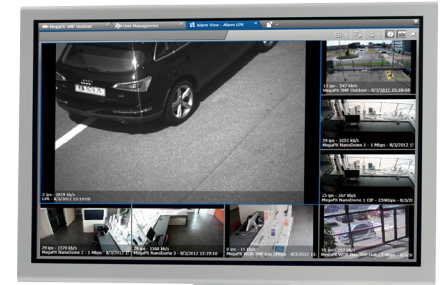


6400 Series Hybrid NVR



The March Networks® **6400 Series Hybrid NVR** delivers the exceptional performance, flexibility and control you need to migrate from analog to IP. The recorder can support as many as 32 high-definition (HD) IP cameras, or any combination of IP and analog cameras to a maximum of 16 analog channels. This mid-sized platform offers a browser-based interface that works seamlessly across both Mac and PC environments. Ideal as a standalone device, the 6400 can also be easily managed in a fully-distributed IP video solution using March Networks Command™ Enterprise video management software.



HYBRID TO ALL IP VIDEO

The 6400 Series Hybrid NVR is a powerful video surveillance recorder that allows you to extend the life of your legacy investments or migrate over time to all IP video networking to meet your business requirements. The unit can be configured in the factory to support from 4 to a maximum of 32 video channels. Additional channels can be added in the field through software licensing — you only pay for the capacity you need and can expand it over time.

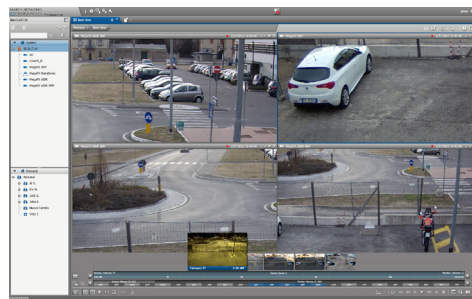
The 6400 Hybrid Recorder supports 32 high-definition (HD) IP cameras, or a combination of up to 16 IP and 16 analog cameras at high frame rates of up to 30 fps @ 4CIF on all analog channels. It uses state-of-the-art DSP processing technology to deliver clear and detailed video images. The recorder integrates with March Networks HD megapixel cameras as well as third-party IP cameras via direct integration or ONVIF™-compliance.

UNPARALLELED RELIABILITY

The 6400 Series Hybrid NVR, with its embedded Linux operating system, is designed to work 24/7/365 to help secure and protect. An onboard RAID controller provides flexible, internal redundancy by distributing recorded video across installed hard-drives using hardware RAID-1 or RAID-5. In addition, an internal battery keeps the 6400 recording during power brownouts, and ensures it can safely shut down in the event of a longer-term power failure. The recorder is equipped with front-accessible hard-drive bays that hold up to 8 TB of internal storage, to ensure quick and easy access.

BROWSER-BASED INTERFACE

The 6400 Series Hybrid NVR is managed via an intuitive, customizable browser-based interface, which eliminates the need to download client applications and can be accessed with all leading web browsers (Internet Explorer, Safari, Chrome, Firefox). Optional Command Enterprise software enables users not only to access live and recorded video, but also to centrally configure and manage a few or thousands of 6400 Series Hybrid NVRs from any networked location. Featuring innovative search, mass management and health monitoring tools, the Command software is IT-friendly and can be integrated easily into Windows Active Directory.



The 6400 Series Hybrid NVR is easily configured and managed using the Command browser-based user interface — eliminating the need to download client applications.

FEATURES

- Field-upgradable video channel support via software licensing
- H.264 and M-JPEG compression
- 30 fps @ 4CIF resolution (480 fps across the 16 analog cameras)
- Hybrid functionality supports a total of 32 cameras (16 analog max; 32 IP cameras max with no analog cameras)
- Front-accessible 4 drive bays (up to 8 TB), RAID-1/5
- Onboard battery backup
- Browser-based interface with cross-platform OS support eliminates client application downloads
- Hybrid flexibility for cost-effective migration
- High availability through RAID-1/5
- Embedded Linux® O/S
- Choose the ONVIF-compliant cameras that serve your needs

