CyntrX™

User Guide

Breakthrough Design

* USB port provides local mapping connectivity to PDA, mobi data terminal or laptop.
* LED Diagnostics indicate when the unit has successfully locked onto cellular and satellite networks.
* Minimal Investment.
* Rapid install with Minimal wiring through ground and 12V constant power.
* First ever internal antenna GPS vehicle location unit!

Specifications

Dimensions: 4 x 2.75 x 0.75 inches
Weight: 4 oz.
Operating Temp: -20 to +60 deg C
Power Requirements: Voltage: 11.8 - 13.6 V
Curren: Draw at Standby: 110 mA nom
130 mA max
Current: Draw at Transmit: 2 Amp
Connectors: USB Port
Power & Ground Control
Cellular Antenna (ext. only)
GPS Antenna (ext. only)

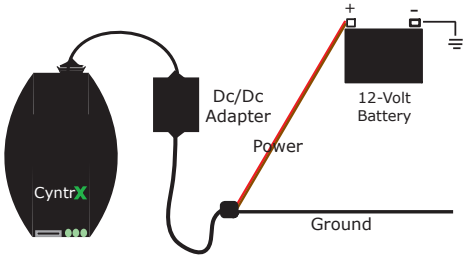
Features Specifications

Indicators: Power
Satellite
Signal Strength
USB Port: USB 1.1
Output: NMEA
GPS Receiver: Channels: 16
Accuracy: <4m
TTFF: 15s Type
ReAcquire: 1 sec.

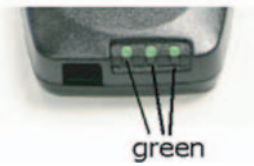
Installation Guide

This document is meant to be guide. If you have any questions during the install please contact your distributor.

1. **Locate the fuse panel. Validate which fuses receive constant power.**
2. **Attach Red/Brown wires to constant power.**
3. **Attach ground to chassis.**

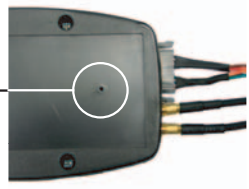


4. **Validate Power.**
5. **Using Velcro straps provided:**
   a. **Attach CyntrX unit under dash or other covert location, (Model 14000) or**
   b. **Run power cable up through dash and attach CyntrX unit to top of dash. (Model 12000 Only)**
6. **Connecting the Antenna (for Model 14000 only) - Locate a covert location for the antenna, remember no metal materials may be above the antenna, and antenna must be place GPS side towards sky.**
7. **Move vehicle outside for best GPS coverage.**
8. **Wait for all 3 lights to turn green.**

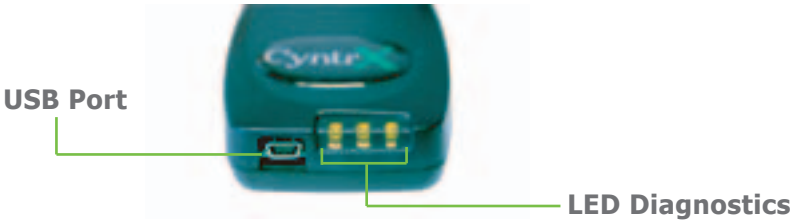


9. **Insert paper clip into reset button (located on bottom of unit) to register unit and turn off lights.**

Insert paper clip here



Features



USB Connector: Provides on board navigation connectivity.

LED Diagnostics: LED Diagnotics offer the installer the ability to monitor the status of the unit. During a successful install all lights will be green identifying power is being received by the unit and communications are established.

Lights indicate the following (from left to right): Battery, Cellular and GPS.

Contact Us

Questions or concerns?
For more information log on to our website or contact your local distributor.

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www.cyntrx.com

Document References: N/A

Trademark and Copyright Information:

FCC/IC Compliance:
This device complies with Part 15 of FCC Rules and with RSS-210 of Industry and Science Canada. This device may not cause interference, and this device must accept any interference, including interference that may cause undesired operation of this device.

FCC: R4S5150
Canada:

SAFETY INFORMATION and FCC

Warning - FCC RF Exposure Requirements

Exposure To Radio Frequency Signals
Your Cyntrx wireless device is a low power radio transmitter and receiver. When installed the device receives and transmits RF signals. In August 1996 the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for mobile wireless devices. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:
American National Standards Institute – ANSI C95.1 (1992)
National Council on Radiation Protection and Measurements – NCRP Report 86 (1986)
International Commission on Non-Ionizing Radiation Protection – ICNIRP (1996)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government's health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1)

WARNING!
To comply with FCC RF Exposure compliance requirement, the following antenna installation and device operating configurations must be satisfied:

The antenna, used for this transmitter must be installed to provide a separation

distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Vehicle antenna mounting: Antenna must be mounted externally to the vehicle. This mounting could be anywhere excepted windows.

Safety Tips

Your Cyntrx gives you the ability to communicate by data-almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless devices, one that every user/installer must uphold. When installing this device please keep the following items in mind:

Get to know your Cyntrx and its features such as voltage, ground, mounting and data connections. The antenna system is 50 ohms. Please use the least amount of distance when installing. We recommend the use of Cyntrx antennas and accessories. Please ask your representative about optional antennas and cables. Position your Cyntrx within RF coverage. Cellular coverage may be poor in basements or tunnels. Install in well-ventilated areas. Excessive heat will damage the Cyntrx or hinder the optimal operation.

Electronic Devices

Most electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your Cyntrx.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a Cyntrx and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Other Medical Devices

If you install this device near a personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding the vehicle. You should also consult the manufacturer of any equipment that has been added to the vehicle.

Aircraft
FCC regulations prohibit using this device on aircraft.

Blasting Areas
To avoid interfering with blasting operating, the Cyntrx must be disabled or in the "OFF" state when in a "blasting areas. Obey all signs and instructions.

Potentially Explosive Atmospheres
Install your Cyntrx product in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Areas with a potentially explosive atmosphere are often but not always clearly marked. They include FUELING AREAS such as gasoline stations; below decks on boats, fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemical particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.