

CTL3510

GNSS Interference Detector & Logger



GNSS Interference Detector with Event Logging

Product Overview

The Chronos CTL3510 GNSS Interference Detector and Logger is a low cost, handheld, battery operated device designed to detect the presence of GNSS jamming or too much power or interference in the GPS L1 and Galileo E1 bands. If there is enough signal power, CTL3510 also detects spoofing.

- Ideal for detecting commercially available GNSS jammers hidden in vehicles
- Time stamped event logging feature enables covert deployment in vehicles where the driver is suspected of using GPS Jammers

Applications - GNSS Interference Detector & Locator

Detection and location of GNSS jammers in:

- Any vehicle or human carrier
- Multi-storey car parks
- Taxi ranks at railway stations, airports etc.
- Truck holding areas
- Van depot gates
- Ports, freight & container terminals

Applications - GPS Antenna Installation

- Routine checking of new and existing GNSS antenna installations
- Detection of spurious emissions caused by cable/connector corrosion impedance mismatch

Key Features

- Simple to use
- Detects GPS jamming at 1575.42 MHz (GPS - L1 & Galileo - E1)
- High sensitivity
- Time stamped event logging
- Visual LED display of jammer strength
- Vibrate alert
- Hand held - small size, light weight
- Rechargeable battery via mini USB
- Low battery indicator

Users Include

- Law Enforcement Agencies
- Communications Licensing Regulators
- Security Operatives
- Fleet Operators
- Critical Infrastructure Operators
- GPS Installation Engineers



CTL3510 in cradle attached to windscreen

Specifications

Detection Capability

The CTL3510 detects power in the GPS L1 band over a 20MHz bandwidth at 1575.42 MHz and displays jammer power using 8 LEDs.

LED Signal Strength Indications

- 8 LED jammer power signal strength indicators centred at 1575.42MHz (GPS L1) and Galileo E1
- Each LED indicates strength in approximately 5dB steps
- Yellow LEDs indicate lower power and red LEDs indicate higher power

Switches

- Power on/off
- Battery charge indicator LED
- Peak hold to indicate maximum power detected

Event Logging

- Time stamping of events with USB download to PC
- PC App supplied to interface to CTL3510 to run on Windows 32/64 bit platform

Temperature

- Operating -20°C to +50°C
- Storage -20°C to +35°C

Physical

Case: 65 x 105 x 19mm

Weight: 82 grams (including battery)

Battery: Rechargeable lithium polymer battery

Battery Life: 24 hours

Supplied Accessories

USB Power Supply and USB cable for charging battery and connection to PC

Optional Accessories

CTL3510 universal mount with twist body suction cup base designed to have a strong hold on glass and non-porous plastic surfaces. The mount rubber ball and socket system has adjustment points at both ends of the double socket arm allowing for almost infinite adjustment and perfect viewing angles.



Typical Jammers detectable with the CTL3510

