

# GTA-17/58

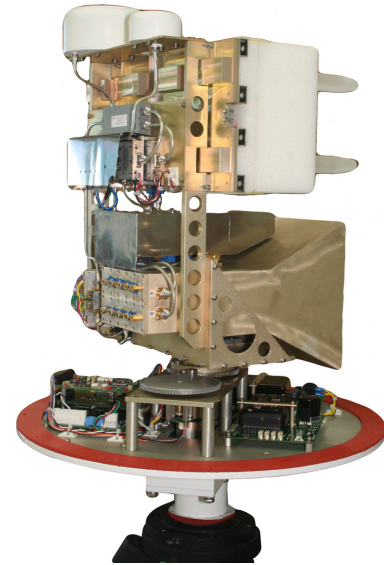
## Mobile GPS/RF Tracking Antenna

### > Applications

- Public Safety
- Military
- Government Surveillance
- UAV

### > Benefits

- Designed for Use with Customer Supplied Receivers and Laptop PC
- Automatically Tracks Aircraft Using GPS Data or via RF Auto-Track
- Self Calibrating
- Secondary "Up-look" Antennas for Overhead Coverage
- Easy to Use
- Compact Size



### > Features

The quad band GTA-17/58 antenna is designed to track a signal source either from GPS data or by locking onto the RF signal. The GTA-17/58 is to be used with a receiver (not supplied), RF cable (not supplied), and controlled by a Windows® PC (not supplied). The GTA-17/58 antenna comes with Multi-Control Point™ software and a control cable. The GTA-17/58 antenna needs to operate outdoors with an unobstructed view of the horizon.

The GTA-17/58 is enclosed in a radome which includes a GPS receiver/antenna, flux gate compass, steerable microwave antennas and two uplook microwave antennas. The steerable microwave antenna tracks continuously in 360° Azimuth. The fairly narrow beam width has much higher gain which results in increased range and needs to be pointed toward the aircraft for optimum performance. The uplook microwave antenna is omnidirectional, but is optimized for nearby operation (½ mile or less) and is used when the aircraft is at close range or directly overhead. The GTA-17/58 may be tripod mounted or mast mounted for portable applications.

Multi-Control Point™ software is the user interface for the GTA-17/58. Multi-Control Point software displays direction to the aircraft being tracked and tracking status. The antenna may be manually steered from the software, or automatic tracking may be selected. Antenna selection (uplook or steerable) may be made manually or under automatic control.

The control PC requires a serial port, a USB-to-Serial adapter and an Ethernet connector.

> Specifications

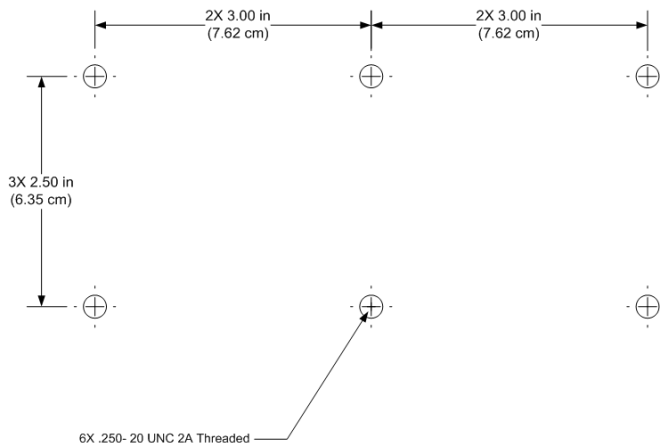
Options	
Antenna Transportation Case	
BTA-170 Medium Duty Tripod	
Tripod Transportation Case	
Nycoil™ Spiral Conduit With Cable For Use With Telescoping Mast	
Remote Control Panel via RS-232 to Customers Laptop	

Connectors	
RF	Type N (f)
Control	Mates with PT06E-22-32S (SR)
Ethernet	

Size	18" Diameter x 22" High (45.72 x 55.88 cm)
Weight	23 lbs Typical (10.43 kg)
Voltage Required	28 VDC 2A
Operating Temp	-20 - +60° C
Wind Load	90 MPH Operate; 90 MPH Survive

	Primary	Uplook
Travel	360° Azimuth Continuous Rotation	n/a
Tracking Rate	20%/ Second	n/a
Polarity	Vertical	Right Hand Circular
Gain	(see below)	9 dBi
Beamwidth	(see below)	AZ = 90°; EL = 90°

	L-Band	S-Band	Low C Band	High C Band
Frequency Range	1710–1850 MHz	2200–2500 MHz	4400–5000 MHz	5250–5850 MHz
Return Loss	> 14 dB	> 14 dB	> 14 dB	> 14 dB
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Connector	N – female	N – female	N – female	N – female
Gain	12 dB	14 dB	21 dB	24 dB
Beamwidth	AZ 27°, EL 60°	AZ 24°, EL 40°	AZ <10°, EL 20°	AZ <8°, EL 15°



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