

## DVR Menu Settings, Continued

### 9 Speed



**Speed Display:** If GPS is installed, select GPS. GPS sensors are replacing the vehicle speed sensor calibration system.

**Speed Units:** Choose MPH for US or KPH for Canada.

Click Calibrate only if Pulse is selected from Speed Display.

Click **Back** to save the menu settings.

In the Alarms and Signals menu, click **GPS**.

### 10 GPS



**GPS Display:** If a GPS receiver is installed, select On to display the coordinates on the play view overlay.

**GPS Time:** Select On to have the play view overlay time set by the GPS.

**UTC Reference:** Set the time zone:

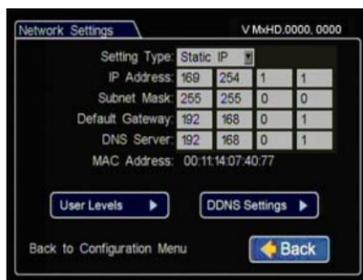
- 4 Atlantic
- 5 Eastern
- 6 Central
- 7 Mountain
- 8 Pacific

If selecting GPS, format the drive after the configurations are done.

Click **Back** to save the menu settings.

In the Configuration main menu click **Network**.

### 11 Network



**Setting Type:** Leave at default Static IP setting.

Use the IP address shown to communicate with the DVR over the internet with vMax Web.

If the DVR is attached to a Wi-fi bridge, change these settings to those supplied by the system administrator.

If the IP information is changed and saved in a configuration file for

upload to other DVRs, their settings will have to be updated as well.

See DVR Configuration Uploads, on page 28 in the TL DVR Installation Guide.

Click **User Levels**.

### 12 Users



Users logging on to the DVR locally or remotely should have password control to protect the DVR from being accidentally reconfigured.

Leave the default Admin user and add other users with access levels as needed.

Enter user names, passwords, and assign levels.

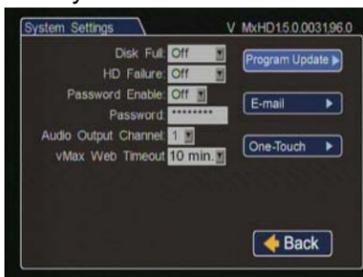
- **Admin** user has complete DVR control.
- **Configure** user cannot edit user levels or IP settings.

- **Playback** user can only view and archive recordings.

Click **Back** to save the menu settings.

In the Configuration main menu click **System**.

### 13 System



**Disk Full, HD Failure:** Leave Off unless your network is configured to receive emails from the DVR.

**Password Enable:** Leave Off unless instructed otherwise.

**Audio Output Channel:** Select the audio channel that will be available from the audio RCA port on the front of the DVR.

**vMax Web Timeout:** leave at default 10 minutes.

Click **Program Update**.

### 14 Create/Load Configuration File, Format Drive



**Store Current Configuration:** Select USB Device as the file saving destination.

Plug a USB memory device into the front of the DVR. Click **Store** to save the file on the USB memory device.

**Load:** For details on uploading configurations to the DVR, see DVR Configuration Uploads, on page 28 in the TL DVR Installation Guide.

**Update:** Firmware updates can also be delivered by a USB

device. The DVR will reboot when updates are done.

**Format:** Format the hard drive when the configuration is complete and tested and before final delivery of the installation to the customer.

Click **Back** to save the menu settings.

## Warranty

Seon Design Inc. (Seon) warrants the cameras and components listed below against defects in workmanship and materials provided that such defects appear or are discovered within the respective periods specified below and provided further that the purchaser of such products notifies Seon of such defects within thirty (30) days of the appearance or discovery of such defects:

- Three (3) years from date of purchase, parts and labor on all Cameras
- Three (3) years from date of purchase, parts and labor on the Explorer® Premier, DX, TX, EX, MX, and Trooper® TL series mobile DVR Systems
- One (1) year from date of purchase, parts and labor on the Smart Reach® Wireless systems and other Wireless products
- One (1) year from date of purchase, parts and labor on the VML Controller and other vMax Live Plus hardware products
- One (1) year from date of purchase, parts and labor on all other products and accessories

All service/replacement parts and repairs are warranted for a period of 90 days. For full warranty information, go to [www.seon.com](http://www.seon.com).

