

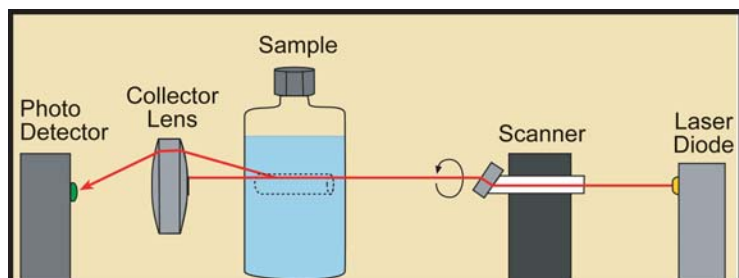
PC-2300 SPECTREX LASER

PORTABLE PARTICLE COUNTER

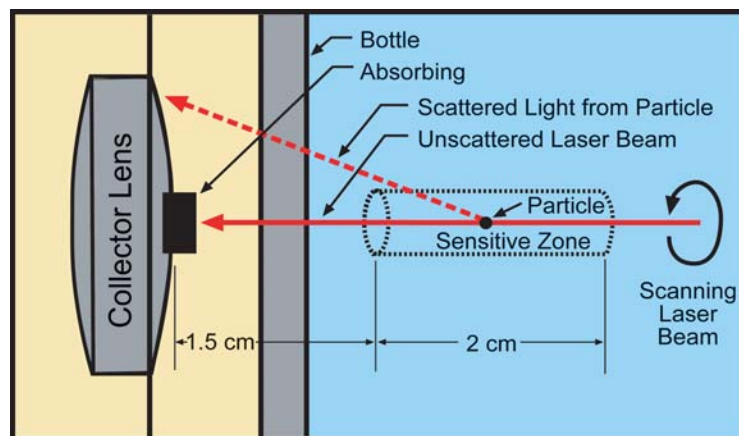
Measures Particle Quantity and Size from 0.5 to 100 μ m diameter.
AC or Battery operated, for both In-situ and Flowing Liquids, oil and water.



PC-2300



Optical Schematic of the Laser Particle Counter



Detailed Laser Optics

FEATURES

- Complete Portability. Use it Anywhere!
- Easy Do-It-Yourself Calibration (sealed standards provided)
- Compact & Rugged (floats)
- Quickly Counts & Sizes (16 seconds min.)
- Custom Easy-to-Use Software
- Eliminates Sample Flushing
- Built in magnetic stirrer

OPERATION THEORY

Utilizing the principle of "near angle light scatter," a revolving laser beam passes through the walls of a glass container or a flow-thru cell. When it is directed through a central "sensitive zone" the PC-2300 not only counts the particles in suspension, but tabulates their size as well. The analog signals generated by the light pulses are routed to a computer and digitized.

