

Tracking Antenna Automatic

The automatic tracking antenna (ATA) system is a self contained, high gain, automated system, which allows long range reception of the Manta Unmanned Aircraft (UA) payload imagery. The ATA system interfaces directly with the iGCS (Integrated Ground Control Station), which provides telemetry data in real time for dish pointing. The system also includes a digital compass for quick setup and calibration. It's transported in two (2) small transport cases and can be assembled and operational by one (1) person in less than five (5) minutes.

The ATA is typically used in mission scenarios where the expected range will be in excess of 7 nautical miles. If the expected mission is inside of a 7nm radius, the short range antenna mast on the iGCS will be sufficient for video reception.

The ATA is constructed of lightweight, non-corrosive materials and the metallic grid dish has a low wind loading factor. The tripod includes integral stake down points to ensure trouble free operations in high wind conditions.



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SPECIFICATIONS

- Uses UAV telemetry data to accurately point at UA
- 20 nm, LOS range (with 5 watt transmitter in UA)
- Tracks UA 360° horizontally and 180° vertically
- Comes standard with rugged transport cases
- Raises to a maximum height of 2.3 meters (7.5 feet)
- No tools needed for assembly and disassembly
- Pan speed 35 degrees per second
- Pointing accuracy: 0.1 degrees
- Mil Spec connectors
- Compatible with iGCS and iMission
- Operates on Windows XP
 - Includes control software
- Operates from a single BA5590 battery
- Optional pointing via NMEA GPS stream

PACKAGE INCLUDES

- Dish antenna: S-Band or L-Band
- Pan-tilt positioner and tripod assembly
- Control Software
- Rugged transport cases
- Video, drive and power cables



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