

a high performance enterprise-class network solution for distributed architecture

#### Features

- Durable embedded NVR\_On\_Chip hardware design
- Stable and secure application on Linux OS
- 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, and manual recording
- 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 36 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
- PTZ control with optional remote I/O module
- Supports RAID-5 and RAID-6 for video data protection
- Remote viewing, access, and control via TCP/IP (LAN/WAN/Internet)
- Digital signature with watermark protection

The HR-NR5000-3U series NVRs are designed for the dynamic needs of the emergent digital video surveillance market. With high image resolution, seamlessly integrated mass storage, and alarm recording, MatriVideo™ NVRs deliver flexible and powerful performance to security professionals for distributed enterprise architectures and centralized management applications.

MatriVideo™ NVRs are a complete network based video recording solution which supports various video compression formats of IP cameras (H.264, MPEG-4, and MJPEG), and image resolutions, from CIF/ D1, VGA, to multiple megapixels. Integrating with megapixel IP cameras, MatriVideo™ provides a breakthrough platform to view high resolution video from your surveillance system. Simply plug into the network infrastructure and MatriVideo™ NVRs can display the video image from any IP camera source through the Ethernet. The IP cameras can be installed without cumbersome cabling, meaning that setting up a new IP-based security system has never been easier or more cost effective.

Based on the embedded Linux OS, MatriVideo™ NVR\_On\_Chip technology, combined with dual power supplies and RAID-5 and RAID-6 enhancement, provides customers a stable and secure system. The embedded Linux OS increases overall system availability by reducing system downtime caused by power supply and hard drive failure. It has the capability to keep a complete six month audit trail database of user activities. MatriVideo™ NVRs allow different recording settings - continuous, motion detected, event triggered, and scheduled recording. This increases the data storage utilization giving more space to store video and saving money.

MatriVideo™ NVRs provide the most intelligent and comprehensive video search tools. Users can retrieve the desired video images with a few simple clicks. Its graphical display illustrates the recorded video history, yet with quick indicators for alarm instances (video loss, motion detection, real-time video analytics, sensor or digital inputs, even POS and Access Control System events), and manual recording instances (special events triggered by security personnel 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. 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.

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## Specifications

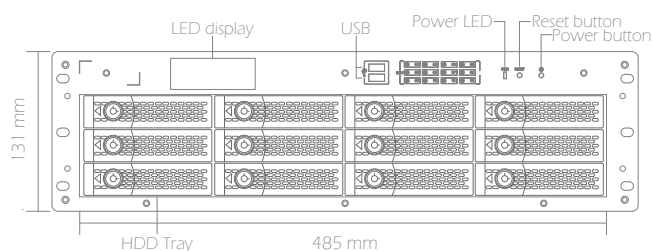
Model	HR-NR5416-3U / HR-NR5432-3U / HR-NR5448-3U / HR-NR5464-3U / HR-NR54X8-3U
Function	Network video recorder
Operating system	Embedded Linux
Image control	Contrast / Brightness / Saturation / Hue
Dual watchdog	Yes
Video input	16 / 32 / 48 / 64 / 128 channels
Audio input	16 / 32 / 48 / 64 / 128 channels
Supported resolution	All resolutions supported
Supported format	MJPEG / MPEG4 / H.264
Max frame rate**	30 fps (NTSC) / 25 fps (PAL)
Recording modes	Continuous / Scheduled / Motion detected / Intelligent video detected / Event triggered / Manual / API
Pre/post alarm recording	1 ~ 60 seconds
Internal storage	Up to 12 HDDs
Internal RAID5 and RAID6	Optional
External storage	Archive Server / SAS DAS / IP SAN / 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	3 x RS-232, 1 ↑ RS-485
Keyboard / mouse	PS/2 and USB
Ethernet	2 x RJ-45, 10/100/1000Mbps
USB	6 x USB2.0
VGA output	15 pin female D-SUB
I/O controls	Max. 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)
Hardware accessories	1 x Power cable
Video servers and IP-cameras	ACTi, Apro, Arecont Vision, Arlotto, AXIS, Basler, Brickcom, CNB Technology, Hikvision, Hi-Sharp, Hitron, Hunt, Instek Digital, ITX, IOinVision, MatriCam, Messoa, Mobotix, Pixord, Pelco, Probe, Samsung, SANYO, SONY, Vivotek
ACS	Cardax, CEM, Tyco
Electric power source	AC 100 ~ 240V
Dual power supplies	Optional
Power output	400W
Operating temperature	0 ~ 40°C
Humidity	Max. 65%, non-condensing
Dimension (mm)	575(L) x 485(W) x 131(H) mm (w/o box)
Weight (kg)	15.5 (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

