

HDEXPRESS SERIES NETWORK VIDEO RECORDER (NVR)



- 1080P/60 Hz (1920 x 1080) real-time recording and display
- Built in Power-over-Ethernet (IEEE 802.3af) switch
- No programming of network cameras required
- Auto notification with self diagnosis (HDD S.M.A.R.T, temperature, network connection status, fan error, etc.)
- Onscreen Graphical Interface (GUI) for local control
- Web interface for remote viewing
- Mobile phone applications (iPhone and iPad or Android OS)
- Easy export of video to USB storage devices

The HDEXPRESS™ is a plug-and-play Network Video Recorder (NVR) designed specifically for High Definition (HD) IP cameras. The system includes PoE ports, allowing the NVR to provide power directly to each camera, up to a maximum of 16 (model dependant). The software automatically detects and configures the network cameras, eliminating the need to program any settings for them. A variety of 4, 8 and 16-channel units are available with a choice of storage capacity.

The HDEXPRESS is optimized to work seamlessly with a variety of Vicon cameras, including the V920D and V960 series. All of the features of these cameras can be configured directly through the local user interface, including zoom and focus of the lens. The HDMI 1080P/60 Hz output provides high quality multi-camera display. The graphical user interface is intuitive and easy to navigate.

The high definition graphical user interface provides intuitive controls and is rich with features such as thumbnail searches,

event logs, and network connections status dashboard. The operator can choose to use a standard USB mouse or a remote control. Remote access to the NVR is simple with a thin-client HTML interface. iPhone®, iPad®, and Android™ smart phone applications are also available.

The embedded Linux® operating system provides a reliable platform. Additionally, the S.M.A.R.T self-diagnosis system analyzes each HDD and provides alerts on potential problems. Replacement of hard drives is simple with easy access to hard drives.

Managing multiple sites for remote viewing is possible using iPIM, a free Windows®-based application that integrates NVRs into a single graphical user interface. Connect up to 64 simultaneous video streams from multiple HDEXPRESS devices, which can be displayed in an unlimited number of views. Video can be displayed across multiple monitors. A web interface is available for remote viewing.

Table 1: Model Descriptions

Model Number	Description
HDXPRES-4-2TB HDXPRES-4-4TB HDXPRES-4-6TB	4-channel embedded NVR, 1U, 2 TB, 4 TB and 6 TB storage versions (2 hard drive bays), includes 4-port internal PoE switch; 100-240 VAC
HDXPRES-8-4TB HDXPRES-8-6TB	8-channel embedded NVR, 1U, 4 TB and 6 TB storage versions (2 hard drive bays), includes 8-port internal PoE switch; 100-240 VAC
HDXPRES-16-4TB HDXPRES-16-8TB HDXPRES-16-15TB	16-channel embedded NVR, 2U, 4 TB, 8 TB and 15 TB storage versions (5 hard drive bays), includes 8-port internal and 8-port external PoE switch; 100-240 VAC

Table 2: Vicon Compatible Cameras

Model Number	Description
V920D Series Cameras	D1/720P/1080P models
V960 Series Cameras	All D1/720P models (Indoor Dome, Outdoor Dome, Box, Bullet)
V905-CUBE	1080P, indoor

