



READ ME FIRST!

Quick start guide

BusVision Series

Model 400

Installation Manual

Mobile Digital Video Recorder

Installation

Estimated hardware installation and testing on a school bus is approximately two hours. This could be shorter or longer depending on where the DVR is mounted, length of cable required and whether the cable is hidden behind the metal bus panels or not. It is highly recommended that as much cabling as possible be hidden from view to prevent tampering with the unit.

The following is a list of the items needed to complete the installation, after lifting the DVR out of the box. Check for the key for the unit in the bottom of the box.

QTY DESCRIPTION

1	TME™ Series 400 Digital Video Recorder (DVR)
1-4	Dome cameras to be installed in the bus (# of cameras depends on unit)
1	DVR mounting bracket
1	120GB Hard Disk
	Camera cabling
	Power Cable
	Key
	Event Marker

DVR & Camera Location

The first step is to determine the best location for the DVR & Cameras. Mounting locations may be different depending on the bus style (conventional or transit), body manufacturer and the year of the bus. Always make sure the unit is mounted horizontal or vertically and not at an angle, Also be sure enough room is left to allow easy removal of the DVR's hard drive from the unit, approximately 7 inches. Make sure the camera is centered on the roof of the bus as close to the front bulkhead as possible staying clear of the headspace area of the driver and passengers.

**NOTE: If you have any questions during the process, please contact BusVision Technical Support for help, thank you.
1-877-221-6516**

Mounting and Hard disk installation

The mounting plate will be fastened to the bottom of the DVR. Once you have found a good location for it, insert the four mounting screws through the mounts holes and screw into place.

To install the hard drive insert the key in the front of the unit then turn it to a 90° angle. You may now insert the hard drive and then turn the key back to the on position and remove the key. The unit will work without a hard drive but of course will not record video.

To remove the hard drive insert the key in the front of the unit then turn it to a 90° angle, simply grab the Hard drive by it's handle and gently slide it out. Then connect the supplied USB cable to the back of the hard drive and the other end to your PC for video playback. **Be careful when handling the hard drive it is very fragile!**

Powering DVR from Bus

The 3 wires (labeled GND, POWER, IGNITION) coming out the back of the unit will need to be run to the bus electrical panel. Power connects to the battery side, and the ignition to the starter solenoid in order for the unit to “Know” when the key has been turned off. In-line 10A fuses are recommended (Not Provided) for both the battery and ignition wires. The 3 wires connect to the DVR with a green terminal plug in the right side on the back of the DVR.

Cable Connections



The cameras will get their power from the unit, connect the Black cable to the DVR in the appropriate input 1 – 4. The cameras will plug in via the black MoLEX connectors as in the illustration above. Power and the event Marker connect to the unit on the Right hand side of the unit through the phoenix connector terminals.

Final Hardware Installation Steps

When all the cable connections for power and cameras are secured and the DVR is secured to the bus its time to test. The model 400 DVR is configured at the factory to automatically begin recording 1 camera upon power-up. If you have more than one camera a PC Monitor, Keyboard, and mouse will be needed to setup the remaining cameras. The Video port located on the front of the DVR can support a standard SVGA Monitor. To the immediate left of the video port is the keyboard/mouse port. This is where you will plug the ps2 Y cable for connecting your keyboard and mouse as shown in the illustration below. With a PC monitor connected to the DVR you will see LIVE video of your cameras to complete the aiming of the cameras.



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1-678-361-9011**