

## HR-DR3000-3U Series

### MatriVideo Hybrid Digital Video Recorders (hDVRs)

#### High Performance Enterprise-Class Hybrid DVRs for Mission Critical Security Requirements

#### 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 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
- ◆ Support advanced PTZ control 8 aux per camera
- ◆ Support RAID-5 for video data protection
- ◆ Remote viewing, access, and control via TCP/IP (LAN/WAN/Internet)
- ◆ Dual power supply hardware design

MatriVideo™ DVRs are designed for the various needs of the digital video surveillance market. With high video image resolution, seamlessly integrated mass storage, and alarm recording features, MatriVideo™ DVRs deliver the power of high performance to security savvy professionals and meet the critical security requirements of small to large installations.

With lower total cost of ownership, MatriVideo™ DVRs increase overall system availability and accessibility by using enhanced hardware design and user-friendly features.

The HR-DR3000 Series supports optional hybrid configuration which allows customers to use both analog and digital/IP cameras of various video formats: MJPEG, MPEG-4, and H.264. MatriVideo Hybrid DVRs can record analog camera video alongside IP camera video.

MatriVideo™ DVRs provide CIF and 4CIF image resolutions. By adapting the most advanced hardware compression technology, H.264 (MPEG-4 Part 10), MatriVideo DVRs produce image sizes 40% smaller than those that adapt MPEG-4.

The system is built upon a stable Linux operating system and the whole system is placed on one single flash disk.

MatriVideo™ DVRs' large storage capabilities allow security professionals to track events that occurred in the past six months from the recorder unit without retrieving archived data from an offline data center.

MatriVideo™ DVRs allow dynamic recording configurations of the highest quality frame rates for live, continuous and scheduled viewing, and motion and alarm triggered recording. This not only increases the data storage utilization, but also facilitates quick and instant event searching.

Its open system architecture allows MatriVideo™ to integrate with various third party solutions, such as digital cameras, POS, access control, fire alarm, and burglar alarm systems. MatriVideo™ DVRs offer the most intelligent and comprehensive video search tools, allowing users to retrieve the desired video through a few simple clicks.



# MATRIVIDEO™

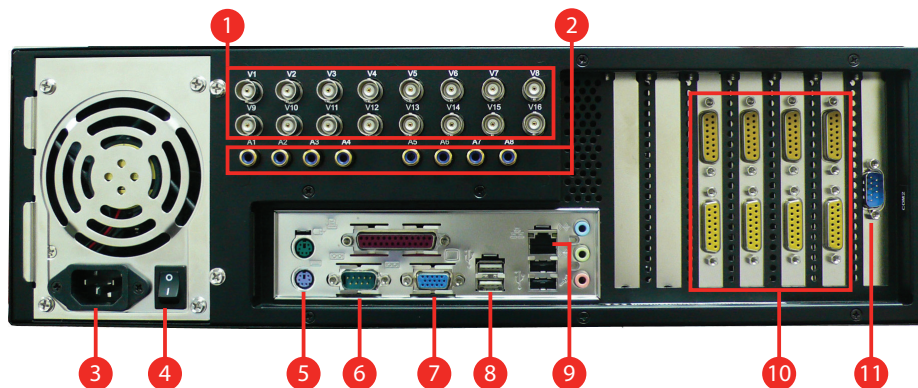
A complete system to provide high resolution, long term digital video storage and IP based CCTV solution on a scalable and reliable platform

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.

## Rear Panel



- 1 BNC Ports for Analog Video Input
- 2 Audio Input Ports
- 3 Power Socket
- 4 Power Switch
- 5 PS/2 Connector for Keyboard
- 6 COM1 Port
- 7 VGA Port
- 8 USB 2.0/1.1 Ports
- 9 Ethernet Ports
- 10 Analog Video Capture Card
- 11 COM2 Port
- 12 Dual Power Supplies (Optional)
- 13 Main Power Switch (Dual Power)



Series	HR-DR3800-3U		HR-DR3700-3U	
Model	DR3808-3U / DR3816-3U / DR3832-3U		DR3708-3U / DR3716-3U / DR3732-3U	
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 / 32channels			
Audio Input	8 channels			
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	16 channels			
Audio Input	16 channels			
Supported Resolution	4CIF / DCIF / CIF / QCIF / VGA			
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 8 swappable HDDs			
External Storage	Archive Server / IP SAN / SAS*** / SCSI (3832 only RAID model)		Archive Server / IP SAN / SAS*** / SCSI (3732 only RAID model)	
Searching Method	Date / Time / Camera / Alarm List			
Monitoring Environment	MatriVideo™ Command Center / MatriVideo™ Command Center Lite / MatriVideo™ nCCTV			
Video Input Connectors	8 / 16 BNC Ports		8 / 16 / 32 Ports	
Serial Port	8 x RCA ports			
Keyboard / Mouse	PS/2			
Ethernet	2 x RJ-45, 10/100/1000Mbps			
USB	5 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 / Liilin / 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	400W			
Operating Temperature	0 ~ 40°C			
Humidity	Maximum 65% non-condensing			
Dimension (cm)	57.9 (L) x 43.7 (W) x 13.2 (H) without box		77 (L) x 59 (W) x 29.5(H) without box	

\* The actual video display performance 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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\*\*\*\* RAID model only.