

EMV400

Compact 4 Channels H.264 Mobile DVR



(Wi-Fi optional)



Features

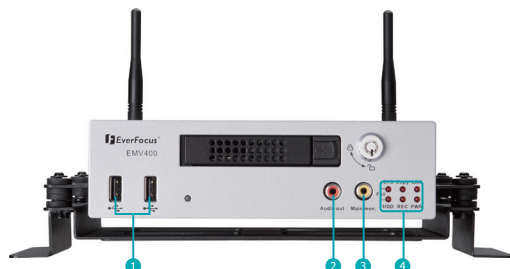
- 4 Channels of video and audio recording
- 1-DIN car audio size
- Recording Rate: 60fps@D1 resolution / 120fps@2CIF / 240fps@CIF resolution (with global settings; record rate, resolution and quality can be set independently per-camera up to the maximum of 240CIF-equivalent fps)
- H.264 compression format for efficient disk and network utilization
- Front and rear panel video outputs for easy connection and configuration
- Special Graphical User Interface design for use with mobile small-sized monitors
- Molex connectors for shock & vibration resistance; interface cables to BNC, RCA and power jacks supplied
- Alarm Inputs & Outputs: 6 & 2 (alarm outputs are form "C")
- Embedded 3-axis G Sensor function with separate programmable alarm levels for X/Y and Z axis
- Supports single 2.5" SATA hard disk standard (up to 1TB)
- Supports multiple interfaces: 3xUSB, RS-485, RS-232, GPS port, wired Ethernet, IR Remote Control
- Optional wireless 802.11 b/g with diversity antennas
- Provides camera power for 4 cameras ; interface cables to power jacks supplied
- Optional External EDGE / GPRS / CDMA / WI-FI Modules for cellular/specialized wireless transmission
- GPS function tracks speed and geographic limits (optional external GPS receiver)
- Power Supply: 10V~36VDC with Surge Protection, Voltage Regulator, programmable Delay on/off
- Temperature: -40°C~55°C (Operating), -40°C~85°C (Non-Operating)

