

# SANAV CT-58-IR(HR) GPS Tracker

High Performance Quadband GPRS/GPS Asset Tracker with 'Home and Roaming' (HR) tracking capabilities, 'Store and Forward' GPS Data Logging, Built-in Vibration Sensor, Magnetic Reed Switch and Microphone.



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## Introduction

The CT-58-IR(HR) is latest version of the SANAV GPS asset tracker, the CT-58. The CT-58-IR(HR) is small, lightweight and feature rich, so it can be used in almost any GPS tracking application, such as personal security, workforce management, vehicles and asset management and recovery, heavy equipment monitoring, patient tracking, etc.

The CT-58-IR(HR) includes a built-in microphone which can be remotely enabled via SMS and then dialed up from any phone. Additionally, the CT-58-IR(HR) features 'Home and Roaming' capabilities and includes on-board memory data logging, which enables GPS position reports to be automatically stored when in poor GSM wireless signal conditions (e.g. in remote areas) and then transmitted when the GSM signal improves sufficiently.

The CT-58-IR(HR) supports multiple GPS report triggering modes including Auto-Report, Geofence, Speed/Park, SOS/Panic, Polling, Vibration, Reed Switch, etc. The CT-58-IR(HR) supports a dual-interval update rate and also features an auto-report period that can be set for both stationary and moving intervals.



**ElectronGPS**



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## Features

- Quadband 850/900/1800/1900MHz GSM operation
- Built-in microphone with remote dial-up audio access.
- On-board flash memory for 'store and forward' data logging.
- Built-in vibration sensor and magnetic reed switch.
- SiRF Star III high performance and low power consumption chipset.
- High GPS and GSM sensitivity.
- Geofencing alerts and SOS button accessory for emergency use.
- Send positions via SMS or GPRS.
- Programmable GPS dual-interval auto report ranging from less than 10 secs to 65,000 secs (~18 hours).
- Polling current GPS position.
- Remote Programming via SMS.
- Home and Roaming (HR) capability.
- Supports HTTP, TCP, UDP & Email transmissions.
- 4000mAh Extended Life Battery Available.

## Applications

- **Workforce Tracking:** Field Service Technicians, Couriers, etc.
- **Vehicle Tracking:** Delivery Trucks, Shuttle Buses, Rental Cars, etc.
- **Asset Tracking:** Shipping Containers, Construction Equipment, Heavy Plant, etc.
- **Personal Safety:** Alzheimer Patients, Children, Bail Bond Agents, Security Guards, etc.

## CT-58IR Box Contents

- CD with User Manual & Programming Utility (Note: USB Programming Cable required)
- 110V Mains Charger (USA/CAN) or 220V Mains Charger (Europe)
- Vehicle 12V Car Cigar Charger

( **Note:** USB adapter cable accessory required for setup via Windows Programming Utility ).



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# SPECIFICATIONS

## GSM & GPS MODULES

**GSM Chipset:** Siemens MC55i

**GPS Chipset:** SiRFStar III

## GPS RECEIVER

**GPS Message Format:** NMEA0183: RMC

**Datum:** WGS-84

**Sensitivity:** -159dBm

**Reacquisition:** <0.1sec TTFF (Time To First Fix)

**Hot:** 1sec TTFF typical

**Warm:** 38sec TTFF typical

**Cold:** 42sec TTFF typical

**Position Accuracy:** 15m RMS without SA (Selective Availability)

## GSM TRANSCEIVER

**Frequencies:** GSM 850/900/1800/1900MHz

## GENERAL

**Antenna:** Internal GSM antenna and active GPS patch antenna

**External Power Supply:** 5.0 ~ 8.0V DC with charging current of 500mA

**Internal Battery:** 3.7V DC, 1500mAh Li-ion battery

**Battery Operation:** > 40 hours (stand-by mode, one GPS report per hour)

**Dimension:** 84mm x 64mm x 23mm (with 1500mA battery)

**Weight:** 104g (with 1500mAh battery)

**Temperature Ranges:** **Operating:** -20°C ~ +70°C **Storage:** -20°C ~ +75°C

**Relative Humidity:** 5% to 95% non-condensing



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