



SC iOn™ Trak SC1205V User Guide

June 2021



Copyright

© 2019 CalAmp. All rights reserved. Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording or otherwise), or for any purpose, without the express written permission of CalAmp.

CalAmp and the CalAmp logo are registered trademarks of CalAmp in the United States and certain other countries.

1301 W. President George Bush Highway, Suite 300

Richardson, TX 75080 USA

Phone: (214) 612-7000

Fax: (214) 612-7777

www.calamp.com

www.scioncommand.com



Table of Contents

1. Overview.....	3
2. Installation	3
3. Charging	4
4. Operation.....	4
5. Regulatory Information.....	6

1. Overview

CalAmp Supply Chain Integrity’s (CalAmp SCI) iOn Trak SC1205V is designed for fixed location applications. This manual provides the user guidance on its operation.

2. Installation

The SC1205V comes equipped with a 12volt wall plug.



3. Charging

Typically, the devices will arrive with a healthy charge in them but best practice is to make sure the devices are charged fully before deploying them.

If the SC1205V battery becomes completely depleted, it could take up to an two hours connected to power before the device begins reporting again. To prevent this, device reporting rates should be configured when the SC1205V is not connected to power.

In the event that the SC1205V loses all battery voltage, the device will need to be attached to power for at least 2 hour before reporting will resume.

4. Operation

The SC1205V was designed for simple operation.

There is only one button for the SC1205V. Once the button is pressed it will do a full report with GPS and the flashing of LEDs gets progressively faster. If the device flashes red three times, GPS signal was not acquired. GPS will be difficult to acquire indoors.

With the device 'on', it is ready to be used for its normal operation. The button will turn the device off and the unit will not send any reports.

The SC1205V has configurable reporting rates while the device is moving or stationary a Device reporting rates can be modified in the SC iOn™ Command portal or through the SC iOn™ Command JSON API.

The screenshot shows a web interface titled "Control Device" with a close button (X) in the top right corner. The interface displays device information in two columns:

Device	72308628870247008 DC	MDN	72308628870247008
Last Reported	5/31/2018 6:41:18 AM	Last Report Type	Position Notification
Battery %	100 %	Speed(MPH)	0
Street Address	Interstate 30 Frontage RoadRockwall, TX 75087Rockwall CountyUSA		

Below the device information, there is a "Change reporting" section with three dropdown menus:

- "When in motion" set to "15 minutes"
- "When stationary" set to "15 minutes"
- "Pwr/Ign" set to "STOP"

A red rectangular box highlights these three dropdown menus. At the bottom right of the form is a "CANCEL" button with an X icon. At the bottom left, there is a button labeled "OCEAN MODE ON/OFF".



The SC1205V has onboard sensors for light, shock, tilt and drop. Temperature and humidity are available when using SC iOn™ BLE Tags.

The SC1205V supports SC iOn™ BLE tag tracking capabilities. SC iOn™ tag association is performed in the SC iOn™ command application or API.

NOTE: For SC iOn™ Tag deployment recommendations see the standard “Deployment Guide” for all CalAmp SCI products.

NOTE: Monitor the device behavior with your login to the SC iOn™ Command portal.

5. Sensors

The SC1205V has onboard and wireless (BLE) sensors for Temperature, Humidity, Light, Shock, Tilt and Drop.

Onboard Sensors

Light: On/ Off at 0.9 Lux

Motion: Dedicated 3-axis Stationary & Moving

Shock: 0-16G Min/ Max Threshold

Drop: 0-16G Min/ Max Threshold

Tilt: 0-90 degrees Tilt angle settable.

Bluetooth LE Sensors

Temperature: NIST Traceable, Accuracy +/- 0.5C typ (-30C to 60C) Min/ Max Threshold

Humidity: NIST Traceable, Accuracy +/-4%Rh Min/ Max Threshold

Proximity: 80 meters line of sight

Note: All sensor settings and thresholding are performed on the SCiOn™ Command portal or API.



6. Regulatory Information

Human Exposure Compliance Statement

Pursuant to 47 CFR § 24.52 of the FCC Rules and Regulations, personal communications services (PCS) equipment is subject to the radio frequency radiation exposure requirements specified in § 1.1307(b), § 2.1091 and § 2.1093, as appropriate.

CalAmp SCI certifies that it has determined that the SC1205V complies with the RF hazard requirements applicable to the broadband PCS equipment operating under the authority of 47 CFR Part 24, Subpart E of the FCC Rules and Regulations. This determination is dependent upon installation, operation and use of the equipment in accordance with all instructions provided.

The SC1205V is designed for and intended to be used in fixed and mobile applications. “Fixed” means that the device is physically secured at one location and is not able to be easily moved to another location. “Mobile” means that the device is designed to be used in other than fixed locations and generally in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter’s antenna and the body of the user or nearby persons. The SC1205V is not designed for or intended for use in applications within 20 cm of the body of the user and such uses are strictly prohibited.

To ensure that the SC1205V complies with current FCC regulations limiting both maximum RF output power and human exposure to radio frequency radiation, a separation distance of at least 20 cm must be maintained between the unit’s antenna and the body of the user and any nearby persons at all times and in all applications and uses.

FCC Rules and Industry Canada (IC) regulatory information Compliance Statement (Part 15.19)

The equipment device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received including interference that may cause undesired operation.

Warning (Part 15.21)

Changes or modifications not expressly approved could void the user’s authority to operate the equipment. Manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Compliance Statement (Part 15.105(b))



Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna

Increase the separation between the equipment and receiver

Consult the dealer or an experienced radio/TB technician for help.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNF d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Class B digital device notice
"CAN ICES-3 (B)/NMB-3(B)"

RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set fourth for mobile transmitting devices operation in an uncontrolled environment. End users must follow the specific operating instructions to satisfy RF exposure compliance.

The equipment should only be used where there is normally at least 20cm separation between the antenna and all person/user.

This transmitter must not be co-located or operation in conjunction with any other antenna or transmitter.

Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.