NIRIKHON

SECURITY & DEFENCE TECHNOLOGY

PRODUCT BROCHURE

NVR

24 Channel NVR with 12MP Camera Support

The 24 Channel NVR by NIRIKHON (Model NKNVR3232-V3-IQ) delivers high-density, stable video decoding across 24 simultaneous channels supporting up to 12MP feeds, engineered for institutional recording and command & control operations. Its heavy-duty metal body ensures superior heat dissipation for continuous 24/7 reliability, while H.265+ compression optimizes bandwidth efficiency. With dual SATA bays up to 16TB storage and Auto System Recovery, it delivers mission-critical central command performance.



24 Channel NVR with 12MP Camera Support

Official Brochure

SOLUTION SNAPSHOT

24-Channel High-Density Video Recording Engine	**Supports Upto 12MP High-Definition Video Feeds**	**Industrial Heat-Dissipating Metal Chassis**
H.265+ / H.265 / H.264 High-Efficiency Compression	**Dual SATA HDD Bays, Upto 16TB Total Capacity**	**1-Year Service Warranty Coverage**

OVERVIEW

Built for Real Operations 01

The 24 Channel NVR by NIRIKHON (Model NKNVR3232-V3-IQ) delivers high-density, stable video decoding across 24 simultaneous channels supporting up to 12MP feeds, engineered for institutional recording and command & control operations. Its heavy-duty metal body ensures superior heat dissipation for continuous 24/7 reliability, while H.265+ compression optimizes bandwidth efficiency. With dual SATA bays up to 16TB storage and Auto System Recovery, it delivers mission-critical central command performance.

CAPABILITIES

Key Features & Product Modules 02

High-Performance Ultra-HD Processing Core

The central processing core manages simultaneous decoding across all 24 channels, supporting camera feeds up to 12MP. Engineered to sustain stable, high-density performance under continuous institutional recording loads.

24-Channel High-Density Network Video Decoding Module

Handles real-time decoding of up to 24 concurrent HD video streams, enabling smooth, simultaneous multi-channel display and analysis. Built to process high-resolution feeds without compromising system responsiveness during full-channel operation.

Dual SATA Interface Controller & High-Capacity Storage Bay

Manages two independent SATA hard drive bays, supporting up to 16TB of total storage capacity across both drives. Provides the structural data pathway for continuous, high-volume institutional video archiving.

H.265+ High-Efficiency Hardware Video Compression Engine

Executes advanced H.265+/H.265/H.264 compression at the hardware level, significantly reducing storage consumption and network bandwidth. Ensures high-resolution footage is preserved efficiently across extended recording periods.

Network Transmission Interface & Audio/Alarm Module

Serves as the primary data pathway connecting the NVR to command center infrastructure, enabling centralized access and control alongside integrated alarm signaling. Supports stable, uninterrupted connectivity for real-time institutional monitoring.

Smart Power Regulation Board with Auto-Recovery Circuitry

Delivers stable DC 12V/3A power distribution while automatically restoring full system operation following power interruption. Minimizes surveillance gaps and ensures rapid return to continuous recording after outages.

High-Efficiency Internal Heat Sink & Thermal Airflow Channel

Channels heat away from high-load processing components during extended 24-channel operation, working in coordination with the metal chassis to prevent thermal buildup. Supports sustained system stability during continuous recording cycles.

Heavy-Duty Industrial Metal Enclosure & Shielded Chassis

A rugged metal enclosure provides structural protection and enhanced heat dissipation, safeguarding internal components during extended operational deployment. Engineered for long-term durability in demanding institutional command environments.

Software, Benefits & Outcomes

Real-Time Live Monitoring

Renders live 24-channel HD feeds in a unified command interface, giving operators immediate full-facility situational visibility.

- Configurable grid layouts (1/4/9/16/24-channel views)
- Instant channel switching and full-screen focus mode
- Live status indicators for feed connectivity per channel
- Customizable channel arrangement by operational priority
- Synchronized live timestamp display across all channels

Adaptive Multi-Mode Recording Schedules

Enables operators to configure Manual, Timer, Motion, and Smart Event recording modes tailored to institutional monitoring requirements.

- Per-channel recording mode assignment
- Time-block scheduling for automated recording windows
- Motion-triggered recording sensitivity configuration
- Smart Event rule-based recording setup
- Schedule templates for rapid multi-channel deployment

Synchronized Multi-Channel Playback & Smart Event Search

Enables rapid, timestamp-accurate retrieval of recorded footage across all 24 channels for efficient review and investigation.

- Calendar and timeline-based footage navigation
- Multi-channel synchronized playback
- Event-tagged bookmarking for rapid recall
- Variable-speed scrubbing for frame-level review
- Exportable footage segments with timestamp metadata

Dual-Bay High-Capacity SATA Storage Management

Manages up to 16TB of total storage across dual SATA bays, giving operators full visibility and control over institutional data retention.