	HDXPRES-4-2TB HDXPRES-4-4TB HDXPRES-4-6TB	HDXPRES-8-4TB HDXPRES-8-6TB	HDXPRES-16-4TB HDXPRES-16-8TB HDXPRES-16-15TB	
D I S P L A Y	Display Resolution:			1080P 60Hz
	Live Display:			120 fps @1080P 240 fps @1080P 480 fps @1080P
	Multiscreen Display:			1, 4, sequence 1, 4, 6, 8, 9, sequence 1, 4, 8, 9, 16, sequence
	Internal Storage:			2 TB, 4 TB, 6 TB 4 TB, 6 TB 4 TB, 8 TB, 15 TB
	Operating System:			Embedded Linux
	Watchdog:			Yes
	Compressions Supported:			H.264 (video); G.711 (audio)
	Cameras (Video Inputs):			4 8 16
	Recording Mode:			Continuous, Motion, Alarm, Panic, Video Loss; overwrite modes
	P R E F O R M A T I O N	Playback Speed:		
Playback Search:			Time, Thumbnail, Event	
Network:			100Base-T local network for cameras; 100Base-T WAN port for remote access	
Ports/Connectors:			2 USB, PoE (4/8/16 IP cameras), 1 LAN, 1 WAN, eSATA (external storage), HDMI monitor, audio in/out, alarm in/out, power input (12 VDC/48 VDC; adaptors provided), RS-232C, RS-485, power switch; mouse and remote control provided	
Transmission Rate:			Max. 120 fps (camera dependant) Max. 240 fps (camera dependant) Max. 480 fps (camera dependant)	
Network Functions:			Bandwidth control; remote monitoring - web viewer and smart phone application (iPhone, Android, BlackBerry®)	
Remote Users:			8 (max.)	
Multi-Site Control:			Free iPIM software allows management of multiple sites through a single user interface; view up to 64 cameras.	
Protocols:			WS-Discovery, RTP, RTSP, RTCP, STMP, NTP, HTTP, FTP, DDNS, DHCP, UPnP	
Internal Hard Drives (SATA):			Max. 2 Max. 2 Max. 5, RAID 5	
I N T E R F A C E	External Hard Drives:			Yes, eSATA
	Backup:			USB
	Security:			Password protection, date authentication (watermarking, MD5), closed network
	Monitor:			HDMI; 1080p, 60 Hz resolution
	Audio In/Out:			4 ch In (from IP camera)/1 ch Out
	Alarm Input:			4 ch (IP) + 2 ch (internal), camera dependant 8 ch (IP) + 2 ch (internal), camera dependant 16 ch (IP) + 2 ch (internal), camera dependant
	Alarm Output (Relay):			4 channels (IP) + 1 relay (internal) 8 channels (IP) + 1 relay (internal) 16 channels (IP) + 1 relay (internal)
	Languages:			English, French, Spanish, German, Italian, Polish, Russian
	Power:			12 V adaptor (for NVR), 48 V adaptor (for PoE switch for camera); 20 W max. power consumption (w/o HDD) 12 V adaptor (for NVR), 48 V adaptor (for PoE switch for camera); 20 W max. power consumption (w/o HDD) SMPS 12 V 100 W, SMPS 48 V 100 W (PoE); 25 W max. power consumption (w/o HDD)
	G E N E R A L	Power-over-Ethernet:		
Dimensions:			W: 12.0 in. (305 mm); H: 1.7 in. (44 mm); D: 11.7 in. (298 mm) W: 12.0 in. (305 mm); H: 1.7 in. (44 mm); D: 11.7 in. (298 mm) W: 17 in. (430 mm); H: 3.5 in. (88 mm); D: 14.2 in. (360 mm)	
Weight (w/o HDD):			8.8 lb (4 kg) 8.8 lb (4 kg) 15.4 lb (7 kg)	
Operating Temperature:			32 - 104° F (0 - 40° C)	
Operating Humidity:			10 - 90%, non-condensing	
Certifications:			FCC Class A, CE	

Data Sheet Number: V257-01

Dated: 11/2013

Vicon Data Sheet Part Number: 8009-7257-01-01

Specifications subject to change without notice.

Vicon and its logo are registered trademarks and HD Express is a trademark of Vicon Industries Inc. iPad and iPhone are registered trademarks of Apple Inc. Android is a trademark of Google. BlackBerry is a registered trademark of RIM. Linux is a registered trademark of Linus Torvalds in the U.S. and other countries. Windows is a registered trademark of Microsoft Corporation.

Copyright © 2013 Vicon Industries Inc. All rights reserved.