DATA/ SPEC SHEET

EXPRESS SERIES DIGITAL VIDEO RECORDER (DVR)

4 Channel

8 and 16 Channel

- 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 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 Express is a plug-and-play Digital Video Recorder (DVR) designed specifically for High Definition (960H) analogue cameras. It is the ideal solution for CCTV users who require an easy to use high-quality standalone 4 channel, 8-channel or 16-channel digital video recorder with the benefit of additional remote PC access via a network/Internet.

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.
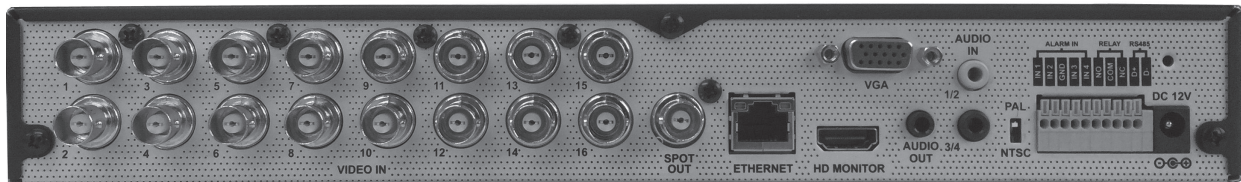
There is a VGA and HDMI video output which can be used as the primary output. A spot monitor output is also available for multi-monitor display. The high definition graphical user interface provides intuitive controls and is rich with features such as thumbnail searches, event logs, and network connections 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-4 EXPRESS-4-2TB EXPRESS-4-4TB	4-channel embedded DVR, No HDD, 2 TB, 4 TB storage versions (1 hard drive bay), 960H Realtime recording and HDMI +VGA video output on rear panel; 100-240 VAC
EXPRESS-8 EXPRESS-8-4TB EXPRESS-8-6TB	8-channel embedded DVR, No HDD, 4 TB, 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-16-8TB	16-channel embedded DVR, No HDD, 4 TB, 8 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 8 and 16-channel Express DVRs
V1411X-DVC	Desk-top intelligent keypad with built-in joystick. Provides switching and control functions for variable and fixed speed camera stations.

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	EXPRESS-4 EXPRESS-4-2TB EXPRESS-4-4TB	EXPRESS-8 EXPRESS-8-4TB EXPRESS-8-6TB	EXPRESS-16 EXPRESS-16-4TB EXPRESS-16-8TB
DISPLAY			
Main Display Output:	1920x1080(HD Display, VGA)		
Spot Monitor:	Analogue 1CH(1Vpp, 75Ohm) x1	Digital 1CH/4CH (1Vpp, 75Ohm) x1	Digital 1CH/4CH (1Vpp, 75Ohm) x1
Live Display:	120 fps @960H	240 fps @960H	480 fps @960H
Multiscreen Display:	1, 4, sequence	1, 4, 9, sequence	1, 4, 6, 8, 9, 16, sequence
PERFORMANCE			
Internal Storage:	1 EA (SATA HDD)	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):	4	8	16
Recording Resolution:	960H/D1/2CIF/CIF		
Recording Rate:	Up to 120FPS @ 960x480 / D1	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		
INTERFACE			
Network LAN Port:	100 Base-T	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. 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:	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)		
GENERAL			
Languages:	English, French, Spanish, German, Italian		
Power:	12VDC, Adaptor, 3A, 100~240V AC, 50-60Hz; 12W(HDD 1ea, Segate Pipeline 500GB)	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: 10.1 in. (256 mm); H: 1.7 in. (44 mm); D: 6.3 in. (159 mm)	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):	6.6 lb (3 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:	UL, CUL, FCC Class A, CE		

16 Channel Rear

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