1. Connect the cable(s)

1.1 Connect the DB26 cable into the VEHICLE port.

1.2 Connect the manual trigger to the DIGITAL I/O port.*

2. Connect antenna(s)

2.1 Wi-Fi: Connect the two (short) 4.25in Wi-Fi antennas to the WiFi-1 & WiFi-2 ports.*

Cellular: Connect the cellular antennas to the CELL-1 and CELL-2 ports.*
2.2 The 8in 4G:JCG410L cellular antenna(s) are AT&T specific.
2.3 The 3G:JCG016 antenna(s) have a round base stand and cable wire with a GSM tag.
2.4 The 4.25in 3G:JCG402 cellular antenna(s) are AT&T/Verizon compatible -- with a red-band.

2.5 GPS: Connect the active/passive (1Hz) antenna receiver to the GPS-A port.*
Active GPS antenna cables are labeled with a colored GPS tag on the cable.

3. Connect VDR to the vehicle

3.1 Place the VDR inside the vehicle, in a dry location. Example: Behind the driver seat is a suitable location. The DB26 cable must reach the vehicles OBD port.

3.2 Connect the DB26 cable (J1962 end) into the vehicles OBD port. Organize the DB26 cable around vehicle trim/paneling; to avoid any tripping hazards.

3.3 Allow the VDR software to load: Turn the vehicle on, and keep the engine running.

4. Position connected device(s)

4.1 Place the GPS receiver on a flat surface. Placed on the front dashboard is optimal.*

4.2 Place the manual trigger near the driver seat. Allow for easy access while driving.*

4.3 Optional: Attach the VDR to the seat. Optional: Attaching the VDR to driver seat mounts requires the additional hardware and caution. Avoid installing near sharp/hazardous objects, to prevent damage.

Examples: VDR installation location details vary. These are three installation examples.
4.1: GPS antenna – Front dashboard, below windshield.
4.2: Manual trigger – Next to driver seat, in center console or in the cup holder
4.3: Optionally place the VDR (attached to the seat mounts) under the driver seat.
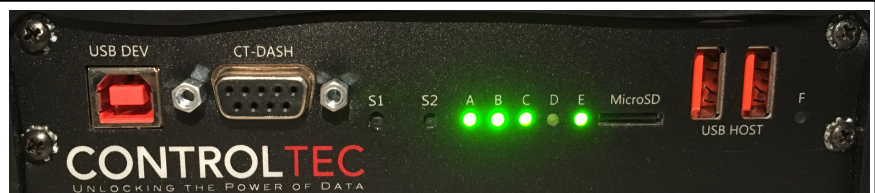
5. Confirm VDR lights

A. Flashing green. Powered on.
B. Solid green. VDR software is running.
C. Solid green. Connected to server environment.
E. Solid green. GPS signal received.
   Limited or no cellular/GPS connectivity *may* occur -
   if installing in an environment with a low signal strength.

Check the LED lights status -- approximately five minutes after the installation is complete.

6. Ready.

CONTROLTEC
UNLOCKING THE POWER OF DATA

Control-Tec CT-1000 VDR

The CT-1000 VDR records and sends vehicle data to the server environment for processing. Please read carefully before proceeding. Contact your Control-Tec representative(s) or visit the VDR User Page -- to address any additional questions.

CT-1000 Back Panel

CELL-1: The 1st cellular antenna port.
CELL-2: The 2nd cellular antenna port - increased signal strength.
WIFI-1: The 1st WiFi antenna port.
WIFI-2: The 2nd WiFi antenna port.
VEHICLE: The vehicle (26 PIN) OBD connection port. Provides power.
GPS-A: The GPS antenna receiver port.
DIGITAL I/O: The CT "Manual Trigger" port.
ETH-1: The VDR ethernet port, used to connect the VDR directly
to a computer, and access the 'User Page' for more details.
VEH AUX: The SW/LIN device port. Supports compatible LIN device(s).

CT-1000 Labels

Each VDR arrives with multiple labels on the bottom, identifying specific requests & configuration details. VDR labels are unique to each device.

• Expansion card details. Example: 4L1C1SW
• WiFi card details. Example: Compex WLE200N2
• SATA Drive confirmation. Example: SATA
• Modem firmware identifier. Example: Sierra MC7455
• VDR serial number. Example: 064929 also written as CT-64929.
 Save the VDR serial number(s) for future reference.

CT-1000 Front Panel

LED Lights:
A. Power Status.
B. Data Logging Status.
C. Connection (Cellular/WiFi) Status.
D. VDR Disk Status.
E. GPS Signal / Critical Events Status.
F. Read/Write Disk Status.

S1

Pressing the S1 button reboots the VDR device software.

VDR Storage

• Internal: Standard SATA (SSD) drive.
• MicroSD: Accepts one ≤ 256 GB (μSD) MicroSD card.
• USB: Two front-facing USB ports support USB flash drives.
  • Data files can only be transferred, from the VDR SATA to a USB drive.
  • Access the VDR User Page for more details on transferring files.
• VDR USB ports are for Control-Tec compatible devices only.
  (VDR USB ports are *not* for mobile phone or electronic device charging.)

VDR Dimensions:
Weight: 2.39 lbs
Length: 2.12"H x 8.46"D x 6.14"W in

CT-1000 Install Instructions

See reverse side for CT-1000 install instructions, describing the basic installation/operation of a Control-Tec CT-1000 VDR (vehicle-data-recorder). Optional instructions are marked with an asterisk.* Refer to the "EQUIPMENT CONFIRMATION" sheet - with a complete list of hardware, cables, and accessories.