

HR-DR5000-1U

MatriVideo™ Hybrid Digital Video Recorders (hDVRs)

A Compact Enterprise-Class Hybrid DVR Ideal for Mission Critical Security Installations

Features

- ◆ Durable embedded DVR_On_Chip hardware design
- ◆ Stable and secure application on Linux OS
- ◆ Real-time recording at 30 fps per camera, 480 fps per system
- ◆ High performance hardware H.264 (MPEG-4 Part 10) video compression
- ◆ Synchronized audio/video recording and playback
- ◆ Automatic time synchronization between all units in MatriVideo (NTP protocol)
- ◆ Variant recording modes - continuous, motion detected, alarm, scheduled, manual and SDK API
- ◆ SDK API ready for integration with POS, Access Control and Building Automation systems
- ◆ Quadruple operations for camera live viewing, recording, playback and remote streaming
- ◆ Alarm history and user activity log for six months
- ◆ Comprehensive graphical illustration for quick search of recorded video
- ◆ Playback by date, time, camera and alarm instance
- ◆ Software and hardware watchdog for guaranteed high availability
- ◆ Remote viewing, access, and control via TCP/IP (LAN/WAN/Internet)

The DR5000-1U Series dual video server and enterprise class hybrid video recorder uses an embedded Linux design completely independent of and more reliable than Windows-based DVRs. MatriVideo™ firmware delivers high performance and meets the critical security requirements of small and large installations.

Video recorders are now a critical factor in the success of a digital surveillance system as they provide a reliable recording failover solution for analog cameras without the need to change any cabling. The DR5000-1U is a sixteen channel network digital video recorder and can be used as an IP module to seamlessly have any connected analog cameras or speed domes become IP based cameras. By using advanced hardware H.264 (MPEG-4 Part 10) compression technology, it can dramatically reduce installation and cabling efforts. The server also supports real-time video and two way audio transmission.

The MatriVideo™ recording function is designed for the various needs of the digital video surveillance market. With high video image resolution, seamlessly integrated mass storage, and alarm recording features the DR5000-1U series is the ideal selection for users in retail, banks, and manufacturing industries. With a lower total cost of ownership, the MatriVideo™ DR5000-1U series increases its overall system availability and accessibility with its enhanced hardware design and user friendly features.

The DR5000-1U series supports a hybrid configuration which allows customers to use both analog and digital/IP cameras of various video formats: MJPEG, MPEG-4, and H.264.



MATRIVIDEO™

A complete system to provide high resolution, long term digital video storage and IP based CCTV solution on a scalable and reliable platform

MatriVideo™ is a complete solution for digital video surveillance. It is a platform that incorporates the legacy analog CCTV system and new IP-based digital surveillance system with a hybrid configuration, distributed enterprise architecture and centralized management.

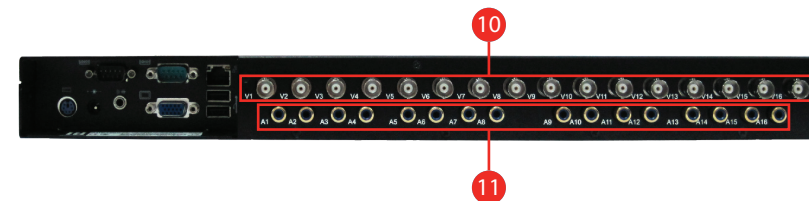
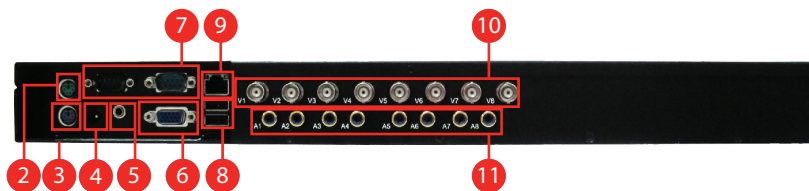
MatriVideo™ is an open platform that adopts the latest IT technology yet provides easy installation and configuration for security professionals. It is designed with flexibility and scalability for enterprise video management.

MatriVideo™ answers the need for larger storage capacity, networkable components, smarter image searching and playback, high image resolution and easier camera relocation. It provides a total solution that meets the emerging and diverse demands of the security industry.

