DopplerTech Inc. Radars Antenna Patterns/Pedestal Descriptions

Raptor 450

Antenna:

Size	1.2 m
Polarization	Vertical
Gain	38.5 dBi
Beamwidth (3dB)	2 degrees

Transmitter:

Power	450 watts
Duty cycle	Continuous (CW)
Modulation	None
Frequency	10.0 GHz

Pedestal

Tracking

Azimuth coverage	360 degrees
Elevation coverage	-15 - 90 degrees

Raptor 80

Antenna:

Size	0.91 m
Polarization	Vertical
Gain	36.5 dBi
Beamwidth (3dB)	2.2 degrees

Transmitter:

Power	80 watts
Duty cycle	Continuous (CW)
Modulation	None
Frequency	10.1 GHz

Pedestal

Tracking

Azimuth coverage	360 degrees
Elevation coverage	-20 - 200 degrees

Both radars will be operated in the “fixed” stare mode for this operation (not tracking), and will both be at elevation angles below 0 degrees. Both systems will be pointed in azimuth at the end of the Holloman AFB Test track.