APRS AND TRACKING

How to follow the balloon after it can't be seen

*<u>Byonics MicroTrak</u>

-need ham radio license (call sign programmed into device on ordering)

*Spot tracker

(Care is needed to prevent the GPS antenna from being blocked by other items in the payload from "seeing" the GPS satellites in orbit.)





MT-1000 HAB Combo

"This package includes the 1.7 Watt tracking transmitter with a high altitude GPS (Most GPS receivers are capped at 60,000 feet to keep us from building our own cruise missiles, ours is good into space) and a half-wave dipole antenna with cable. It operates from 3 AA batteries. I recommend only Energizer "Ultimate Lithium" batteries for HAB operations." Allen Lord, Byonics.



Quantity	Item	Price	Total	
	MT-1000 HAB Combo	\$220.00	\$220.00	
	AIO USB Cable	\$20.00	\$20.00	
Sub Total			\$240.00	
Shipping To:United StatesCanadaInternational				
Shipping:USPS Priority MailUSPS Express Mail \$8.0			\$8.00	
Total			\$248.00	

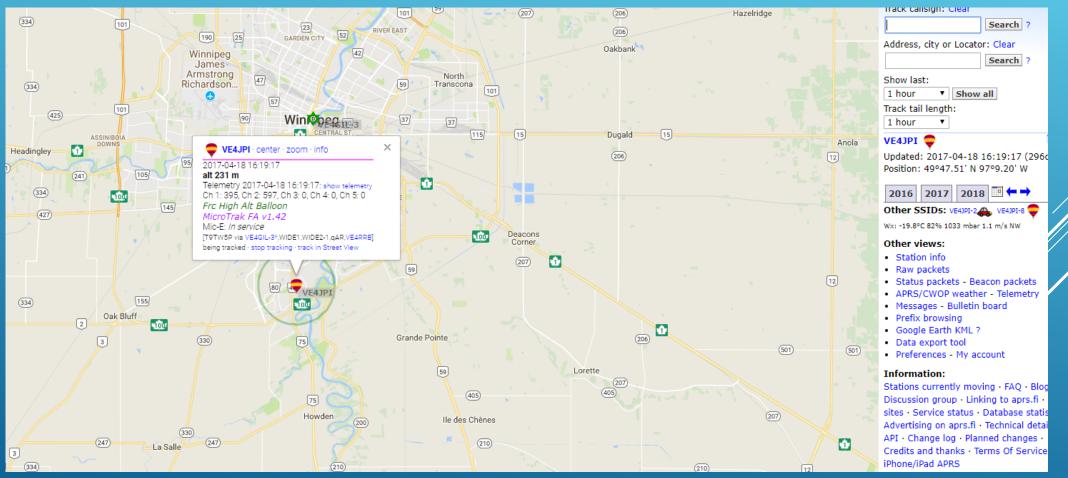
The operating manual is available online, easy to read with technical support very promptly received.

Typical configuration of the Microtrak for North American Launch

TinyTrak3Config v1.4			
Primary Secondary			
Callsign NOCALL	Transmit Altitude Iv Only Send Valid Allow TTL Serial Send 300 Baud		
Path WDE2-1	No TX Out on PTT In Serial 9600 Baud		
	Serial Out High 🔽 TX Twist		
Symbol > Table O	Alternate Digi Paths 📝 Send DAO		
Frequency 144.390 MHz	Invert CD In		
Timing	Send NMEA Timestamp None 👻		
Auto TXD 253 ms	Mic-E		
Auto TX Rate 120 sec	Enable Message In Service		
Manual TXD 67 ms	Force Printable Path Conventional		
Manual TX Rate 30 sec	Time Slotting		
	Enable Offset 15 sec		
Quiet Time 1578 msec	SmartBeaconing		
Calibration 128	Enable Slow Speed 5 MPH		
J	Min Turn Angle 27 deg Slow Rate 1800 sec		
Status	Turn Slope 255 Fast Speed 65 MPH		
Text MT-1000			
Send Every 0 Send Separate	Min Turn Time 5 sec Fast Rate 90 sec		
	Power Switch		
Edit Telemetry	Enable 3 sec		
Configure Test Tones			
COM3 Read Config Send 1200	Hz Send Both Save		
Read Version Write Config Send 2200	Hz Stop Test Load Quit		

Receiving the Signal

-Handheld Radio -APRS.fi



Spot Tracker

Purchase or Rental?

Purchase: \$169.99 Rental: \$10 per day (Wilderness Supply)

