

Compare Solair Airborne Particle Counters

	1100 LD	3100	5100	3350	Boulder Counter
Specifications					
Size Range	0.1 - 1.0 µm Optional ranges up to 5.0 µm	0.3 - 25.0µm	0.5 - 25.0µm	0.3 - 25.0 µm	5.0 - 100.0 um
Channel Sizes	Standard 8 channels: 0.10, 0.15, 0.2, 0.25, 0.3, 0.5, 0.7, 1.0µm Optional 8 channels: 0.10, 0.15, 0.2, 0.25, 0.3, 0.5, 1.0, 5.0 µm	Standard: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm Standard: 0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm 8-Channel: 0.3, 0.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10.0 µm	Standard: 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm Standard: 0.5, 1.0, 3.0, 5.0, 10.0, 25.0 µm 8-Channel: 0.5, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0, 10.0 µm	Standard: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm Optional: 0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm	Standard: 5.0, 10.0, 25.0, 40.0, 50.0, 100.0µm
Flow Rate	1.0 CFM (28.3 LPM)			100 LPM	28.3 LPM
Counting Efficiency	50% @ 0.1 µm; 100% for particles > 0.15 µm per ISO 21501-4	50% @ 0.3 µm; 100% @ sizes > 0.45 µm	50% @ 0.5 um; 100% @ sizes > 0.75 µm	50% @ 0.3 µm; 100% @ sizes > 0.45 µm	50% @ 5.0 um
Concentration Limits	500,000 Particles / ft3 (17,150,000 / m3) @ 5% Coincidence Loss	1,000,000 particles/ft3 (35,300,000/m3) @ 10% coincidence loss Suitable for ISO classes 1-8 cleanrooms	400,000 particles/ft3 (14,120,000/m3) @ 10% coincidence loss Suitable for ISO classes 1-8 cleanrooms	500,000 particles/ft3 @ 5% coincidence loss	
Light Source	Long Life Laser Diode	Extreme Life Laser Diode Technology with >20-year Mean Time To Failure (MTTF)			
Dimensions	14.65"Lx8.0"Wx10.4"H (37x20x26cm)	9.5"Lx8.0"Wx10.2"H (24.13x20.32x25.9cm)	14.65"Lx8.0"Wx10.4"H (37x20x26cm)	9.5"Lx8.0"Wx10.2"H (24.13x20.32x25.9cm)	
Weight	With battery: 23.55 lbs (10.68 kg) Without battery: 20.45 lbs (9.28 kg)	With battery: 13.40 lbs (6.08 kg) Without battery: 12.00 lbs (5.44 kg)	With battery: 26.15 lbs (11.86 kg) Without battery: 23.05 lbs (10.46 kg)	With battery: 13.40 lbs (6.08 kg) Without battery: 12.00 lbs (5.44 kg)	
Zero Count Level	< 1 count / 5 minutes (per JIS B 9921)				
Calibration	Meets ISO 21501-4 Calibration using NIST Traceable PSL Spheres, DMA and Condensation Particle Counter				
Count Modes	Automatic, Manual, Beep, Concentration, Cumulative/Differential, Real Time (with LMSNet or LMS Express RT software)				
Data Storage	3,000 Sample Records, Rotating Buffer (particle and environmental data with location and time)				
Communication Modes	USB, Ethernet, RS-485 and Secure Data Transfer (LSDT) to and Storage on USB Flash Drive				
Supporting Software	LMS Express and Express RT; LMS Pharma				

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	
Reports	Pass/Fail Report Wizard for ISO-14644-1, EU GMP Annex 1 and FS-209 Report Formats	
Alarms	Integrated alarm buzzer and external alarm connector. Alarms on counts, low battery, sensor failure	
Sample Output	Internally Filtered to 100% @ 0.1µm, Optional HEPA Filtration for Cooling System Exhaust	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 & 100LPM	
Enclosure	Stainless Steel	
Power	100-240 VAC, 50-60 Hz, External AC/DC Adapter	
Battery	Optional: Li-Ion, Removable & Rechargeable (typical recharge time 7.5 hours)	
Languages	English (U.S.), French, German, Italian, Spanish, Chinese, Russian, Japanese, Korean	
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	Printed Operating Manual; Network Adapter; Wireless Network Adapter; Internal Removeable, Rechargeable Battery; Carrying Case with Wheels; Cleanroom Cart; Temperature/Relative Humidity Probe; Air Velocity Probe; Differential Pressure Probe; Filter Scanning Probe; High Pressure Difuser; 32-Port Universal Manifold; LMS Express RT Software; LMSNet Software; Validation Documentation	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