

# DH4v2

## 4-Channel, High-Definition DVR

Record up to 4 camera views in full high-definition (1080p) plus 1 IP channel up to 4K resolution while maintaining support for HD (720p) and SD Analog.

Get premium image quality, full motion video, and valuable extras such as built-in GPS and the latest wireless transmission standard, speed, acceleration, and geo-fencing alarms, plus remote DVR health monitoring via hardware and software options.



### Full High-Definition Surveillance

Record from up to four built-in, full high-definition (1080p) channels or up to five with IP expansion.

### Hybrid Technology

Supports IP, full high definition (1080p), high definition (720p), and standard definition analog cameras.

### Remote Diagnostics

Remote diagnostic indicator provides DVR status (includes video loss) to the vehicle operator and advanced DVR health diagnostics are available on VMS software.

### Valuable Built-In Options, Now Standard

Standard options Wi-Fi & GPS enable automatic download and geo-tracking capabilities right out of the box.

### Media Options

Up to 4TB primary storage and backup storage options up to 1TB.

### Tested Tough for Heavy Duty Road Vehicles

Tested against SAE-J1455 & MIL-STD-810 for electronic equipment used in heavy duty vehicles (includes shock, vibration, voltage fluctuations, and more).

### Recommended Cameras:

#### Analog Options:



HD2Q Interior Dome



HD3Q Interior Dome



HD3U Interior Camera



HD3W Outdoor Wedge

#### IP Options:



C3Q9 Interior Mini Dome



C3W9 Outdoor Wedge



C8Q2 4K



C12F2 360°

#### Accessories:



"RGY-Button" Event Diagnostic Module



Hard Drive Dock III



GPS Antenna



G-Force Sensor



Wi-Fi Antenna

### Optional Add-ons:



Wi-Fi auto-download & Video management



Live GPS Tracking



Live Video Streaming

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Video	
<b>Recording Channels</b>	4 channels built-in plus one via IP expansion with one audio channel per active video channel
<b>Video Resolution, Analog</b>	Main: Up to 1920x1080 (1080p) Second: 704x240 or 480x272, camera dependent
<b>Record Rate, Analog</b>	Main: Up to 30 FPS at 720p Main: Up to 30 FPS at 1080p (60 FPS Max, Shared) Second: Up to 5 FPS all channels
<b>IP Expansion</b>	1 IP camera via injector
<b>IP Camera</b>	Up to 3 Megapixel, 30 FPS, 10 Mbps
<b>4K Support</b>	Up to 1 IP channels at 3840x2160 (8Mpx)
<b>Quality Settings</b>	Adjustable, 4 levels
<b>Codec</b>	H.264
<b>Auto Overwrite</b>	Selectable On/Off
<b>Display Modes</b>	1UP, 4UP, 5UP
<b>Playback Rate</b>	Frame advance, FFD and REV playback up to 32x
<b>Search Function</b>	Segment, alarm, date/time, event
<b>User Interface</b>	OSD with mouse, web browser, Evidence Manager video review software
<b>Delay On/Off</b>	Record On Delay ≤ 1 Hour Record Off Delay ≤ 1 Hour Power Off Delay ≤ 4 Hour
<b>On-Screen Display</b>	Main title, time & date, record & system status
<b>Dual Stream Transmission</b>	Transmit main or second stream live video and audio over an optional broadband (cellular) network
Storage	
<b>Primary</b>	Removable Storage Cartridge HDD/SSD: 500GB, 1TB, 2TB SSD Only: 4TB
<b>Backup</b>	Type: SDHC/SDXC Media (Optional) Size: 32GB, 64GB, 128GB, 256GB, 512GB, 1000GB (1TB)
Input/Output	
<b>Network Ports</b>	Front: 1 Port Rear: 2 Port, 1 at 12V PoE
<b>Monitored Inputs</b>	7 (5 Signals + 1 Wake + 1 Alarm)
<b>Video Out</b>	1 Front with Audio, 1 Rear
<b>Status Indicators</b>	3 LED on DVR + Optional Diagnostic Indicator
<b>Signal Out</b>	1 at 12V, 100ma max
Wireless	
<b>GPS</b>	Built-in GPS with antenna port
<b>Wi-Fi</b>	Built-in 802.11 (AC, AN, BGN) with dual antenna ports

Smart Features	
<b>Smart-Temp™</b>	Ensures the DVR stays at its optimal operational temperature
<b>Smart-Start™</b>	Vehicle startup voltage protection safeguards DVR from electrical spikes
<b>Smart-Stop™</b>	Shuts down DVR if download activity is complete (requires Commander)
<b>Temp Power</b>	Turns on DVR for short duration maintenance activities
<b>Inertia Sensor</b>	3-axis external G-Sensor option
Electrical	
<b>Voltage Range</b>	9 to 36 VDC Operating
<b>Transient Protection</b>	600 W for power input, 400 W per signal input
<b>Configuration Backup</b>	Time & programmed info (retained up to 7 years)
Mechanical/General	
<b>Dimensions (H x W x D)</b>	2.5 x 7.0 x 11.5 in (64 x 178 x 292 mm)
<b>DVR Weight</b>	5.3 lbs. (2.4 Kg) with front door and rear shroud
<b>Locking Front Door</b>	Restricts access to user interfaces ports and media
<b>Rear Shroud</b>	Added protection for rear ports and connectors
<b>Primary Storage Lock</b>	Restricts access to media removal
Environmental	
<b>Operating Temperature</b>	HDD: -30 to 50°C (-22 to 122°F) SSD: -40 to 60°C (-40 to 140°F)
Approvals	
<b>Emissions</b>	FCC Part 15, Class A
<b>Shock, Vibration, &amp; Electrical</b>	Tested against SAE-J1455 and MIL-STD-810G standards for Heavy Duty Vehicles
Specifications – Plus System	
<b>Signals</b>	5 external signal inputs + 5 internal signals
<b>Alarms</b>	4 actions triggered by a signal or alarm input
<b>Wake</b>	Starts DVR directly into record mode
<b>Diagnostic Indicator</b>	Remote DVR status display
<b>Event Button</b>	2 alarm inputs, each adds an event mark to video
<b>Location, Speed, Time</b>	Automatically sync time and record vehicle location and speed (GPS antenna required)
<b>Geo-fencing</b>	Trigger alarm if vehicle exits geo-boundary

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