SPECIFICATIONS

PULSE HEIGHT ANALYSIS SOFTWARE

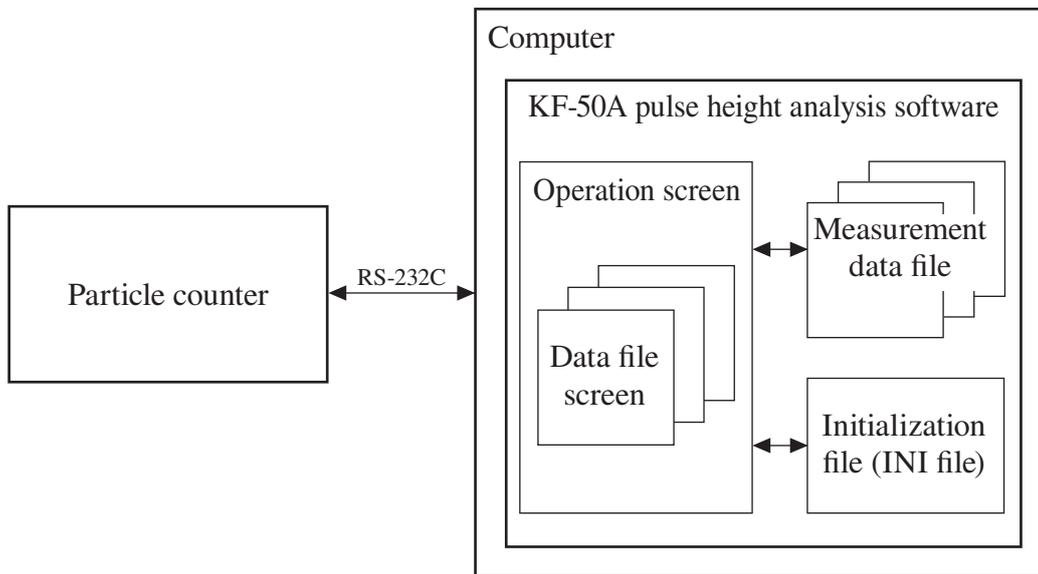## KF-50A

RION CO., LTD.

Outline

The KF-50A Pulse Height Analysis Software is a software that displays the pulse height analysis result of the particle counter with built-in pulse height analysis functionality and operates on the computer. The particle counter performs pulse signal height analysis internally, and the KF-50A software controls measurement and displays measurement results.

The KF-50A software uses a histogram to detect the peak pulse count between selected channels, and to determine the channel where the cumulative count reaches 50% of the total count. Additionally, the noise level of a measurement sample can be measured.

   * All company names and product names mentioned in this specifications are trademarks or registered trademarks of their respective owners.

Block diagram

Specifications

Operating environment

    Main unit   IBM PC/AT compatible computer

    OS   Microsoft Windows 7 Professional 32/64 bit

                             Microsoft Windows 8.1 Pro 32/64 bit

                             Microsoft Windows 10 Pro

    Other   CD drive

                             USB interface × 1

                             Serial interface × 1

Basic operations and functions

    Measurement   Automatic measurement

                           Automatic repeated measurement

                                 Hold interval   2 to 6000 s, 1-s steps

                                 Repeat count   2 to 9999 times, infinite

    Setting items   Analyze range   39063 μV, 78125 μV, 156250 μV,

                                               312500 μV, 625000 μV, 1250000 μV,

                                             2500000 μV, 5000000 μV

                           Pulse height resolution

                                               153 μV, 305 μV, 610 μV, 1221 μV, 2441 μV,

                                               4883 μV, 9766 μV, 19531 μV where each

                                             depend on the selected analyze range

                         Particle size range   1 to 10

                         Measurement end condition

                             Using measurement time

                                       1 to 6000 s, 1-s steps

                           Using total count   1 to 100000, 1-count steps

                         Measurement results storage

                             Manual

                           Automatic (Specified file name saved)

    Display   Graph functions

                           Pulse height (channel) based pulse count histogram

                           Vertical axis full-scale switching (automatic, manual)

                           Vertical axis switching (linear, logarithmic)

                           Measurement time and total count

                           Cumulative percentage curve

                           Marker

                        Numeric list

Functions | Peak search

Cumulative count 50% voltage and standard deviation computation

Smoothing

Voltage to particle size

Comment text input

Screen copy

Measurement results store/read

Measurement results printing

Communication parameters

	Standard	JIS X 5101[-1982] compliant
	Communication method	full duplex, asynchronous
	Port	COM1 to COM256
	Communication speed	4,800 bps, 9,600 bps
	Character length	7 bits, 8 bits
	Parity	odd, even, no parity
	Stop bit	2 bits, 1 bit
	Terminator code	*<CR><LF>*, *<CR>*

Supplied accessories	Protection key	1
	Instruction manual	1
	Inspection certificate	1
Optional accessories	Communication cable	CC-61A
	Communication cable	CC-63A
	Protection key	