



CE

# Hand Held Particle Counter for Large Particles.



Used for measuring environments for assembly line, painting line of cars, press line and other industries.

## Hand Held Particle Counter **KC-52AK**

- Particle size range: 1, 2, 5, 10, 20, 30 µm
- Graph display to show trend for real time or history data
- Color LCD with touch panel
- Lighter and easier to hold (13% lighter than previous model)
- Environmental friendly rechargeable battery (lithium-ion)
- It is possible to check the cleanliness of not only clean rooms but also general environments.

## Specifications

Optical system	Sideway light-scattering method
Light source	Laser diode (Wavelength 780 nm, rated output 10 mW)
Laser product class	Class 1, IEC 60825-1
Light detector	Photodiode
Sampling flow rate	2.83 L/min
Size range	6 channels: $\geq 1.0 \mu\text{m}$ , $\geq 2.0 \mu\text{m}$ , $\geq 5.0 \mu\text{m}$ , $\geq 10.0 \mu\text{m}$ , $\geq 20.0 \mu\text{m}$ , $\geq 30.0 \mu\text{m}$
Measurement time/ Measurement volume	Manual, any length (1 s. to 2 hours) 283 mL (6 s.), 1 L (21 s.), 2.83 L (1 min.), 10 L (3 min. 32 s.), 28.3 L (10 min.)
Count display modes	Cumulative, differential, trend graph
Volume setting for conversion	1 L, 28.3 L, 1,000 L, None
Number of continuous measurements	Up to 99
Measurement interval	Up to 24 hours (set as measuring period)
Number of measurement conditions that can be saved	Up to 3 patterns
Number of times measurement results can be stored	Approx. 10 000 times (on a rotating principle, depending on the size of measurement file)
Format of stored data output	Text file in tab spaced value (TSV) format, PDF
Stored data retrieval method	Copy to USB flash drive
Alarm function	Monitors the upper limit of the number of particles (when the count exceeds the predetermined level, a buzzer sound is heard), or measures the changes in the number of particles (Intervals between beeping sounds vary according to increase or decrease in the number of particles)
Password function	Only administrator and user can change the settings of measurement parameter
Display	4.3-inch color LCD panel
Operating method	Touch panel, buttons
Languages	English, Japanese
External terminal	USB C (for connecting to PC, printer or AC adapter)
Environmental conditions for operation	10 °C to 40 °C, less than 85 %RH (no condensation)
Power	AC adapter (Input voltage: 100 to 240 V AC, 50/60 Hz) Lithium-ion battery (built-in type) Battery life: 7 hours, Charging time: 4 hours
Dimensions and weight	307 (H) × 93 (W) × 54 (D) mm, approx. 680 g
Supplied Accessories	Hand strap, USB cap port protector, Zero count filter, Silicon tube, Isokinetic probe

\* IF KC-52AK has been used as continuous measurement sensor, we cannot provide the one-year warranty.

Optional Accessories	AC adapter (CE certified, 60 W, including power cord), Charging stand, Carrying Case, Vinyl tube, Communication dock, USB flash drive (16 GB), Thermal paper TP-34, Lint-free thermal paper TP-33, USB cable (C to C), USB cable (C to mini B), USB cable (A to mini B), USB cable (A to B), USB cable (mini B to C), Tube size conversion adapter
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## Display



Measurement Screen



Trend Graph Screen

## Option

### Communication dock



Front View



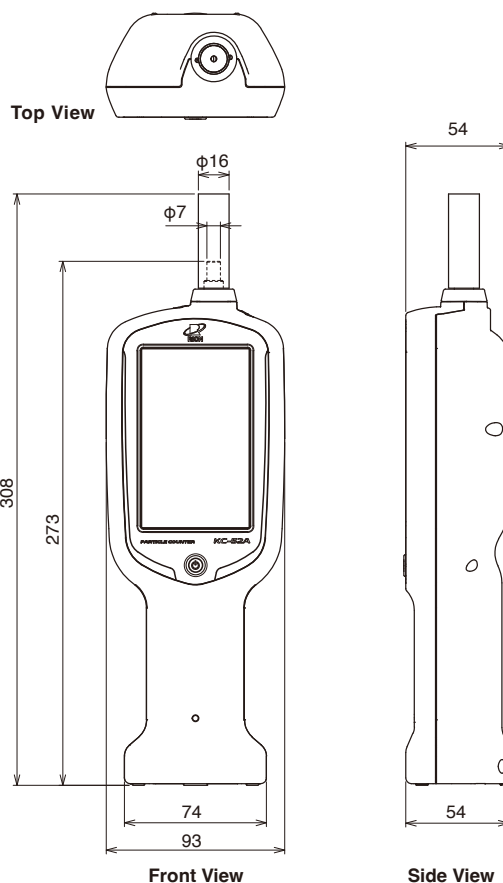
Back View

- ① Power (USB-C)
- ② USB-A terminal
- ③ USB-B terminal
- ④ LAN port



Unit in Communication dock

### Dimensional Drawing (Unit : mm)



Front View

Side View

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\* Specifications subject to change without notice.

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