6400 Series Hybrid NVR

VIDEO

HYBRID (ANALOG/IP) APPLICATIONS	<p>Analog Recording, Main Stream to Hard Drive: 16 analog cameras; 480 fps NTSC / 400 fps PAL @ 4CIF resolution; H.264 encoding; total 16 Mb/s</p> <p>Analog Recording, Secondary Stream to Hard Drive: 16 analog cameras; 160 fps @ CIF resolution; H.264 encoding total 8 Mb/s</p> <p>IP Recording, Main Stream from Network to Hard Drive: 16 HD IP cameras; 30 fps @ 1 Mb/s each; H.264, total 16 Mb/s</p> <p>IP Recording, Secondary Stream from Network to Hard Drive: 16 HD IP cameras; 10 fps @ 0.5 Mb/s each; H.264 format, total 8 Mb/s</p>
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NVR APPLICATIONS	<p>IP Recording, Main Stream from Network to Hard Drive: 32 HD IP cameras; 30 fps @ 1 Mb/s each; H.264, total 32 Mb/s</p> <p>IP Recording, Secondary Stream from Network to Hard Drive: 32 HD IP cameras; 10 fps @ 0.5 Mb/s each; H.264 format, total 16 Mb/s</p>
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Local Display	Up to 16CIF live analog streams for viewing; 4x4 display
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Spot Monitor	Live view of analog inputs (cycle through cameras)
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Video Compression	H.264 or M-JPEG video codec; primary and secondary streams for analog and IP cameras; 4CIF, 2CIF and CIF resolutions
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Analog Camera Auto-Detection	Automatic detection of NTSC or PAL cameras
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Video Storage (Internal)	Up to four high-capacity, SATA-compatible hard drive interfaces for a maximum of 8 TB of storage; Built-in RAID-1/5 controller, SMART monitoring support
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Video Input Termination	Software-controlled video input termination; 75 Ohms or HI-Z
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CONNECTIVITY

Alarms/Relays	16 current loop de-bounced inputs, supporting open/closed detection; 4 relay switch outputs (30 VDC, 1 Amp)
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Audio Channels	4 line-level input channel; 1 line-level output channel; one-way audio; 1 quality setting per channel
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Data Connectivity	1 RS-232 port; 1 RS-485 for PTZ camera support
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Network Interface	2 Ethernet ports: RJ-45 1000BaseT; DHCP-enabled
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USB Interface	2 USB 2.0 on front; keyboard and mouse support
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LEDs	4 software controlled LEDs on front panel (1 green for unit, 1 green and 1 yellow for operation, and 1 green for export). 2 integrated LEDs on each network; RJ-45 connectors on back
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Video Display Ports	HDMI and composite analog video output ports available on back
Watchdog and Reset	Hardware controlled watchdog; power on, software, and manual switch reset support

ENVIRONMENTAL

Operating Temperature	32 to 104°F / 0 to 40°C
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Humidity	5 to 95% RH (non-condensing)
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Cooling	Two fans provide forced-air side cooling, 80 x 80 x 25 mm 34 CFM 12V 0.14A Fan
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Thermal Monitoring	Fan monitoring through FPGA SPI interface (speed and on/off); onboard system and CPU temperature through FPGA SPI interface
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Storage Conditions	14 to 140°F / -10 to 60°C
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PHYSICAL

Dimensions (HxWxD)	3.5 x 17 x 15 in. / 8.9 x 43.2 x 38.1 cm
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Mounting	Desktop with rubber feet, 2U rack and wall mount brackets offered as optional mounting kits
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Weight	13 lbs / 5.9 kg (unit); add 1.25 lbs / .6 kg for each hard drive
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Color	Texture matte black
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Hard Drive Serviceability	Four removable hard drives with locking brackets easily accessible through front panel
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COMPLIANCE

Compliance Markings	CE; usULc, C-tick; FCC; WEEE
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Electromagnetic	FCC Part 15 Class A; ICES-003 Class A; EN55022/ AS/NZS CISPR 22 Class A; EN61000-3-2 & EN61000-3-3; EN50130-4
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Regulatory Compliance	UL/CSA 60950-1 2nd edition; EN60950-1 LVD 2nd edition; RoHS 2002/95/EC; WEEE 2002/96/EC
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POWER

Power Supply	Internal PSU with 100/240 VAC input and 12 VDC output; external IEC power connector input; consumption 100 W maximum (system plus hard-drive); European power cord with back panel cable retention looking clip
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Battery Backup	Battery backup health monitoring and control through DSP GPIOs. Battery time duration at full load: 10 minutes; 11 Sub-C 1.2V 1.5Ah cell battery pack specification in accordance with March Networks PN#24225 ASSY drawing.
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