CYBER TRACKER™ USER MANUAL





Portable iDEN Version - Commercial Homeland Integrated Security Systems, Inc.

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Introduction

This guide introduces you to your Cyber Tracker (patent pending), a registered trademark of HISS, Inc. This guide is divided into four sections and contains the following information:

- Section 1: Getting Started
- Section 2: Installing the Software
- Section 3: Cyber Tracker Features
- Section 4: Safety Guidelines and Warranty Information

You will get the most out of your Cyber Tracker if you read each section. However, if you would like to get right to a specific feature, simply locate that section in the Table of Contents and go directly to that page. Follow the instructions in that section and you will be ready to use your Cyber Tracker in no time.

Note: Due to updates in software, this printed guide may not be the most current version for s your Cyber Tracker. Visit <u>www.hissusa.com</u> and sign on to access the most recent version of the guide.

Section 1 - Getting Started

Kit Contents

The following items should be included in your kit:

- Cyber Tracker
- AC/DC Power Supply
- Software
- User Manual

Quick Steps to Activate Through Nextel/Sprint

- Confirm if you are in a Nextel/Sprint Service area
- Brief credit check Before activation, Nextel/Sprint may check your credit and verify your identity. You must have and maintain satisfactory credit to receive and continue to receive services.
- Determine service plan (carrier billed)
 - a. Unlimited Data Access Plan
 - 2. Push to Talk (PTT)
 - a. Minute Package
 - b. Unlimited Usage
 - 3. Comet Tracker Service
 - a. One-time Setup fee
 - b. Monthly fee per device (PDSACTWER SOC code)

Section 2 - Installing the Software

Requirements

- Pre-configured Cyber Tracker
- Sprint/Nextel Data Access Plan
- Public IP address
- Comet Tracker Monthly Service Plan
- Comet Tracker and Microsoft Mappoint software installed on PC
- Note: It is recommended that you purchase and install Microsoft Mappoint and then schedule a PC install with our Installation department. We also can schedule training so that you can be proficient in pulling reports and setting alerts in Comet Tracker software. To schedule your appointment call 813.936.2331 ext 7600 or email us at schedule@actsoft.com
- A web based option to view Cyber Tracker data without installing Mappoint is available through the internet. This option is limited to viewing the current locations and historical data ONLY.

Please keep this email for your records as it contains pertinent information on your account.

Account Number: 3072 Password: CYB287

This information will be entered into the Comet Tracker Web-View web site. Please save this link: <u>http://webview.comettracker.com/</u>

Standard/Professional User Setup

Prior to performing this setup, verify the requirements in the preceding section have been met.

1	In the Comet Tracker application, select Setup.	1 Setup
2	Go to the <i>Users</i> tab and highlight the User that will be assigned the Cyber Tracker.	General Users User Groups Export Email User User Name Hide 1 USER 1
3	In the Users tab, select the Page 2 tab.	Page 1 Page 2 3
4	 In the Additional section at the bottom of Page 2, are the two required fields for the Cyber Tracker. Enter the IP address of the Cyber Tracker in the <i>mComet Autolaunch/GPS Ping IP Address</i> field. Enter the Serial Number of the Cyber Tracker in the <i>Modem Serial Number</i> field. The Serial Number(SN) can be found on the device. 	Additional User Color Black Messaging Address mComet Autolaunch/GPS Ping IP Address 72.6.0.180 Modem Serial Number 0000000001
5	Select the <i>User Color</i> you desire the Cyber Tracker User to appear as on the map.	Additional User Color Black 5
6	If desired, setup the Geo-fencing options in the Home Position section of Page 2. Reference Home Position Violation Settings on page63 of the Comet Tracker Workstation User Guide for additional information.	Home Position ✓ Enable Reverse Use position of this address 3851 HUNT RD, TAMPA, FL, 33614 Distance (miles) Latitude Longitude 2 200317717990387 -82.5065778600965
7	 Repeat the preceding steps for each additional user. When finished, select <i>OK</i> to save your settings. Once the settings are saved and the vehicle is in the field, you should see a position within 3-5 minutes. The Cyber Tracker is pre-configured with a GPS request interval of 60 seconds and a send threshold of 1. If you desire to change these settings, refer to the <i>Website GPS Settings</i> section. All other User settings and fields will not apply to the Cyber Tracker User after the <i>Modem Serial Number</i> field is filled. 	Setup Georal User User Broot Endi Phone Field Confg Lendraskis Alerts Devices User User Name Hide Page 1 Page 2 UseR 1 UseR 1 UseR 2 UseR 3 UseR 4 UseR

Website GPS Settings

Each Cyber Tracker has its own internal website with configurable GPS settings. The following procedure allows you to change how often the Cyber Tracker will obtain location data from GPS satellites and how many positions are stored before sending to the Server.



