

4000 C Series Hybrid NVRs



March Networks® 4000 C Series Hybrid NVRs are high performance video recorders that provide your organization with outstanding IP camera support, analog video compression, advanced storage management, and embedded video analytics. Available in **4332 C Hybrid NVR** and **4324 C Hybrid NVR** models, each with its own unique performance specifications, the recorders are easily managed from a central location with both March Networks Command™ or our Visual Intelligence software suite.



EXCEPTIONAL IP/ANALOG RECORDING

The 4000 C Series Hybrid NVRs deliver enhanced hybrid flexibility to ensure that clear, detailed video images are there when you need them. The units support up to 16 IP cameras and as many as 16 analog cameras concurrently. IP camera support enables the capture of high resolution images, including H.264 compressed video from March Networks high-definition (HD) IP cameras or certified third-party cameras¹. The recorders' optimized video compression with Adaptive Compression Technology also ensures unrivaled analog video retention and clarity. The result is a networked recorder that fulfills the needs of security and IT departments in the most demanding banking, retail, transportation and commercial/industrial applications.

INTELLIGENT VIDEO STORAGE

Versatile storage sets the 4000 C Series apart. Up to four high-capacity hard drives provide as much as 8 TB of internal storage, while optional disk mirroring and S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) drive monitoring ensure a high level of data protection. A patented Intelligent Video Retention² feature thins out lower priority archived video to free up disk space automatically for important event video. Together with Adaptive Compression Technology, the recorders can reduce storage requirements by as much as 40 percent.

POWERFUL, INTUITIVE SOFTWARE

Our VideoSphere™ Visual Intelligence software enables administrators, security managers and loss prevention investigators to access and manage video easily from anywhere on the network.

The software's optimized Live Monitoring Console application provides a single, intuitive interface for live and archived video viewing from multiple cameras, while Evidence Manager and Investigator applications support advanced searching and case management. Multisite users in particular benefit from the efficiency of our Enterprise Service Manager, which enables centralized control and health monitoring across the entire surveillance infrastructure.

For organizations that require an open, standards-based video management system (VMS), the 4000 C Series Hybrid recorders are also compatible with Command Enterprise. The VMS software incorporates a cross-platform, browser-based user interface that can be easily customized to best meet the functional needs of different user groups within an organization. Up to 36 live and archived streams per monitor extend the flexibility of the Command Enterprise interface and allow users to optimize the information available for monitoring and reviewing.

RETURN ON INVESTMENT

Products that offer longevity are critical in today's rapidly changing IT industry. The 4000 C Series future-proofs your existing analog surveillance investments by making it easy to strategically deploy higher definition IP cameras, and then transition to an advanced IP video solution when your organization is ready. The recorder is also field upgradeable, allowing you to add the latest software features quickly and cost-effectively as they become available.

FEATURES

- Docking station architecture for easy installation and maintenance
- Gigabit Ethernet interface ensures bandwidth availability for HD cameras
- Hybrid capability allows a mix of up to 32 IP and analog cameras
- Efficient analog compression with Adaptive Compression Technology
- Advanced health management
- Internal back-up battery for power brown-out protection
- Optional alarms / relays and two-way audio
- High-capacity internal storage
- External RAID options for extended archiving
- Embedded Linux operating system
- Advanced integration with Command Enterprise and Visual Intelligence software

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VIDEO

Model Specific Recording	<p>4332 C Hybrid NVR:</p> <ul style="list-style-type: none"> • 32 channel hybrid camera support • 120 fps NTSC/100 fps PAL @ CIF resolution across 16 analog channels • 120 fps @ D1 resolution across 16 IP channels <p>4324 C Hybrid NVR:</p> <ul style="list-style-type: none"> • 24 channel hybrid camera support • 60 fps NTSC / 50 fps PAL @ CIF resolution across 8 analog channels • 120 fps @ D1 resolution across 16 IP channels
Video Compression	Analog Cameras: MPEG-4 video compression with Adaptive Compression Technology IP Cameras: H.264 high-definition or megapixel
Recording Modes	Continuous, scheduled, or on event/alarm (physical or remote), motion detection; ATM/POS transaction ³ trigger; configurable pre- and post-alarm recording
Video Streaming	Unlimited streams; bandwidth limiting at global or camera-specific bit or frame rates; unique adaptive stream for low-bandwidth networks
Video Storage	Up to 4 high-capacity, SATA-compatible hard drive interfaces; external RAID storage with optional SCSI PCI adapter ⁴

CONNECTIVITY

Alarms / Relays	Optional module; 16 current loop inputs, supporting open/closed/cut detection; 4 relay switch outputs (30 VDC, 1 Amp); programmable event driven
Audio Channels	Optional PCI card ⁴ ; 6 line-level I/O channels; two-way half-duplex communication, synchronized to video; 4 quality settings per channel

Data Connectivity	Optional PCI card ⁴ ; four RS-232 ports or two RS-485 ports per card, for ATM/POS transaction data integration ³ or PTZ camera support
Network Interface	Ethernet: RJ-45 10/100 BaseT main port; additional GigE port for IP cameras; DHCP enabled
USB Interface	USB 2.0; video export via USB CD burner or memory stick
Audit Trail	Logs all unit access and activity; 6 month capacity

PHYSICAL

Dimensions (HxWxD)	3.5 x 17.5 x 20 in. / 8.9 x 44.5 x 50.8 cm; rack (2U high), wall or desk mount
Weight	27 lbs / 12.2 kg (unit plus docking station); 1.25 lbs / 0.57 kg each hard drive

ENVIRONMENTAL

Operating Temperature	50 to 105 °F / 10 to 40 °C
Heat Dissipation	Maximum 255 BTU generated per hour (system plus 4 hard drives)

POWER

Power Supply	Internal 115/230 VAC (auto-sensing); consumption 75 W maximum (system plus 4 hard drives)
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COMPLIANCE

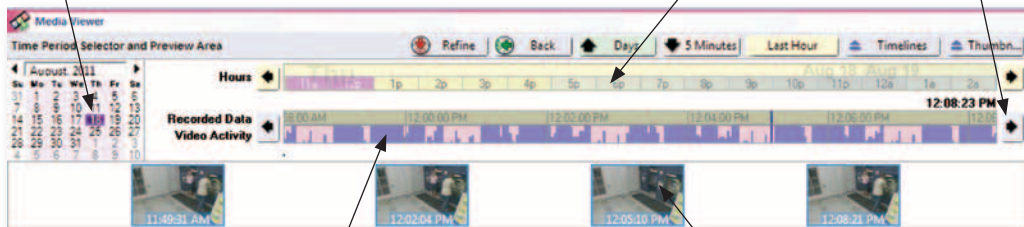
Electromagnetic	FCC Part 15 Class A; EN55022 Class A Emissions; EN55024, EN50130-4, EN61000 Immunity
Regulatory Compliance	UL 60950; CSA C22.2 No.950; EN60950 LVD; RoHS 2002/95/EC

INTELLIGENT SEARCHING

Select day of interest and quickly refine searches down to minutes

Point and click timeline updates the video being displayed

Controls for quickly navigating the time scale



Visual feedback using motion histograms to let you know where the relevant video is located

Thumbnail images guide you to key video segments

NOTES:

- ¹ Consult your March Networks representative for compatible vendors/models.
- ² US 7,869,700; United Kingdom patent 2445118.
- ³ Consult your March Networks representative for any additional hardware/software which may be required.
- ⁴ Single PCI slot available.