DATA/SPEC SHEET
EXPRESS SERIES DIGITAL VIDEO RECORDERS (DVR)

- 960H (960x576) real-time recording and display
- H.264 compression
- Auto notification with self diagnosis (HDD S.M.A.R.T, temperature, network connection status, fan error, etc.)
- Onscreen Graphical User Interface (GUI) for local control
- Web interface for remote viewing
- Easily integrates with the ViconNet VMS
- Mobile phone applications (iPhone and iPad or Android OS)
- Easy export of video to USB storage devices

The Express is a plug-and-play Digital Video Recorder (DVR) designed specifically for High Definition (960H) analog cameras. It is the ideal solution for CCTV users who require an eas-to-use high-quality standalone 8-channel or 16-channel digital video recorder with the benefit of additional remote PC access via a network/Internet. Additional functionality is provided as the Express DVRs integrate easily into the ViconNet VMS. A version is available with no hard drive storage that can be used as an encoder.

Live monitoring and remote playback are available by web browser. Incorporating high-quality H.264 video and audio encoding and compression technology, these feature-rich DVRs are designed for use with industry standard composite video output CCTV cameras using BNC connectors.

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 drive bays.

There is a VGA and HDMI video output which can be used as the primary output. A spot monitor output is also available for multi-monitor display. 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.

Managing multiple sites for remote viewing is possible using iPIM, a free Windows®-based application that integrates both Express DVRs and HDExpress NVRs into a single graphical user interface. Connect up to 64 simultaneous video streams from multiple Express 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.
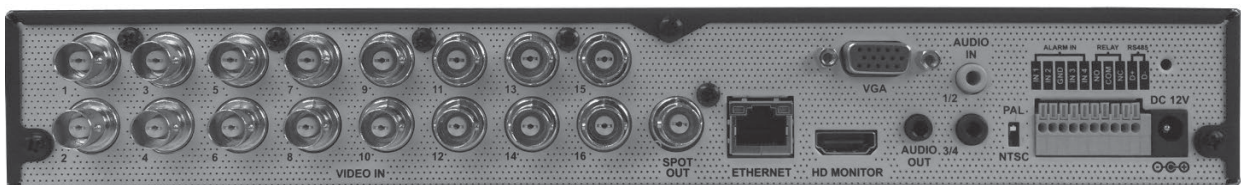
Table 1: Model Descriptions

Model Number	Description
EXPRESS-8 EXPRESS-8-2TB EXPRESS-8-6TB	8-channel embedded DVR, no HDD (can be used as an encoder), 2 TB and 6 TB storage versions (2 hard drive bays), 960H realtime recording and HDMI +VGA video output on rear panel; 100-240 VAC
EXPRESS-16 EXPRESS-16-4TB EXPRESS-16-6TB	16-channel embedded DVR, no HDD (can be used as an encoder), 4 TB,and 6 TB storage versions (2 hard drive bays), 960H realtime recording and HDMI +VGA video output on rear panel; 100-240 VAC
HDXPRES-RK-4/8	Rack mount kit for Express DVRs

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		EXPRESS-8 EXPRESS-8-4TB EXPRESS-8-6TB	EXPRESS-16 EXPRESS-16-4TB EXPRESS-16-8TB
D I S P L A Y	Main Display Output:	1920x1080(HD Display, VGA)	
	Spot Monitor:	Digital 1CH/4CH (1Vpp, 75 Ohm) x1	Digital 1CH/4CH (1Vpp, 75 Ohm) x1
	Live Display:	240 fps @960H	480 fps @960H
	Multiscreen Display:	1, 4, 9, sequence	1, 4, 6, 8, 9, 16, sequence
P E R F O R M A N C E	Internal Storage:	2 EA (SATA HDD)	2 EA (SATA HDD)
	Operating System:	Embedded Linux	
	Watchdog:	Yes	
	Compressions Supported:	H.264 (video); G.711 (audio)	
	Cameras (Video Inputs):	8	16
	Recording Resolution	960H/D1/2CIF/CIF	
	Recording Rate	Up to 240FPS @ 960x480 / D1	Up to 480FPS @ 960x480 / D1
	Recording Mode:	Continuous, Motion, Alarm, Panic, Video Loss; overwrite modes	
	Video Output:	HDMI +VGA	
	Playback Speed:	x1, x2, x4, x8, x16, x32, x64	
	Playback Search:	Time, Thumbnail, Event	
I N T E R F A C E	Network LAN Port:	1000 Base-T	1000 Base-T
	Ports/Connectors:	2 USB, 1 LAN, HDMI monitor, audio in/out, 4 Alarm IN, 1 alarm OUT, power input (12 VDC; adaptors provided), RS-485, power switch; mouse and remote control provided	
	Transmission Rate:	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:	10 (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, SMTP, NTP, HTTP, FTP, DDNS, DHCP, UPnP	
	Security:	Password protection, date authentication (watermarking, MD5), closed network	
	Audio In/Out:	1 channel IN/1 channel Out	
	Alarm Input:	4 Alarm In (pulled up to 5V via 10KOhm)	
	Alarm Output (Relay):	1 alarm OUT (5V,35mA)	
G E N E R A L	Languages:	English, French, Spanish, German, Italian	
	Power:	12VDC, Adaptor, 3A, 100~240V AC, 50-60Hz; 25W(HDD 2ea, Segate Pipeline 500GB)	12VDC, Adaptor, 3A, 100~240V AC, 50-60Hz; 25W(HDD 2ea, Segate Pipeline 500GB)
	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)
	Weight (w/o HDD):	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:	UL, CUL, FCC Class A, CE	

16-Channel Rear

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