

Easy Particle Measurement Anywhere Anytime

Handheld Particle Counter **KR-12A** <HHPC-6>



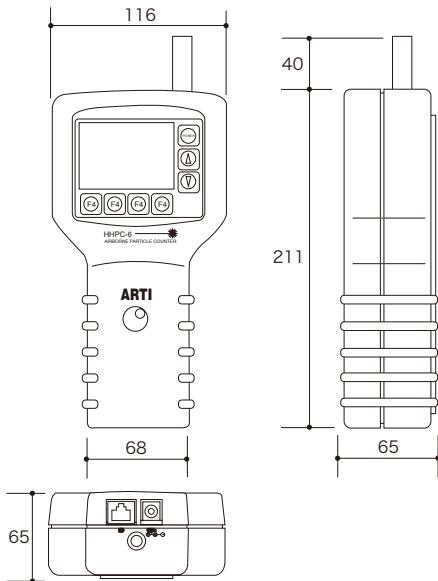
Highly compact, portable unit implements latest DSP technology for versatile functions

- Six particle size channels: $\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 0.7 \mu\text{m}$, $\geq 1.0 \mu\text{m}$, $\geq 2.0 \mu\text{m}$, $\geq 5.0 \mu\text{m}$
- Integrated temperature/humidity sensor (no need for external add-on)
- Flow rate 2.83 L/minute (0.1 CF/minute)
- Rechargeable battery provides up to 8 hours of continuous operation (charge time 2 hours)
- Buffer function allows storing and redisplay of up to 500 measurement data sets
- Supplied utility software for easy data download
- Password protection for measurement settings

Specifications

Optical system	Sideway light-scattering method
Light source	Laser diode (wavelength 790 nm, maximum output 50 mW)
Laser product class	Class 1, IEC 60825-1/EN 60825-1
Light detector	Photodiode
Sample flow rate	2.83 L/min
Particle size (6 channels)	$\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 0.7 \mu\text{m}$, $\geq 1.0 \mu\text{m}$, $\geq 2.0 \mu\text{m}$, $\geq 5.0 \mu\text{m}$
Maximum particle concentration	70 000 particles/L (coincidence loss max. 5 %)
Measurement time	6 s. (0.01 CF), 21 s. (1 L), 1 min. (0.1 CF, 2.83 L), 3 min. 32 s. (10 L), 10 min. (1 CF, 28.3 L), any length (MANUAL), any length (1 s. to 59 min. 59 s.)
Buffer function	Store and recall values for up to 500 measurements
Input/output connector (I/O port, switchable)	Serial interface
Temperature/humidity measurable range	10 °C to 40 °C, 20 % to 90 % RH (approximate)
Power requirements	Built-in battery or AC adapter
Battery	Rechargeable nickel metal hydride (Ni-MH) battery (continuous operation time approx. 8 hours) Charged from supplied AC adapter when power is ON (charge time 2 hours)
AC adapter	Input voltage: 100 to 240 V AC, 50/60 Hz
Dimensions and weight	211(H) x 116(W) x 65(D)mm (excluding protruding parts), approx. 1 kg
Supplied Accessories	AC adapter x 1 1/8 inch tube x 1 Power cord x 1 Carrying case x 1 Modular cable x 1 Utility software x 1 PC connector adapter x 1 Zero count filter x 1 1/8 inch tube joint x 1 Hand strap x 1

External Dimensions (unit : mm)

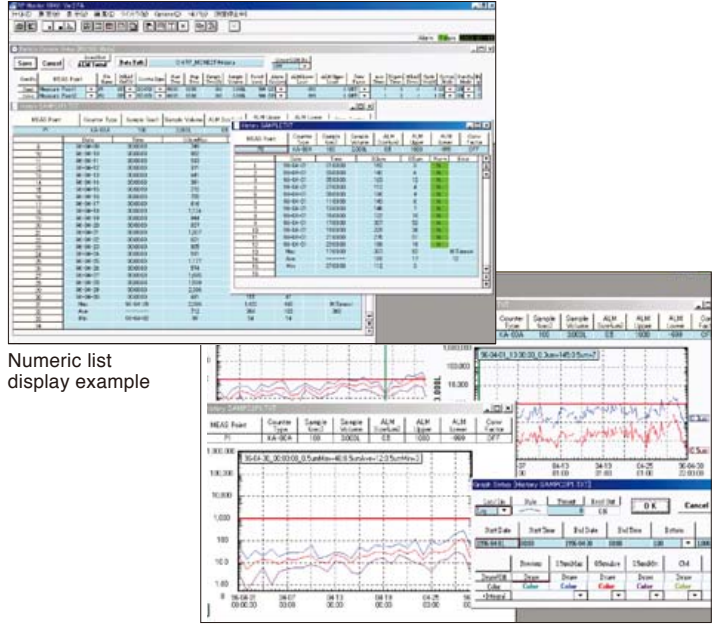


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* Specifications subject to change without notice.

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RP Monitor K9461 Ver.2 option

Allows using a computer for automated particle counter control, data collection, real-time graph display, filing, and printout.



Numeric list display example

Graph display example

- Allows data processing using spreadsheet applications such as Microsoft Excel etc.
 - K9461 Ver.2 Allows one-on-one control of RION particle counter via RS-232C
- Supported operating systems: Microsoft Windows 2000/XP

Printer DPU-414 option

(Seiko Instruments)

For printout of measurement data.
Battery driven operation supported.



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** CALIBRATION ALARM **
** COUNT ALARM **
01/27/2000 10:17:11 AM
Label 2 1 1.0L
Temp. = 64F RH = 42%
>0.3µm 7388 P/L
>0.5µm 332 P/L
>0.7µm 115 P/L
>1.0µm 62 P/L
>2.0µm 32 P/L
>5.0µm 8 P/L
    
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Sample printout

Specifications

Printing principle	Thermal transfer serial dot matrix
Printing width	40 characters
Interface	RS-232C
Power requirements	Supplied AC adapter (100 V to 250 V) or built-in battery operation
Dimensions and weight	66.5 (H) x 160 (W) x 170 (D) mm, approx. 0.7 kg

Options

Printer cable for KR-11/12A	KR121000
Thermal printer paper	TP-14 (6 rolls per pack, roll size 112 mm x 28 m)
Clean printer paper	TP-26 (6 rolls per pack, roll size 112 mm x 25 m)



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ISO 9001 RION CO., LTD.

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