

# SCHOOL BUS VIDEO QUICK WIRING for CF & HD DVRs

## Power Harness Cable

Wire Color	Pin #	Function
Red	16	+12v Battery (Fused 3-5A)
White	6	+12v Ignition On
Black	17	-12V Ground

## Event Marker Button Cable

Wire Color	Connect to Main Power Harness
Red	White Wire+12v after Ignition
White	Green wire for Trigger 6 (Event)

## Triggers Harness Cable

Function	Pin #	Wire Color
Trigger 1- Stop Arm	20	Red wire
Trigger 2- Brakes	5	Brown wire
Trigger 3- Ignition	6	White wire w/BK & RD
Trigger 4- Right Turn	7	White wire
Trigger 5- Left Turn	8	Yellow wire
Trigger 6- Event	9	Green wire

Should you require User Guides/Installation Manual, updated software or wish to view Field Service Memos visit our online Customer Resources FTP at: <http://www.AmericanBusVideo.com/CUSTOMER-FTP/>

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## GPS On Screen Mapping Feature

### Internet Interface:

Free On Screen Mapping feature (GPS equipped DVRs only) requires program access to the Internet for Google provided map & zoom features. This feature is disabled if our programs Internet access is not permitted.

### Communication port required:

HTTP Port 80 (TCP connection)

As long as this prefix is not blocked and the system has direct Internet access, it should work. If access is very slow, it may not download a tile in time to download another one. You would still see a .map file being created, but you should see at least a periodic tile get rendered.

If you can pull up maps under <http://maps.google.com> on the destination machine, it should work.

You may want to verify that the video used had a proper GPS connection. You should see a non-zero Latitude and Longitude in the metadata banners updating as the vehicle moves. If you don't see this, then it didn't receive a GPS signal when the video was recorded (i.e. it wasn't plugged in or couldn't see any satellites).

### GPS Acquisition Delay:

The delay of the GPS system to acquire sufficient satellites for accurate measurements will take approximately 2-3 minutes from the power up time. It has been found that faster function has presented displayed measurements that could be erroneous, so this delay is a built in safeguard.

### Antenna Mounting:

While many customers are using these systems with antennas on the dash, we have found that unless the windshield has a considerable slant angle the metal in the bus roof can cause significant signal loss, so best function will be obtained by roof mounted GPS antennas. It is also a good idea to not coil up excess antenna cable as it can create an electromagnetic interference and be detrimental to the proper function of the GPS system. Excess cable should be loosely tucked behind bus panels and not tightly rolled up to insure peak performance.

	<b>Spec. American Made DVRs</b>	
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