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A 16-CHANNEL VIDEO ENCODER

Delivering the perfect solution for hybrid systems by converting analog camera inputs into streamed IP video data.

The new ENC-H264-16 encoder is the perfect solution for hybrid systems, as it simplifies the migration to network video without upgrading existing analog camera systems. The encoder network-enables up to 16 existing analog cameras and creates an IP-based system, allowing integration with the full range of features of Vicon's Valerus VMS. Customers benefit from leveraging the latest VMS technology while maintaining their legacy investments.

The encoder is based on ONVIF standards and therefore easily interfaces with Valerus VMS and other ONVIF compliant VMS. It incorporates high-quality video and audio encoding compression technology and is designed to support up to 960H, AHD and TVI analog cameras for high-definition quality. AHD/TVI open standard HD analog formats provide 720P and 1080P video over standard coaxial cable; CVBS is traditional standard analog format (up to 960H).

The encoder can be used as a standalone product or as part of a Valerus VMS solution. It supports all types of analog cameras, including PTZ domes with full control over RS-485. The encoder easily mounts on a desktop or in a standard 19" rack.

What are the best uses for the encoder?

The encoder can simplify migration to network video without completely upgrading existing analog camera systems. By upgrading to an IP-based system with Vicon's video encoder, customers gain increased flexibility in camera management while utilizing existing cameras and cabling. Following are three examples that illustrate how the encoder can work with legacy infrastructure:

FEATURES

- 16 channel analog ONVIF encoder optimized for Valerus VMS*
- Supports CVBS (standard analog) up to 960H and AHD and TVI HD analog formats
- Up to 480fps for CVBS, 960H, 720P (analog HD)
- Up to 240fps for 1080P (analog HD)
- 4 audio inputs* and 4 alarm inputs
- Motion detection for each channel
- PTZ control via RS485 (including Vicon protocol)
- Requires a 3rd party license in Valerus

*Does not work with ViconNet VMS
** Will be supported soon

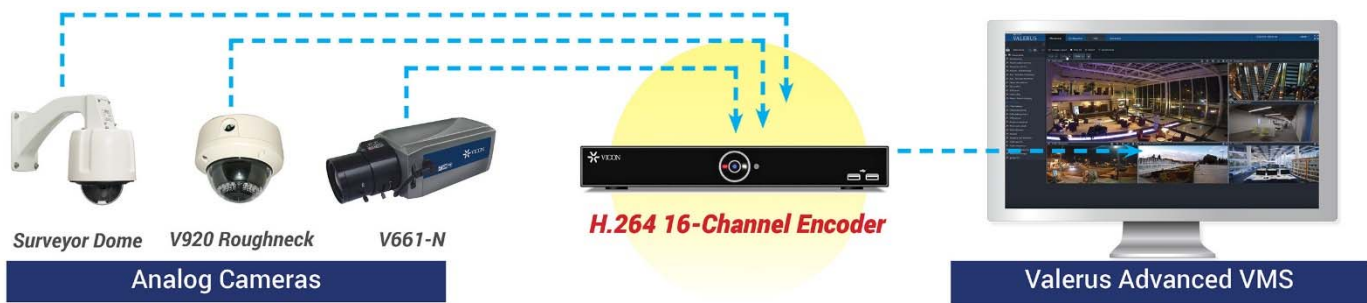
Works with Analog CCTV, AHD, and HD-TVI Cameras

