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 for each camera, allowing the NVR to provide power directly to a maximum of 16 cameras. The software automatically detects and configures network cameras, eliminating the need to program any settings in the camera.

The HDExpress is optimized to work seamlessly with Vicon's V992 high definition 1080P cameras; contact your Vicon sales representative for a list of compatible network cameras. All of the features of the camera 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™ smartphone applications are also available.

The embedded Linux® operating system provides a reliable platform, and self-diagnosis features such as HDD S.M.A.R.T and network connection alerts simplify diagnosing problems. Replacement of hard drives is simple with easy access to hard drives.

Table 1: Model Descriptions

Model Number	Description
HDXPRES-4	4-channel embedded NVR, 1U, no hard drive included (2 hard drive bays), includes 4-port internal PoE switch; 100-240 VAC
HDXPRES-8	8-channel embedded NVR, 1U, no hard drive included (2 hard drive bays), includes 8-port internal PoE switch; 100-240 VAC
HDXPRES-16	16-channel embedded NVR, 2U, no hard drive included (5 hard drive bays), includes 8-port internal and 8-port external PoE switch; 100-240 VAC

		HDXPRES-4	HDXPRES-8	HDXPRES-16
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
P E R F O R M A N C E	Operating System	Embedded Linux		
	Watchdog	Yes		
	Compression	H.264 (video); G.711 (audio)		
	Cameras (Video Inputs)	4	8	16
	Recording Mode	Motion, Alarm, Panic, Video Loss; overwrite modes		
	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, PoE (4/8/16), 1 LAN, 1 WAN, eSATA (external storage), HDMI monitor; 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 smartphone application (iPhone, Android, BlackBerry®)		
	Remote Users	8 (max.)		
	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. 5, RAID 5
	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)
G E N E R A L	Languages	English, French, Spanish, German, Italian, Polish, Russian		
	Power	12 V adaptor, 48 V adaptor (PoE); 20 W max. power consumption (w/o HDD)	12 V adaptor, 48 V adaptor (PoE); 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)
	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,		