6	Select whether to <i>Enable Off Button</i> . Setting this to No disables the Off button, so the user may not turn off the CyberTracker. The On button is unaffected.	Enable Off Button?
7	Enter the <i>Private (Direct Connect) Number to Call</i> , which is the number called when the PTT button is pressed. The CyberTracker may be configured to call only one pre-programmed Direct Connect number at a time, although it will accept inbound Direct Connect calls from any Nextel phone.	Direct Connect Number to Call? 161*2029*9
8	The <i>IP Address</i> and <i>Port to send GPS data to</i> is the public address of the ActSoft server. These should normally be left at default settings.	IP Address to send GPS data to? 63.146.190.126 Port to send GPS data to? 8502
9	Set the <i>Push-to-Talk Tone Volume</i> and <i>Voice Volume</i> if necessary, with a value from 1 to 5 (5 is loudest). These set the CyberTracker speaker volume for tones and voice.	Push-to-Talk Tone Volume? 3 • Push-to-Talk Voice Volume? 4 •, 9
10	After configuring all fields in the left side of the Configurator screen, press the Submit button. The screen will update with the new settings, and the CyberTracker will reboot within several seconds.	Image: Interval Image: Interval Request Interval Image: Interval Bend Threshold / Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval P Address to send OFS data to its [131611901200 Image: Interval I to send to test [13100000000000000000000000000000000000

11	To change the password, scroll to the bottom of the left- hand configuration screen, and click the <i>Change</i> <i>Password</i> link.	Image: Proceeding on the process of intermet topology Image: Proceeding on the process of t
12	Fill in the fields for <i>Current User Name/Password</i> and <i>New User Name/Password</i> . Click the Submit button when finished.	Operative Configuration Program Provide Statement Equilators Image: Second Statement Equilators <tr< th=""></tr<>

Section 3 - Cyber Tracker Features



Antenna

• The Cyber Tracker[™] has embedded GPS and iDEN antennas.

Battery

- Cyber Tracker uses a rechargeable Nickel Metal Hydride Battery Pack.
- The battery pack is contained in the Cyber Tracker and can only be replaced by an authorized service center.
- The battery pack has a built-in thermistor for over temperature/over charging protection.

Over charging of the battery will be prevented by:

- 1. Fixed maximum charge time
- 2. Detection of battery charge
- 3. Monitoring the temperature
- 4. Monitoring the battery voltage

The life expectancy of a battery pack will be approximately 500 charges and/or 5 years, whichever is the shortest time.

Battery Charging

Whenever an external power supply is connected, the charging circuit performs a fast charge. After the battery capacity nears its full limit, the charger goes into a slower trickle-charge mode. The time required to fully charge the battery pack is approximately 2 hours.

Two LEDs indicate status of the battery charging circuit. See below for the meaning of the LEDs.

WARNING: The use of any battery charges other than those provided by or approved by Homeland Security Systems, Inc. could damage your Cyber Tracker and void the warranty.

Charging Unit for Battery

- The Cyber Tracker[™] comes with either an AC/DC wall jack or a car charger.
 - Battery charging circuit is 9 15 volts, 1.5 amps with internal surge protection (HISS approved charging units only).
- When power supply is connected, the unit automatically powers on.
- The acceptable temperature range for the battery to be charged is between 0°C • and 45℃ (32 to 113[°]F). The unit will not charge i f the battery detects that the temperature is outside this temperature range. The operating temperature is 0°C to 50°C (32 to 122°F).

