

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 UltraView EVP Encoder 10/EVP Decoder 10 uses the latest and most powerful H.264-SVC compression available for improved video quality, flexibility and scalability. Combining digital video capture/display, streaming, external storage and analytics within a single unit, this encoder/decoder operates on an IP-based network.

The unit can support one analog video input (UltraView EVP Encoder 10) or one analog video output (UltraView EVP Decoder 10). It includes an integrated PTZ control port, one alarm input and one output. GE video content analysis algorithms also come standard, including Activity Detection and various camera health monitoring services such as camera blur, obscuration and displacement. With all these features combined in an ultra-compact form factor, the UltraView EVP encoder/decoder represents one of the most exciting products in its class.

The UltraView EVP Encoder 10 and Decoder 10 work seamlessly with the full line of UltraView EVP devices including the UltraView Enterprise Video Recorders 40 and 60, as well as UltraView EVP storage servers. Encoded video from the Encoder 10 can be stored on Recorders 40 and 60 as well as UltraView NVR 80 SAS storage servers. Live streams from the Encoder 10 are viewable directly from a VSC client workstation or via an SDK-developed viewing application.

The UltraView EVP Decoder 10 provides decoding to analog monitors of any live or recorded H.264-SVC video stream that originates from any encoder or recorder utilizing H.264-SVC compression. The seamless integration with other EVP devices via the Video Operating System (VOS) ensures all devices meet the needs of video applications, as well as provide an integration platform for access control and other industry-specific functions.

Standard Features

H.264-SVC (Scalable Video Coding)

- 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 stationary cameras

A scalable network surveillance solution

- Part of the Enterprise Video Platform (EVP)
- Hardware encoding (UltraView EVP Encoder 10) or decoding (UltraView EVP Decoder 10) unit
- Supports 30 FPS (4CIF) and video content analysis

Simple to configure and install

- Remote system-wide configuration with easy-to-use software
- Ultra-compact form factor
- Mounting brackets for rack-mount or wall/ceiling

Flexible video redirection

- Video streams can be sent to any recording EVP device that supports H.264-SVC
- Video streams (live or recorded) can be viewed on analog monitors from any EVP H.264-SVC decoding device
- Video streams viewable from VSC (standard GUI) and from any viewer developed from the SDK
- Supports RTP/RTSP transmission protocol

Leverage the power of the UltraView EVP VOS

- Common Video Operating System (VOS) allows all UltraView EVP devices to work together
- Distributed intelligence for more flexibility
- Supports live, playback and recording streams
- Supports video protection, video redirection (device to device) and authentication

UltraView™ EVP Series

EVP Encoder 10/ Decoder 10



North America
T 503-885-5700
T 888-GE-SECURITY
888-437-3287

Asia
T 852-2907-8108
F 852-2142-5063

Australia
T 61-3-9239-1200
F 61-3-9239-1299

Europe
T 32-2-725-11-20
F 32-2-721-40-47

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

gesecurity.com

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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.

Specifications

Physical	Single-channel encoder/decoder with ultra-compact form factor
Dimensions	2.83 (w) x 0.75 (h) x 3.74 (d) inches, Weight: 0.80 lbs.
Power supply	12V DC - 5W external power supply module
Power consumption	5W (full load at 77° F/25° C)
Cooling device	Fanless cooling design
Temperature	Operating 14° F to 122° F (-10° C to 50° C) max. 90% RH Storage: -40° F to 176° F (-40° C to 80° C)
Conformity	FCC Class B (Declaration of Conformity); CE (Declaration of Conformity) European Community EN55022 Class B, EN50130-4, EN60950 CFR47, Part 15 UL60950-1

Interface port	Phoenix Terminal Connector
Serial	1 serial port (1x RS485 master input or output pass-through)
I/O	1 x Input (TTL, compliant with 48V input voltage) 1 x Output (open collector, compliant with 48V external power)
USB	1 x USB 2.0 (for future extensions)

System	
Processor	TI DM6446
System memory	128 MB DDR2

Networking	
	<ul style="list-style-type: none"> Embedded auto-sensing single Ethernet 10/100 Ethernet LAN IP multicast, unicast and multi-unicast support Ethernet/IP CoS support (802.1p/Q)

System monitoring	
	<ul style="list-style-type: none"> Remote alarm notification through SNMP/HTTP, email or pager Alarm module: audible and visual notification for system status Embedded monitoring: temperature, watchdog timer, voltage Running on the UltraView™ EVP Video Operating System (VOS) Requires VOS 4.1.1 software release or higher

Video	
	<ul style="list-style-type: none"> Latest H.264-SVC compression UltraView EVP Encoder10: encoding only UltraView EVP Decoder10: decoding only Low bandwidth and low latency PAL (704x576 @ 25 FPS); NTSC (704x480 @ 30 FPS) 1 BNC composite video @75 Ohm

Ordering Information

UVE-101	UltraView EVP Encoder 10 (Discovery 105E): Single-Channel H.264-SVC Multi-Streaming Intelligent Encoder (Power Supply Ordered Separately)
UVX-101	UltraView EVP Decoder 10 (Discovery 105D): Single-Channel Multi-Streaming Intelligent Decoder (Power Supply Ordered Separately)
UVE/X-101-PS	UltraView EVP Encoder/Decoder (Discovery 105) USA Power Supply
UVE/X-101-RK	UltraView EVP Encoder/Decoder 1U Rack Kit - supports 6 units (non-powered)

