

# Hand Held Particle Counter

## KC-52A

CE



- Particle size range:  
 $\geq 0.3 \mu\text{m}$ ,  $\geq 0.5 \mu\text{m}$ ,  $\geq 1.0 \mu\text{m}$ ,  $\geq 2.0 \mu\text{m}$ ,  $\geq 5.0 \mu\text{m}$ ,  
and  $\geq 10.0 \mu\text{m}$
- Graph display to show trend for real time or history data
- Supports data integrity
  - Out puts data with PDF to prevent tampering.
  - Audit-trail function
  - Password protection to separate administrator, user and guest access
- Use of communication dock (option) will enable data copy to USB flash drive and connection to the multi-point monitoring system via Ethernet communication.

\* If KC-52A has been used as a continuous measurement sensor, one-year warranty cannot be provided.



**Product video**  
Scan QR code above  
to watch video.

Complies to the ISO 21501-4:2007 standard (JIS B 9921). Fully equipped with basic functions and can be used for a variety of contamination control applications.

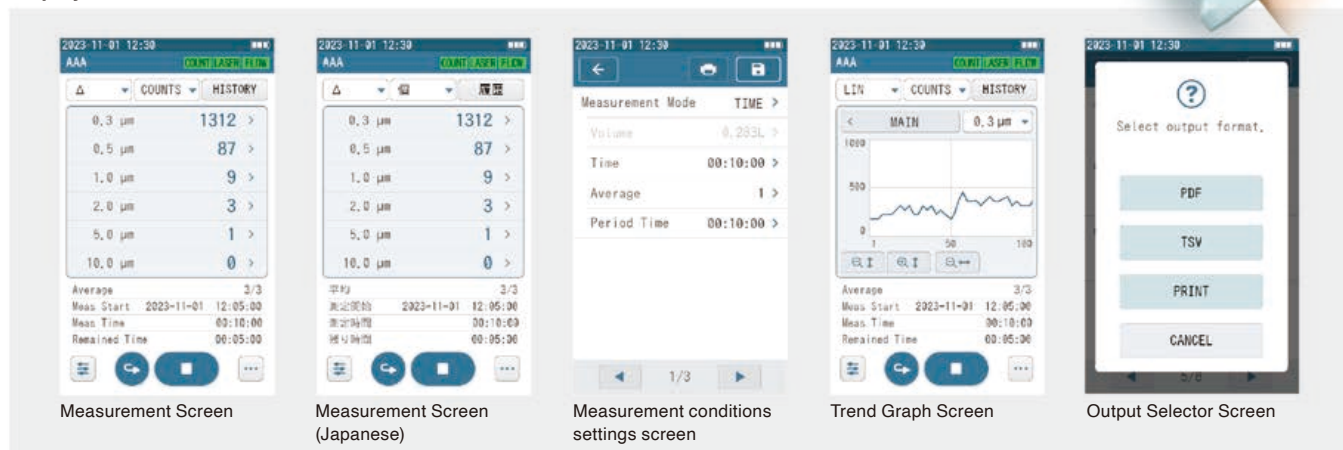
- Contamination control of cleanrooms
- Environmental control of semiconductor manufacturing plants
- Environmental control of medicine, beverage, and food manufacturing processes, as well as packing processes
- Contamination control of hospitals and medical facilities

# 4.3-inch color LCD with touch panel

## Design focused on ease of grip

### Hand Held Particle Counter KC-52A

#### Display



#### Specifications

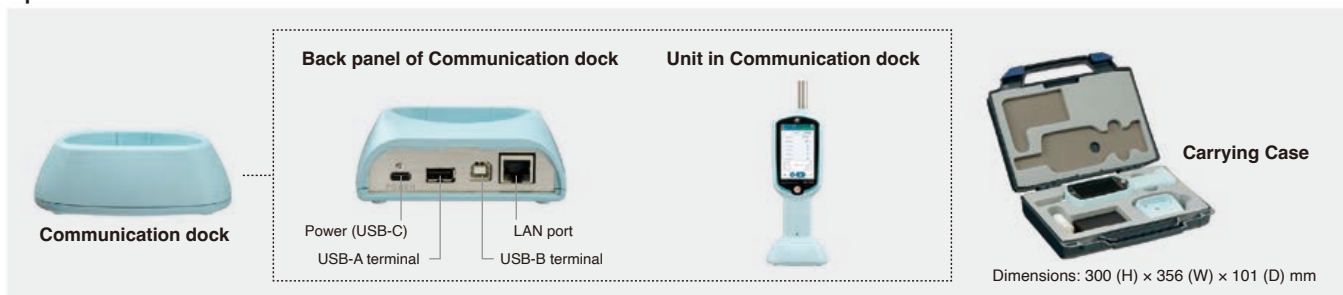
Optical system	Sideway light-scattering method
Light source	Laser diode (Wavelength 780 nm, rated output 35 mW)
Laser product class	Class 1, IEC60825-1
Light detector	Photodiode
Sampling flow rate	2.83 L/min
Size range	6 channels: $\geq 0.3 \mu\text{m}$ , $\geq 0.5 \mu\text{m}$ , $\geq 1.0 \mu\text{m}$ , $\geq 2.0 \mu\text{m}$ , $\geq 5.0 \mu\text{m}$ , $\geq 10.0 \mu\text{m}$
Maximum particle number concentration	140 000 000 particles/m <sup>3</sup> (coincidence loss 10 %)
Measurement time/ Measurement volume	Manual, set 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 or differential
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 / Audio function	Alarm: Monitors the upper limit of the number of particles (when the count exceeds the predetermined level, a buzzer sound is heard) Audio: 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, button
Languages	English, Japanese
External terminal	USB type 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) x 93 (W) x 54 (D) mm, approx. 680 g
Supplied Accessories	Hand strap, USB cap port protector, Zero count filter, Silicon tube, Isokinetic probe
Factory option	Compatibility for ISO 21501-4:2018 as option Modification of minimum particle size to 1 μm (Particle size range: $\geq 1.0 \mu\text{m}$ , $\geq 2.0 \mu\text{m}$ , $\geq 5.0 \mu\text{m}$ , $\geq 10.0 \mu\text{m}$ , $\geq 20.0 \mu\text{m}$ , $\geq 30.0 \mu\text{m}$ )
Optional Accessories	AC adapter*1 (60 W, including power cord), Stand, Carrying Case, Vinyl tube, Communication dock, Communication Dock for DATA LINK, USB flash drive (16 GB), Printer DPU-S245, Thermal paper TP-34, Lint-free thermal paper TP-33, USB cable (C to C, 1.0 m), USB cable (C to mini B, 1.0 m), USB cable (A to mini B, 1.8 m), USB cable (A to B, 2.0 m), USB cable (A to C, 1.0 m), Conversion cable (C to A female, 8 cm), RP Monitor Evo10 K1701 Ver.2/Ver.3, RP Monitor Evo10 K1701P Ver.2/Ver.3*2, Tube size conversion adapter

\*1 The main unit is compliant with CE, UKCA, and PSE standards, and the power cord is designed for use in Japan. If you need a product that adheres to different standards, please make the necessary arrangements independently. The specifications support 9 V / 3 A Power Delivery.

\*2 If the KC-52A has been used as a continuous measurement sensor, the one-year warranty cannot be provided.

#### Option



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\* Specifications subject to change without notice.

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3-20-41, Higashimotomachi, Kokubunji,  
Tokyo 185-8533, Japan  
Tel: +81-423-59-7878, Fax: +81-423-59-7445