

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

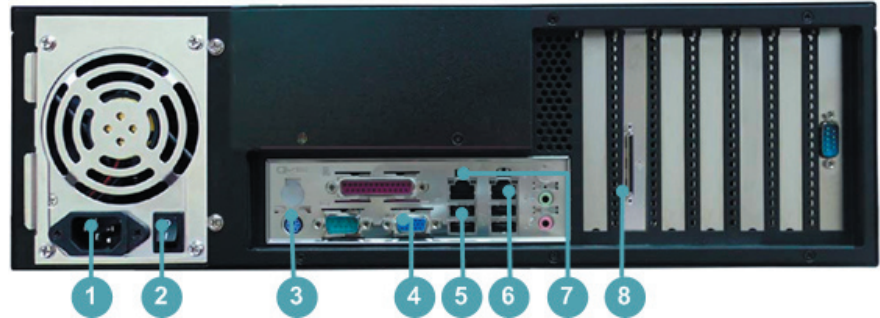
MatriVideo™ is a complete solution for digital video surveillance industry. It is a platform that incorporates the legacy analog CCTV system and new IP-based digital surveillance system with hybrid configuration, distributed enterprise architecture and centralized management.

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.

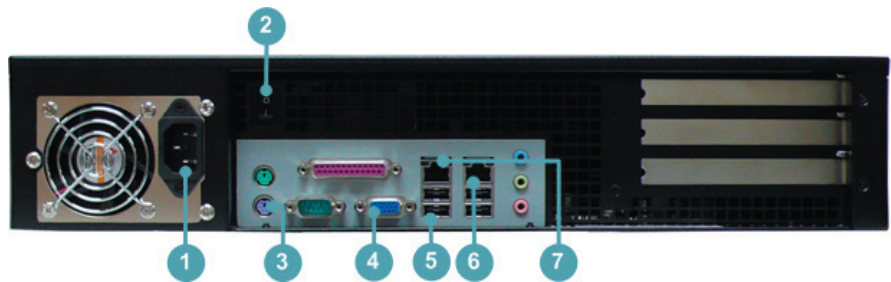
MatriVideo™ answers the need for larger storage capacity, networkable components, better image indexing, high image resolution, TCP/IP camera and easier camera relocation. It provides a total solution that meets the emergent and diverse demands from security industry.

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.

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



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