3000 Series

3108 Digital Video Recorder

The March Networks™ 3108 DVR is a networked, eight-camera, 60/50 frame-per-second system designed for smaller businesses and branch offices. It provides enterprise video processing and storage in a wall-mount platform that is easy to install, operate and maintain.

Key Features

The 3108 DVR provides:

- Flexible recording, from 8 cameras at 4 fps (NTSC), 3 fps (PAL) nominal to 2 cameras at 30 fps (NTSC), 25 fps (PAL)
- MPEG-4 compression with Adaptive Compression Technology, for the most advanced, efficient video processing
- Live monitoring, integrated replay control and always-on, high frame rate recording
- Support for two high-resolution IP cameras via network port
- Four alarm inputs, plus 2 two-way audio ports
- Data ports for integrating video with banking or retail transaction systems and for PTZ camera control
- High-capacity internal hard-drive (minimum 400 GB) for extensive storage
- Local and remote video export to removable media (USB-connected CD or memory stick)
- Bandwidth usage control to align with network capability
- Individually-fused line power for fixed cameras
- Convenient wall-mount enclosure, familiar to security integrators and installers
- Advanced networking and health management features for easy scalability, centralized support, and maximum up-time

Complete capabilities, packaged for smaller needs

The March Networks 3108 DVR is designed specifically for the video surveillance, monitoring and security needs of smaller bank branches, retail outlets and convenience stores, and similar-sized commercial, government or educational facilities. The 3108 DVR delivers high-quality video capture, storage and retrieval capabilities in a package that is consistent with smaller customer requirements and budgets.

Designed into a standard wiring enclosure, this system is very easy for security integrators to install. It also blends inconspicuously with the rest of the equipment on a wiring-closet wall. Standard BNC connectors are provided for the eight cameras supported. Fused line power for each eliminates the need (and cost) for local power converters, and simplifies installation further. Single-board design, conduction cooling (fan-less) and intelligent hardware and software watchdog circuitry keep the unit functioning and keep maintenance requirements low.

A robust, flash-based Linux® operating system offers greater reliability and dependable reboots when needed. It also enables the internal hard disk to store video and audio only, and to be equipped as needed – no drive in a video server application; default high-capacity disk to meet a range of storage needs (e.g., an average of 120-plus days with a 400 GB drive).

Fully IP-capable, the 3108 DVR supports high-resolution IP camera recording, while DHCP networking provides secure system access and management from any authorized PC on the LAN or WAN. Advanced compression and full band-width control optimize video file size and etwork/storage impacts. Two-way audio, alarm detection, and switched relay output are simple to configure, as are the two serial data ports for synchronizing video with ATM, Teller or POS Transaction data[1], or controlling PTZ cameras (on-screen).

Easy-to-use R[5] Visual Intelligence software features enterprise-level functionality, and includes compatibility with our multi-site Management tools. Video clips are exported easily (secure[2] .AVI format – alternately JPEG or BMP still images), complete with an auto-run utility for replay by third parties. All software promotes full user control with minimal training.

R5 VISUAL INTELLIGENCE

MARCH networks

Specifications

3108 DVR

Description: A networked, wall-mount digital video recorder with BNC inputs for 8 NTSC or PAL cameras (with independent line power for each), alarm, switch I/O and serial data ports, two-way audio support, and high capacity internal storage. In a diskless configuration, the unit functions as a video server.

Video Recording: Total of 60 fps for NTSC inputs, 50 fps for PAL inputs; CIF, 4CIF resolution supported; flexible allocation; following rates with CIF setting:

4 cameras or less: NTSC - 60 fps across 4 inputs (15 fps per input, 30 fps on 2 inputs); PAL - 50 fps across 4 inputs (12.5 fps per input, 25 fps on 2 inputs)

5 to 8 cameras: NTSC - 4 fps nominal per parallel input (e.g., Group 1/Camera 1 and Group 2/Camera 1); rates remain as above when parallel input unused; PAL - 3 fps nominal per parallel input

MPEG-4 video compression, with Adaptive Compression Technology; 5 quality settings; average image size < 2 KB/frame; video signal loss detection; all configurable per camera

IP Recording: Up to 2 IP cameras[3] supported in addition to 8 analog devices; direct LAN/WAN connect; high-resolution (3.0 MPixel) images supported; 2.0 megapixels/second performance on each input

Video (Monitor) Output: BNC-terminated NTSC or PAL output; event-driven video switcher functionality, selectable 16:1 composite with dwell; controlled/overridden by time/VMD/alarm video, from any camera

Alarms/Relays: 4 terminal-block current loop inputs, supporting open/closed/cut detection; 1 relay switch output (30 VDC, 1 Amp); programmable event driven; always-on, high frame rate recording, to maximum available per camera

Audio Channels: 2 line-level I/O; two-way half-duplex communication, synched with video; 4 quality settings; 12 VDC, 150 mA provided

Data Connectivity: 1 RS-232 port, 1 RS-485 port; for ATM/POS/PTZ support

Network Interface: Ethernet: RJ-45 10/100-BaseT main connection; PSTN via optional USB modem/terminal adapter; DHCP enabled; optional SNMP configuration; NTP time synchronization

Recording Modes: Continuous, scheduled or driven by external event - alarm, motion detection (full view or masked, with sensitivity), ATM transaction[1], POS transaction[1], 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: High-capacity (400 GB minimum) internal EIDE hard-drive; mounted for easy servicing/upgrade

Audit Trail: Configuration, database searches, communications activity, live and recorded video requests, problem acknowledgement; 6 month capacity with circular logging

Dimensions: 20 in. (h) x 14.5 in. (w) x 4.5 in. (d) / 50.8 cm (h) x 36.8 cm (w) x 11.4 cm (d); wall mount

Weight: 15 lbs / 6.8 kg, without hard drive; add 1.25 lbs / 0.6 kg for drive

Operating Temperature: 50-105 °F / 10-40 °C; conduction cooling (fanless); maximum 205 BTU generated per hour (system plus hard drive; excluding cameras)

Electromagnetic: FCC Part 15 Class A, EN 55022:1998 Class A, EN 61000-3-2/3, EN 50130-4

Power Supply: 120 or 240 VAC (separate ordering numbers); incorporates 8 independent 12 VDC/24 VAC camera feeds plus one 12 VDC audio device feed; consumption 60 W for system plus hard-drive, 100 W maximum including cameras

Safety: UL 60950; CSA C22.2 No.60950; EN 60950

Notes:
[1] Added hardware and/or software may be required. Consult your March Networks representative.
[2] SHA (Secure Hash Algorithm) of Digital Signature Standard [U.S. FIPS PUB 180-1, 1995].
[3] Consult your March Networks representative for compatible vendors/models.

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