 compliant secure USB flash transfer
- Laser diode sensor technology
- Stainless steel construction
- Ethernet/RS485/Modbus, 4x 4-20mA
- 3,000 Record data storage
- 50-record configurable recipe database
- 2 Year Warranty



 Learn More



## TECHNICAL DATASHEET

### SOLAIR 1100 Airborne Particle Counters

#### Features / Models

#### SOLAIR 1100

<b>Minimum Size Detection</b>	0.1 $\mu\text{m}$
<b>Standard 8 channel sizes</b>	0.1, 0.15, 0.2, 0.25, 0.3, 0.5, 0.7, 1.0 $\mu\text{m}$
<b>Additional Available size</b>	5.0 $\mu\text{m}$
<b>Flow Rate / Nozzle Size</b>	1 CFM (28.3 LPM), 1/4" Inlet Barb
<b>Weight</b>	23.35 lbs (10.6 kg)
<b>Concentration Limits</b>	1,000,000 Particles/ft <sup>3</sup> @10%(35,300,000/m <sup>3</sup> ) Coincidence loss
<b>Communication</b>	USB, Ethernet, RS-485, USB flash drive
<b>Data Storage Records</b>	3,000 sample records, rotating buffer, particle and environmental data, location and time
<b>Count Modes</b>	Automatic, manual, beep, concentration, cumulative/differential, realtime with LMS software
<b>Printer</b>	Available with and without internal printer
<b>Reports</b>	ISO 14644-1:2015, EU GMP Annex 1
<b>Alerts</b>	Integrated adjustable alarm and external alarm connector; alarms on counts, low battery and sensor failure
<b>Enclosure</b>	Stainless steel
<b>Touch Screen Display</b>	5.7 inch (14.47 cm) color TFT touch screen display
<b>Power</b>	100-240 VAC, 50-60 Hz, external AC/DC adapter
<b>Battery</b>	Optional Li-Ion removable rechargeable
<b>Light Source</b>	Life Diode
<b>Calibration</b>	ISO 21501-4 Compliant and Accredited ISO 17025
<b>Zero Count Level</b>	< 1 Count / 5 minutes (meets specifications of JIS B 9921 and reporting requirements of ISO 21501-4 Annex C)
<b>Sample Output</b>	Internally filtered to HEPA standards (>99.97 @ 0.3 $\mu\text{m}$ )
<b>Vacuum Source</b>	Internal closed-loop controlled pump
<b>Languages</b>	English (US), French, German, Spanish, Italian, Russian, Japanese, Korean and Chinese
<b>Supporting Software</b>	LMS Express, LMS Pharma, LMS Professional, LMS XChange

**Includes** Isokinetic sample probe, tubing, purge filter, power cables, spare fuse, printer paper, Calibration Certificate

**Optional** Printed operating manual, wireless network adapter, removable rechargeable Li-Ion battery, carrying case with wheels, temperature/relative humidity probe, air velocity probe, ext. Battery charger, software (LMS Express, LMS Pharma, validation documentation).

**Distributed By:**



Lighthouse Worldwide Solutions reserves the right to change specifications without notice.

www.golighthouse.com  
info@golighthouse.com

+1-800-945-5905  
+1-541-770-5905

**LIGHTHOUSE**  
WORLDWIDE SOLUTIONS