Specifications

Video Format	NTSC/PAL (auto detected by system)
Operating System	Embedded Linux with special small monitor friendly GUI
Video Input	4 channels (vibration resistant locking Molex connectors – Interface cables to BNC-F supplied: two groups of 2 cameras each)
Video Output	Main monitor: 1 composite BNC rear panel / 1 front panel RCA output
Video Compression	H.264
Video Display	Full, 4/9/12, Sequence
Recording Resolutions (set independently per camera)	NTSC: 720x480 / 720x240 / 360x240 PAL: 720x576 / 720x288 / 360x288
Audio Inputs	4 line in (vibration resistant locking Molex connectors - Interface cables to RCA-F supplied: two groups of 2 cameras each)
Audio Outputs	1 front panel RCA line out
Alarm Inputs	6 alarm inputs (vibration resistant locking Molex connectors - Interface cables supplied)
Alarm Outputs	2 alarm outputs (form "C"; contacts rated at 30V AC/DC @ 1 amp – interface cables supplied)
Storage	2.5" HDD x 1 (up to 1TB)
Recording Rate	NTSC: D1 60Fps, 2CIF 120 fps, CIF 240 fps PAL: D1 50 Fps, 2CIF 100 fps, CIF 200 fps (Per camera resolutions and record rates can be set individually per camera through the OSD menus up to the maximum record capacity of 240 (200)FPS@CIF
Recording Mode	Continuous recording, event recording, continuous + event recording (Rate and resolution in each mode set independently per camera)
Record Quality	Adjustable in five levels per camera per Record Mode
Pre Alarm Recording	Optional; 5 second interval
Playback Rate	NTSC: D1 60fps, 2CIF 120fps, CIF 240fps PAL: D1 50fps, 2CIF 100fps, CIF 200fps
Playback Search	Time/Date, event search
Video Loss Detection	Yes
Event Alarm	Fan failure, hard disk temperature, hard disk failure, hard disk full, hard disk removed, power loss (after power is restored), network loss, GPS loss, GPS speed, GPS fencing, G sensor limits
Email Alert	Multiple email notifications in response to alarms and events (Requires real-time network connectivity through cellular or WiFi service)
G Sensor	Embedded 3-axis G Sensor; data recorded; alarm if separate user limits for X/Y or Z axis exceeded
GPS Function	Optional External GPS Sensor for speed and geographic limit alarms (rectangular or circular fencing)
Configuration Method	On screen menu with 'portable monitor friendly' graphical user interface
Control/Setup	IR remote control, USB mouse, network I/F
Real-time Clock	Can be synchronized to GPS/NTP time source; flexible DST settings
Watchdog Function	Reboots DVR automatically if required
Networking	RJ45 socket, 10/100Mbps; 802.11b/g WiFi, diversity antennas TCP-IP / DHCP / PPPoE / DDNS / SMTP / SSL / POP3 / HTTP / NTP
System Warnings	System fail LED : HDD full, HDD/Sys Temp, Fan fail, HDD fail LED : HDD power off, HDD failure
File Export	USB 2.0 interface
Interfaces	RS-232 x 2, RS-485, USB x 3, GPS port
Power Source	10V~36VDC (Built in surge protection, voltage regulation, programmable Delay On/Off relative to ignition or other switched voltage) Total current 5.5 amps @ 12VDC with 4ch x 450mA cameras
Camera Power Outputs	900mA for camera 1~2 and 900mA for camera 3~4. Vibration resistant locking Molex connectors – interface cable provided to coaxial power plugs: 2 x groups of 2 cameras
Dimensions (W x D x H)	DVR alone: 178 x 50 x 199mm/7" x 2" x 7.8" (1-DIN size) DVR in mount with antennas 272 x 145 x 224mm/10.7" x 5.7" x 8.8"
Weight	DVR without mount 1.7kg/3.75lbs DVR with mount 2.15kg/4.74lbs
Operating Temperature	Working Temperature: -40°C~55°C / -40°F~131°F Storage Temperature: -40°C~85°C / -40°F~185°F
Certificates	CE, FCC

Major Operating Controls

Front View



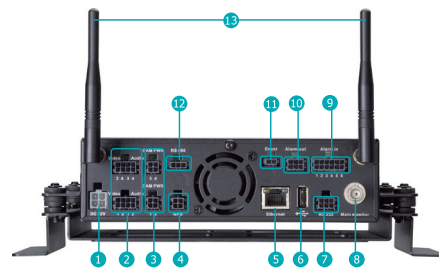
Front

- ① USB Port
- ② Audio Out
- ③ Main Monitor
- ④ System Status LEDs

Rear

- ① Power Input
- ② Video & Audio Input (4)
- ③ Camera Power Output (4)
- ④ GPS Data Input
- ⑤ Network Connector

Rear View

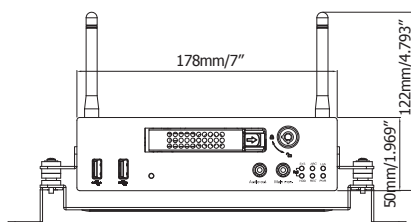


- ⑥ USB Port
- ⑦ RS232
- ⑧ Main Monitor Out
- ⑨ Alarm Input (6)
- ⑩ Alarm Output (2 x Form 'C')
- ⑪ Event Input
- ⑫ RS485 Input
- ⑬ 802.11 b/g WiFi

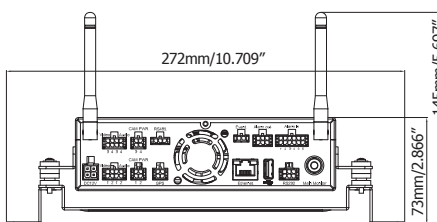
- Front & back panel controls vary depending on models

Dimensions

Front View



Rear View



Side View

