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



The HDExpress<sup>™</sup> 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

- 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

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

Table 1. Moder 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	16-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

## **SPECIFICATIONS**

D		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		
S	5: 1 5 1:					
P L A Y	Display Resolution:	20 for @1000B, 100 for @D1	1080P 60Hz	400 for a \$1000D		
	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 / <b>15 TB</b>		
	Operating System:	Embedded Linux				
	Watchdog:	Yes				
P E R F O R	Compressions Supported:	H.264 (video); G.711 (audio)				
	Cameras (Video Inputs):	4	8	16		
	Recording Mode:		Motion, Alarm, Panic, Video Loss; ove			
	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				
M A	Ports/Connectors:  2 USB (3 on HDXPRES-16P3), PoE (4/8/16 IP cameras), I LAN, I WAN, eSATA (external storage HDMI monitor, audio in/out, alarm in/out, power input (12 VDC/48 VDC; adaptors provided RS-485, power switch; mouse and remote control provided					
Ν	Transmission Rate:	Max. 120 fps (camera dependant)   Max. 240 fps (camera dependant)   Max. 480 fps (camera dependant)				
С	Network Functions:	Bandwidth control; remote monitoring - web viewer and smart phone application				
E	B	(iPhone, Android, BlackBerry®)				
	Remote Users: Multi-Site Control:	8 (max.)				
	Multi-Sife 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. 2 / <b>Max. 5, RAID 5</b>		
I N	External Hard Drives:	Yes, eSATA				
T	Backup:	USB				
Е	Security:	Password protection, date authentication (watermarking, MD5), closed network				
R	Monitor Resolution:	1080p720p/SXGA				
F A	Audio In/Out:	4/8/16 ch In (from IP camera)/1 ch Out				
C E	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	Languages:	English, French, Spanish, German, Italian, Polish, Russian				
E	Power:	12 V adaptor (for NVR),	12 V adaptor (for NVR),	12 V adaptor (for NVR),		
N		48 V adaptor (for PoE switch for	48 V adaptor (for PoE switch for	48 V adaptor (for PoE switch for		
Е		camera); 6 W power consumption (12 V, w/o HDD); 3 W power	camera); 6 W power consumption (12 V, w/o HDD); 5 W power	camera); 6 W power consumption (12 V, w/o HDD); 5 W power		
R		consumption (48 V, w/o camera)	consumption (48 V, w/o camera)	consumption (48 V, w/o camera)/		
Α				SMPS 12 V100 W,		
L				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 / <b>17</b> in. (305 / <b>430</b> mm); H: 1.7 / <b>3.5</b> in. (44 / <b>88</b> mm); D: 11.7 / <b>14.2</b> in. (298 / <b>360</b> mm)		
	Weight (w/o HDD):	8.8 lb (4 kg)	8.8 lb (4 kg)	8.8 lb (4 kg) / <b>15.4 lb (7 kg)</b>		
	- r	32 - 104° F (0 - 40° C)				
	Operating Temperature:		32 - 104° F (0 - 40° C)			
	Operating Temperature: Operating Humidity:		32 - 104° F (0 - 40° C) 10 - 90%, non-condensing			

Data Sheet Number: V257-03 Dated: 8/2015

Vicon Data Sheet Part Number: 8009-7257-03-00 Specifications subject to change without notice.

Vicon and its logo are registered trademarks and HDExpress 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 Tovalds in the U.S. and other countries. Windows is a registered trademark of Microsoft Corporation. Copyright © 2015 Vicon Industries Inc. All rights reserved.