## Customer Service Contact Information

Toll free telephone 1-877-630-7366	Local telephone 604-941-0880	Email: <a href="mailto:service@seon.com">service@seon.com</a>	Web: <a href="http://www.seon.com">www.seon.com</a>
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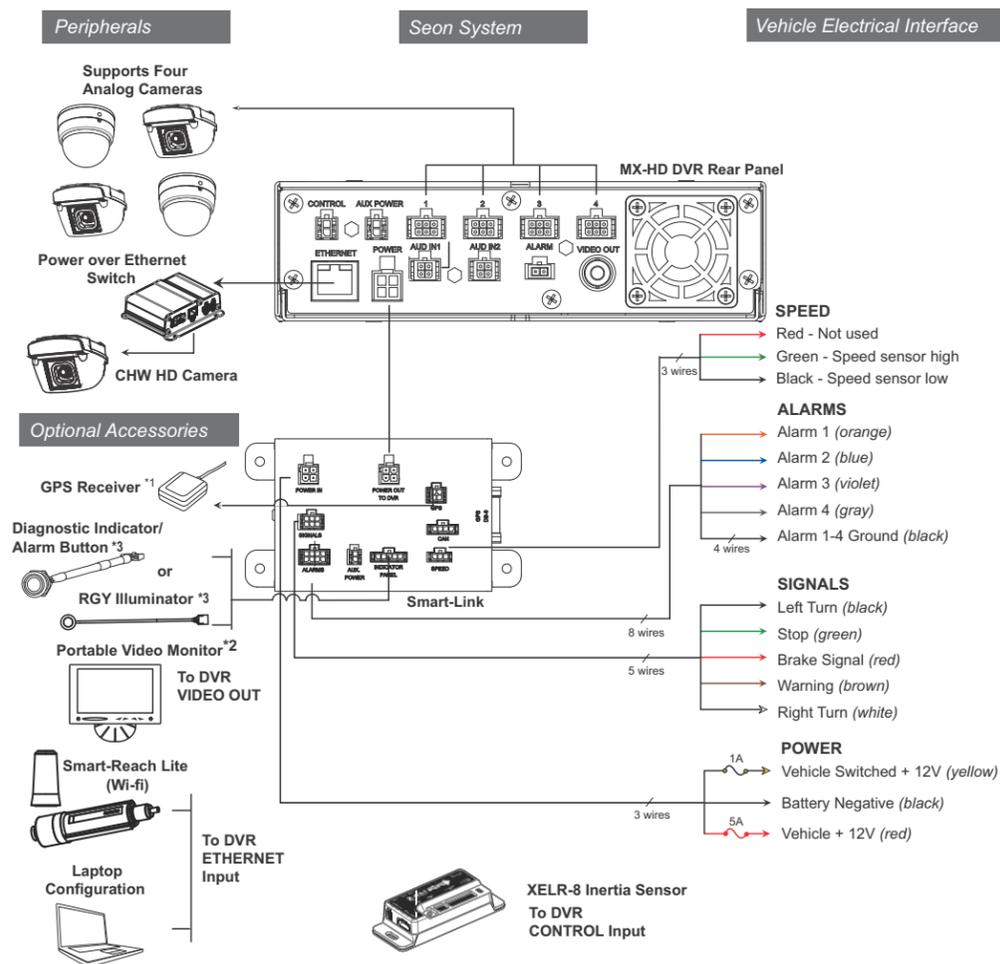
# Explorer MX-HD DVR Quick Start Guide

This Quick Start guide is intended as a basic DVR install and setup reference. Review it completely before installing the DVR. The complete installation and user guides to the DVR are available for view or download at [www.seon.com/support/documents.html](http://www.seon.com/support/documents.html).

- Explorer MX-HD Installation and Configuration Guide 700-0159
- Explorer MX-HD Mobile DVR User Guide 700-0160

## Installation Diagram

### Explorer® MX-HD Typical Plus System Setup



\*1 For ease of installation and better speed tracking, Seon recommends using a GPS receiver.

\*2 The portable video monitor can be used from the front or back panel DVR connectors.

\*3 The Diagnostic Indicator/Alarm Button and RGY Illuminator Display are not interchangeable, a different Smart-Link unit is required to use either one.



