LIGHTHOUSE
WORLDWIDE SOLUTIONS
Technology That Counts!

EXTREME LIFE LASER DIODE TECHNOLOGY

SOLAIR 3350
SOLAIR 5350
100 LPM
Airborne Particle Counters

With fast, reliable sampling of one cubic meter of air in only ten minutes, the ***SOLAIR 3350*** and ***SOLAIR 5350*** portable airborne particle counters offer faster cleanroom qualification than 1 and 2 CFM counters and at sensitivities of 0.3 and 0.5 microns, respectively. ***SOLAIRs*** incorporate our ***Extreme Life Laser Diode Technology*** sensor to produce the industry's longest laser diode life of 20+ years MTTF (based on continuous 24/7 operation). The ***SOLAIR 3350*** is the industry's only 100 LPM 0.3 micron portable designed for continuous use.

SOLAIRs use the industry's best UI (User Interface) to configure and operate the instrument. The intuitive ICON-driven screens and menus are easy to learn and use, which simplifies SOP writing, and support multiple languages.

SOLAIRs can store up to 3,000 records of particle count data from up to 8 particle channels and the configurable recipe database can store up to 50 recipes for sampling and reports. All data can be quickly and reliably transferred to a computer, a Facility Monitoring System or Building Automation System.

Secure data transfer (per 21 CFR Part 11) to a USB Flash Drive can be accomplished by using the *Lighthouse Secure Data* transfer feature and *LMS Express* or *Express RT* software. Flexible communication with these instruments is made possible by the integrated Ethernet, RS-485, USB and USB Flash Drive interfaces.

SOLAIRs are designed, manufactured and calibrated to ISO 21501-4 to ensure particle counting accuracy.

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

Lighthouse is an ISO 9001:2008 Registered Company

www.golighthouse.com

Features:

- ★ SOLAIR 3350: 0.3-25.0µm, 0.3µm @ 100 LPM
- ★ SOLAIR 5350: 0.5-25.0µm, 0.5µm @ 100 LPM
- ★ Samples 1 Cubic Meter in 10 Minutes @ 100 LPM
- ★ Simultaneous Display of up to 8 Particle Sizes
- ★ 21 CFR Part 11 Compliant Secure Data Transfer via USB Flash Drive
- ★ Extreme Life Laser Diode Technology >20 Years MTTF Laser Lifespan
- ★ Thermal Printer
- ★ Stainless Steel Construction
- ★ Designed for ISO 21501-4 Compliance: Unit-to-Unit Accuracy & Repeatability Assured
- ★ Multiple Communication Interfaces - USB, RS-485, Ethernet and USB Flash Drive
- ★ 5.7-inch Color TFT Touch Screen Display
- ★ 3000-record Data Storage Memory
- ★ 50-record Configurable Recipe Database
- ★ User-Definable Printouts
- ★ Open Architecture Connectivity with OPC Server
- ★ Report Wizard for Cleanroom Pass/Fail Reports: FS-209E, ISO-14644-1 or EU GMP Annex 1

Benefits:

- ★ Reduced Sample Time of 1 Cubic Meter in 10 minutes
- ★ User Friendly Interface with Multiple Languages
- ★ International Support
- ★ 2 year Warranty
- ★ Easy Integration to External Systems with OPC Server

Applications:

- ★ Cleanroom Monitoring
- ★ Facility Certification Testing
- ★ Trend Analysis
- ★ Tool and Equipment Testing
- ★ Compressed Gas Monitoring (with High Pressure Controller)

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Specifications:

	3350	5350
Size Range:	0.3 - 25.0µm	0.5 - 25.0µm
Standard Channel Sizes:	0.3, 0.5, 1.0, 3.0, 5.0, 10.0µm	0.5, 0.7, 1.0, 3.0, 5.0, 10.0µm
Optional Channel Sizes:	0.3, 0.5, 1.0, 5.0, 10.0, 25.0µm	0.5,1.0, 3.0, 5.0, 10.0, 25.0µm

Flow Rate:	100.0 LPM (3.53 CFM)
Counting Efficiency:	3350, 50% @ 0.3µm; 100% @ sizes > 0.45µm; 5350, 50% @ 0.5µm; 100% @ sizes > 0.75µm Per JIS B 9921 and ISO 21501-4
Light Source:	*Extreme Life Laser Diode Technology* with >20 years Mean Time To Failure (MTTF)
Zero Count Level:	<1 count / 5 minutes (per JIS B 9921)
Concentration Limits:	400,000 Particles/ft^3 (14,120,000/M^3) @10% Coincidence Loss, Suitable for ISO classes 1 through 8 Cleanrooms
Calibration:	Meets ISO 21501-4 Calibration using NIST Traceable PSL Spheres, DMA and Condensation Particle Counter
Count Modes:	Automatic, Manual, Beep, Concentration, Cumulative/Differential and Real Time (with *LMSNet* or *LMS Express RT*)
Data Storage:	3,000 Sample Records (Rotating Buffer), which includes particle and environmental data with locations and times
Communication Modes:	USB; Ethernet; RS-485; Secure Data Transfer to and Storage on USB Flash Drive
Supporting Software:	*LMS XChange*, *LMS Express* and *Express RT; LMS Standard; LMS Pharma; CREWin*
Environmental Sensors:	Optional (up to 4): Temperature/Relative Humidity, Air Velocity, Differential Pressure or others
Touch Screen Display:	5.7-inch (14.47 cm) Color TFT Touch Screen Display
Location Labels:	Up to 400, based on Location Label Length
Printer:	Built-in Thermal Printer (non-printer model available)
Reports:	Pass/Fail Report Wizard for ISO-14644-1, EU GMP Annex 1 and FS-209 Report Formats
Alarm:	Integrated Alarm Buzzer and External Alarm Connector. Alarms on Counts, Low Battery, Sensor Failure
Enclosure:	Stainless Steel
Sample Output:	Internally Filtered to HEPA Standards (>99.97% @ 0.3µm)
Vacuum Source:	Internal Closed-loop Controlled Pump: allows the use of 3/8" ID Sample Tubing of up to 12 Meters (40 feet) @ 100 LPM
Power:	100-250 VAC, 47-63 Hz
Battery:	Li-Ion, Removable & Rechargeable; Typical Battery Operation ~4 hours*; Tyical Recharge Time ~4 hours
Dimensions:	14.65" (l) x 8" (w) x 10.4" (h) [37 x 20 x 26 cm]
Weight:	With Battery: 26 lbs (11.8 kg) Without Battery: 23 lbs (10.43 kg)
Languages:	English, Français, Deutsch, Italiano, Español, Chinese (Simplified)

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* typical battery operation of 10-minute sample, 10-minute hold time, repeat

Environmental Conditions:

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

Accessories:

Included: Operating Manual on CD; Isokinetic Sample Probe with Tripod and Tubing; Purge Filter; Power Cable and Spare Fuse; *LMS XChange* and *Express* Software; Printer; Printer Paper

Optional: *Wireless Network Adapter*; Removable Rechargeable Li-Ion Battery; Carrying Case with Wheels; Temperature/Relative Humidity Probe; Differential Pressure Probe; *Intelligent Filter Scanning Probe*; Air Velocity Probe; Spare Removable Rechargeable Li-Ion Battery; External Battery Charger; *LMS Express RT* Software; *LMS Pharma Edition* Software; *LMS Standard* Software; Validation Documentation; Printed Operating Manual; Cleanroom Cart

Manufactured by:

LIGHTHOUSE
WORLDWIDE SOLUTIONS

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MADE IN U. S. A.

CE

Distributed by:

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

LWS PN 545401715-1 Rev 1