

CI-x70 Series NEXTGEN™ PORTABLE PARTICLE COUNTER



Smallest and Lightest Pharmaceutical/Industrial Grade!

- Industrial Grade Design: **1m drop and vibration tested**, and passed calibration!
- Print or PDF reports for ISO 14644:2015, GMP, and FS 209e with sample data filtering (filter sample data by dates, etc.)
- User Integrity Audit Trail
- New Ultra Quiet and Ultra clean blower technology
- DISPLAY: New Color LCD (cellphone-type) touch screen (pinch-to-zoom and swipe-to-scroll)
- Battery: Single Lithium-Ion that **last longer than competitors' dual battery configuration.**
- Sample Data Storage: **Up to a million samples, or more!**
- User IDs: 100 and **factory expandable** upon request!
- Location IDs: 100 and **factory expandable** upon request!
- Programs/Recipes: 100 and **factory expandable** upon request!
- Light Ring: User configurable status and alarms (enable/disable, 5-colors, patterns, etc.)
- HEPA Filter certified to ISO Class 3
- 21 CFR Part 11 Certified
- Flow Rates of 1 CFM, 50 LPM, 75 LPM, or 100 LPM
- Stainless Steel Enclosure
- **Pharmaceutical Grade Stainless Steel** enclosure at **only 9.4 Lbs.** with battery installed!
- Dimensions: 8.38" x 7.4" x 9.48" (**only 587.9 cubic inches!**)
- Fully integrated thermal printer and battery charger!
- Simplified Unit-to-Unit Cloning technology
- Security: 5-Levels with user authentication
- **Network Time Server** synchronization – Another New Innovation in Portable Particle Counters!

** Incorporates patented and new patent pending technology.

Channel Sizes	CI-170 Series, CI-570 Series & CI-770 Series CI-1070 Series	0.3 µm, 0.5µm, 1µm, 3µm, 5µm, and 10µm * 0.5 µm, 1µm, 3µm, 5µm, 10µm, and 25µm *
Size Calibration	< ±10% with internal pulse height analyzer (PHA) in compliance with ISO 21501-4.	
Size Resolution	±4% to ±10% typical. Substantially exceeding ISO 21501-4 of ≤ ±15%.	
Count Efficiency	50% Count Efficiency (a measure of size): ≤ ±10% to Climet standards. Substantially exceeding ISO 21501-4 of ≤ ±20%. 100% Count Efficiency (a measure of flow and laser alignment): < ±10%. In compliance with ISO 21501-4.	
False Count Rate	Equal to or better than ISO 21501-4 specifications.	
Flow Rate	CI-170 Series @ 1 CFM CI-570 Series @ 50 LPM	CI-770 Series @ 75 LPM CI-1070 Series @ 100 LPM
Sample Volume Uncertainty	Flow Control and internal mass flow meter ensures compliance with ISO 21501-4 Flow Rate tolerance of ± 5%. Sample Volume is user-adjustable in cubic meters, cubic feet, or liters.	
Exhaust	HEPA filtered exhaust uniquely factory tested to ensure no leaks and certified to ISO Class 3 emissions. Substantially exceeding ISO standards and recommendations.	
Sanitation	Compatible with all standard cleanroom sanitation and sterilization procedures, including Vaporized Hydrogen Peroxide (VHP).	
Data Interface	RS-232, Ethernet, and USB.	
Laser and Collection Optics	Patented metal ellipsoidal mirror uniquely mitigates the effect of particle shape (morphology) on sizing. No plastic laser or collection optics ensures the industry's highest accuracy and stability of measurement. Contributes to product longevity and lowers Total Cost of Ownership.	
Mirror Plating	Rhodium plated metal ellipsoidal mirror uniquely ensures the highest resistance to damage, contamination, and decomposition when compared to chromium, gold, and other metals. Also, improves product longevity and Total Cost of Ownership (TCO).	
Enclosure	Stainless steel enclosure is impact resistant and easily cleaned and sanitized. Mitigates risk of biological contamination, and cross-contamination vs. plastic enclosures. Does not decompose like plastics, which adds to the particle burden of the cleanroom.	
Display	Large touchscreen display and large lettering. Easy to use interface. VERY quick response between screens—No frustrating delays.	
Alarms	Triggers at (i) Counts (User defined “Alert” and “Action” levels), (ii) Laser Status, and (iii) Flow Rate Deviation. 360 degree, user-configurable status and alarms (enable/disable, 5-colors, patterns, etc.)	
Programmable	Five Security Levels, 100 Programs, 100 User ID's plus administrator with password security, 100 location IDs, and up to 10,000,000 samples. All models uniquely come standard with Unit-to-Unit cloning.	
Printer	Fully integrated thermal printer. No warts or plastic bubbles on the outside exterior that are difficult to sanitize.	
Battery / Electrical	CI-170 Series @ 6 hours CI-570 Series @ 5 hours Continuous at 100% duty cycle w/ Zero Count Filter Installed	CI-770 Series @ 3.5 hours CI-1070 Series @ 3.5 hours Recharge Time: 3.5-4 hours w/ Internal charger Wall Power: Universal 100-240 VAC
Dimensions & Weight	8.38" x 7.4" x 9.48" = 587.9 cubic inches. Smallest portable on the market! 9.6 Lbs. with battery. The lightest industrial / pharmaceutical grade portable on the market!	
Environmental	Temperature: 0-36°C (32-97°F). Humidity: 10-90% relative humidity, non-condensing	
Included Accessories	Internal thermal printer, internal battery charger, battery, stainless steel or light blocker isokinetic probe, sample tubing, zero count filter, two rolls of thermal paper, cloning cable, IQ/OQ documentation, manual, external exhaust fitting (as appropriate), and USB flash drive.	
Options	Carrying case, probe stand, filter scanning probe, spare isokinetic probe, spare battery, validation documentation, external battery charger (comes with internal battery charger), and high pressure diffusers (for sampling high pressure gases).	

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