

Portable medium and long range Laser Anemometer

Portable medium and long range laser anemometer. By detecting Doppler frequency shift of motion of aerosol particle in the wind reacting to the back scattering laser and by scanning inversion algorithm, it acquire the 3D vector distribution in the measuring area.

It has the “clear sky” detecting ability, high space resolution and time resolution. The device is significant to numerical weather prediction, meteorological support and aviation security warnings.

Main technical index:

Operating wavelength: 1550nm

Wind speed measuring range: 1~50m/s;

Wind speed measuring accuracy: ≤ 0.5 m/s;

Wind direction measuring accuracy: $\leq 10^\circ$

Height measuring range: 50m~2000m;

Range resolution: 50m

Weight: ~25kg;

Power supply: 24VDC;

Power consumption: ≤ 200 W;

Operating temperature: $-25^\circ\text{C}\sim+50^\circ\text{C}$;

Humidity: 10%RH~100%RH;

Altitude: ≤ 4500 m;

Operating mode: Unattended and continuous working