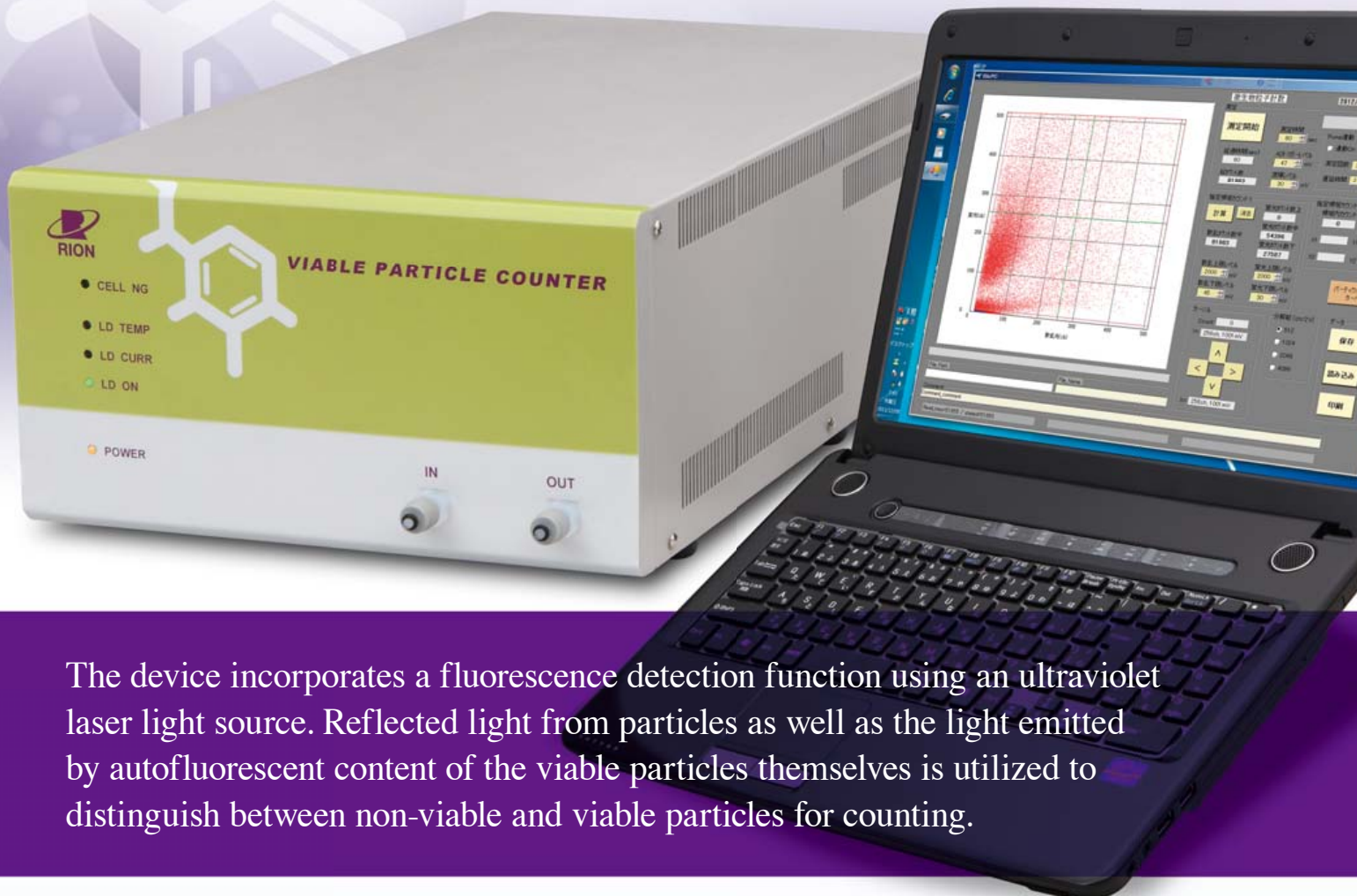




【Liquid-Borne】 Viable Particle Counter

Suitable for screening applications related to foodstuff, drinking water, medical water etc.
Allows real-time measurement without preprocessing of sample

Through the application of liquid-borne particle counter technology, the device allows monitoring the presence of viable particles in real time, simply by passing the sample through the unit.

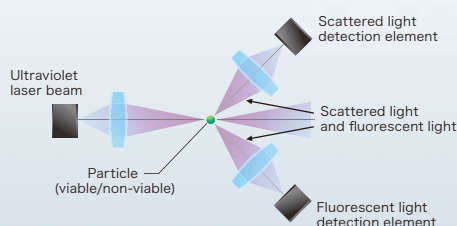


The device incorporates a fluorescence detection function using an ultraviolet laser light source. Reflected light from particles as well as the light emitted by autofluorescent content of the viable particles themselves is utilized to distinguish between non-viable and viable particles for counting.

■ Basic construction principles

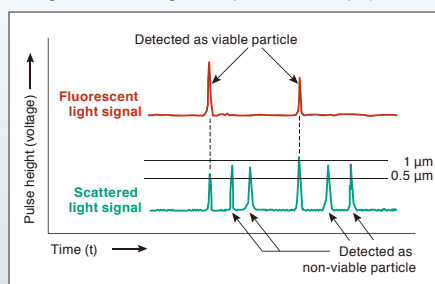
(schematic view)

Particle measurement technology is applied to detect the light produced by the intrinsic fluorescence of biological cells. This allows distinction between viable particles and non-viable particles.



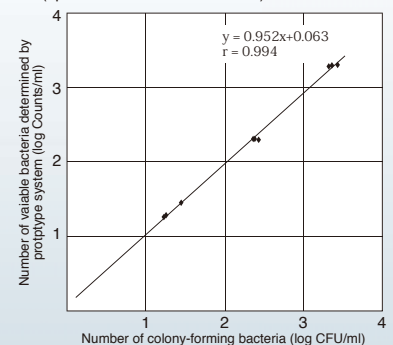
■ Detection principle

(characteristics of signals produced by scattered light/fluorescent light from particles in sample)



■ Data correlated with colony-formation

(spike test for Escherichia coli)



<http://www.rion.co.jp/english/>

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