



## Long Range Tracking Antenna System



The Marcus UAV Corp. Long Range Tracking Antenna System is designed to provide the ultimate in long range. Enabling reliable, high quality video and telemetry delivery between your UAV and the ground control station.

Our long range tracking antenna has demonstrated the ability to provide quality real-time video at a range of up to 30 miles. Using telemetry data transmitted from the UAV the parabolic dish antenna automatically points to the Unmanned Aircraft wherever it is in the sky. A diversity receiver and omnidirectional antenna provide a failsafe for the video signal.

Tracking antenna is designed for high wind loading the pan/tilt are secured to an extremely sturdy and rugged tripod. The tripod elevates to about six feet for operation and collapses to less than three feet for easy transport. . Antenna tracker hardware includes antenna array, pan tilt setup, pan tilt controller, heavy duty tripod and all necessary cables and software for operation.

Antenna can be configured to meet a number of frequency requirements. Quick setup in less then 5 minutes.

### Specifications:

- Autonomously points antenna array at unmanned aircraft using telemetry data coming from the UAV
- Up to 30 Mile range Line of Sight
- 360° Pan, 90° Tilt, Autonomous tracking of unmanned aircraft
- Supports antennas for both video and telemetry
- Heavy duty tripod extends to 6 feet.
- Quick release construction allows for expedient assembly and disassembly without the need for tools.
- Includes all cables necessary for operation
- Optional encrypted digital data link
- Includes control software
- Operates from included 11.1V 2100 mah Lithium Ion Polymer battery

### System Includes:

- Lightweight black aluminum tripod
- Heavy Duty Pan & Tilt Motor System
- Ground control software
- Technical support
- (2) 8 Meter USB cables
- 8 Meter Audio/Video cable
- Option 1:  
2.4Ghz 24 dbi parabolic grid dish antenna, 10 dbi 2.4Ghz Omnidirectional antenna & diversity video receiver, 900 Mhz 9 dbi yagi antenna & radio modem, cables, battery
- Option 2:  
5.8Ghz 27 dbi parabolic grid dish antenna, 12 dbi 5.8Ghz Omnidirectional antenna & diversity video receiver, 900 Mhz 8 dbi yagi antenna & radio modem, cables, battery