

Overview

The UltraView™ EVP (Enterprise Video Platform) Series is part of a cohesive family of high-performance equipment featuring advanced technology and an open framework that is well suited for enterprise security challenges. The recorder is seamlessly integrated via the UltraView EVP Video Operating System (VOS) shared by other UltraView EVP video recorder/encoder/storage units. This ensures all devices meet the needs of both fixed- and mobile-platform video applications, as well as provide an integration platform for access control and other industry-specific functions. This all-in-one device is easy to configure and combines both analog and IP video inputs with a variety of functions: digital video encoding, decoding, and streaming with internal and external attached storage and video content analysis.

A self-contained segment of the UltraView series of products, the UltraView EVP Recorder 80 is a video-acquisition, data-collection and streaming device for the UltraView EVP Series. Part of a family of multi-function video recorders, the EVP Recorder 80 uses the latest and most powerful H.264-SVC compression available for improved video quality, flexibility and efficient bandwidth usage.

Central to the system are the video boards and their analog encoding capability—the Recorder 80 offers 6–30 channels and each channel is independently configurable. This unit is designed for mission-critical video applications where high video availability is required. This modular and expandable industrial design features replaceable/upgradeable video codec boards, alarm input/output modules and multiple-channel RS232/422/485 connectivity. Additional features include hot-swappable redundant power supplies and a hot-swappable fan assembly that uses compact PCI (CPCI) connectors to meet rail and transportation vibration standards. With a simple software upgrade, the six-channel video boards accept extensions and new compression methods for enhanced programmability.

Primarily, the unit acts as a multi-channel encoder supporting direct attached video storage via the VisioWave™ VRU RAID 5 storage units. In high-density network video environments, the new UltraView NVR 80 SAS Storage Server and NVS 80 SAS Storage Bays are used. Orderable configurations also include up to 1TB internal storage. Other capabilities such as PTZ camera control, alarm inputs and outputs and IP camera support—along with embedded content analytics including activity detection and camera/system health monitoring—make this one of the most powerful units in its class.

UltraView™ EVP Series

EVP Recorder 80

with 6-30 channels



Standard Features

H.264-SVC (Scalable Video Codec)

- Latest, most advanced compression standard
- Scalable multi-streaming technology provides more than six simultaneous stream combinations of frame rate and image size
- Supports multiple simultaneous live, recorded and video analytic profiles
- Reduced bandwidth (15–30%) and better image quality compared to MPEG4-ASP
- Same quality from PTZ as from fixed cameras

A modular, scalable, fault-tolerant network surveillance solution

- Start with 6 channels and expand to 30 channels by field addition of 6-channel video boards
- All ports simultaneously support 30 FPS (4CIF) and are independently configurable
- Redundant hot-swappable power supplies, hot-swappable fans
- Industrial 4U-19" rack mountable form factor; 12" deep
- Dual GB Ethernet interfaces
- Simultaneous video content analysis on all analog ports
- Up to two serial ports for pan-tilt-zoom control (expandable)
- Up to 32 alarm inputs x 16 outputs via optional module
- 6 audio inputs x 3 outputs via optional module
- 1TB internal storage via orderable configuration
- Extended direct attached storage via VisioWave VRU RAID 5 storage bays (maximum = 2 bays, 32TB)
- Extended remote storage via UltraView NVR 80 RAID 5/6 Storage Server and NVS 80 RAID 5/6 Storage Bays

