Antenna	30" System	6.33' HGA System		8.33' HGA System	
Size	30" Diameter	76" Diameter		100" Diameter	
Weight	6 lbs. maximum	29 lbs.		47 lbs.	
Antenna Type	Phased Array Flat Plate	Parabolic dish with linear horizontally polarized feed		Parabolic dish with linear horizontally polarized feed	
Beam Width	5.4 degrees (Nominal)	2.1 degrees maximum		1.7 degrees maximum	
Gain	30.5 dB	38 dB minimum		40 dB minimum	
1st Side Lobe	-25 dB maximum	-25 dB maximum		-25 dB maximum	
13t Side Lobe	referenced to main lobe	referenced to ma	in lobe	referenced to main lobe	
Antenna Pedestal	30" System	6.33' and 8.33'			
Size (Extended)	23.5" high, 9.75" wide, 16.75" o			5" wide, 16.75" deep	
Weight	35 lbs. maximum	59 lbs. maximu			
Operating Temp.	+5 to +131 degrees F	+5 to +131 deg		rees F	
Input Power	115V, 60Hz	115V, 60Hz			
Azimuth Scan Range	360 degrees	360 degrees			
Elevation Scan Range	-2 to +60 degrees	-2 to +60 degre			
Scan Rate	1.87 , 3.75 , 7.5 RPM	.93 , 1.87 , 3.7			
Scan Modes	Automatic, Sector, and RHI	Automatic, Sect		tor, and RHI	
Receiver/Transmitter WRT-701C	For All Systems 7.72" high 10.27" wide 15.03" doop				
Size	7.72" high, 10.27" wide, 15.03" deep 30 lbs. maximum				
Weight Storage Temperature					
Storage Temperature Operating Temperature	-67 to +185 degrees F +5 to +131 degrees F				
Input Power	115V, 400 Hz, single phase 300 watts dissipated power				
Cooling	Provided by mount				
Signal Processor	Pulse Pair				
Ground Clutter Suppression	Based on pulse-to-pulse amplitude signature recognition of Doppler spectrum width				
Max. Theoretical Precipitation Detection	320 Nautical Miles (368.2 Statute/593 km)				
Max. Doppler Turbulence	50 Nautical Miles (57.5 Statute/93 km)				
Mean Velocity Range	50 Nautical Miles (57.5 Statute/93 km)				
Precipitation Detection	5 Calibrated Levels: 20, 30, 40, 45, 50. (Window of 30 dBZ from a range of 60 dBZ) *				
	Pulse Pair Variances: turbulence 5-12 meters per second (m/s) in 1 m/s increments. 4 bit mean				
Doppler Detection	velocity +/- 20 m/s in 2.5 m/s increments (15 levels) (Optional w/-405 R/T)				
Operating Frequency	5.44 GHz (Dual Crystal Control)				
Output Power	200 watts peak (nominal)				
Pulse Repetition Frequency	181/362 precipitation, 1448 Doppler Modes				
Pulse Width	2 to 20 microseconds, variable with selected ranges				
Safety Rating (maximum exposure)	30" < 2 mw/cm <sup>2</sup> ; 6.33' HGA < 0.4 mw/cm <sup>2</sup> ; 8.33' HGA < 0.23 mw/cm <sup>2</sup>				
Noise Figure	<5.0 dB Variable with Bules Width				
Bandwidth	Variable with Pulse Width				
Sensitivity	-125 dBm (minimum discernable signal at 20 microseconds pulse width)				
IF Response	Linear For All Systems				
R/T Mount	12.6" high, 10.3" wide, 17.5" deep				
Size Weight	<u> </u>	4 lbs. maximum			
Weight Input Power	115V, 60 Hz for cooling fan 115 CFM				
Frequency Converter 500C	For All Systems				
Power Output	500VA				
Output Voltages	115 Nominal				
Output Frequency	400 Hz fixed				
Radome		8' Radome		10' Radome	
Tiadonic	41.25" high	89" high		115" high	
		Inner Diameter: 97"		Inner Diameter: 126"	
Size	Outer Diameter: 39.5"	Outer Diameter: 99		Outer Diameter: 128"	
	Radius: 19.75"	Radius: 49.5"		Radius: 64"	
Weight		225 lbs. (approximately)		300 lbs. (approximately)	
Riser	N/A	6" high		N/A	
Opening		60" inner diameter		77.7" inner diameter	
Door	N/A	34" x 31"		34" x 31"	
Paint	Linear White High Gloss Gelcoat	Linear White High Gloss Gelcoat Linear White High Gloss Gelcoat			
One way transmission loss	Not greater than .5 dB				