DATA/SPEC SHEET
HDEXPRESS SERIES NETWORK VIDEO RECORDERS (NVRS)

VICON

- 1080P 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
- 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
- Compatible with ViconNet version 8 and higher

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. 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 as well as long list of ONVIF compliant cameras. Depending on the camera, certain features can be configured directly through the local user interface, including zoom and focus of the lens. A VGA and HDMI video output is provided for connection to an external monitor. The HDMI 1080P/60 Hz output provides high quality multi-camera display. The HDExpress NVRs are compatible with ViconNet ® version 8 and higher.

The graphical user interface is intuitive and easy to navigate, providing intuitive controls and features such as thumbnail searches, event logs, and network connections status dashboard. The operator can 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. Easy access to hard drives makes replacement simple.

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-4L3-2TB HDXPRES-4L3-4TB HDXPRES-4L3-6TB	4-channel embedded NVR, 1U, 2 TB, 4 TB and 6 TB storage versions (2 hard drive bays), includes 4-port internal PoE switch and HDMI +VGA video output on rear panel; 100-240 VAC
HDXPRES-8L3-4TB HDXPRES-8L3-6TB	8-channel embedded NVR, 1U, 4 TB and 6 TB storage versions (2 hard drive bays), includes 8-port internal PoE switch and HDMI +VGA video output on rear panel; 100-240 VAC
HDXPRES-16L3-4TB-HUB HDXPRES-16L3-6TB-HUB	16-channel embedded NVR, 1U, 4 TB and 6 TB storage versions (2 hard drive bays), includes 8-port internal PoE switch and a separate PoE hub for additional 8 PoE ports and HDMI video output on rear panel; 100-240 VAC.
HDXPRES-16P3-15TB	6-channel embedded NVR, 2U 15 TB high-capacity storage option (5 hard drive bays); includes 8-port internal and 8-port external PoE switch HDMI video output; 100-240 VAC.
HDXPRES-RK-1U	Rack mount kit for 4 and 8-channel units and 16-channel 1U unit
HDXPRES-RK-2U	Rack mount kit for 2U 16-channel unit

Table 2: Vicon Compatible Cameras

Model Number	Description
V920D Series Cameras	D1/720P/1080P models
IQD5x Series Cameras	720P/1080P/3MP/5MP models
SN663V Cruiser	1080P PTZ camera dome
CE Series Cameras	1080P indoor and outdoor camera domes and bullet camera

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		HDXPRES-4L3-2TB HDXPRES-4L3-4TB HDXPRES-4-L3-6TB	HDXPRES-8L3-4TB HDXPRES-8L3-6TB	HDXPRES-16L3-4TB-HUB; HDXPRES-16L3-6TB-HUB/ **HDXPRES-16P3-15TB**
D I S P L A Y	Display Resolution:	1080P 60Hz		
	Live Display:	30 fps @1080P; 120 fps @D1	30 fps @1080P; 240 fps @D1	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, 6 TB / **15 TB**
	Operating System:	Embedded Linux		
	Watchdog:	Yes		
	Compressions Supported:	H.264 (video); G.711 (audio)		
	Cameras (Video Inputs):	4	8	16
P E R F O R M A N C E	Recording Mode:	Continuous, Motion, Alarm, Panic, Video Loss; overwrite modes		
	Video Output:	HDMI +VGA	HDMI +VGA	HDMI +VGA
	Playback Speed:	x1, x2, x4, x16, x32, x64		
	Playback Search:	Time, Thumbnail, Event		
	Network:	100Base-T local network for cameras; 100Base-T WAN port for remote access		
	Ports/Connectors:	2 USB (3 on HDXPRES-16P3) , PoE (4/8/16 IP cameras), 1 LAN, 1 WAN, eSATA (external storage), VGA and 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		
I N T E R F A C E	Internal Hard Drives (SATA):	Max. 2	Max. 2	Max. 2 / **Max. 5, RAID 5**
	External Hard Drives:	Yes, eSATA		
	Backup:	USB		
	Security:	Password protection, date authentication (watermarking, MD5), closed network		
	Monitor Resolution:	1080p720p/SXGA		
	Audio In/Out:	4/8/16 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	8 ch (IP) + 2 ch (internal) / **16 ch (IP) + 2 ch (internal)**, camera dependant
	Alarm Output (Relay):	4 channels (IP) + 1 relay (internal)	8 channels (IP) + 1 relay (internal)	8 channels (IP) + 1 relay (internal)/ **16 channels (IP) + 1 relay (internal)**
G E N E R A L	Languages:	English, French, Spanish, German, Italian, Polish, Russian		
	Power:	12 V adaptor (for NVR), 48 V adaptor (for PoE switch for camera); 6 W power consumption (12 V, w/o HDD); 3 W power consumption (48 V, w/o camera)	12 V adaptor (for NVR), 48 V adaptor (for PoE switch for camera); 6 W power consumption (12 V, w/o HDD); 5 W power consumption (48 V, w/o camera)	12 V adaptor (for NVR), 48 V adaptor (for PoE switch for camera); 6 W power consumption (12 V, w/o HDD); 5 W power consumption (48 V, w/o camera)/ **SMPS 12 V100 W, SMPS 52 V 100 W (PoE); 15 W max. power consumption (w/o HDD)**
	Power-over-Ethernet:	40 W total (15 W per port)	72 W total (15 W per port)	72 W total (15 W per port) / **72 W total External Hub (15 W per port)**
	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: 12.0 / **17** in. (305 / **430** mm); H: 1.7 / **3.5** in. (44 / **88** mm); D: 11.7 / **14.2** in. (298 / **360** mm)
	Weight (w/o HDD):	8.8 lb (4 kg)	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		

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