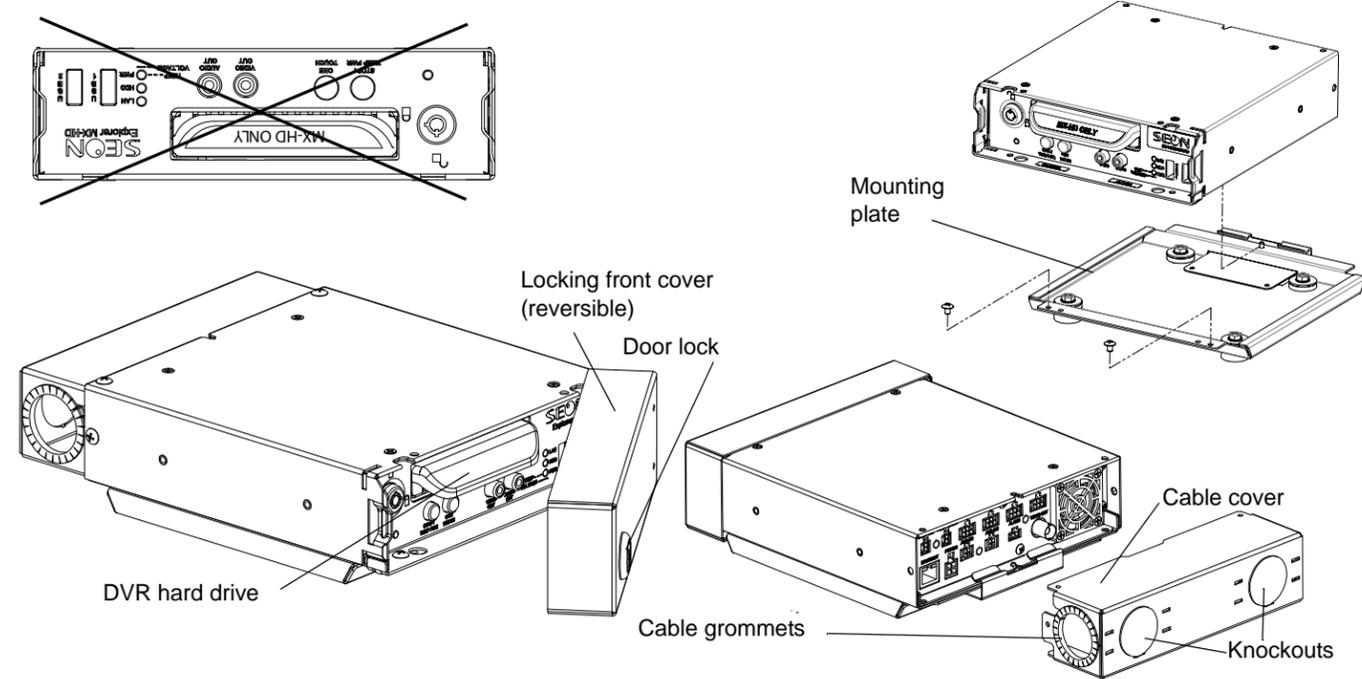
### CAUTION: Do Not Use Output Power from Noise Suppression Solenoid

Many school buses include a separate solenoid to power noisy items such as fans. The noise suppression solenoid's power out can be easily confused with true ignition power. If there is no apparent output from any obvious ignition sources, consult the bus schematic or bus manufacturer to locate a proper power on source for the DVR. Don't assume that the tested wire operates exactly like an ignition wire, it may not.



## DVR Installation

The DVR can be installed horizontally or vertically or at an angle. Do not install the DVR upside down.



### CAUTION: Heat or Moisture Damage Risk

Do not install the DVR in a location where the unit is exposed to excessive heat or moisture. Installation close to extreme heat or moisture will void the product warranty. Route the wiring and cables away from sharp edges that might damage the insulation. Avoid sharp bends in the cable. Contact Seon before attaching the DVR to other equipment in the vehicle.

## Powering the System On

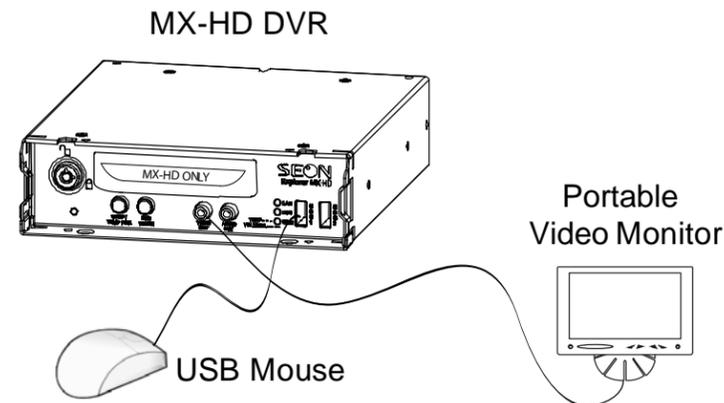
Turn the vehicle ignition on to power up the DVR. When the PWR LED shows green and the HDD LED flashes red, the DVR is operating normally and recording.

