3000 Series

3204 Digital Video Recorder

3204 DVR

The March Networks™ 3204 DVR is a compact, 60/50 frame-per-second recorder for confined spaces like bank ATMs or locations needing only four cameras. It provides enterprise recording and storage in a networked platform that is easy to install, use and maintain.

Key Features

The 3204 DVR provides:
- Flexible recording, from 4 cameras at up to 15 fps (NTSC), 12.5 fps (PAL) 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 4 high-resolution IP cameras via network port
- 4 loop inputs to trigger recording from lobby doors, ATM panels, drop boxes, etc.
- High-capacity internal hard-drive (minimum 400 GB) for extensive storage
- Local or centralized integration with ATM, Teller or retail POS transaction systems
- Synchronized video playback for event analysis from multiple cameras simultaneously
- Internal back-up battery to filter out power fluctuations
- Small-footprint for installation in confined or concealed locations
- Advanced networking capabilities and system health management tools for centralized control over any number of units
- Bandwidth usage control to align with network capability

Small proportions, big performance

The March Networks 3204 DVR is designed for high-quality video monitoring and security in bank kiosks and ATM lobbies, small retail or convenience stores, and commercial, government or other applications needing four cameras or less. At approximately 2" x 10" x 10", the 3204 DVR can be installed in almost any orientation, in spaces where other video systems will not fit.

A wall-mount kit is included with each system. Four BNC inputs support either NTSC or PAL cameras, while IP cameras are accessed via the network port. Simple connectors are provided for alarms, two-way audio capture and transaction data integration. Three data ports allow video to be synchronized with ATM, Teller or POS Transaction data[1], and PTZ cameras to be controlled on-screen.

Complete networking features provide secure system access and management from authorized PCs anywhere on the LAN or WAN. Easy-to-use R[5] Visual Intelligence software features the enterprise-level functionality expected in a DVR today, including compatibility with our multi-site Management tools. Motion detection, recording schedules, alarm management and all other features are simple to configure and use. Advanced system and health management capabilities make it easy to maintain any number of units locally or centrally. And full bandwidth control minimizes impacts to throughput, regardless of network capacity.

System reliability is maximized through the use of single-board design, conduction cooling (fan-less) or an optional fan kit, internal back-up battery and intelligent hardware and software watchdog circuitry. A flash-based Linux® operating system adds robustness, and means the easily accessed hard-drive stores video and audio only. As a result, the disk is ordered as needed – no drive for video server applications; the default high-capacity disk for extensive local storage.

Optimized video compression and per-camera recording control ensure this storage is used efficiently, generating an average of 120 or more days of records on a 400 GB drive. This video can be exported easily, in secure[2] .AVI clips (alternately JPEG or BMP still images) complete with an auto-run replay utility. All software promotes full user control with minimal training.

R5 VISUAL INTELLIGENCE

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Specifications

3204 DVR

Description: A compact, networked digital video recorder with BNC inputs for 4 NTSC/PAL cameras, alarm and switch I/O ports, two-way audio support, RS-232/RS-485 data ports, 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; the following capture rates are with CIF setting:

NTSC Inputs	PAL Inputs
60 fps across 4 inputs	50 fps across 4 inputs
(15 fps per input,	(12.5 fps per input,
30 fps on 2 inputs)	25 fps on 2 inputs)

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 4 IP cameras[3] supported in addition to 4 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: 1[4] line-level I/O, via Expansion Kit; two-way half-duplex communication, synched to video; 4 quality settings

Data Connectivity: Dual RS-232 ports (1 standard), single RS-485 port, via Expansion Kit; 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: 2.2 in. (h) x 10.4 in. (w) x 10.3 in. (d) / 5.5 cm (h) x 26.4 cm (w) x 26.2 cm (d)

Weight: 3.8 lbs / 1.7 kg, without hard drive; add 1.25 lbs / 0.6 kg for drive

Operating Temperature: 50-105 °F / 10-40 °C with standard conduction cooling; Cooling Option Kit to extend range; maximum 135 BTU generated per hour (system plus hard-drive)

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

Power Supply: 12 VDC; 120/240 VAC auto-sensing adaptor; consumption 40 W maximum (system plus hard-drive)

Regulatory Compliance: UL 60950; CSA C22.2 No.60950; EN 60950; RoHS 2002/95/EC

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.
[4] Two-channel version also available. Consult your March Networks representative.

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