LED Indicators

Starting from left to right:

- 1) Bi-color battery charge LED.
 - Amber (yellow) indicates that the battery is being charged.
 - Green indicates that the battery is fully charged.
 - Off indicates that there is no external power supply connected.
- Red battery Fault LED. 2)
 - Off is normal condition.
 - Red (on) indicates that there is a charging fault (if power supply is connected), or that the battery is low and nearly discharged (when running from battery).
- 3) Green LED 1. Operation status.
 - On solid during startup.
 - Blinking quickly (twice per second) indicates that the Cyber Trackers is searching for a satellite GPS connection.
 - Blinking slowly (once every two seconds) indicates that a good satellite GPS position was obtained.
- Green LED 2. Sprint/Nextel communication status. 4)



- This lights up when iDEN network connection is established by the CyberTracker and responses are being obtained from the software server.
- At startup or after three successive failures to obtain response from the software server, this light goes off.

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Battery Charge LED	Battery Low / Charge Fault LED	Software status LED	Description
Off	Off	Off	CyberTracker is off or no battery power.
Off	Off	On/Blinking	CyberTracker is running from battery.
Off	On	Off	Battery charging fault. Unit may require power-off and on to reset fault.
Off	On	On/Blinking	Battery low warning.
Green	Off	N/A	12V present, battery at full charge.
Green	On	N/A	Battery charge fault – battery over/under temperature, or overcharge.
Amber	Off	N/A	12V present, battery being charged.
Amber	On	N/A	Battery charge fault – battery over/under temperature.

Push To Talk (PTT)

- Allows walkie-talkie communication with another Nextel/Sprint phone. (Must be included in your Nextel/Sprint Service Plan).
- Other phones can call the Cyber Tracker or the Cyber Tracker can make outbound calls to a single pre-programmed number using the integrated microphone and speaker.
- To use this feature, press to talk and release to listen.

Speaker/Microphone

- Keep speaker clear of items on top of Cyber Tracker.
- Speak close to microphone for maximum efficiency.
- Keep all liquids away from Cyber Tracker.

On/Off Buttons

- Enable the user to manually turn the device on and off.
- Press the On button and release to turn unit on.
- To turn off, first remove the external power supply, then press and hold the Off button until all the lights extinguish. This will usually take about 11 seconds, to allow the modem to properly shut down before losing power. The Off button may be disabled in configuration, if desired to prevent a user from disabling GPS reporting.
- NOTE: If you do not hold the Off button until all lights go out, or if the CyberTracker remains connected to the external power supply, it will not fully power down and the On button will not work. To correct this situation, remove the external power supply, and press the Off button again. There will be a momentary flash on the second (red) battery LED. Now the CyberTracker can be powered on normally and/or connected to external power again.

Real Time Clock

• The real-time clock will be set by the software application from GPS time when the unit is initially switched/powered on and GPS lock is successful.

Modem

- The Cyber Tracker[™] has an integrated wireless modem. This is an iDEN modem providing circuit/packet data connectivity, interconnect and dispatch calls. The modem operates in iDEN 800 MHz and 900 MHz.
- The modem also contains a GPS receiver, which is used to obtain location information. The GPS unit shares the same antenna as the modem.
- The modem provides:
 - Push to Talk
 - Data Transmission
 - Incoming dispatch calls

Operating/Storage Temperature

The Cyber Tracker is designed to operate in a temperature between 0°C and 50 °C. Storage temperature should be within the range of -20°C to 60°C.

Cyber Tracker Specifications

- 200MHz Intel PXA255 XScale processor.
- 32MB Synchronous DRAM.
- 16MB Intel StrataFlash.
- 2 x 16C550 compatible UART.
- 10BaseT Ethernet Interface.
- Single +12V power supply input.
- Watchdog Timer (automatic sleep and wake-up function with location check).
- Real Time Clock.
- Digital I/O (interface to switch and LED membrane).
- 4.8V, 1.8 Amp NiMH battery
- Battery low-voltage detect.
- Battery low-voltage cut-off circuit.
- SIM card connector and SIM interface to modem board.
- Speaker amplifier for modem board audio output and connection to 0.5W speaker.
- Microphone to modem board.