AHD
720p / 1080p

HD-TVI
720p / 1080p

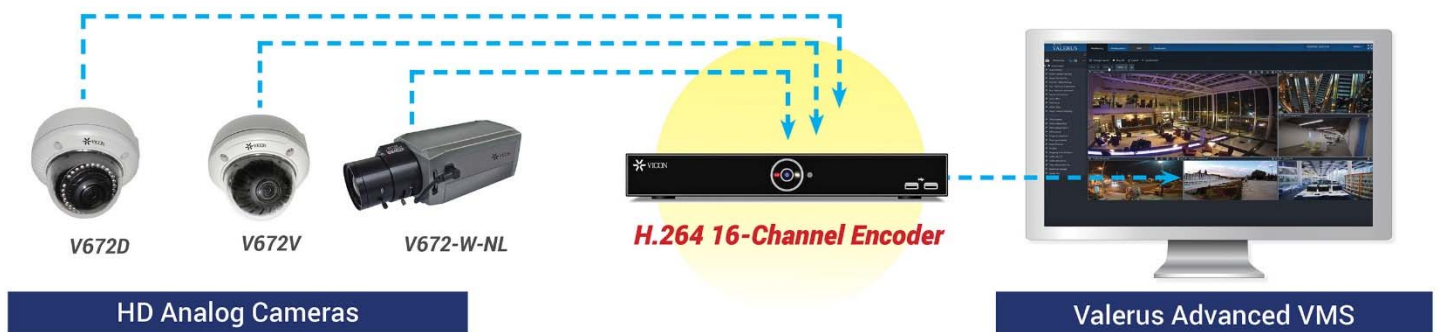
CCTV
D1 / 960H

Connect Legacy Analog Cameras



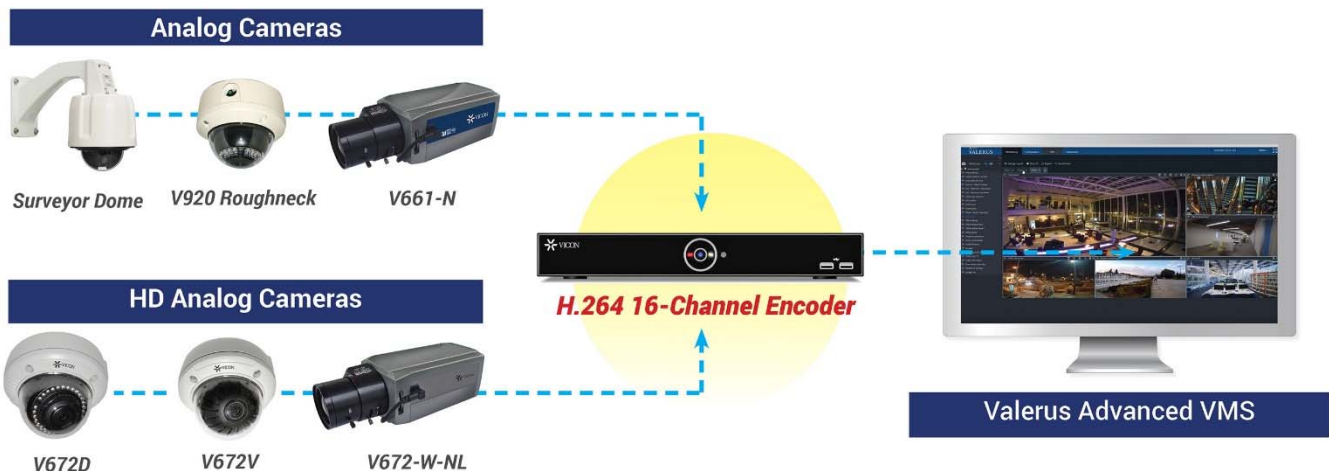
The simplest option maintains all pre-existing cameras and cabling; installing the encoder allows the user to leverage the latest VMS capabilities. The user's only investment is the encoder.

Update to New HD Analog



This second option utilizes the existing infrastructure for the analog system but upgrades the system with new HD analog cameras. This improves picture quality while minimizing labor costs of cable installation. In this case, the investment includes both the encoder and new cameras.

Mix of Legacy Analog and New HD Analog Cameras



A third option combines keeping some of the good quality legacy analog cameras that are then complemented by some new HD analog cameras, providing HD video as needed. The investment is the encoder and a few cameras and, as with the other options, cost is reduced by using pre-existing cables and some cameras.

