SEON
Mobile Surveillance

vMax™ Live

Installation Guide

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Introduction

Thank you for purchasing the Seon vMax™ Live tracking device.

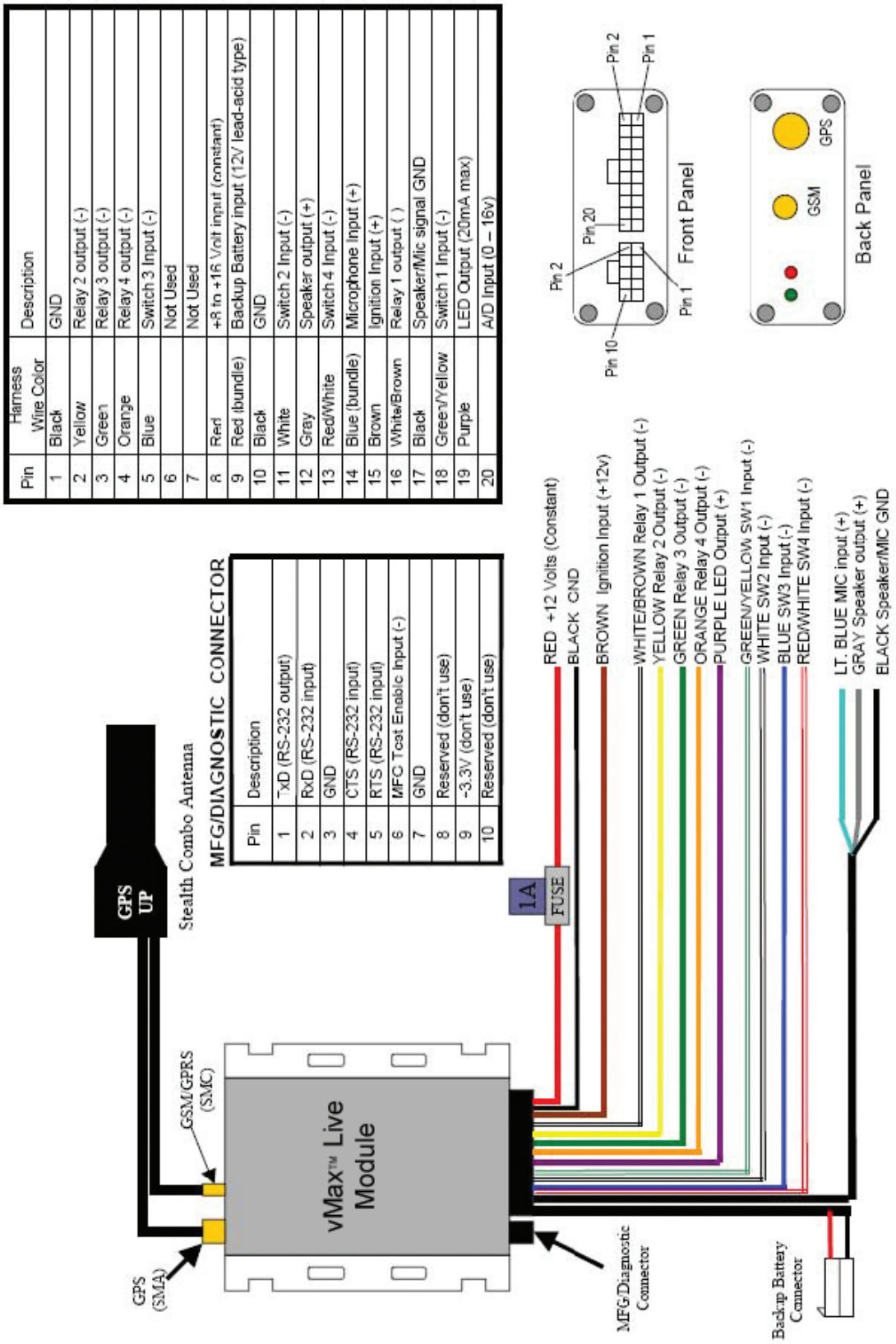
vMax Live remains the most technologically advanced hard-wired GPS tracking device on the market, providing location updates every 10 seconds.

This truly LIVE tracking method enables vMax Live to perform under a wide variety of applications, allowing it to excel in fleet management in many markets. The applications for vMax Live are limited only by the human imagination.

