

1U Dual Video Server and Hybrid DVR

DR5000-1U Series

Features - Video Server

- ◆ Compact size; easy to rackmount
- ◆ H.264 real time video compression
- ◆ TCP/IP network transmission
- ◆ Viewing and playback of video on MatriVideo Command Center
- ◆ Remote PTZ control
- ◆ Embedded Linux OS
- ◆ Two-way audio supported
- ◆ Motion detection supported
- ◆ Variable bitrate
- ◆ Digital signature with watermark protection

Features - Hybrid DVR

- ◆ 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 DVR
- ◆ 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
- ◆ Dual watchdog for guaranteed high availability
- ◆ Remote viewing, access, and control via TCP/IP (LAN/WAN/Internet)

Compact, enterprise-class Hybrid DVR and high-resolution video server ideal for mission critical security installations

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 from small to large installations.

Video servers 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 server 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 (TCO), MatriVideo™ DVR 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™

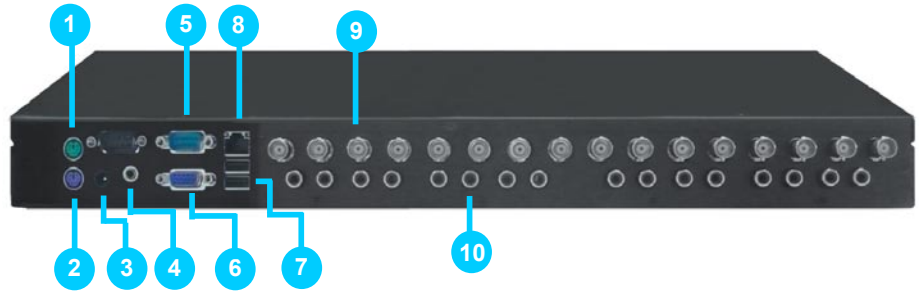
A complete system to provide high resolution, long term digital video storage and IP based CCTV solution on a scalable and reliable platform

MatriVideo™ is a complete solution for digital video surveillance industry. It is a platform that incorporates the legacy analog CCTV system and new IP-based digital surveillance system with 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. Its plug-and-play feature allows users to extend and grow their security sites confidently.

MatriVideo™ answers the need for larger storage capacity, networkable components, better image indexing, high image resolution, TCP/IP camera and easier camera relocation. It provides a total solution that meets the emergent and diverse demands from security industry.

Rear Panel



- 1 P/S 2 Mouse Connector
- 2 P/S 2 Keyboard Connector
- 3 DC Power Port
- 4 Line In Audio Input
- 5 COM Port
- 6 VGA Port
- 7 USB Ports
- 8 Ethernet Port
- 9 Analog Video Input BNC
- 10 Audio Input BNC

Video Server Specification

		DR5400-1U	DR5300-1U	
IMAGE SYSTEM	Compression	H.264		
	Resolution	4CIF/DCIF/2CIF/CIF/QCIF		
	Video Input	16 ch BNC, 1.0Vp-p, 75Ω	8 ch BNC, 1.0Vp-p, 75Ω	
	Audio Input	16 ch x BNC 2.0Vp-p, 1kΩ	8 ch x BNC 2.0Vp-p, 1kΩ	
	Audio Compression	OggVorbis 16Kbps		
	Voice talk	1 Line in port		
	Image Frame Rate	30 fps @ 4CIF (NTSC)	12~15 fps @ 4CIF / 30 fps @ CIF (NTSC)	
		25 fps @ 4CIF (PAL)	10~12 fps @ 4CIF / 25 fps @ CIF (PAL)	
	Bit Rate	32Kbps ~ 2Mbps, user-defined		
Stream Type	Video / Video & Audio			
NETWORK	Ethernet	1 x RJ-45, 10/100/1000Mbps		
CONTROL	RS-232 port	1 x RS-232 ports		

Video Recorder Specification

MatriVideo™ DVRs		HR-DR5400-1U	HR-DR5300-1U	
SYSTEM	Function	DVR / hDVR		
	Operating System	Embedded Linux		
	Video Standard	NTSC / PAL		
	Image Control	Contrast, Brightness, Saturation, Hue		
	Dual Watchdog	Yes		
ANALOG CAM	Video Input	up to 16 channels	up to 8 channels	
	Audio Input	up to 16 channels	up to 8 channels	
	Audio Input Level	2Vp-p/ 1000 Ohm		
	Max. Image Resolution	704 x 480 (NTSC) / 704 x 576 (PAL)		
	Max. Frame Rate per Channel**	30 fps @ 4CIF (NTSC)	12~15 fps @ 4CIF / 30 fps @ CIF (NTSC)	
		25 fps @ 4CIF (PAL)	10~12 fps @ 4CIF / 25 fps @ CIF (PAL)	
	Max. Frame Rate per system**	480 fps @ 4CIF (NTSC)	120 @ 4CIF / 240 fps @ CIF (NTSC)	
		400 fps @ 4CIF (PAL)	100 @ 4CIF / 200 fps @ CIF (PAL)	
	Recording Compression	Hardware H.264 (MPEG-4 Part 10)		
	Image Size	1.06KB ~ 20.0KB / frame		
Data Bit Rate	160Kb ~ 1.8Mb / Sec			
IP CAM (IP pack is required)	Video Input	up to 8 Channels		
	Audio Input	up to 8 Channels		
	Supported Resolution	All resolutions supported for IP Cameras		
	Supported Format	H.264 / MPEG4 / MJPEG		
	Max. Frame Rate**	30 fps (NTSC) / 25 fps (PAL)		
RECORDING & STORAGE	Recording Modes	Continuous, Scheduled, Motion Detected, Event Triggered, Manual, API		
	Pre/Post Alarm Recording	1 ~ 60 seconds		
	Internal Storage	Up to 2 SATA HDDs		
	External Storage	Archive Server		
VIDEO MANAGEMENT	Searching Method	Date / Time / Camera / Alarm List		
	Monitoring Environment	MatriVideo Command Center, MatriVideo Command Center Lite, MatriVideo nCCTV		
CONNECTORS	Video Input Connectors	up to 16 BNC Ports		
	Voice talk	1 Line in port		
	Serial Port	1 x RS-232		
	Keyboard/ Mouse	PS/2 Style		
	Ethernet	1 x RJ-45, 10/100/1000Mbps		
	USB	2 x USB 2.0 Ports		
	VGA Output	15 Pin Female DSUB		
INTEGRATION COMPATIBILITY	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		
ELECTRICAL	Power Source	AC 100 ~ 230V		
	Power Output	60 W		
ENVIRONMENT	Operating Temperature	0 ~ 40°C		
	Humidity	Maximum 80%, non-condensing		
PHYSICAL	Dimension	483 (W) x 340 (D) x 45 (H) (mm)		
	Weight	4kg without HDD		

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

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