

high performance enterprise-class hybrid DVR 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
- Equipped with up to 4 internal HDDs
- Comprehensive graphical illustration for quick search of recorded video
- Playback by date, time, camera and alarm instance
- Dual watchdog for guaranteed high system availability
- PTZ control with optional remote I/O module
- Remote viewing, access, and control via TCP/IP (LAN/WAN/Internet)
- Digital signature with watermark protection



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.

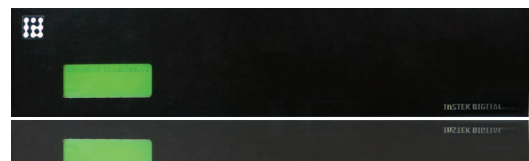
MatriVideo™ DVRs provide CIF and 4CIF image resolutions. By adapting the most advanced hardware compression technology, H.264 (MPEG-4 Part 10), MatriVideo DVRs produce image sizes 40% smaller than those that adapt MPEG-4.

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 HRDR5000-3U 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.

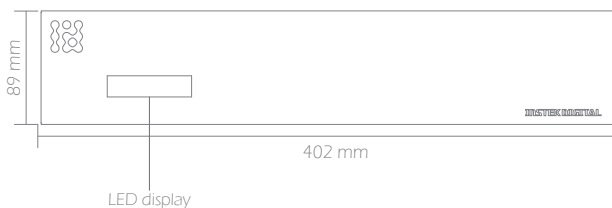
Contact:
sales@instekdigital.com

Specifications

Model	HR-DR3708-2U / HR-DR3716-2U	HR-DR3808-2U / HR-DR3816-2U
Function	(Hybrid) Digital Video Recorder	
Operating system	Embedded Linux	
Video standard	NTSC / PAL	
Image control	Contrast / Brightness / Saturation / Hue	
Dual watchdog	Yes	
Video input - Analog IP	8 / 16 channels 16 channels	8 / 16 channels 16 channels
Audio input	8 channels	
Video / Audio input level	1.0Vp-p, 75Ω / 2.0Vp-p, 1kΩ	
Max. image resolution	704 x 480 (NTSC) / 704 x 576 (PAL)	
Max. frame rate per channel*	15 fps @ 4CIF / 30 fps @ CIF (NTSC) (audio off) 12 fps @ 4CIF / 25 fps @ CIF (NTSC) (audio off)	30 fps @ 4CIF (NTSC) 25 fps @ 4CIF (PAL)
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	
Supported resolution	4CIF / CIF / VGA / megapixels	
Supported format	MJPEG / MPEG4 / H.264	
Recording modes	Continuous / Scheduled / Motion Detected / Event Triggered / Manual / API	
Pre/post alarm recording	1 ~ 60 seconds	
Internal Storage	Up to 4 HDDs	
External storage	Archive server / SAS DAS / SCSI DAS / IP SAN / JBOD	
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	1 x RS-232	
Keyboard / mouse	PS/2 and USB	
Ethernet	RJ-45, 10/100/1000Mbps	
USB	4 x USB2.0	
VGA output	15 pin female D-SUB	
Hardware accessories	1 x Power cable	
I/O controls	Max. 128Inputs / 64 outputs using remote I/O modules (optional)	
Optimal 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	Dynacolor, Honeywell, Lilin, Mikami, PELCO-D, PELCO-P, TOA, Vicon	
PTZ AUX	Support up to 8 ports	
Video and IP-cameras	ACTi, Appro, Arecont Vision, Arlotto, AXIS, Basler, Brickcom, CNB Technology, Hikvision, Hi-Sharp, Hitron, Hunt, Instek Digital, ITX, IQinVision, MatriCam, Messoa, Mobotix, Pixord, Pelco, Samsung, SANYO, SONY, Vivotek	
ACS	Cardax, CEM, Tyco	
Electric power source	AC 100V ~ 240V	
Dual power supplies	-	
Power output	400W	
Operating temperature	0 ~ 40°C	
Humidity	Max. 65%, non-condensing	
Dimension	402(L) x 445(W) x 89(H) mm (w/o box)	
Weight	8.0 Kg (w/o box)	

a) The actual video display performance may vary according to type of camera(s) and lighting condition.
 b) Product specifications and availability are subject to change without notice.
 c) MatriVideo is a registered trademark of Instek Digital Co., Ltd. All other trademarks are property of their respective owners.

Front View



Rear View

