



TRACK RECEIVE RECORD PROCESS

ComTrack

SMALL SIZE & HIGH PERFORMANCE TELEMETRY ANTENNA



ComTrack is the choice of **trust, simplicity and performance** of more than 100 telemetry tracking operators.

Military aircraft testing, helicopters, commercial aircrafts and even launch vehicles: ComTrack is an **affordable telemetry reception extension** where a roomy and cumbersome parabolic system wouldn't fit.

With its very **compact and environmentally-rugged form-factor**, the embedded phase array autotracking antenna offers **telemetry reception in L, S or C-band from zenith up to 150 kms range**. Its smart integration combining high elevation reception and long range under a single protective radome also enables dual-band mountings for systems having to operate in today's and tomorrow's frequencies.

Coming as a single enclosure item, the ComTrack is a **handy transportable antenna**, as it may also be easily and seamlessly integrated on any infrastructure.



Fixed & Rotary Wing

L / S / C BANDS
L, S or C Band, Swappable Mobile Part, Dual Band S+C

AUTO & SLAVE TRACKING
High Tracking Accuracy and Long Range Tracking, GPS Tracking made easy



Missile Testing

COST-EFFECTIVE
Simple and robust mechanics provides high performance with limited maintenance

ENVIRONMENT PROOF
Full Radome Protection against rain, sand, dust...



Mobile Stations

TRANSPORTABLE
Lightweight (35kg) & Small Size, Easy on-truck setup

COMTRACK

TRACKING PERFORMANCE

Tracking Accuracy	+/- 1°
Azimuth	Unlimited, Continuous
Azimuth Speed	> 50°/s
Azimuth Acceleration	> 30°/s ²
Tracking Modes	Autotrack, Slave (i.e. GPS), Sector Scan, Full Scan
Switch between Directional/Omni	Manual or Automatic

ANTENNA PERFORMANCE

Directional Antenna	L-Band	S-Band	C-Band
Bandwidth	1435-1545 MHz	2180-2480 MHz	4400-5250 MHz
Gain (typ)	16 dBi	21 dBi	25 dBi
G/T (typ)	-6 dB/K	-2.5 dB/K	0 dB/K
Polarization	RHCP + LHCP		
Beamwidth	AZ15° / EL30°	AZ11° / EL18°	AZ4,5° / EL8°

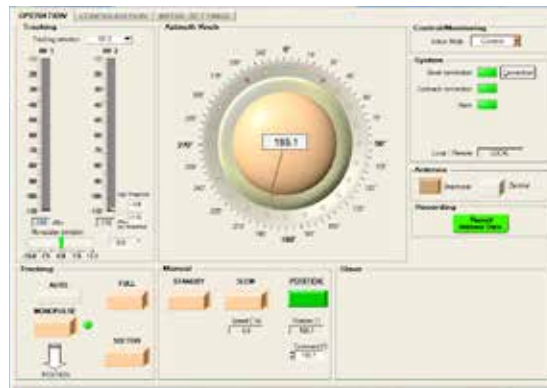
Acquisition Antenna	L-Band	S-Band	C-Band
Type	Omni	Omni / Acq panel	Acq panel
Gain (typ)	1,5 dBi	1,5 dBi / 13 dBi	15 dBi
Beamwidth	Az 360° / 25° to Zenith	Az 360° / 25° to Zenith AZ11° / EL65°	AZ7° / EL65°

VARIANTS / OPTIONS

Baseline	L-Band, S-Band, C-Band, S+C Band
Cable Set	20m / 42m / 60m
GUI	Optional PC with SW installed
Mast	Optional 1,2m fixed mast or 5,5m telescopic mast
North Compass	Optional for mobile application

MONITORING & CONTROL

Local Control	Control SW running on a laptop
User Interface	Keyboard, mouse, thumb wheel
Remote Control	Same GUI, thru TCP-IP



ENVIRONMENT

Dimensions	790mm diameter x 635mm height
Weight	< 35 kg (77lbs)
Operating Temperature	-40°C to +50°C with cold start at -35°C
Storage Temperature	-40°C to +71°C
Relative Humidity	MIL-STD-810G method 507.5
Environment Protection	IP63 / CE marking
Wind	Up to 180 km/h
Power Supply	115V or 230 VAC +/-5%, 50-60 Hz
Power Consumption	Typical 150W, maximum 750W
Vibration	MIL-STD-810G method 514.6
Transport Case	840 x 840 x 708 mm (33" x 33" x 28")



S+C Band ComTrack



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ZODIAC DATA SYSTEMS

ZODIAC AEROSYSTEMS
Control Systems Division

