

VPC300 Video Particle Counter with built-in Camera



Particle Counter with unique built-in camera for capturing videos and photos that are stored onto internal memory or a microSD card. The VPC300 can measure up to 6 channels of particle sizes plus Air Temperature and Relative Humidity. Use the included software to generate reports with videos, photos, and data points.

Environments Prone to Airborne Particulates:

- Diesel vehicle transportation & service depots
- Power generation (fossil fuel burning)
- Traffic-related emissions
- Charcoal-based heating/cooking
- Cement manufacturing, mining, & stone crushing
- Metallurgy processes (melting, pouring, torch-cutting)
- Agroindustrial (flour milling & agricultural field burning)

Features

- Simultaneously measure and display 6 channels of particle sizes (down to 0.3 μm), Air Temperature, Humidity, Dew Point and Wet Bulb
- 2.8" TFT Color LCD display
- Built-in 320x240-pixel camera takes videos (3GP) and photo images (JPEG) and records them in internal 74MB memory
- Store 5000 records (date, time, counts, humidity, temperature, sample volumes, and location label) and 20 minutes of video
- Selectable sample time, count data, and programmable delay
- Max, Min, DIF, AVG record, Date/time setup controls
- Auto Power Off
- Language selection: English, French, German, Spanish
- Meter is NIST calibrated
- Tripod mount for continuous recording
- Mini-USB port connection
- microSD card slot in battery compartment (memory card not included; max size 8GB)
- Complete with NIST-traceable calibration certificate, Universal AC Adapter/Charger with multiple plugs, USB cable, PC software, tripod, filter, 7.4V NiMH battery and hard case

Specifications

Channel of Particle Sizes	0.3, 0.5, 1.0, 2.5, 5.0, 10 μm
Flow Rate	0.1ft ³ (2.83L/min) controlled by internal pump
Count Modes	Cumulative, Differential, Concentration
Counting Efficiency	50% @ 0.3 μm ; 100% for particles>0.45
Coincidence Loss	5% @ 2,000,000 particles per ft ³
Air Temperature	-14 to 140°F (-25 to 60°C); Accuracy: $\pm 2^\circ\text{F}/1^\circ\text{C}$
Relative Humidity	0 to 100%RH; Accuracy: $\pm 3\%RH$ (40% to 60%RH)
Dew Point/ Wet Bulb	32 to 122°F (0 to 50°C)
Dimensions/Weight	9.4 x 3 x 2.2" (240 x 75 x 57mm)/1.26lbs (570g)

Ordering

VPC300..... Video Particle Counter



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