- Real-time storage capacity monitoring per drive
- Configurable overwrite and retention policies
- Storage health status and disk diagnostics
- Manual drive formatting and allocation control
- Low-storage automated alert notifications

Real-Time Motion Detection & Smart Event Alarm Linkage

Applies intelligent motion-based detection across all 24 channels, triggering instant alerts with linked automated response actions.

- Configurable motion-sensitivity zones per channel
- Real-time alarm notification on the command dashboard
- Alarm-linked automated recording activation
- Event log with timestamp and channel reference
- Scheduled detection sensitivity by time-of-day

Bandwidth & H.265+ High-Efficiency Stream Optimization

Manages H.265+ compression settings across all 24 channels, balancing high-resolution clarity with efficient bandwidth and storage utilization.

- Configurable bitrate control per channel (VBR/CBR)
- Compression standard selection (H.265+/H.265/H.264)
- Stream quality adjustment for bandwidth-constrained environments
- Real-time bandwidth utilization monitoring
- Storage-saving preset configurations

Seamless Remote Monitoring via Mobile App & PC Web Client

Extends full 24-channel visibility beyond the command center through secure mobile and PC-based remote access.

- Live multi-channel viewing via mobile application
- PC web client-based remote access dashboard
- Remote playback of archived footage
- Push notification alerts on mobile devices
- Multi-user simultaneous remote session support

Multi-User Permission & Role-Based Access Control (RBAC)

Enforces hierarchical access permissions, ensuring only authorized personnel can access sensitive recording and system functions.

- Administrator, operator, and viewer privilege tiers
- Per-channel access permission assignment
- Session-based access logging per user
- Time-restricted access provisioning
- Instant access revocation for compromised credentials

SPECIFICATION

Technical Details 05

24-CHANNEL HIGH-DENSITY VIDEO RECORDING ENGINE
✓ Included

SUPPORTS UPTO 12MP HIGH-DEFINITION VIDEO FEEDS
✓ Included

INDUSTRIAL HEAT-DISSIPATING METAL CHASSIS
✓ Included

H.265+ / H.265 / H.264 HIGH-EFFICIENCY COMPRESSION
✓ Included

DUAL SATA HDD BAYS, UPTO 16TB TOTAL CAPACITY
✓ Included

1-YEAR SERVICE WARRANTY COVERAGE
✓ Included

MULTI-MODE RECORDING FLEXIBILITY
✓ Included

AUTOMATIC VIDEO STANDARD DETECTION
✓ Included

EFFICIENT POWER ARCHITECTURE
✓ Included

DUAL-BAY STORAGE CONFIGURATION
✓ Included

HIGH-DENSITY MULTI-CHANNEL MANAGEMENT
✓ Included

BANDWIDTH-OPTIMIZED COMPRESSION
✓ Included

UNINTERRUPTED POST-OUTAGE RECOVERY
✓ Included

EXTENDED SERVICE ASSURANCE
✓ Included

QUESTIONS

Frequently Asked Questions 07

Q. How does the system manage bandwidth during simultaneous 24-channel recording?

A. The NVR is engineered with a dedicated processing core designed to manage 24 concurrent HD video channels supporting feeds up to 12MP, supported by H.265+ hardware compression to optimize bandwidth and storage efficiency during simultaneous multi-channel operation. Procurement teams requiring specific throughput benchmarks (e.g., total Mbps input capacity) should request supplementary confirmation during technical evaluation, as this figure was not explicitly detailed in the confirmed specification set.

Q. How does the heavy-duty metal chassis manage thermal performance during continuous 24/7 operation?

A. The heavy-duty metal chassis provides structural heat dissipation, working alongside internal thermal management to support sustained performance during continuous 24-channel recording. This construction is designed for long-term durability in demanding institutional command environments requiring uninterrupted operation.

Q. How resilient is the system's auto-recovery capability following a power outage?

A. The unit is equipped with Auto System Recovery, automatically restoring full operational status after power interruption without requiring manual intervention. This capability minimizes surveillance gaps and supports rapid return to continuous recording following unplanned outages, a key requirement for uninterrupted institutional monitoring.

Q. What storage redundancy does the dual-HDD configuration provide, and does it support RAID protection?

A. The system supports two independent SATA HDD bays, each accommodating up to 8TB, for a combined total of 16TB storage capacity. RAID configuration was not part of the confirmed specification set for this unit; procurement officers requiring RAID-based redundancy should request formal confirmation of supported RAID levels during technical evaluation to ensure alignment with institutional data-resilience requirements.

Ready to deploy 24 Channel NVR with 12MP Camera Support?

Talk to Nirikhon for product consultation, installation planning, integration support, and enterprise deployment.

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