

HR-DR5000-3U 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, 960 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
- ◆ Equipped with up to 12 Internal HDDs for 24 TB storage capacity
- ◆ 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
- ◆ Supports RAID-5 and RAID-6 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, the MatriVideo™ HR-DR5000-3U Series delivers the power of high performance to security savvy professionals and meets the critical security requirements of users who demand maximum performance.

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-DR5000 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. The HR-DR5000-3U series supports optional RAID-5 and RAID-6 for superior data protection.

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™

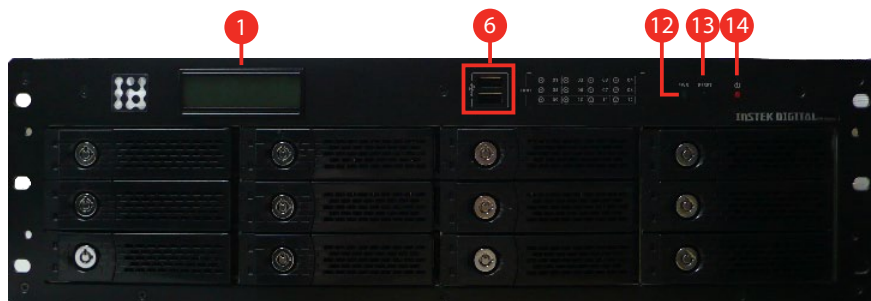
A complete system to provide high resolution, long term digital video storage and IP based CCTV solution on a scalable and reliable platform

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.

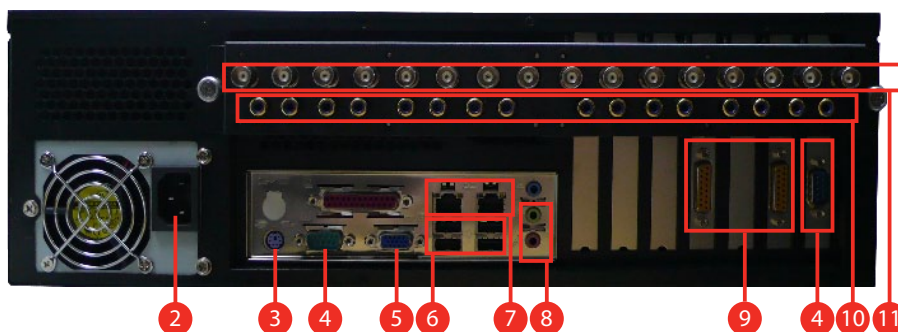
MatriVideo™ is an open platform that adopts the latest IT technology yet provides easy installation and configuration for security professionals. It is designed with flexibility and scalability for enterprise video management.

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.

Front Panel



Rear Panel



- | | |
|-------------------------------|-------------------------------------|
| 1 LCD Display | 8 Speaker Out / Audio Line In |
| 2 Power Socket | 9 Analog Video Capture Card |
| 3 PS/2 Connector for Keyboard | 10 RCA Ports for Analog Audio Input |
| 4 COM Ports | 11 BNC Ports for Analog Video Input |
| 5 VGA Port | 12 Power LED |
| 6 USB Ports | 13 Reset Button |
| 7 Ethernet Ports | 14 Power Button |



	HR-DR5400-3U	HR-DR5300-3U
Function	DVR / hDVR	
Operating System	Embedded Linux	
Video Standard	NTSC / PAL	
Image Control	Contrast, Brightness, Saturation, Hue	
Dual Watchdog	Yes	
Hardware Accessories	Power Cable	
Video Input	16 / 32 Channels	32 Channels
Audio Input	16 / 32 Channels	32 Channels
Video Input Level	1.0Vp-p, 75Ω	
Audio Input Level	2.0Vp-p, 1kΩ	
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 fps @ CIF (PAL) (audio off)
Max. Frame Rate per system**	480 / 960 fps @ 4CIF (NTSC)	480 fps @ 4CIF / 960 fps @ CIF (NTSC) (audio off)
	400 / 800 fps @ 4CIF (PAL)	384 fps @ 4CIF / 800 fps @ CIF (PAL) (audio off)
Video Compression	Hardware H.264 (MPEG-4 Part 10)	
Audio Compression	OggVorbis 16Kbps	
Image Size	1.06KB ~ 20.0KB / frame	
Data Bit Rate	160Kb ~ 1.8Mb / Sec	
Video Input	4 / 8 / 12 / 16 Channels	
Audio Input	4 / 8 / 12 / 16 Channels	
Supported Resolution	All resolutions supported	
Supported Format	H.264 / MPEG4 / MJPEG	
Max. Frame Rate**	30 fps (NTSC) / 25 fps (PAL)	
Recording Modes	Continuous, Scheduled, Motion Detected, Event Triggered, Manual, API	
Pre/Post Alarm Recording	1 ~ 60 seconds	
Internal Storage	Up to 12 Swappable HDDs	
Internal RAID-5 and RAID-6	Optional	
External Storage	Archive Server / DAS (Optional)	
Searching Method	Date / Time / Camera / Alarm List	
Monitoring Environment	MatriVideo Command Center, MatriVideo Command Center Lite, MatriVideo nCCTV	
Speaker Out	1	
Audio Line In	1	
Serial Port	2 x RS232, 1 x RS485	
Keyboard/ Mouse	PS/2 Style	
Ethernet	2 x RJ-45, 10/100/1000Mbps	
USB	6 x USB 2.0 Ports	
VGA Output	15 Pin Female DSUB	
Hardware Accessories	1 x Power Cable	
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 (RS232/485 converter)	
Analog PTZ Protocols	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, Messo, Hunt, Hikvision, Instek Digital, Panasonic, PELCO, SANYO, SONY, Vivotek	
ACS	Cardax, Heart, InfoGenesis	
Electric Power Source	AC 100 ~ 230V	
Dual Power Supplies	Optional	
Power Output	400 W	
Operating Temperature	0 ~ 40°C	
Humidity	Maximum 65%, non-condensing	
Dimension (cm)	59.6 (L) x 48.5 (W) x 13.2 (H) (without box)	
Weight	16 kg without HDD (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.

*** MatriVideo is a registered trademark of Instek Digital. All other trademarks are the property of their respective owners.

V.20110302