

MatriVideo NVR “ Network Video Recorder”

HR-NR3800-3U & 2U Series

Features

- ◆ Synchronized audio/video recording and playback
- ◆ Stable and secure application on Linux OS
- ◆ Support various video compression formats of IP cameras (H.264, MPEG-4, and MJPEG)
- ◆ Support various image resolution from CIF/ D1 to multiple Megapixels
- ◆ Automatic time synchronization between all units in MatriVideo™ (NTP protocol)
- ◆ Variant recording modes - continuous, motion detected, alarm, Intelligent Video detected, scheduled, manual and SDK API
- ◆ SDK API ready for integration with POS, Access Control and Building Automation systems
- ◆ Pre-alarm and post-alarm video recording
- ◆ Quadruple operations for camera live viewing, recording, playback and remote streaming
- ◆ 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)
- ◆ Long term storage capacity up to 8 or 4 HDD bays
- ◆ Support Internal RAID-5 for video data protection (optional)
- ◆ Dual power supplies hardware design (3U Series optional)

An high performance enterprise-class network based surveillance solution for distributed architecture

MatriVideo™ NVR is designed for the dynamic needs of the emergent digital video surveillance market. With the high video image resolution, seamlessly integrated mass storage, and alarm recording, MatriVideo™ NVR delivers the flexible and powerful of high performance to security professionals for distributed enterprise architecture and centralized management applications.

MatriVideo™ NVR is a complete network based video recording solution which support various video compression formats of IP cameras (H.264, MPEG-4, and MJPEG), and various image resolution from CIF/ D1, VGA, to multiple megapixels. Integrating with Mega pixel IP cameras, MatriVideo provides a breakthrough complete platform for high resolution and great view. Simply plug into the network infrastructure, MatriVideo™ NVR can display the video image from any camera source through the Ethernet. The IP cameras can be set up anywhere on the network without cumbersome cabling, with the result that setting up a new IP-based security system has never been easier or more cost effective.

Based on the embedded Linux OS, MatriVideo™ DVR_On_Chip technology, combined with dual power supplies and RAID 5 enhancement, provides customers a stable and secure system. MatriVideo™ NVR increases overall system availability by reducing system down time caused by power supply and hard drive failure. It has the capability to keep complete six months audit trail database of users activities.

MatriVideo™ NVR allows different recording settings - continuous recording, motion detected recording, event triggered recording, and scheduled recording. This not only increases the data storage utilization, but also facilitates quick and instant event searching.

MatriVideo™ NVR provides the most intelligent and comprehensive video search tool. Users can always retrieve the desired video image almost in no time. Its graphical display illustrates the recorded video period distribution over the history, yet with quick indicators for alarm instances (from video loss, motion detection, real-time video analytics, sensor or digital input, even POS or Access Control System event), and manual recording instances (special events triggered by security guard onsite).



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.

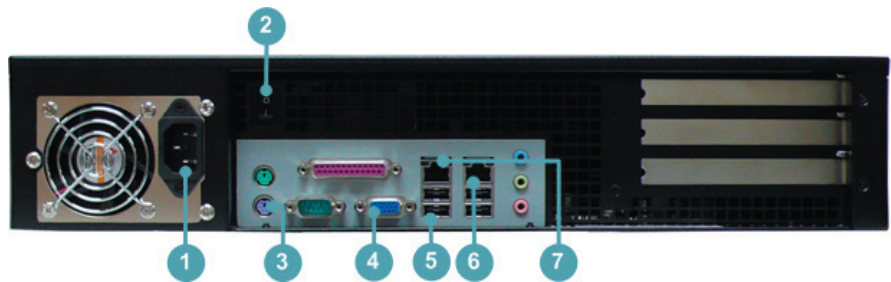
MatriVideo™ answers the need for larger storage capacity, networkable components, better image indexing, high image resolution, TCP/IP camera and easier camera relocation. It provides a total solution that meets the emergent and diverse demands from security industry.

Rear Panel

3U Series Model



2U Series Model



- 1 Power Socket
- 2 Power Switch
- 3 PS/2 Connector for Keyboard
- 4 VGA Port
- 5 USB 2.0/1.1 Ports
- 6 Ethernet Port (Eth0)
- 7 Ethernet Port (Eth1)
- 8 SCSI port (optional)



Specification

MatriVideo™ NVRs		HR-NR3816, 3832-3U	HR-NR3816, 3832-2U
SYSTEM	Function	NVR	
	Operating System	Embedded Linux	
	Video Standard	NTSC / PAL	
	Dual Watchdog	Yes	
IP CAM	Video Input	16, 32 Channels	16, 32 Channels
	Audio Input	16, 32 Channels	16, 32 Channels
	Supported Resolution	4CIF, CIF, VGA, 1.3M, 2M, 3M, 5M, 8M	
	Supported Format	H.264 / MPEG4 / MJPEG	
	Max. Frame Rate**	30 fps (NTSC) / 25 fps (PAL)	
RECORDING & STORAGE	Recording Modes	Continuous, Scheduled, Motion Detected, Intelligent Video Detected, Event Triggered, Manual, API	
	Pre/Post Alarm Recording	1 ~ 60 seconds	
	Internal Storage	Up to 8 Swappable HDDs	Up to 4 fixed HDDs
	Internal RAID-5	Optional	n/a
	External Storage	Archive Server / DAS (Optional)	
VIDEO MANAGEMENT	Searching Method	Date / Time / Camera / Alarm List / Smart Search	
	Monitoring Environment	MatriVideo Command Center, MatriVideo Command Center Lite, Command Center One, MatriVideo nCCTV	
CONNECTORS	Serial Port	2 x RS-232	
	Keyboard/ Mouse	PS/2 Style	
	Ethernet	2 x RJ-45, 10/100/1000Mbps	
	USB	5 x USB 2.0 / USB 1.1 Ports	2 x USB 2.0 / USB 1.1 Ports
	VGA Output	15 Pin Female DSUB	
I/O CONTROL	I/O Controls	Maximum 64 Inputs / 32 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)	
	Video Servers, IP Cameras	ACTi, Arecont Vision, AXIS, D-Link, Messoa, Hunt, Panasonic, PELCO, SANYO, SONY, Instek Digital, Vivotek	
INTEGRATION COMPATIBILITY	ACS	Cardax, Heart, Infogenesis	
ELECTRICAL	Electric Power Source	AC 100 ~ 230V	AC 100 ~ 240V
	Dual Power Supplies	Optional	n/a
	Power Output	400 W	
ENVIRONMENT	Operating Temperature	0 ~ 40°C	
	Humidity	Maximum 80%, non-condensing	
PHYSICAL	Dimension	43.7 (W) X 57.9 (D) X 13.2 (H) cm	44.5 (W) X 40.2 (D) X 8.9 (H) cm
	Weight	16 kg without HDD	7.05 kg without HDD

* Contact Instek Digital for the IP device compatibility. 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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