

# Liquid Particle Counter LE100



LE100 liquid particle counter (updated from model L01A-24) is mainly used for detection of insoluble particles in injection, infusion, sterile powder under USP <788> "Particulate Matter in Injections", and particle contamination detection of infusion equipment, anesthesia equipment, medical packaging materials. It can also be used for particle detection in organic, colored and transparent, oil-based liquid samples.

This instrument complies with USP <788>, USP <789> and other standards. Built-in a variety of testing standards and user-defined standards, it meets testing requirements of the liquid particle pollution in different sectors. The instrument has professional, intelligent service features, with more compatibility and better operability. The LE-Assistant software complies with FDA 21 CFR part 11 "Electronic Records and Signatures". It provides professional paperless print report output, and is equipped with intelligent automatic calibration function.

## Features

- Built-in USP testing standards
- Precision syringe sampling device, accurate sampling volume, stable speed
- Built-in calibration curve, in line with calibration requirements of ISO-21501
- Intelligent automatic detection and automatic calibration function, instrument performance judgment and calibration
- Use of magnetic stirring, stirring speed adjustable
- USB interface direct export data, paperless electronic print report
- Powerful application software development support. Easy to connect to the laboratory information management system etc.
- The LE-Assistant software implements PC control and provides professional data processing
- Compliant with FDA 21 CFR part 11 "Electronic Records and Signatures" and user rating management

## Application

- Injections testing under CP, USP, EP, JP and other standards
- Cleanliness detecting of medical equipment / parts
- Filtration efficiency detection
- Laboratory water testing

# LE100

## Liquid Particle Counter

### Technical parameters

Particle size range	2-100 $\mu\text{m}$
Particle size channel	24
Maximum detection concentration	10000 particles/ml
Accuracy	$\pm 10\%$
Repeatability	RSD<2% (particles>1000 per ml, 5ml sample)
Resolution	<10% (U.S.P, ISO 21501)
Syringe specifications	1ml, 5ml, 10ml*, 25ml
Sampling speed	20 ml/min*
Sample volume accuracy	$\pm 1\%$
Minimum sampling volume	0.2ml**
Sensor material	316 stainless steel, quartz glass, PTFE, NBR
Power supply	AC 100~240V, 50/60HZ
Mixing method	Magnetic stirrer (speed adjustable)
Data output	RS232 port; USB; built-in thermal printer
Display output	7 inch LCD color touch screen
Size	320(L) $\times$ 309(W) $\times$ 394(H) mm
Weight	11.0 kg
Operating environment	Temperature 10-40 $^{\circ}\text{C}$ ; RH 0 ~ 95% non-condensing
Software system	LE-Assistant

\* Standard configuration

\*\* Under 1ml syringe specifications the minimum sampling volume is 0.2ml, under the standard configuration, the minimum sampling volume is 0.4ml