LIGHTHOUSE
WORLDWIDE SOLUTIONS
Technology That Counts!

EXTREME LIFE LASER DIODE TECHNOLOGY

SOLAIR 3200
SOLAIR 5200

50 LPM or 2.0 CFM Flow Rate
AIRBORNE PARTICLE COUNTERS

The ***SOLAIR 3200*** and ***SOLAIR 5200*** portable airborne particle counters 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).

SOLAIRs incorporate one of the industry's best User Interfaces (UI) to configure and operate the instrument. The intuitive ICON-driven screens and menus are easy to learn and simple to use.

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 to read it. 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 3200: 0.3µm to 25.0µm
- ★ SOLAIR 5200: 0.5µm to 25.0µm
- ★ 50 LPM or 2.0 CFM (56.6 LPM) Flow Rate
- ★ 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-year 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:

- ★ 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:

	3200	5200
Size Range:	0.3 - 25.0µm	0.5 - 25.0µm
6-Channel Sizes:	0.3, 0.5,1.0, 3.0, 5.0, 10.0µm 0.3, 0.5,1.0, 5.0, 10.0, 25.0µm	0.5, 0.7, 1.0, 3.0, 5.0, 10.0µm 0.5, 1.0, 3.0, 5.0, 10.0, 25.0µm
8-Channel Sizes:	0.3, 0.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10.0µm 0.3, 0.5, 0.7, 1.0, 5.0, 7.0, 10.0, 25.0µm	0.5, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0, 10.0µm 0.5, 1.0, 2.0, 3.0, 5.0, 7.0, 10.0, 25.0µm

Flow Rate:	Available in either 50 LPM (1.77 CFM) or 2.0 CFM (56.6 LPM)
Counting Efficiency:	3200, 50% @ 0.3µm; 100% @ sizes > 0.45µm; 5200, 50% @ 0.5µm; 100% @ sizes > 0.75µm Per JIS B 9921 and ISO 21501-4
Light Source:	*Extreme Life Laser Diode Technology* with >20-year Mean Time To Failure (MTTF)
Zero Count Level:	<1 count / 5 minutes (per JIS B 9921)
Concentration Limits:	700,000 Particles/ft^3 (24,710,000/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) @ 50 LPM
Power:	100-250 VAC, 47-63 Hz
Battery:	Li-Ion, Removable & Rechargeable
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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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
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MADE IN U. S. A.

CE

Distributed by:

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

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