Handheld Particle Counter ZR-1620

2.83L/min

CE

Features

- Support 6-channel simultaneous measurement and record.
- Built-in vacuum pump, and the flow is stably controlled at 2.83 L/min.
- The isokinetic probe and temperature and humidity probe are equipped as standard.
- Cumulative concentration can be switched between pcs, pcs/m³, pcs/ft3.
- Built-in HEPA filter for exhaust.
- Support data export to USB drive and print data by Bluetooth thermal printer.
- It can record environmental temperature, humidity and atmospheric pressure parameters.
- Built-in lithium-ion battery, up to 3 hours of continuous sampling when fully charged.
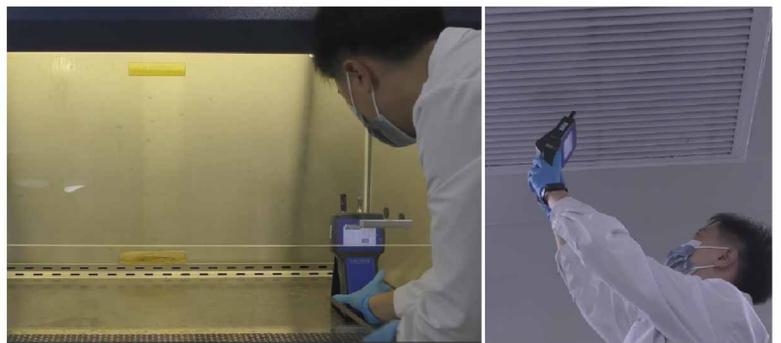- 3.5-inch touch colorful screen, and user-friendly interface.

Introduction

ZR-1620 Airborne Particle Counter is a handheld 6 channel particle counter that uses the principle of light scattering to test the number of airborne particles with sizes of **0.3, 0.5, 1.0, 3.0, 5.0, and 10.0μm**. The flow is stable at **2.83L/min** by a built-in power source. The instrument is suitable for cleanliness testing of clean rooms, and performance testing of air filter and filter material in clean workshops, biological laboratories, pharmaceutical factories, inspection and testing institutions, bio-safety cabinet manufacturers, etc.

Reference standards

- ISO 14644
- ISO 21501-4:2018
- GMP
- GB/T 16292-2010
- JIS B 9921:2010
- GB/T 6167-2007
- JJF 1190-2008

Packing list

Application

Junray | Precision Redefined

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Specifications

Flow rate	2.83 L/min, maximum permissible error ±2%
Channel sizes	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 μm
Counting efficiency	0.3 μm: 50%±20%; >0.5 μm: 100%±10%
Error of particle size distribution	0.5 μm and 5 μm channel: ≤ ±30%
Repeatability	≤ 10%FS
Concentration indication error	0.5 μm channel: ≤±30%FS
Light source	Laser diode
Concentration limit	3,500,000/ft³, 10% coincidence loss
Zero count	<1 count / 5 min
Sampling mode	Automatic; Cumulative count
Alarm	Audible and visual alarm when low battery
Sampling time	1s~23h59m59s
Sampling delay/interval	0s~23h59m59s
Sampling cycle	1~100times
Exhaust filtration	Built-in HEPA filter (>99.97%@0.3 μm)
Communication	USB, Bluetooth
Environmental sensor	Temperature, humidity, atmospheric pressure
Screen	3.5-inch touch color screen
Power supply	Input: AC(100~240)V, 50/60 Hz, Output: DC 12V, 2 A
Battery	Rechargeable lithium battery. Continuous sampling ≥3h @25℃, 101.325kPa
Sampling data	Exported to USB drive or printed by Bluetooth thermal printer
Data storage capability	8GB, >100,000 groups
Noise	≤ 60 dB (A)
Language	English, Chinese
Working condition	(10~40)℃ , (20~85) % RH, no condensation
Storage condition	(-20~50)℃, ≤95% RH
Dimension	(L 240 × W 120 × H 110) mm
Weight	About 1 kg
Power consumption	≤7W

Particle Counter Series

0.3-10μm/28.3LPM	0.3-10μm/2.83LPM	0.3-10μm/100LPM	0.1-5μm/28.3LPM
ZR-1630	**ZR-1620**	**ZR-1640**	**ZR-1650**