



# TS-1550 OVERVIEW

*Incredible bandwidth,  
excellent performance and  
cost-effective for today's  
low-frequency needs*

## Features

- ◊ Miniature active rod antenna for receiving low-frequency signals
- ◊ Superior performance, high intercept points
- ◊ Ultra-low noise
- ◊ Handles strong signals without intermodulation and overload
- ◊ Ultra-wideband: 1 kHz–1000 MHz
- ◊ Low noise figure
- ◊ LF, MF, HF, VHF and UHF coverage
- ◊ Stainless steel weatherproof construction
- ◊ Superior protection against static discharges
- ◊ Low profile, easily deployable
- ◊ Optional collapsible 60" whip antenna for improved performance
- ◊ Wide operating temperature range
- ◊ Easy to set up and operate



## LongWave Active Rod Antenna

### A Lofty Mission

At Transformational Security, we set out to specify and deliver an active, ultra-wideband, low-frequency antenna with high intercept points to cover the broadest frequency range possible. It needed to have superior signal reception at low frequencies and be cost-effective without sacrificing performance.

### Mission Accomplished

This active antenna's gain and efficiency have been maximized to give the greatest omnidirectional sensitivity from an amazingly low 1 kHz to well above 1000 MHz. The nominal gain of the antenna is about +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 optional 60" whip antenna is available to further improve low-end performance.

A perfect blend of performance and quality makes this unit ideal for SIGINT and multiband communications applications. A ¼"-20 tripod mount on the bottom side expands the antenna's possibilities even more.

## Electrical Specifications

|                             |   |
|-----------------------------|---|
| <b>Frequency range</b>      | 1 kHz–1000 MHz (LF, MF, HF, VHF, UHF)   |
| <b>Impedance</b>            | 50 Ω, nominal   |
| <b>Antenna gain</b>         | <ul style="list-style-type: none"> <li>◊ About +3 dB from 1 kHz to 32 MHz</li> <li>◊ +3 to +12 dB from 32 to 550 MHz</li> </ul> |
| <b>Polarization/pattern</b> | Vertical/omnidirectional  |
| <b>Intercept points</b>     | <ul style="list-style-type: none"> <li>◊ &gt;+55 dBm 2nd Order</li> <li>◊ &gt;+27 dBm 3rd Order</li> </ul>                      |
| <b>Power</b>                | 12 V dc; 136 mA max; 2.1 mm center positive   |

## Mechanical Specifications

|                      |   |
|----------------------|---|
| <b>Connectors</b>    | <ul style="list-style-type: none"> <li>◊ Type-N female for 60" whip antenna</li> <li>◊ BNC female output to receiver</li> </ul>   |
| <b>Housing</b>       | Weatherproof stainless steel  |
| <b>Mounting</b>      | Standard ¼"-20 thread on base   |
| <b>Dimensions</b>    | <ul style="list-style-type: none"> <li>◊ Length: 41.27 cm (16.26 in)</li> <li>◊ Length with whip: 194.95 cm (76.75 in)</li> <li>◊ Diameter: 3.55 cm (1.4 in)</li> </ul> |
| <b>Weight</b>        | 0.68 kg (24 oz)   |
| <b>Environmental</b> | –35 to +85 °C (–31 to +185 °F)  |



## CONTACT US TODAY

To schedule a demonstration, or for more information, including pricing and availability on this or any of our products, [call](#), [e-mail](#) or visit us [online](#).



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