



TS-1550 OVERVIEW

Massive bandwidth, exceptional performance, and cost effective for today's low-frequency communication needs.



LongWave Active Rod Antenna

At Transformation Security we set out to specify and deliver an ultra wideband, low frequency, active antenna with high intercept points to cover the broadest frequency range possible.

We needed this new antenna to have superior signal reception at low frequencies and it had to be cost-effective without sacrificing performance. As one client said, "TS hit a home run" referring to the new LongWave. This active antenna's gain and efficiency have been maximized to give the greatest omni-directional sensitivity from an amazingly low 1 kHz to well above 500 MHz. The nominal gain of the antenna is approximately +3 to +12 dB with an exceptionally high 3rd Order Intercept Point of +27 dB.

The LongWave Active Rod offers the finest sensor for receiving RF signals from a variety of transmitting sources. It covers the low frequencies you need to detect most often – and then some. An option 60" whip antenna is available to further improve low end performance.

A perfect blend of performance and quality make this unit ideal for SIGINT and multiband communications applications. Complete with a 1/4-20 tripod mount on the bottom side.

Features

- ▷ Miniature Active Rod Antenna for Receiving
- ▷ Low Frequency Signals
- ▷ Superior Performance, High Intercept Points, Ultra Low Noise
- ▷ Handles Strong Signal without Inter-Modulation and Overload
- ▷ Ultra Wide Band: 1 kHz to 550 MHz (typ. 750 MHz)
- ▷ Low Noise figure: <3.5 dB at 500 MHz
- ▷ LF, MF, HF, VHF, UHF Coverage
- ▷ Gain Sloped LNA to Prevent Overload
- ▷ Stainless Steel
- ▷ Weatherproof Construction
- ▷ Superior Protection Against Static Discharges
- ▷ Low Profile, Easily Deployable
- ▷ Optional Collapsible 60" Whip Antenna
- ▷ Wide Operating Temperature Range
- ▷ Easy to Set Up and Operate

Electrical

Frequency Range	1 kHz to 550 MHz (LF, MF, HF, VHF, UHF)
Impedance	50 Ohms, nominal
Antenna Gain	Approx +3 dB from 1 kHz to 32 MHz +3 to +12 dB from 32 MHz to 550 MHz
Polarization/Pattern	Vertical/Omni-directional
Intercept Points	>+55 dBm 2nd Order >+27 dBm 3rd Order
Power:	12 Volts DC; 85 mA max, 2.1mm Center +

Mechanical

Connectors	Type N Female for 60" Whip Antenna BNC female Output to Receiver
Housing	Weatherproof Stainless Steel
Mounting	Standard 1/4, 20 thread on base
Dimensions	Length: 41.27 cm (16.25") Length w/Whip: 194.95 cm (76.75") Width: 3.55 cm (1.4") Weight: 0.68 kg (24 oz.)
Environmental	-35° C to +85°C

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