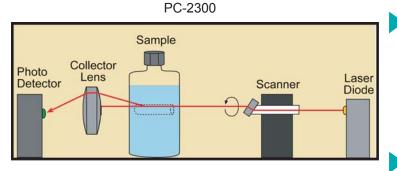
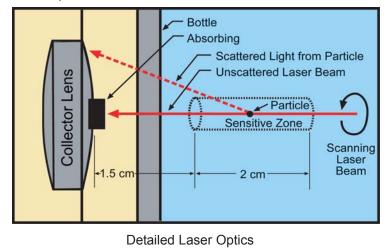


Measures Particle Quantity and Size from 0.5 to $100\mu m$ diameter. AC or Battery operated, for both In-situ and Flowing Liquids, oil and water.





Optical Schematic of the Laser Particle Counter



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

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

			SPECTREX CO	DE #1409			
	Interim 6 Count	0, 1, 29	58 . 87	Spec 116 145	trex Laser Particle 174 203	e Counter 800-822 232 261	-3940 v8. 290
	00-0 28-217 65-196 78-147				_		Filter 0%
-4-4-11 5-5-5-5	78 147 68 97 75 48 90 24 52 21						A-T Os
-10-10-2	27-19 47-12 07-17	=					S-T 160 s
-12-12-0		=					Dilutr
-16-16-0	35 15 130 18 07 1	3					1.00:1 Offse
-20 - 32 - 0							0.00V Gain
21-37-0 22-42-0 23-47-0 24-52-0 25-57-0 26-62-0 27-67-0 28-72-0 29-77-0		1					5.55×
-27-67-0 -28-72-0 -29-77-0 -30-82-0		3					Count 827
-31-87-0		=	3.3.33	8.88.6			NSF Groups
NSF	Size	Total counts	Counts	Surface area percent	Volume	Mass/bin	
			0.00%	********	0.00%	0.0000	
1	1um	0.00 217.32	26.28%	0.00%	0.25%	0.0001	
23	2um 3um	195.60 147.02	23.65% 17.78%	4.69% 7.93%	1.52% 3.49%	0.0007	
4	4um 5um	96.60 47.56	11.68% 5.75%	9.26%	5.06% 4.60%	0.0023 0.0021	
6	6um	24.01	2.90%	7.12% 5.18%	3.84%	0.0017	
7	7um 8um	20.81	2.52%	6.11% 7.19%	5.08%	0.0023	
9	9um	12.12	1.47%	5.88%	5.91%	0.0027	
10	10um 11um	17.15 11.55	2.07%	10.28% 8.37%	11.16% 9.77%	0.0050 0.0044	
12	12um	4.12	0.50%	3.55%	4.42%	0.0020	
13 14	13um 14um	3.20 2.52	0.39%	3.24% 2.95%	4.29%	0.0019 0.0019	
15	15um	2.86	0.35%	3.85%	5.67%	0.0026	
16	16um	1.26	0.15%	1.93%	2.98%	0.0013	
18	22um	1.52	0.18%	4.42%	8.68%	0.0039	
19 20	27um 32um	0.55	0.07%	2.42%	5.54%	0.0025	
21	37um	0.00	0.00%	0.00%	0.00%	0.0000	
22 23	42um 47um	0.00	0.00%	0.00%	0.00%	0.0000	
24 25	52um	0.00	0.00%	0.00%	0.00%	0.0000	
25	5/um 62um	0.00	0.00%	0.00%	0.00%	0.0000	
27	67um	0.00	0.00%	0.00%	0.00%	0.0000	
28 29	72um 77um	0.00	0.00%	0.00%	0.00%	0.0000	
30	82um	0.00	0.00%	0.00%	0.00%	0.0000	
31 32	87um 92um	0.00	0.00%	0.00%	0.00%	0.0000	
	>	0.00	0.00%	0.00%	0.00%	0.0000	
	TOTALS	827.00	100.00%	100.00%	100.00%	0.0452	
NSF Class	Size	Total counts /cc	Counts	Surface area percent	Volume percent	Mass/bin ppm	
#1	< 1	0.00	0.00%	0.00%	0.00%	0.0000	
#2	1-5	656,55	79.39%	23.18%	10.33%	0.0047	
#3	5-15 15-30	161.76	19.56%	59.88% 16.94%	59.81% 29.86%	0.0270 0.0135	
#5	30-50	0.00	0.00%	0.00%	0.00%	0.0000	
#6	50-100	0.00	0.00%	0.00%	0.00%	0.0000	
Total o	suspended	27.00/cc 0.05ppm (mg/li					

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.



CORPORATION

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