

# Power and Performance Explorer® DX12

The Explorer DX12 represents the most powerful mobile digital recorder on the market today. Featuring the highest resolution and frame-rate combination available, the DX12 delivers outstanding image quality with the most advanced video storage technology. The system offers 12 channels with the ability to simultaneously record 30 frames-per-second at 720 x 480 resolution on all channels, and dual hard drives provide double the recording capacity of conventional DVRs.

The DX12 facilitates incident management through real-time viewing. Dual streaming technology records two video streams, one lower resolution stream for viewing over a cell phone network, and one high-resolution stream for playback on a PC. The DX12 includes an inertia sensor, which logs and displays G-force data and provides incident alerts. An automated Health-Check monitors DVR and hard drive status and notifies the administrator of any issues, ensuring all onboard events are captured. Supported features include geo-fencing, which allows a system administrator to designate a geographic boundary and receive notification if a vehicle deviates.

Installing the DX12 is quick and easy through an intuitive graphical configuration user-interface. Easy-to-use software allows the system administrator to track vehicles and retrieve key details about an incident using video footage synchronized with mapping software.

- Supports up to 12 cameras with audio.
- Features H.264 compression to provide premium image quality.
- Stores up to 2 TB of video for maximum video retention time.
- Delivers high detail with 720 x 480 at 30 FPS on all channels.
- Monitors DVR and HDD status with Health-Check.
- Includes a built-in 3-axis accelerometer to provide critical vehicle data.
- Doubles the reliability of a single HD system with a dual HD.
- Provides an alert if a vehicle leaves its designated area (geo-fencing).
- Records two information streams utilizing dual stream technology – one stream for hi-res playback, and one for real-time viewing over a GPRS or other cellular network (with optional equipment).



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DX12

## Specifications

Video	
Recording Channels	12 video channels, 12 audio channels
Video Resolution	720 x 480 D1
Recording Rate Main Stream	30 FPS on all video channels at D1 resolution (360 FPS aggregate)
Recording Rate Second Stream	720 x 240 or 360 x 240 at 1, 3, 5 FPS
Compression	H.264
Quality Settings	Adjustable, 4 levels
Auto Overwrite	Selectable on/off protected alarms
User Interface	OSD with remote or mouse, web browser, vMax® software suite
Timer	12 programmable timers
Delay On/Off	Selectable 0 to 4 hours
On-Screen Display	Voltage, time & date, HDD size, % full, alarm count, internal temperature
Dual Streaming	Technology that sends small, low-bandwidth video images live over a cell phone network (120 FPS)
Storage	
Fail Safe Design	In case of HD failure switches recording to the other HD
Media	Removable media cartridge supports dual mobile hard drives
Capacity	Up to 2 TB
Extended Capacity	eSATA port for additional external storage drive
Input/Output	
Alarms	4 alarm inputs
Signals	10 signal inputs
Network Interface	3-port Ethernet switch (TCP/IP)
Event/Diagnostic Button	An indicator panel that marks events for quick searches, auto downloads and displays DVR status
Video Out	1 BNC

Smart Features	
Smart-Temp™	Ensures the DVR stays at its optimal operational temperature
Smart-Start™	Safeguards the DVR against electrical spikes with vehicle start-up voltage protection
Smart-Link™ Module	Makes DVR installation quick and easy using a wiring consolidator
Health Check	Monitors recorder, attached cameras and HD drive health status
Wi-Fi Ready	Supports the Smart-Reach industrial mobile Wi-Fi solution
GPS Ready	Records vehicle speed and location with optional GPS receiver; enables synchronized mapping when used with vMax® software
Geo-fencing	Uses GPS technology to set a geographical boundary for a vehicle; receive an alert if it deviates
Inertia Sensor	Includes built-in 3 axis G-sensor
Electrical	
Voltage Range	8 to 32 VDC
Transient Protection	600 W per signal input, 1.5 kW power input
Configuration Backup	Settings retained up to 10 years
Backup Power Controller	Up to 10 minutes (factory option only)
Mechanical/General	
Dimensions (H x W x D)	2.8 x 11.6 x 10.5 in (72 x 294 x 267 mm)
Weight	6.6 lbs (3 kg)
Environmental	
Operating Temperature	-30 to 50°C (-22 to 122°F)
Approvals	
Emissions	FCC
Safety	UL