Simple to configure and install

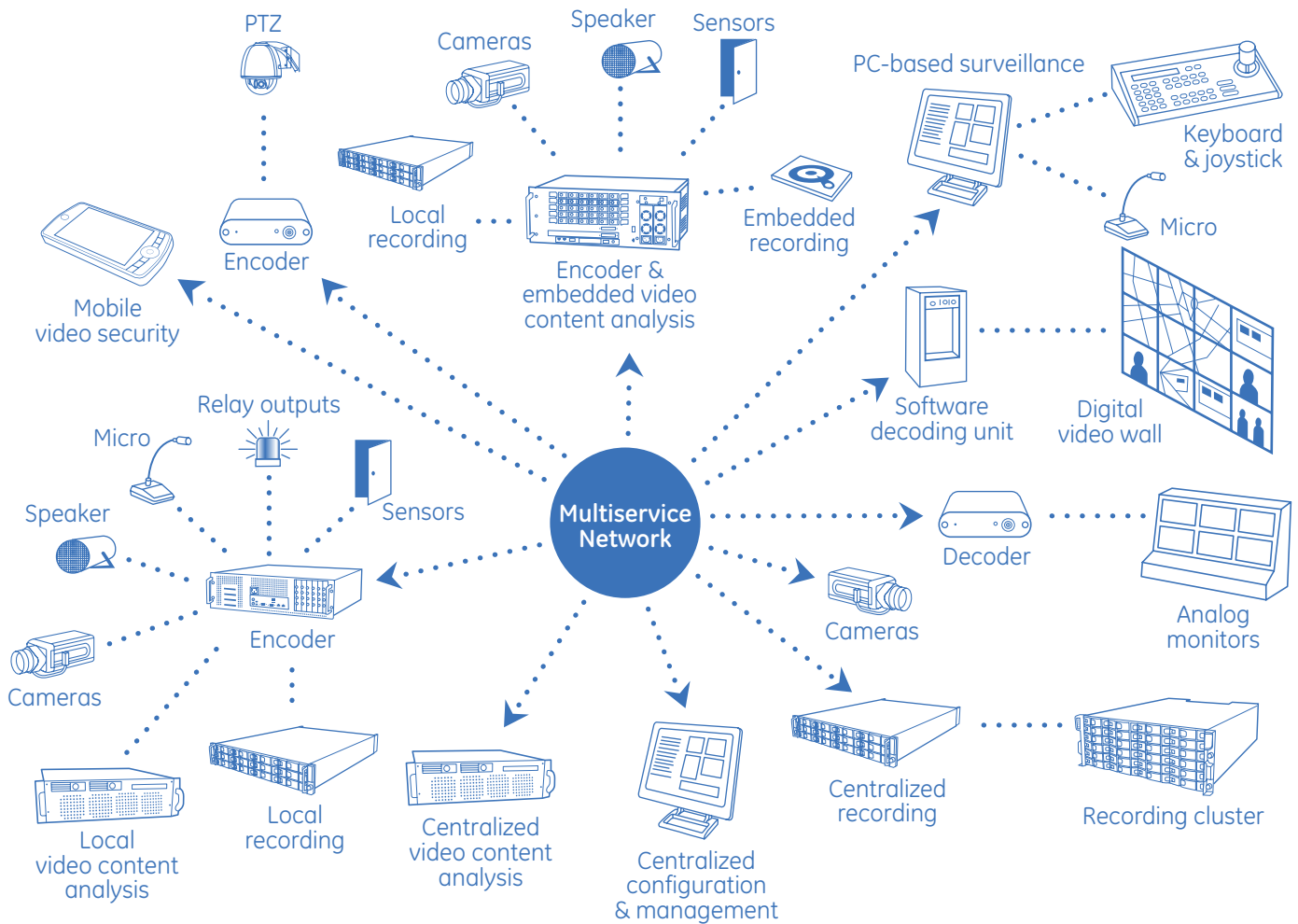
- Remote system-wide configuration with easy-to-use software
- All-in-one device: encode, stream and record for both analog and IP inputs
- Front panel access to all ports and interfaces

Leverage the power of the UltraView EVP VOS

- Common VOS allows all UltraView EVP devices to work together
- Distributed intelligence for more flexibility
- Simultaneous local and centralized storage
- Supports video protection, video redirection (device to device) and authentication
- Supports IP camera integration and management



UltraView™ EVP Network Configuration



Integration Matrix	UltraView™ EVP Recorder 80
VSC 4.1.1 and above	X
VOS SDK 4.1.1 and above	X
GE Nav v2	
Facility Commander™ v.2 or higher	X
Facility Commander Wnx v.5 or higher	X

IP Camera Support Matrix*	UltraView EVP Recorder 80
TruVision™ IP Dome (CamPlus IP)	X
UltraView™ IP (CamPlus 2 IP)	X
GE Legend™ IP	X
GE UltraView EVP Series Encoder 10 with analog camera	X
Axis (various models)	X
Panasonic (various models)	X
ACTi (various models)	X

*New IP makes and models are continually being added. Please check with your GE sales representative for the current list of supported products.