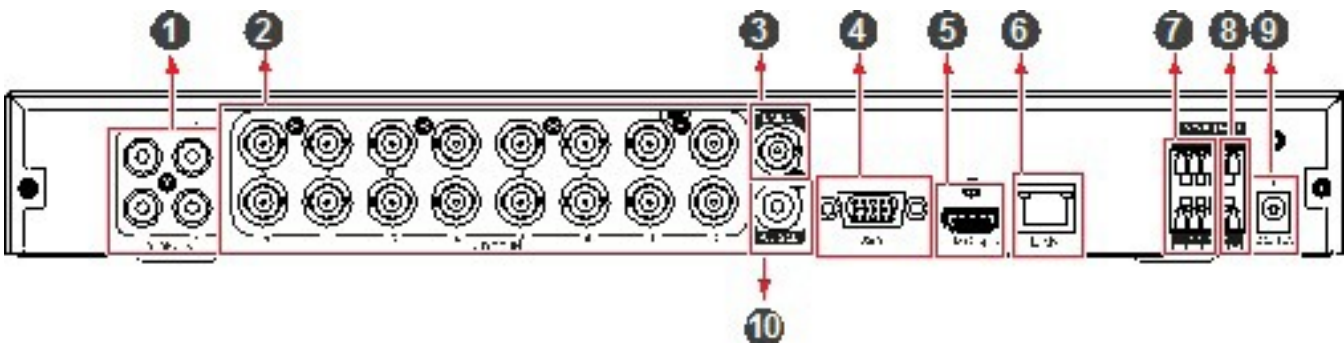
These three scenarios show how it is possible to create an updated IP-based system to fit any budget. It allows cameras to be added as needed, which ensures customers can future-proof their investment and continue to add the latest security technology without overhauling its total infrastructure. Eventually, the analog cameras will be replaced with IP models as needed and budget allows.

SPECIFICATIONS

	ENC-H264-16
Video Specifications	
Video Inputs:	16
Video Formats Supported:	AHD, TVI and CVBS (NTSC/PAL)
Compressions Supported:	H.264 (video) G.711 (audio)
Video Input Resolutions:	1080P/720P/960H/D1
Local Display Resolutions:	VGA/HD: 1920x1080, 1280x720, 1024x768. Spot: 1.0 Vp-p (75 ohm, composite).
Local Display Formats:	VGA/HD: 1/4 (2x2)/9 (3x3)/16 (4x4). Spot: 1/16 (4x4).
Frame Rate:	Up to 480 fps (D1/960H/720P); 240 fps (1080 AHD)
Motion Detection:	Yes
Alarm Input:	4 Alarms In
Alarm Output (Relay):	1 Alarm Out
Audio In/Out:	4 channels In/1 channel Out (RCA)
Security:	Password protection
Supported Protocols:	TCP/IP, IPv4/IPv6, HTTP, FTP, UPnP, RTP, RTSP, DHCP, ARP, Zero config, SMTP,
Electrical Specifications	
Power Supply:	12VDC, 5A. Dual Voltage (110/220 VAC) power supply provided.
Power Consumption:	36 W max.
Indicators/Ports/Connectors:	Front: Power status LED, Recording status LED, Network connection LED, USB. Rear: Video In: 16 BNC; Video Out: 1 CVBS (spot monitor), 1 VGA, 1HD; Network/LAN: 1 RJ-45; 4 audio in: RCA; audio out: 1 RCA; 4 Alarm in, 1 alarm out: terminal block; power input (12 VDC); PTZ: RS-485*
Mechanical Specifications	
Application:	Indoor
Mounting:	Desktop or rack-mount into a standard 19-inch vertical rack (requires ENC-H264-RK rack
Dimensions:	W: 14.76 in. (375 mm); H: 1.77 in. (44.9 mm); D: 12.5 in. (318.2 mm)
Weight:	4 lb (1.8 kg)
Approvals:	FCC, CE, ONVIF Profile S
Environmental Specifications	
Operating Temperature:	32 - 113° F (0 - 45° C)
Operating Humidity:	10 - 90%, non-condensing

Supported PTZ Protocols: Vicon, Pelco-D, Pelco-P, Pelco-C, ONVIF-IPCAM, F2E, F2, Honeywell, Samsung, Techwin, Panasonic, Dongyang,

FUNCTIONS



No	Name	Function
1	Audio In	Camera audio input port
2	Video In	Camera video input port
3	CVBS	CVBS output port (depending on
4	VGA	VGA output port
5	HD	HD output port
6	Network	Network connector
7	Alarm	Alarm connector
8	RS-485	RS-485 communication connector
9	12 VDC	Connector with power supply
10	Audio Out	Audio output port

Model	Product Code	Description
ENC-H264-16	10490-00	H.264 16-CHANNEL ENCODER; supports AHD, TVI and up to 960H analog cameras; up to 480 fps (NTSC) or 240 fps (1080 AHD)

Customize your security today, call us for a free consultation at 800-645-9116

Contact your regional sales rep or visit our website for more information.
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