

# Mobile Digital Video Recorder



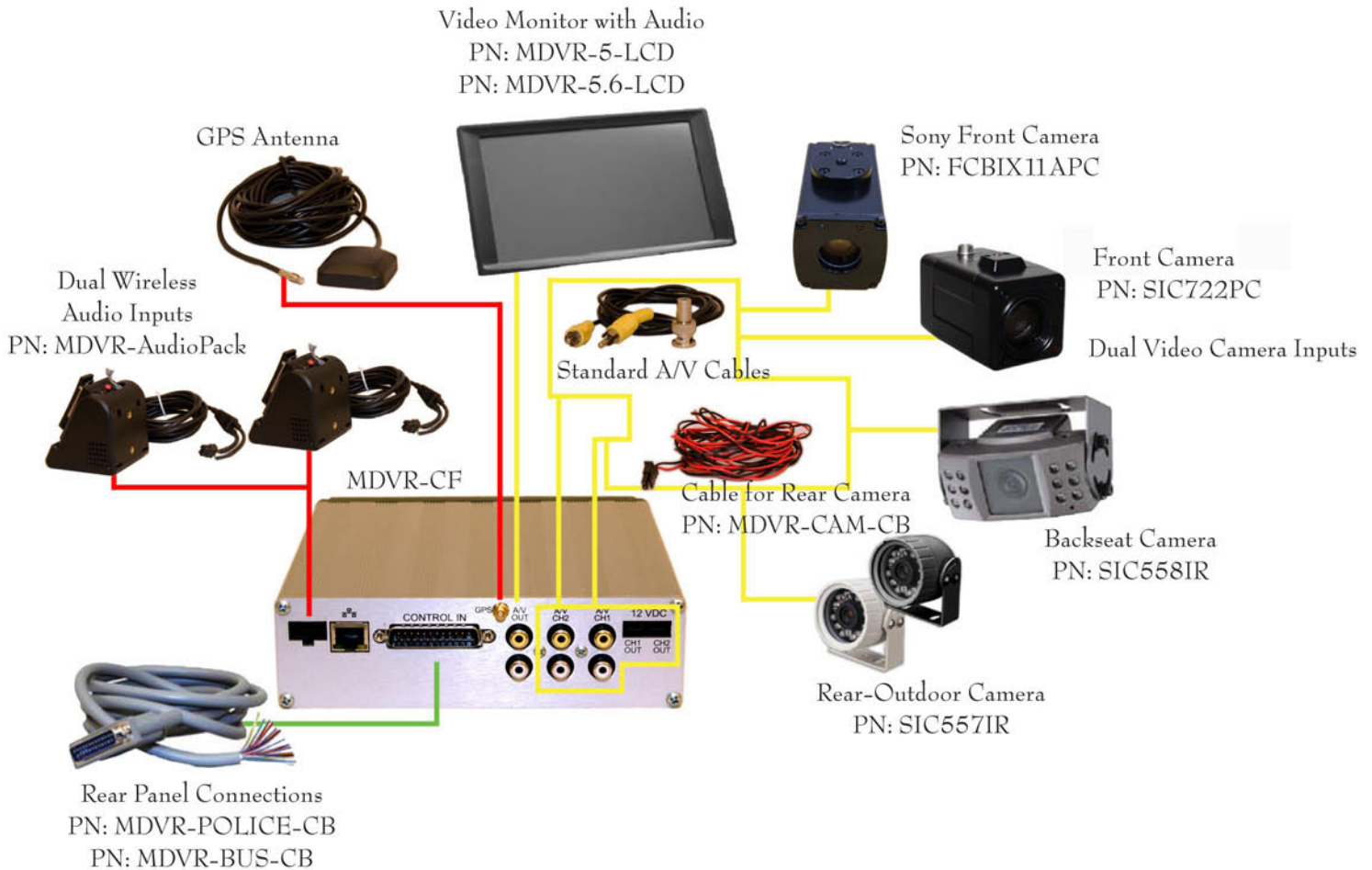
The Mobile Digital Video Recorder (MDVR-CF) is designed as an event based or a shift based audio, video, telemetry and data recorder. After a shift or series of events has been recorded, this unit is designed to transfer the data to a server via wired or wireless connection or through physical removal of the Compact Flash card. This recorder is designed specifically for mobile applications in harsh temperature and high-vibration environments where reliability of the recorded data critical. It features a design with no moving mechanical parts with flash based storage for unsurpassed reliability.