Storage Support Matrix	UltraView EVP Recorder 80
Direct-Attached SCSI VRU Units	X
Network Storage via UltraView NVR 80	X
Network Storage via UltraView Recorder 40/60	X

Specifications

Physical	To assure high maintainability, UltraView Series 80 Recorder offers front access to common interfaces (redundant power supply, fan drawer module, video ports, network connections)
Construction	Compact PCI form factor with aluminum frame and galvanized sheet steel
Dimensions	17.48 (w) x 6.89 (h) x 12.0 (d) inches 4U-19" Rack Mount 444 (W) x 175 (H) x 305 (D) mm
Weight	57.2 lbs. (26kg) with 30 video channels
Power supply	2 redundant, hot-swappable power supply units (2 x 300W) with automatic selection of power line input range (110V-230V)
Power consumption	TBD
Cooling device	3 fans providing forced cooling air mounted on a removable fan drawer assembly
Temperature operating	32°F to 113°F (0°C to 45°C), max. 90% relative humidity
Unit storage	-4°F to 140°F (-20°C to 60°C)
Conformity	EMC 89/336/EEC (EN 55022 Class B, EN 55024); Low voltage, EMC 72/23/EEC (EN 60950); EMC EN50121-4; FCC: CFR 47, Part 15, Sub part B, Class 1 digital devices; RUL, CUL (Power supply)
Interface modules	UltraView Series 80 Recorder offers: FRONT SLOTS: up to 6 slots for up to 5 video codec modules, 2 Serial communication modules, 2 Alarm Input/Output modules; REAR SLOTS: one slot for (1) audio module (6 input x 3 output)
Serial comm module	Up to (2) Serial communications modules that each support any combination of (4) RS232, RS422 or RS485 daughter cards
I/O module	Up to 2 Alarm Input/Output Modules (16 input x 8 output)
Audio module	6-Channel Audio Input x 3-Channel Audio Output module (maximum 1)
System	
CPU	Intel® Pentium M 1.6 GHz processor minimum
Memory	16GB RAM
Internal storage	<ul style="list-style-type: none"> 1 system HDD Optional configuration: 2 x 500GB SATA drives
Attached storage	Supports up to two (2) VisioWave™ SCSI direct-attached VRU 8/12/16 Bay Storage Units
External storage	Separately order UltraView NVR 80 SAS Storage Server or other UltraView EVP 40 or 60 Recorders
Standard ports	1 each PS2 for Keyboard, Mouse 1 each SVGA monitor port 1 each 68-PIN SCSI port 2 each USB 2.0 ports 1 each RS485/422 9-pin UART serial connector for PTZ camera control
Networking	Embedded dual Ethernet 10/100/1000 gigabit Ethernet LANs <ul style="list-style-type: none"> IP multicast, unicast and multi-unicast support Ethernet/IP CoS support (802.1p/Q) Bandwidth throttling: settable bandwidth limits per channel
System monitoring	Remote alarm notification through SNMP/HTTP, e-mail or pager
Alarm module	Audible and visual notification for local system status
CPU monitoring	Fan, temperature, watchdog timer, voltage, etc.
Video operating system	GE VOS 4.1.1 and above
Device operating system	Windows WEPOS
Video	Latest H.264-SVC compression
Video channels	6-, 12-, 18-, 24-, 30-channel (factory configured); any lower channel configuration can be field-updated via additional 6-channel code boards (encode only)
Video format	NTSC (720x486 @ 30FPS), PAL (720x576 @ 25FPS); 6 BNC composite video @75 Ohm per video board

H.264-SVC compression

H.264-SVC compression delivers the best image quality for the bandwidth available in the industry. Unlike other H.264 or MPEG4 compression, GE's codec features true multi-streaming capability. This allows a single encoding process to provide multiple simultaneous combinations (profiles) of image size (4CIF/2CIF, CIF, QCIF) to be extracted at various frame rates. This flexibility means much greater control managing and optimizing bandwidth needs across the network. The scalable H.264-SVC stream also doubles the number of simultaneous video streams that can be displayed on client workstations compared to other H.264 compression schemes.