Front Panel



Rear Panel



- | | |
|---------------------------|-------------------------------------|
| 1 LCD Display | 7 COM Ports |
| 2 PS/2 Mouse Connector | 8 USB Ports |
| 3 PS/2 Keyboard Connector | 9 Ethernet Port |
| 4 DC Power Port | 10 BNC Ports for Analog Video Input |
| 5 Speaker Out | 11 RCA Ports for Analog Audio Input |
| 6 VGA Port | 12 Power Switch |



Series	HR-DR5400-1U	HR-DR5300-1U
Model	DR5408-1U / DR5416-1U	DR5308-1U
Function	DVR / hDVR	
Operating System	Embedded Linux	
Video Standard	NTSC / PAL	
Image Control	Contrast / Brightness / Saturation / Hue	
S/W and H/W Watchdog	Yes	
Video Input	8 / 16 channels	8 channels
Audio Input	8 / 16 channels	8 channels
Video Input Level	1.0Vp-p, 75Ω	
Audio Input Level	2.0Vp-p, 1Ω	
Max. Image Resolution	704 x 480 (NTSC) / 704 x 576 (PAL)	
Max. Frame Rate per Channel**	30 fps @ 4CIF (NTSC)	15 fps @ 4CIF / 30 fps @ CIF (NTSC) (audio off)
	25 fps @ 4CIF (PAL)	12 fps @ 4CIF / 25 @ CIF (PAL) (audio off)
Max. Frame Rate per System**	240 / 480 fps @ 4CIF (NTSC)	120 @ 4CIF / 240 fps @ CIF (NTSC) (audio off)
	200 / 400 fps @ 4CIF (PAL)	96 @ 4CIF / 200 fps @ CIF (PAL) (audio off)
Video Compression	Hardware H.264 (MPEG4 Part 10)	
Audio Compression	OggVorbis 16Kbps	
Image Size	1.06KB ~20.0KB / frame	
Data Bit Rate	160Kb ~ 1.8Mb / sec	
Video Input	4 / 8 channels	
Audio Input	4 / 8 channels	
Supported Resolution	All resolutions supported	
Supported Format	MJPEG / MPEG4 / H.264	
Max. Frame Rate**	30 fps (NTSC) / 25 fps (PAL)	
Recording Modes	Continous / Scheduled / Motion Detection / Event Trigger / Manual / API	
Pre/Post Alarm Recording	1 ~ 60 seconds	
Internal Storage	Up to 2 HDDs	
External Storage	Archive Server / IP SAN	
Searching Method	Date / Time / Camera / Alarm List	
Monitoring Environment	MatriVideo™ Command Center / MatriVideo™ Command Center Lite / MatriVideo™ nCCTV	
Speaker Out	1	
Serial Port	2 x RS-232	
Keyboard / Mouse	PS/2	
Ethernet	1 x RJ-45, 10/100/1000Mbps	
USB	4 x USB 2.0 ports	
VGA Output	15 pin female D-SUB	
Hardware Accessories	1 x power cable / 1 x power adapter	
I/O Controls	Maximum 128 inputs / 64 outputs using remote I/O modules (optional)	
Optional Remote I/O Module	ID-IO2000-1600 (16 DI) / ID-IO2000-0008 (8 DO) / ID-IO2000-0808 (8 DI / 8DO) / C232-485i (RS232/484 converter)	
Analog PTZ Protocol	Bosch / Panasonic / Pelco / VCL / Lilin / Honeywell / Tyco / TOA / Mikami / IP camera native	
Analog PTZ Receiver	ChipER	
Video Servers, IP Cameras	ACTi / Arecont Vision / AXIS / CNB Technology / D-Link / Messoa / Hunt / Hikvision / Instek Digital / Panasonic / PELCO / Sanyo / Sony / Vivotek	
ACS	Cardax / Heart / Infogenesis	
Power Source	AC 100 ~ 230V	
Power Output	60W	
Operating Temperature	0 ~ 40°C	
Humidity	Maximum 65% non-condensing	
Dimension (cm)	48.3 (L) x 34 (W) x 4.5 (H) without box	54 (L) x 48.5 (W) x 19 (H) without box
Weight	5 KG without HDD and box	8 KG without HDD and box

* The actual video display may vary according to type of camera(s) and lighting condition.

** Product specification and availability are subject to change without notice.

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