

# CTL-3500

GPS L1 Interference Monitor

# GPS World

GPS Solutions from Chronos

## PRODUCT OVERVIEW

The Chronos CTL-3500 Interference Monitor is a low cost, handheld, battery operated device designed to detect the presence of too much GPS power or non GPS signals and interference broadcasting on the L1 channel.

Ideal for operations and support engineers to check GPS antenna installations

Check your roof-top installations for interference from other sources and adjacent GPS antennas

Check you are not accidentally rebroadcasting the GPS signal from a poorly made or corroded cable/connector/antenna assembly.

## APPLICATIONS

Installation of GPS receiver antennas

Before - sweep area for spurious GPS emissions which may cause multipath or interfere with signal reception

After - check that GPS antenna installation is not accidentally reradiating GPS signal due to poor cable terminations or LNA failure

Installation of GPS re-radiators (military applications)

To check that signal levels are appropriate for bench or vehicle/plane mounted GPS testing

Detects impedance mismatch of existing installations

Go-No-Go power tester in a Lab environment to check ambient GPS signal will not interfere with testing

Routine checking of GPS antenna installations for spurious emissions caused by cable/connector corrosion

## KEY FEATURES

Detects RF signals at 1575.42 MHz (GPS - L1)

High sensitivity

Visual and vibrator alarm

Microprocessor based control

Long battery life up to 100 hours

Hand held - small size



## SPECIFICATIONS

### Detection Information

The CTL3500 uses low noise signal amplification with precision SAW filters and logarithmic detection. The filtering and detection techniques check for unwanted signals within the centre of the GPS L1 band no matter what the waveform or modulation scheme may be and indicates the level on the 5 LEDs and cadenced vibrator.

### LED Indications

The 5 signal strength indicators indicate the receive signal strength centred at 1575.42MHz. Each LED indicates strength in 5dB steps. The blue LED therefore is 25dB above threshold.

### Switch

The 3 position switch allows the user to switch the unit ON and OFF and also to select one of two receive modes: "SILENT" or "VIBRATOR".

### Temperature

Range for normal operation: -20° C to +70° C

### Physical

Case 85 x 46 x 16 mm

Weight 50 grams (including batteries)

Battery 2 x N cells (LR1) alkaline or rechargeable NiMH

DATASHEET

GPS World from Chronos Technology

Tel: +44 1594 862200 [www.gps-world.biz](http://www.gps-world.biz) [sales@chronos.co.uk](mailto:sales@chronos.co.uk)

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