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F 852-2142-5063

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T 61-3-9239-1200
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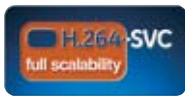
Europe
T 32-2-725-11-20
F 32-2-721-40-47

Latin America
T 305-593-4301
F 305-593-4300

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Specifications subject to change
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Ordering Information

Part Number	Description
UVR-8006-0T	UltraView™ Recorder 80 (Evolution 3005): 6 Video Ch, No HDD, No Option Cards
UVR-8006M1-0T	UltraView Recorder 80 (Evolution 3005): 6 Video Ch, No HDD, (1) Alarm I/O Module
UVR-8006M2-0T	UltraView Recorder 80 (Evolution 3005): 6 Video Ch, No HDD, (1) Main Serial Comm Board
UVR-8006M3-0T	UltraView Recorder 80 (Evolution 3005): 6 Video Ch, No HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UVR-8006-1T	UltraView Recorder 80 (Evolution 3005): 6 Video Ch, (2) Internal HDD, No Option Cards
UVR-8006M1-1T	UltraView Recorder 80 (Evolution 3005): 6 Video Ch, (2) Internal HDD, (1) Alarm I/O Module
UVR-8006M2-1T	UltraView Recorder 80 (Evolution 3005): 6 Video Ch, (2) Internal HDD, (1) Main Serial Comm Board
UVR-8006M3-1T	UltraView Recorder 80 (Evolution 3005): 6 Video Ch, (2) Internal HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UVR-8012-0T	UltraView Recorder 80 (Evolution 3005): 12 Video Ch, No HDD, No Option Cards
UVR-8012M1-0T	UltraView Recorder 80 (Evolution 3005): 12 Video Ch, No HDD, (1) Alarm I/O Module
UVR-8012M2-0T	UltraView Recorder 80 (Evolution 3005): 12 Video Ch, No HDD, (1) Main Serial Comm Board
UVR-8012M3-0T	UltraView Recorder 80 (Evolution 3005): 12 Video Ch, No HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UVR-8012-1T	UltraView Recorder 80 (Evolution 3005): 12 Video Ch, (2) Internal HDD, No Option Cards
UVR-8012M1-1T	UltraView Recorder 80 (Evolution 3005): 12 Video Ch, (2) Internal HDD, (1) Alarm I/O Module
UVR-8012M2-1T	UltraView Recorder 80 (Evolution 3005): 12 Video Ch, (2) Internal HDD, (1) Main Serial Comm Board
UVR-8012M3-1T	UltraView Recorder 80 (Evolution 3005): 12 Video Ch, (2) Internal HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UVR-8018-0T	UltraView Recorder 80 (Evolution 3005): 18 Video Ch, No HDD, No Option Cards
UVR-8018M1-0T	UltraView Recorder 80 (Evolution 3005): 18 Video Ch, No HDD, (1) Alarm I/O Module
UVR-8018M2-0T	UltraView Recorder 80 (Evolution 3005): 18 Video Ch, No HDD, (1) Main Serial Comm Board
UVR-8018M3-0T	UltraView Recorder 80 (Evolution 3005): 18 Video Ch, No HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UVR-8018-1T	UltraView Recorder 80 (Evolution 3005): 18 Video Ch, (2) Internal HDD, No Option Cards
UVR-8018M1-1T	UltraView Recorder 80 (Evolution 3005): 18 Video Ch, (2) Internal HDD, (1) Alarm I/O Module
UVR-8018M2-1T	UltraView Recorder 80 (Evolution 3005): 18 Video Ch, (2) Internal HDD, (1) Main Serial Comm Board
