

The Tekneka PC585 is a 6-in-1 environmental monitoring device that combines particle counting, gas detection (HCHO, TVOC, CO₂), air temperature, humidity, surface temperature, and dew point measurement. It features a 2.8" color TFT LCD for clear real-time data display and user-friendly operation. A built-in microSD card slot allows capturing and storing images (JPEG) and videos (3GP) for later viewing on a PC. The device delivers fast, accurate readings, making it ideal for air quality assessments and environmental monitoring. Dew point tracking supports effective moisture analysis for both wet and dry conditions. All recorded data can be reviewed and analyzed using PC software, ensuring reliable documentation and reporting.

Features

- Display: 2.8" color TFT LCD with 320 x 240 resolution for real-time measurement viewing
- Particle Counter: Measures six particle sizes (0.3, 0.5, 1.0, 2.5, 5.0, 10µm) with PM2.5 and PM10 concentration analysis
- Gas Detection: Built-in sensors for HCHO, TVOC, and CO₂ monitoring
- Environmental Sensors: Measures air temperature, relative humidity, dew point, and wet bulb temperature
- Image & Video Capture: Supports JPEG image and 3GP video recording with microSD card storage (up to 8GB)
- Data Storage: Saves up to 5000 sample records, data can be transferred to PC via USB for analysis
- Measurement Modes: Cumulative, differential, and concentration modes available
- Alarms & Statistics: Includes user-defined alarm limits and MAX, MIN, AVG, DIF display options
- Power: Rechargeable battery with 4 hours of continuous use and 2 hours charge time
- Extra Functions: Auto power-off, display timeout, and date/time settings for convenience

Applications

Tekneka PC585 video particle counter is used to assess indoor air quality in homes, offices, schools, and construction sites, sterility in pharmaceutical manufacturing, semiconductor fabrication, biotechnology industries, food and beverage industries, and clean air research centres.

Technical Specifications

	Range	Mass Concentration
Particle Counter	2.5µm	0 ~ 2000µg/m³
	10µm	0 ~ 2000µg/m³
Channels	0.3, 0.5, 1.0, 2.5, 10µm	
Flow Rate	0.1ft³	
Counting Efficiency	50% @ 0.3µm; 100% for particles >0.45µm	
Coincidence Loss	5% @ 2000000 particles/ft³	
Count Mode	Cumulative, Differential, Concentration	

Package Includes

- Zero Filter
 - Battery
 - USB Cable
 - 9V Charger
 - Tripod
 - User Manual
- 8GB MicroSD with Card Reader
 - Particle Sensor Cap
 - O-rings



Ordering Info.

PC585..... Video Particle Counter



	Range	Accuracy
HCHO	0.01 ~ 5.00PPM	±5%F.S
TVOC	0.01 ~ 9.99PPM	±5%F.S
CO ₂	0 ~ 9999PPM	±5% ± 75PPM
Temperature	0 ~ 50.0°C	±0.1°C(@ 0 ~ 10°C) ±0.5°C (others)
Dew Point		
Wet Bulb		
Humidity	0 ~ 100%RH	±3%RH (@ 40% ~ 60%) ±3.5%RH (@ 20% ~ 40%; 60% ~ 80%) ±5%RH (@ 0% ~ 20%; 80% ~100%)

General Specifications	
Display	2.8" color TFT LCD
Data Storage	5000 sample (SD Card)
Video/CAM Mode	Yes
Battery	1200mAh, 7.4V
Operating Temperature	0 ~ 50°C
Power Supply	9V, 1.5A
Dimension	240 x 75 x 57mm/380 x 285 x 105cm
Weight	Net: 570g/Gross: 2.2kg