Section 4 - Safety Guidelines and Warranty Information

Performance and Safety

Caution

To reduce the risk of fire and electric shock, always follow basic safety precautions, including the following:

- 1. Do not use this equipment in or near water.
- 2. Do not spill liquid of any kind on this product.
- 3. Do not disassemble this product. It contains no user replaceable parts.

Battery Safety

To reduce the risk of fire, injury, electric shock, or property damage, please read and understand the following instructions:

- 1. The Cyber Tracker contains a Nickel-Metal Hydride (NiMH) battery pack. This battery pack must be replaced by an authorized HISS, Inc. service center.
- 2. Do not place the batteries in contact with water or fire.
- 3. Do not open, disassemble, crush or expose the batteries to temperatures greater that 60 °C (140F).
- 4. The battery pack heats up while charging. This is normal and is not dangerous.
- 5. Disassembly of the battery pack voids the warranty.
- 6. Battery pack should always be disposed of properly.

Warranty

HISS, INC. 1 YEAR LIMITED WARRANTY. For a period of one (1) year from the date of purchase. HISS, INC. will at its option, either pay the parts and labor charges to any authorized HISS, INC. service facility to repair or replace a defective product (with new or rebuilt parts/replacements) After this one (1) year period, you must pay all parts, shipping and labor charges.

Proof of purchase in the form of a bill of sale or receipted invoice or warranty document, which is evidence that the product is within the warranty period, must be presented to obtain warranty service. This limited warranty is not transferable to any third party, including but not limited to any subsequence purchaser or owner of the Products. Transfer or resale of Product will automatically terminate warranty coverage with respect to the Products.

The limited warranty does not cover and is void with respect to the following (i) Products which have been improperly installed, repaired, maintained or modified (including the antenna); (ii) Products which have been subjected to misuse (including Products used in conjunction with hardware electrically or mechanically incompatible or used with accessories not supplied by HISS, Inc.), abuse, accident, physical damage, abnormal operation, improper handling and storage, neglect, exposure to fire, water or excessive moisture or dampness or extreme changes in climate or temperature; (iii)Products on which warranty sticker or Product serial numbers have been removed, altered, or rendered illegible. (vi) customer instruction (vii) cost of installation, removal or reinstallation; (viii) signal reception problems (unless caused by defect in material and workmanship) (ix) damage as the result of fire, flood, acts of God or other acts which are not the fault of HISS, INC. and which the Product is not specified to tolerate, including damage caused by mishandling and blown fuses.

This warranty does not cover customer education, instruction, and installation, set up adjustments or signal reception problems.

Use with accessories not provided by HISS, INC., Inc. or otherwise not expressly authorized by HISS, INC., Inc. may be DANGEROUS and voids the warranty.

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

Homeland Integrated Security Systems, Inc. (HISS) manufactures products for a number of intended uses. Please refer to the product label for the intended use statements for specific products.

Each HISS product is shipped with documentation stating specifications and other technical information. HISS's sole obligation and the customer's sole remedy is limited to replacement of products free of charge in the event products fail to perform as warranted.

HISS makes no other warranty of any kind whatsoever, and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES OF ANY KIND OR NATURE WHATSOEVER, DIRECTLY OR INDIRECTLY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO THE SUITABILITY, PRODUCTIVITY, DURABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE, MERCHANTABILITY, CONDITION, OR ANY OTHER MATTER WITH RESPECT TO PROMEGA PRODUCTS.

In no event shall HISS be liable for claims for any other damages, whether direct, incidental, foreseeable, consequential, or special (including but not limited to loss of use, revenue or profit), whether based upon warranty, contract, tort (including negligence) or strict liability arising in connection with the sale or the failure of HISS products to perform in accordance with the stated specifications.

It is the responsibility of the customers that their specific use of any information or products from HISS does not infringe on local laws, acts, regulations, patents or other third party rights. These products are not intended to be utilized as a secretive surveillance device or to infringe upon third party rights without consent. Users are specifically warned that if HISS products are used improperly, the user may be subject to civil and criminal sanctions.

Technical Support

For Cyber Tracker technical support, contact Homeland Integrated Security Systems, Inc.:

Website:	www.hissusa.com
Phone:	828-681-5152
Mail:	Homeland Integrated Security Systems, Inc
	1 Town Square
	Asheville, NC 28803

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