UVR-8018M3-1T	UltraView Recorder 80 (Evolution 3005): 18 Video Ch, (2) Internal HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UVR-8024-0T	UltraView Recorder 80 (Evolution 3005): 24 Video Ch, No HDD, No Option Cards
UVR-8024M1-0T	UltraView Recorder 80 (Evolution 3005): 24 Video Ch, No HDD, (1) Alarm I/O Module
UVR-8024M2-0T	UltraView Recorder 80 (Evolution 3005): 24 Video Ch, No HDD, (1) Main Serial Comm Board
UVR-8024M3-0T	UltraView Recorder 80 (Evolution 3005): 24 Video Ch, No HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UVR-8024-1T	UltraView Recorder 80 (Evolution 3005): 24 Video Ch, (2) Internal HDD, No Option Cards
UVR-8024M1-1T	UltraView Recorder 80 (Evolution 3005): 24 Video Ch, (2) Internal HDD, (1) Alarm I/O Module
UVR-8024M2-1T	UltraView Recorder 80 (Evolution 3005): 24 Video Ch, (2) Internal HDD, (1) Main Serial Comm Board
UVR-8024M3-1T	UltraView Recorder 80 (Evolution 3005): 24 Video Ch, (2) Internal HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UVR-8030-0T	UltraView Recorder 80 (Evolution 3005): 30 Video Ch, No HDD, No Option Cards
UVR-8030M1-0T	UltraView Recorder 80 (Evolution 3005): 30 Video Ch, No HDD, (1) Alarm I/O Module
UVR-8030M2-0T	UltraView Recorder 80 (Evolution 3005): 30 Video Ch, No HDD, (1) Main Serial Comm Board
UVR-8030M3-0T	UltraView Recorder 80 (Evolution 3005): 30 Video Ch, No HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UVR-8030-1T	UltraView Recorder 80 (Evolution 3005): 30 Video Ch, (2) Internal HDD, No Option Cards
UVR-8030M1-1T	UltraView Recorder 80 (Evolution 3005): 30 Video Ch, (2) Internal HDD, (1) Alarm I/O Module
UVR-8030M2-1T	UltraView Recorder 80 (Evolution 3005): 30 Video Ch, (2) Internal HDD, (1) Main Serial Comm Board
UVR-8030M3-1T	UltraView Recorder 80 (Evolution 3005): 30 Video Ch, (2) Internal HDD, (1) Alarm I/O Module, (1) Main Serial Comm Board
UltraView Recorder 80 - Standard Options	
VVSP-EV-6VID-AP	UltraView Recorder 80 Spare Part (Evolution 3005): 6-Channel CPCI Video Card (Encode Only)
VVSP-EV-COMBOARD	UltraView Recorder 80 Spare Part (Evolution 3005/2809/2800): Serial Communications Board
VVSP-EV-RS422DB	UltraView Recorder 80 Spare Part (Evolution 3005/2809/2800): RS422 daughter board (requires 1 serial communications board per 4 RS422/232/485 boards)
VVSP-EV-RS485DB	UltraView Recorder 80 Spare Part (Evolution 3005/2809/2800): RS485 daughter board (requires 1 serial communications board per 4 RS422/232/485 boards)
VVSP-EV-RS232DB	UltraView Recorder 80 Spare Part (Evolution 3005/2809/2800): RS232 daughter board (requires 1 serial communications board per 4 RS422/232/485 boards)
VVSP-EV05-6AUDIO	Standard option: 6-channel audio board for UltraView Recorder 80 (Evolution 3005) 3005 only (CPCI); Maximum 1 board per chassis
VVSP-EV-I/O-16I/8O	UltraView Recorder 80 Spare Part (Evolution 3005/2809/2800): I/O board (16 inputs / 8 outputs)

Additional configurations are available; please contact your local GE representative for a complete listing.