



Stratosphere Wind Profile Radar

The stratospheric wind profile radar adopts solid-state active phased-array, digital receiver and other advanced technological elements such as atmospheric horizontal wind velocity and direction, vertical movement and refractive index (Cn2) of atmospheric structure with the height from 1.5km to 23km. This radar has characteristics such as high data acquisition rate, high reliability and unattended mode.

Main Technical Specification

<i>Frequency</i>	<i>48MHz / 918MHz</i>
<i>Wind detection altitude</i>	<i>2.5km~23km</i>
<i>Wind speed detection range</i>	<i>≥80 m/s(horizontal)/ ±24 m/s (vertical)</i>
<i>Altitude resolution</i>	<i>150m, 300m</i>
<i>Wind detection accuracy</i>	<i>Wind speed: 1 m/s(horizontal)/0.25 m/s(vertical) Wind direction:10°</i>
<i>Antenna type</i>	<i>CO-CO antenna 10000 m2 / planer antenna 4 m2</i>
<i>Tx power</i>	<i>21 kW(peak, VHF)/1.4 kW(peak, UHF)</i>
<i>Output one group of wind profile</i>	<i>≤10 minutes</i>