



C-BAND WEATHER RADAR

The C-band dual polarization full coherent weather radar is a new generation weather radar of China, which is a version with addition of dual polarization function based on the Doppler weather radar. It has two operation modes, one is the dual line polarization transmit/ receive mode, the other is the horizontal linear transmit and dual linear polarization receive mode. The radar is used for application in weather, weather artificial intervention, water conservancy, aviation, military and scientific research sectors.

Technical Specification

• Operation frequency	5300~5700MHz
• Intensity monitoring range	≥ 400km
• Intensity measuring range	≥200km
• Velocity monitoring range	≥150km
• Dual polarization monitoring range	≥200km
• Azimuth scanning	0°~360°
• Elevation scanning	-2°~90°
• Positioning accuracy 0.1°(azimuth and elevation)	
• Parameter measuring range	
Intensity	-10 ~+70dBz
Velocity	±41m/s
Spectrum width	12m/s
• Parameter measuring accuracy	
Intensity	1dBz
Velocity	1m/s
Spectrum width	1m/s
Differential reflectivity factor (ZDR)	0.2dB
Differential spreading phase shift (K d p)	0.2°/km
Correlation variable (phv)	0.01
Linear depolarization ratio (LDR)	1dB
• Radar system phase stability	≤0.3°
Clutter cancellation capability	30~50dB