



Troposphere Wind Profiler Radar

The system is a Doppler, steerable beam, wind profile radar, solid-state transmitter, that reliably provides continuous and real-time vertical profile of horizontal wind speed and direction, horizontal wind components, and vertical velocity from 150m up to 16km above ground level (a g l) in unattended operation. This system can be extended by adding an optional radio acoustic sounding system (RASS)

Main technical specification

<i>Model</i>	<i>8Km troposphere wind profile radar</i>	<i>16Km troposphere wind profile radar</i>
<i>Detection range</i>	<i>Maximum detection Height: 5Km~8Km</i>	<i>Maximum detection Height: 12Km~16Km</i>
	<i>Minimum detection Height: 150/180m (decided by the resolution)</i>	<i>Minimum detection Height:300m</i>
	<i>Wind direction:0~360°</i>	<i>Wind direction:0~360°</i>
	<i>Wind speed:0m/s~80m/s</i>	<i>Wind speed: 0m/s~80m/s</i>
<i>Detection accuracy (RMS)</i>	<i>Wind direction:≤10°</i>	<i>Wind direction:≤10°</i>
	<i>Horizontal wind speed:≤1m/s</i>	<i>Horizontal wind speed:≤1m/s</i>
<i>Operating frequency</i>	<i>P band</i>	<i>P band</i>
<i>Antenna size</i>	<i>Half- wave dipole linear array 8mx 8m</i>	<i>Half-wave dipole linear array 10mx 10m</i>
<i>Mounting type</i>	<i>Fixed type</i>	<i>Fixed type</i>