

**Model RPD3-33-N**

**Portable Dual Linear Polarized 3 ft. S-band Antenna System**

The photo below depicts the mWAVE Industries, LLC model RPD3-33-N, portable dual linear polarized 3 ft. diameter S-band antenna system supplied to the U.S. Military. The antenna system incorporates a heavy-duty tripod and geared head providing 360° continuous azimuth rotation and -10° to +60° elevation adjustment. It also incorporates a high-power optical scope to facilitate boresight alignment of the antenna at range distances up to 2 km line-of-sight. Scope alignment was performed on mWAVE's outdoor antenna test range. The optical boresight of the scope parallels the electrical boresight of the antenna to facilitate range independent target acquisition. The antenna system also includes two 3 meter flexible hard-armored coaxial cable assemblies (not shown). The RF input consists of two Type-N coaxial connectors. Power handling for Model RPD3-33-N is 350W CW. A high power version is available with waveguide inputs. An expanded band version operating from 2.60- 3.95 GHz is also available. Additional components (i.e. polarizer, filters, switches, etc.) can be added to the antenna feed system to satisfy custom requirements. Alternate reflector sizes are available to support both low and high gain microwave communication applications.



**Performance Specifications**

Frequency (GHz)	Gain (dBil)	HPBW (deg.)	On-Axis Cross Polarization (dB)	F/B (dB)	Port-to-Port Isolation (dB)
2.8 – 3.8	25.6	7.5	35	40	35

*Please contact mWAVE Industries, LLC with your antenna requirements to see how we can be of service.  
We welcome your inquiry and look forward to becoming one of your trusted partners.*