CALIBRATION

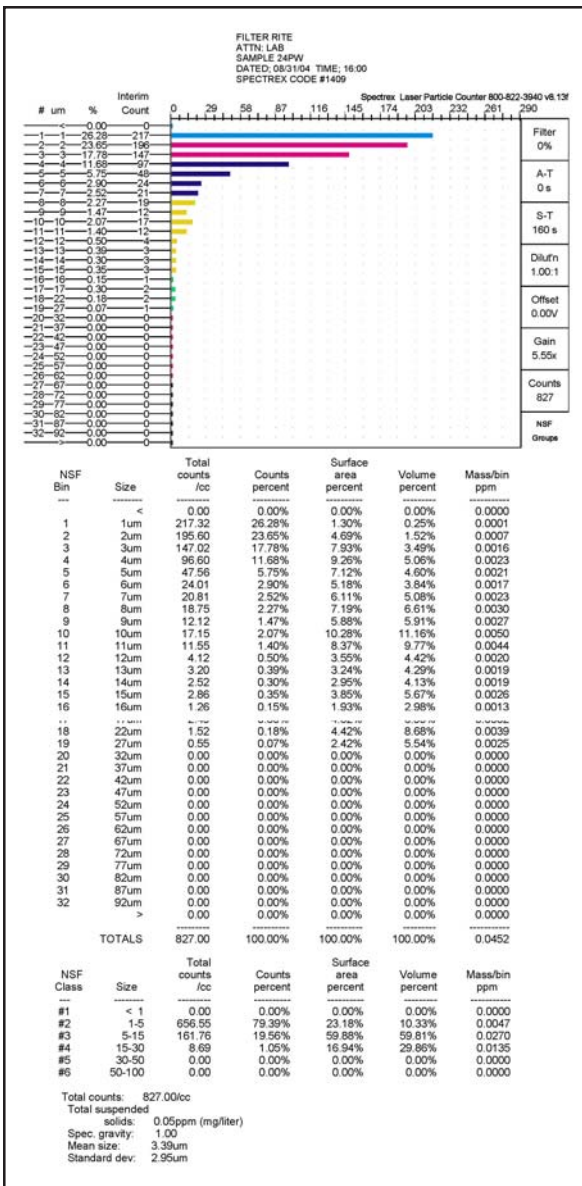
Spectrex provides three sealed calibration standards with each unit. Each standard contains a precise number of NIST traceable polystyrene spheres of known size in suspension and are sealed with inert Argon gas. These standards have a proven stability of more than 2 years and provide efficient calibration within 10 minutes.

APPLICATIONS

- Field Hydrology
- Water Treatment Plants
- Hydraulic Fluids and Oil QC
- Silts and Sediment Sizing
- University Laboratories
- Pharmaceutical Manufacturers
- Oil Refineries and On-site drilling
- Bottling & Beverage Operations
- Oceanographic Studies
- Liquid Chromatography Solvent QC
- Cooling Power and Waste Water Filter Efficiency
- Particle Agglomeration Studies
- Particle Settling Characteristics
- Corrosive Chemical and Solvent Sizing Vial and Ampule Inspection
- De-ionized Water and Acid Testing
- Cell Counting

SPECTREX
CORPORATION

3580 Haven Avenue • Redwood City, California 94063
(650) 365-6567 • (800) 822-3940 • Fax: (650) 365-5845
e-mail: spectrex@spectrex.com • <http://www.spectrex.com>



Sample Print-out



The PC-2300 with Laptop Computer

SuperCount Software

Developed by Spectrex, the custom interfacing electronics and proprietary software provide an easy means of analyzing and saving data generated by the PC-2300. SuperCount® provides instant sizing information and generates a printout with count information and a histogram of size distribution in addition to indicating:

- Absolute Counts
- Mean Size
- Mass Distribution
- Percentage Distribution
- Standard Deviation
- Total Suspended Solids

The dilution factor can be automatically computed to give absolute counts for liquids as dense as sludge! SuperCount® also is loaded with a special bonus program for hydraulic fluids and Phi classifications.

* NAS, SAE, and ISO classifications.

OPTIONS

- **Opacity Meter** - provides an instantaneous measurement of the sample's opacity to correlate with computer calculations.
- **Small Vial Attachment** - For use with 5ml vials or ampules.
- **Flow-Thru Cell** - Spectrex stocks various sizes of flow-thru cells and can manufacture cells to customer specifications. Cells are also available for testing at high pressures and temperatures.

SPECIFICATIONS

Size: 14.5" x 9.5" x 6"

Typical bottle size: 15-60 mm inside diameter

Bottle Material: transparent, scratch-free glass

Weight: 15 lbs

Power: 115v 60Hz AC, 12v car jack or internal battery (battery runtime is 5 hours)

Detectable Particle Size: from 0.5µm - 100µm

ORDERING INFORMATION

Order directly from Spectrex Corporation. Lease-to-buy options and quantity discounts are available.

SuperCount® is a registered trademark of the Spectrex Corporation.

SPECTREX
CORPORATION

3580 Haven Avenue • Redwood City, California 94063
(650) 365-6567 • (800) 822-3940 • Fax: (650) 365-5845
e-mail: spectrex@spectrex.com • <http://www.spectrex.com>