## Unit Features

- ⊗ No moving parts, no internal fan, no audible noise.
- ⊗ Unparalleled Search capability with up to 98x Fast Forward Review.
- ⊗ Optional redundant external storage interface to a hard drive or CD / DVD ROM.
- ⊗ One-touch-zoom camera feature.
- ⊗ Stealth recording mode featuring no lights, no video output and no noise
- ⊗ Integrated GPS position and speed tracking and recording.
- ⊗ Integrated 2-axis accelerometer data recording.
- ⊗ Integrated extended environment meta-data set recording.
- ⊗ Recording of the GPS speed, position and time attached to a video frame.
- ⊗ Synchronization of the unit's time with the GPS satellite system.
- ⊗ Recording to Compact Flash Card media for unmatched reliability.
- ⊗ Selectable record resolution: 640 x 240 or 320 x 240.
- ⊗ Two switched video input ports with multi-trigger controlled switching.
- ⊗ 12V power supply output for the audio subsystem recharging capability.
- ⊗ 12V tolerant six channel configurable multi-event triggered inputs.
- ⊗ Output trigger to control other devices and an external LED record output.
- ⊗ Ethernet port for wired or wireless web browser interface.
- ⊗ Mobile power supply protection to allow direct connection of the unit to a vehicles 12V power supply without the use of any filtering.
- ⊗ Mobile specific embedded operating system for unmatched reliability, security and fast power up times in less than 4 seconds.
- ⊗ Video authentication support via the Graphical User Interface (GUI).
- ⊗ Pre-event recording time up to 60 seconds.
- ⊗ Multiple RS232 serial interfaces including radar data interface data support.
- ⊗ Rugged Aluminum Extrusion construction designed for standard 1 DIN automotive installation.



# Unit Connection Diagram



## Part Numbers

Part Number	Description	Part Number	Description
MDVR-5-LCD	LCD Monitor	MDVR210-CF	Mobile DVR - 2 Channel with Compact Flash, Accelerometer & GPS
MDVR-5.6-LCD	LCD Monitor	MDVR310RHD	Mobile DVR - 4 Channel/Removable/HD/H.264 Upgradeable
MDVR-CAM-CB	Cable for Rear Camera	MDVR-BUS-CB	Cable for Rear Outdoor Camera
MDVR-POLICE-CB	Cable for Front Camera	FCBIX11APC	Camera for Front/Sony
SIC722PC	Camera for Front	MDVR-AudioPack	Dual Wireless Audio Inputs
SIC558IR	Backseat Camera	SI-C557IR	Rear-Outdoor Camera/LED/3.6mm lens/IP66

# Estimated Wireless Transfer Times

MDVR System	Number of Cars	Hours Recorded Video per Car	Total Hours of Video	Hours Wireless Transfer Time
320 x 240 med*	1	4 hours	4 hours	1.5 hours **
320 x 240 med *	20	4 hours	80 hours	3.5 hours for all cars **

\* Download times double for high-resolution 640 x 240

\*\* Estimated download times, multiple cars require simultaneous FTP sessions

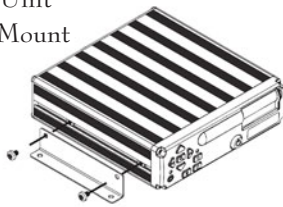
# Specifications

Power Supply Input Rating:	Standard automotive power range; 8 – 24 Volts DC
On Power Consumption w/o Cameras or Audio:	< 270 mA
Off Power Consumption w/o Audio Connected:	< 10 mA
12V Camera Power Output Max:	Two 12V @ 1 Amp regulated switched power outputs
12V Audio Output:	Constant on 12V @ 250mA output
Compression:	Motion JPEG compression w/ selectable compression ratios of: 10:1, 12.5:1, 15:1, 17.5:1, 20:1
Resolution:	Selectable 640 x 240 or 320 x 240
Frame Rate:	Selectable 30 FPS to 1/8 FPS.
Operating Temperature:	0 C ~ 40 C ambient temperature.
External Trigger Inputs:	7 input triggers.
External Signal Outputs:	1 LED driver, 1 Open Collector output.
Archive Media Type:	Type 1 Compact Flash Support
Unit Weight:	1.4kg (3.0 lbs)
Unit Size:	7 in (178 mm) x 2 in (51 mm) x 8 in (203 mm); 1DIN Mountable

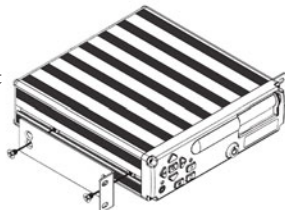
# Mechanical Configurations

- ⊗ Lockable compact flash compartment.
- ⊗ Password protected power down and menu options.
- ⊗ No external lock-box needed for most installations.
- ⊗ Single unit front mount (automotive DIN installation).
- ⊗ Single unit bottom mount.

Single Unit  
Bottom Mount



Single Unit  
Front Mount



Front View



Side View

Unit Dimentions in Inches

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