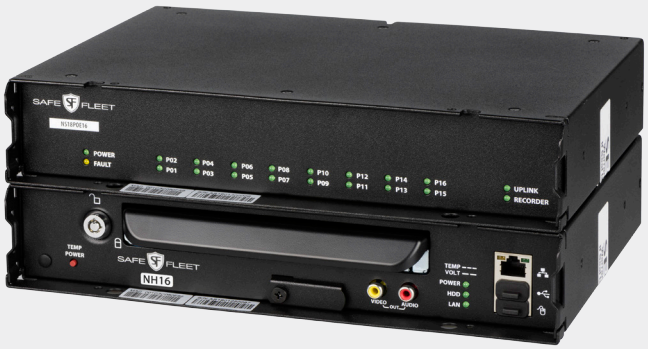
NH16 NVR Hybrid

16 Channel Network Video Recorder with Hybrid Technology

Record 16 IP channels or mix with existing High Definition analog cameras

16 channels meets todays coverage demands and high quality images, automatic event capture, geo-fence alarms, and NVR Health Checks ensure video is there when you need it. Hybrid technology preserves the value of existing camera investments



High Resolution & Full Frame Rate

Capture every detail with resolutions up to 1080p and 30 FPS on every channel.

Video Loss Protection

Supercap technology ensures your NVR continues to record even after a sudden power loss during an accident.

Flexible Hybrid Technology

Support the latest IP, existing Analog High-Definition, or old style standard definition cameras on this highly flexible recorder.

Companion Network Switch

Purpose built network switch operates in tandem with recorder, automaticallly assigns network addresses, and powers IP cameras.

Compatible Cameras:

Analog:

HD3Q
Interior Dome

HD3W
Outdoor Wedge

HD3U
Ultra Wide

IP Options:

C3Q9
Interior Mini Dome

C3W9
Outdoor Wedge

Optional Add-ons:

Wi-Fi auto-download & Video management

Live GPS Tracking

Live Video Streaming

Accessories:

Event/ Diagnostic Button

Hard Drive Dock III

GPS

G-Force Sensor

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NVR Specifications

Video	
Recording Channels	16 Active Channels Max, 16 IP via switch, 8 Analog Hi-Def Built-In, One audio per active video
Video Resolution	Max resolution 1920x1080 (1080p)
Record Stream Rate	Main: 30 FPS max per active channel Second: 5 FPS max per active channel
Quality Settings	Adjustable, 4 levels
Auto Overwrite	Selectable On/Off
Display Modes	1- Up or 16 - Up
Playback Rate	Frame advance, FFD and REV playback up to 32x
Search Function	Segment, alarm, date/time, event
User Interface	OSD on local video out with mouse or vMax Web using web browser
Delay On/Off	Record Delay on ≤ 1 hr Record Delay off ≤ 1 hr Record Delay off ≤ 4 hr
On-Screen Display	Main title, time & date, record status
Dual Streaming	Capable of sending low-bandwidth video images live over an optional broadband (cellular) network
Storage	
Primary	Hard Drive
Secondary	SDHC/SDXC Media (Optional)
Primary Capacity	Removable cartridge supports single or dual drives with capacities up to 4TB (HDD or SSD)
Secondary Capacity	Up to 512GB
Input/Output	
Network Interface	5 port Ethernet switch (TCP/IP)
Alarm Inputs	2 Alarm Inputs (Panic Button & General Use)
Video Out	1RCA
Smart Features	
Smart Temp™	Keeps NVR within optimal operating temperature
Smart Start™	Safeguards the NVR against electrical spikes with vehicle start-up voltage protection
Inertia Sensor	External G sensor (Optional)
Electrical	
Voltage Range	8 to 32 VDC
Transient Protection	600 W for power input, 400 W per signal input
Wiring Harness	20' (6m) harness for power
Configuration Backup	Time & programmed info (retained up to 10 years)
Mechanical/General	
Dimensions (HxWxD)	2.8x 11.6x 10.5 in (72 x 294 x 267 mm)
NVR Weight	6.6 lbs (3 kg)
Environmental	
Operating Temperature	-30 to 50°C (-22 to 122°F)
Approvals	
Emissions	FCC (Title 47, Part 15, 47 CFR 15)
Vibration	SAE-J1455, MIL-STD-810G

Specifications - Plus System	
Signals	5 external signal inputs + 5 internal signals
Video Alarms	4 internal alarms linked to signals, alarm inputs, or other internal triggers
Event/Diagnostic Button	An indicator panel that marks events for quick searches and displays video system status
GPS Ready	Records vehicle speed and location with optional GPS receiver; enables synchronized mapping when used with compatible software
Geo-Fencing	Uses GPS technology to set a geographical boundary for a vehicle; receive an alert if it deviates
SuperCaps	Protects against video loss in case of a sudden power disruption such as during an accident
Communication	Optional external Wi-Fi

Network Switch Specifications

Ethernet Standards	IEEE802.3i/u/ab(10/100/1000BASE-T)
Power over Ethernet	IEEE802.3at Class 3 subject to Output Power Limits
Ports	2 x Gigabit Ethernet Ports 16 10/100Mb/s PoE Ports
Transmission Speeds	1000Mb/s, 100Mb/s, 10Mb/s
Switch Technology	Store and Forward
Protocol	CSMA/CD
MAC Address Table Size	8KB
RAM Buffer	512KB
Switch Capacity	16 Port @ 100Mb/s + 2 Port @ 1 Gb/s
Electrical	
Input Voltage (DC)	to 33.6 VDC
Minimum Startup	9 VDC
Input Current	12A Maximum (fused)
PoE Port Rating	IEEE802.3at 12.95W at powered device
Output Power Limits	86W (12V source) 112W (24V source)
Control Levels (DC)	0 - 4VDC = OFF / 4.1V - 33.6VDC = ON
Environmental	
Operating Temperature	-40°C to 55°C (-40°C to 131°F)
Approvals	
Emissions	FCC (Title 47, Part 15, 47 CFR 15) and EN50155
Vibration	Shock and Vibration Tested against SAE-1455 and MIL-STD 810G and EN50155
Environmental	RoHS and WEEE

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