Rev 6.4β

CMVTC D8 DVR & Camera Installation Cheat Sheet

- Source location for DVR mounting (driver compartment area)
- Run Aviation cable(s) from DVR to Camera locations. Use appropriate length.
- Run Power Cable Harness (Green, White, Black) from DVR to bus power source
- Confer with Mechanic for correct power connection location on bus
- Connect Power Cable Harness to DVR as follows; Black to Black, Red to White & Yellow to Green wires to DVR Power connector.
- Connect Bus Black, Green & White wires to Bus
  - Black = Ground, Green = Live 12VDC Power (fused), White = Aux/Run Power (fused)
- Plug Cameras into Aviation cables
- Plug Aviation DVR splitter cables to allow for 2 cameras on each DVR port.
- Plug Aviation cables into Port 1, Port 2, Port 3, Port 4, etc on the DVR
- Plug GPS sensor into DVR
- Mount GPS in an open location inside bus (magnetic)
- Plug Monitor into front of DVR
- Plug Power connector into rear of DVR
- Put Bus key to Aux/Run position
- The Monitor should show the camera image with OSD information
- Mount and sight the cameras. There are many camera locations and you can move the locations to best suit your Divisions bus video coverage requirements. This can become your standard bus camera install locations.
- The DVR has been **preprogrammed** for; Shutdown after 15 minutes after power down, 5 minute video file size, Good video quality with 15FPS, Record Audio on all, Automatic Recording, Time Zone, Date & Time.
- You will need to program the Bus ID Number by; Login, General, Vehicle Info and set Vehicle to **Bus ##.**
- Also verify the Time Zone with Login, General, Time & Date.
- Document everything
  - Download MDVR Program, User Manuals and Install Cheat Sheet, Installation Manuals.
  - Unzip the folder
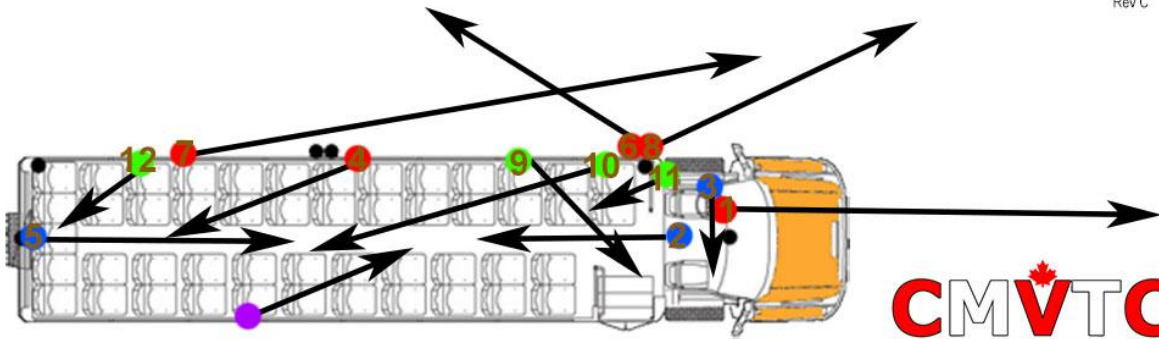 - Install the MDVR Program onto your computer

NOTE:

- DVR Password is 888888
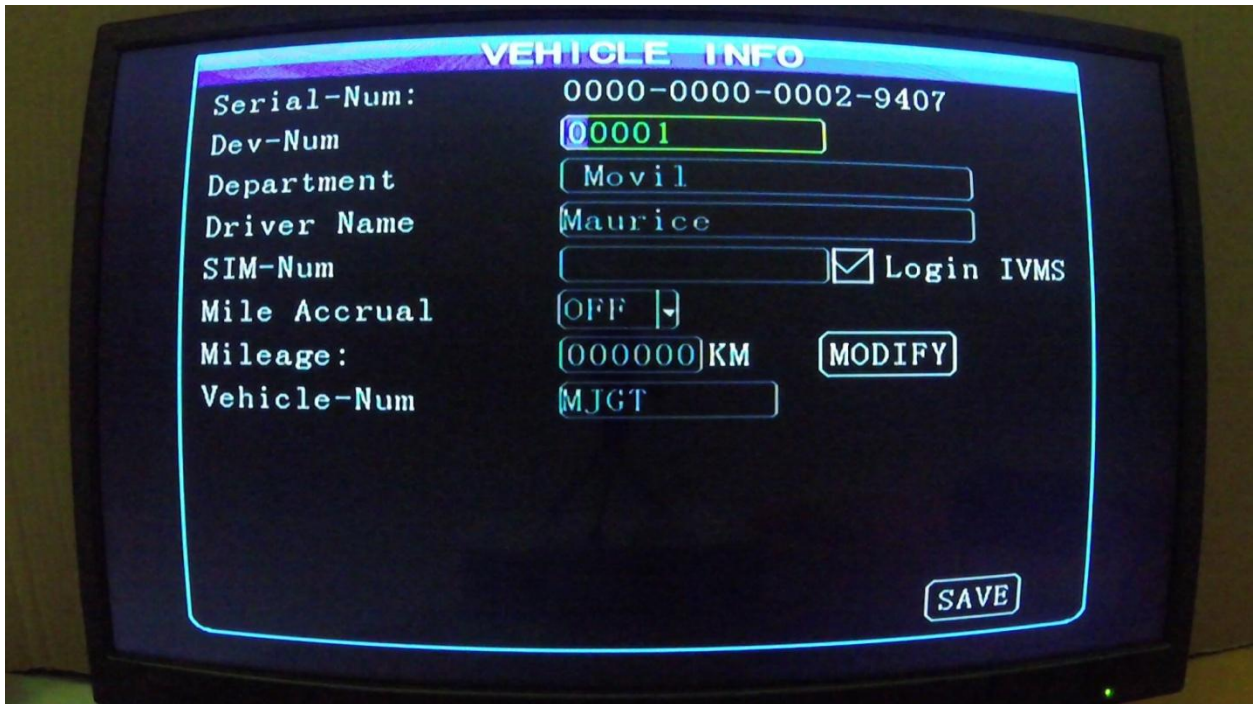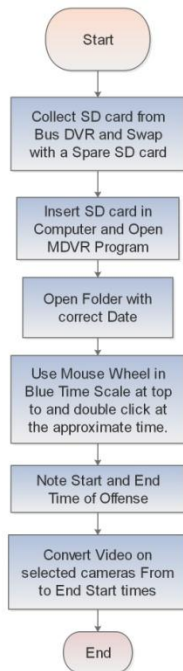- The SD cover must be Closed and Locked before the DVR will Power Up.

Rev C

School Bus Camera and Mic Locations

How to Collect, View and Save Video from MJG Technologies HD DVR Systems using the MDVR Software Program.

```
┌─────────┐
│  Start  │
└─────────┘
     │
┌──────────────────┐
│ Collect SD card from│
│ Bus DVR and Swap   │
│ with a Spare SD card│
└──────────────────┘
     │
┌──────────────────┐
│ Insert SD card in  │
│ Computer and Open  │
│ MDVR Program       │
└──────────────────┘
     │
┌──────────────────┐
│ Open Folder with   │
│ correct Date       │
└──────────────────┘
     │
┌──────────────────┐
│ Use Mouse Wheel in │
│ Blue Time Scale at top│
│ to and double click at│
│ the approximate time.│
└──────────────────┘
     │
┌──────────────────┐
│ Note Start and End │
│ Time of Offense    │
└──────────────────┘
     │
┌──────────────────┐
│ Convert Video on   │
│ selected cameras From│
│ to End Start times │
└──────────────────┘
     │
┌─────────┐
│   End   │
└─────────┘
```

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Notes:

- Create a standard Bus Data folder to store all your video data.
- Example d:\Bus Video\Bus 50\Feb 2 2018\Johnny Acting Up\
- Be sure to set the Output of all SnapShot and AVI Outputs to this folder for each Offense.
- Once the video is converted to AVI, you can view with any media player, including Smartphones and Tablets.
- Create or modify a Divisional Disciplinary media storage, display and usage Policy. Do you show the parent(s) the video or not? Who views the video and how is the disciple documented? etc.
- Impliment a hardware maintenance schedule. Suggestion; anytime the bus is in for service or maintenance a 2 minute bus camera system inspection is performed and documented.
- Take special care with the SD cards; they are sensitive to static and damage. Always transport the SD cards in the plastic SD card case or a plastic ziplock bag.
- Only use our high vibration, double coated, 95Mbps Class 10 [3] SD XD Card. Inferior SD cards may cause data loss.
- Report any irregularities, issues or defective components to MJG Technologies as on as they arise. We will remedy a.s.a.p.

- **Each Process shown in this Flowchart is linked to a corresponding video, just click the process to view.**