Options for the vMax Live GPS tracking unit include the adaptability that comes with the optional set up of four input and four output options. The inputs and outputs require a standard 12-volt relay, available from any auto parts store. It is recommended that you run the wiring directly from the battery. It is also recommended that you acquire the assistance of a certified mechanic to ensure that the wiring is connected correctly.

At Seon, we go to extremes to deliver a world-class product. Live support is embedded directly into our tracking system. If you encounter difficulties, have additional questions, or simply want to say "job well done," we're always delighted to hear from you. Given proper care, your vMax Live device will provide reliable service for years to come. Thank you for choosing Seon. We appreciate your business.

Figure 1: GPS Tracking Device



Pin	Description
1	TxD (RS-232 output)
2	RxD (RS-232 input)
3	GND
4	CTS (RS-232 input)
5	RTS (RS-232 input)
6	MFC Test Enable Input (-)
7	GND
8	Reserved (don't use)
9	-3.3V (don't use)
10	Reserved (don't use)

MFG/DIAGNOSTIC CONNECTOR

Pin	Harness Wire Color	Description
1	Black	GND
2	Yellow	Relay 2 output (-)
3	Green	Relay 3 output (-)
4	Orange	Relay 4 output (-)
5	Blue	Switch 3 Input (-)
6		Not Used
7		Not Used
8	Red	+8 to +16 Volt input (constant)
9	Red (bundle)	Backup Battery input (12V lead-acid type)
10	Black	GND
11	White	Switch 2 Input (-)
12	Gray	Speaker output (+)
13	Red/White	Switch 4 Input (-)
14	Blue (bundle)	Microphone Input (+)
15	Brown	Ignition Input (+)
16	White/Brown	Relay 1 output ( )
17	Black	Speaker/Mic signal GND
18	Green/Yellow	Switch 1 Input (-)
19	Purple	LED Output (20mA max)
20		A/D Input (0 – 16v)

Figure 2: vMax™ Live Wiring Diagram

Installation

Installation of your vMax™ Live vehicle tracking device is as easy as it gets – just follow these three easy steps:

1. Plug the two antenna cables and wiring harness into the transceiver unit, and then place the antenna (with the white text facing UP) on your dash at the base of the windshield. Run the cables along the side of the dash at the door hinge, and place the transceiver box under your dash. For best results, consider using a zip-tie or double-sided tape to secure the transceiver to ensure it doesn't fall from beneath the dash.

2. On the wiring harness, connect the RED wire to a constant 12-volt power line. Connect the BLACK wire to the frame ground. Connect that BROWN wire to a 12-volt accessory power source (one which only has power when the ignition is on). It's that simple!

3. The device is now installed. For a more covert installation, you may place the antenna under the dash, all the way up near the base of the windshield, secretly out of sight. Our antennae can see through foam, glass, and fiberglass, but it cannot see through metal. For this reason, it is important that the unit be placed with no metal or wiring between it and the sky.

The four outputs allow you to have remote controlled access to lock and un-lock the doors, honk the horn, and similar aspects that permit ease in control of the vehicles that have vMax Live.

The four inputs allow vMax Live to send information back to the server. These services can be set up so you can fully utilize your new unit.

PIN	Harness Wire Color	Description
1	BLACK	GND
2	YELLOW	RELAY 2 OUTPUT (-)
3	GREEN	RELAY 3 OUTPUT (-)
4	ORANGE	RELAY 4 OUTPUT (-)
5	BLUE	SWITCH 3 INPUT (-)
6		NOT USED
7		NOT USED
8	RED	+8 TO +16V INPUT (CONSTANT)
9	RED (BUNDLE)	BACKUP BATTERY INPUT (12V LEAD-ACID TYPE)
10	BLACK	GND
11	WHITE	SWITCH 2 INPUT (-)
12	GRAY	SPEAKER OUTPUT (+)
13	RED/WHITE	SWITCH 4 INPUT (-)
14	BLUE (BUNDLE)	MICROPHONE INPUT (+)
15	BROWN	IGNITION INPUT (+)
16	WHITE/BROWN	RELAY 1 OUTPUT (-)
17	BLACK	SPEAKER/MIC SIGNAL GND
18	GREEN/YELLOW	SWITCH 1 INPUT (-)
19	PURPLE	LED OUTPUT (20Ma MAX)
20		A/D INPUT (0-16V)

Figure 3: Wiring Harness Description