## DVR Menu Setup

Depending on any options installed, the DVR needs to have some menu settings updated to operate properly. To access the DVR menu settings, connect a portable video monitor and mouse to the DVR.

Connect a USB mouse to a USB port on the DVR front panel

Connect a portable video monitor to VIDEO OUT on the DVR front panel



## Camera Views

Right-click anywhere in this view to access the DVR menus. Click Back to return to this view after updating menus.



## DVR Menu Settings

Click Back on menus to save updated settings.

### 1 Main Menu



In the main menu, click **Configuration** to access the Configuration menu.

### 3 Time/Date



**Time Format:** Choose 12 or 24 hour display.  
**Time:** Input the correct time.  
**Date Format:** Select the date format.  
**Date:** Input the date.  
Note: When GPS is installed and GPS time is selected in the Alarm/Signal Speed and GPS settings menus, then the date and time automatically update when the GPS detects satellites.

**Auto Daylight Saving:** Leave this On and at default dates unless in an area that does not use daylight savings (ex: Arizona, Saskatchewan).

Click **Back** to save the menu settings. In the Configuration menu, click **Title/Display**.

### 5 Record



**Time Format:** Choose 12 or 24 hour display.  
**Time:** Input the correct time.  
**Repeat Record:** Leave On for the hard drive to record over the first recordings when it is full.  
**Record Delay On Time:** Leave at default to let the bus voltage settle after the bus starts up, to prevent voltage drops affecting the DVR.  
**Record Delay Off Time:** Set to 10-20 minutes to keep the DVR and cameras on

after the ignition turns off to record the bus post-trip check.

**Power Delay Off Time:** This starts up after Record Delay Off time ends. If Wi-Fi is used, set to 2 hours or more. If no Wi-Fi, leave at default.

**Alarm Partition Size:** Leave Off unless instructed otherwise.

Click **Camera** to access camera settings. See the next screen.

Click **Record2** and **set unused Channel speeds to Off, so the DVR will not generate video loss events.**

Click **Back** to save the settings.

### 7 Signals



**Label:** For signals 1-5, select from: LT left turn, STP stop, BRK brake, WRN warning light, and RT right turn.

The labels can be edited.

Signals 6-10 are available for advanced signal wiring if required. Maximum 3 character.

**Level:** Set all signal levels as required. Choose Active High if the circuit you are installing into rests at 0 VDC and goes to 12 VDC when active.

Choose Active Low if the circuit rests at 12

VDC and drops to 0 VDC when active.

**Alarm:** If a signal is used to trigger an alarm, that alarm's input must also be set up in the Alarms menu.

Click **Back** to save the menu settings. In the Alarms and Signals menu, click **Alarms**.

### 2 Configuration Menu



In the Configuration menu, click **Time/Date** to access the Time and Date menu.

### 4 Titles/Display



**Main Title:** Enter the bus number.  
**Main Title Display:** Leave On.  
**Camera 1-4:** Enter camera titles that describe the views they are recording, such as:

Front  
Step  
Mid  
Rear

Click **Back** to save the menu settings.

In the Configuration menu, click **Record**.

### 6 Cameras



**Set unused Channel speeds to Off, so the DVR will not generate video loss events.**

New titles will display here as well as on the camera view overlays.

**Speed:** Leave the channel speed at default settings unless you have special requirements.

**Resolution:** Leave the channel resolution at default settings unless you have special requirements.

**Quality:** Leave the channel quality at default settings unless you have special requirements.

default settings unless you have special requirements.

**Audio:** Leave audio settings On unless the camera is mounted on the exterior of the vehicle.

Click **Back** to save the **Camera** menu settings and to return to the **Record** menu.

In the Configuration menu, click **Alarm/Signal**. In the Alarms and Signals menu, click **Signals**.

### 8 Alarms



**Set unused Channel speeds to Off, so the DVR will not generate video loss events.**

**Alarm:** Alarm 1 comes from the DVR alarm button. Alarm 2-4 can come from signals.

**Duration:** Applies to Alarm 1 only. Set the Duration for how long the DVR will record video flagged as an alarm.

**Speed, Quality, and Resolution:** For each alarm, select higher settings for

better video while the alarm is recording.

**Input:** Applies to Alarm 1 only. Choose Normally Open or Normally Closed, depending on the switch type used.

**Pre-Alarm:** Select how many seconds of pre-alarm video is included in the flagged alarm recording.

**Email:** Leave at default unless instructed otherwise.

**Wake:** Leave at default unless instructed otherwise.

Click **Back** to save the menu settings.

In the Alarms and Signals menu, click **Speed**.

