

CS 525 Portable Particle Counter



Features

- Measures 6 channels of particle sizes from 0.3 ... 10 μm
- Measures air temperature and humidity
- Measures in ambient conditions and pressurized gases
- High pressure diffuser for pressurized gases
- MAX, MIN, DIF, AVG record, Date/time setup controls
- 2.8" TFT Color LCD display, 320*240 pixels
- Can save Images (JPEG) & Video(3GP)
- Micro SD memory card
- Auto Power Off
- Easy operation
- USB Interface

CS 525 is a new generation portable particle counter from CS-ITEC which combines measurement technology with a state-of-the-art user interface design. Particle concentrations in ambient (clean rooms) and in compressed air/gases (through a high pressure diffuser) can be counted and classified in up to 6 particle sizes from 0.3 μm to 10 μm .

As pollution is effecting the health of many people, this instrument can also be used to detect the concentration level of dust particles in air by indicating green (clean air), yellow and red (dangerous pollution) warning levels.

Besides the particle concentration also ambient humidity and temperature is measured with high accuracy.

The integrated camera allows snap shots of the measurement location or even video. Pictures and videos are stored on the SD card.

Technical Data CS 525

Particle Counter

Channels	0.3,0.5,1.0,2.5,5.0,10 μ m
Flow Rate	0.1ft ³ (2.83L/min)
Counting Efficiency	50% @ 0.3 μ m; 100 % for particles > 0.45 μ m
Coincidence Loss	5% at 2,000,000 particles per ft ³
Data Storage	5000 sample records (MicroSD card)
Count Modes	Cumulative, Differential, Concentration

Air temperature and humidity

Air Temperature Range	0°C to 50°C
Dew point Range	0°C to 50°C
Relative Humidity Range	0% to 50%
Air temperature Accuracy	$\pm 0.5^\circ\text{C}$ from 10°C to 40°C, $\pm 1.0^\circ\text{C}$ others
Dew point temp. Accuracy	$\pm 0.5^\circ\text{C}$ from 10°C to 40°C, $\pm 1.0^\circ\text{C}$ others
Relative Hum. Accuracy	$\pm 3\%$ 40% to 60% $\pm 3.5\%$ 20% to 40% and 60% to 80% $\pm 5\%$ 0% to 20% and 80% to 100%

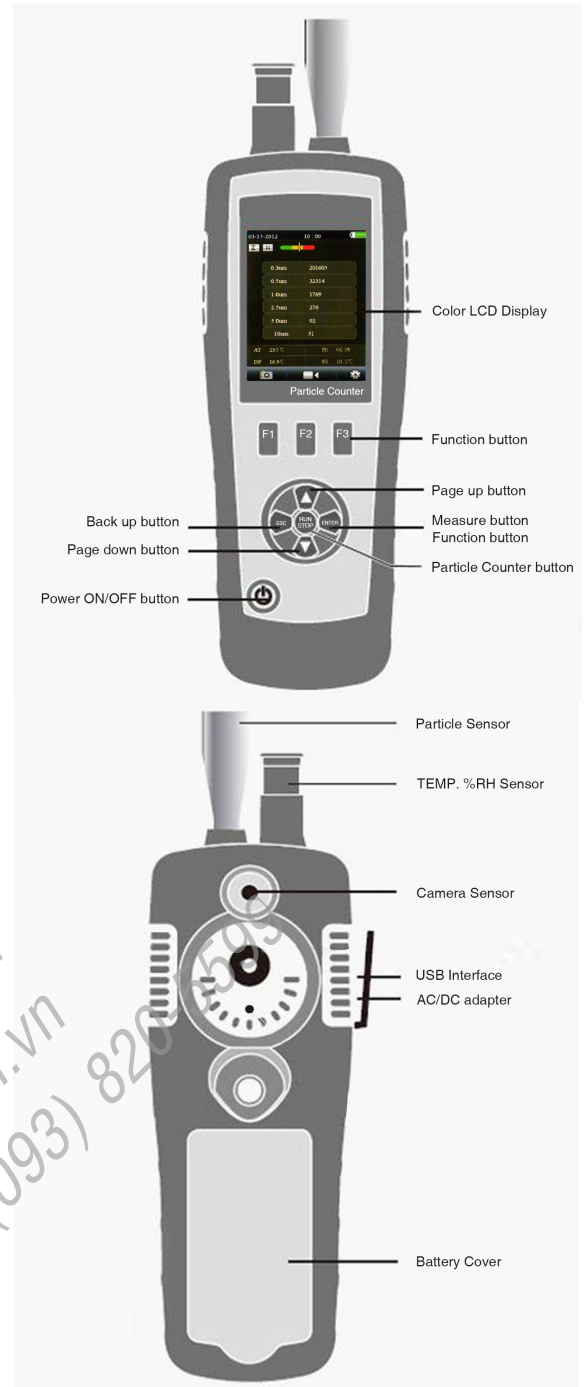
Other specs

Operating Temperature	0°C to 50°C
Storage Temperature	-10°C to 60°C
Relative Humidity	-10% to 90 %, non condensing
Display	2.8", 320*240 Color LCD with backlight
Battery	Rechargeable battery
Battery Life	About 4 hours continuous use
Battery Charge Time	About 2 hours with AC adapter

Order no.

Description

0601 0525	Particle counter set CS 525, consisting of: instrument CS 525, isokinetic sampling tube, high pressure diffuser, charger, SD card, transport case
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