

128-Channel INT 4K 8 SATA

Network Video Recorder



- Intel Processor
- Max 128 IP Camera Channels with IVS Recording (additional PoE switches required)
- Max 384 Mbps Incoming Bandwidth
- Up to 12MP Resolution for Preview and Playback
- Supports RAID 0 /1/5/6/10
- Smart Tracking
- Spot Output



System Overview

Dahua's next generation network video recorder offers unparalleled recording technology for IP video security applications. This enterprise-level NVR provides a powerful Intel processor with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, center storage, edge storage, and back up storage.

The NVR is compatible with numerous third-party devices making it the perfect solution for security systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.4, enabling interoperability when combined with 4K cameras.

Functions

RAID 0/1/5/6/10

Offering a balance between storage performance, storage capacity, and data integrity, the NVR features Fruitfull RAID 0/1/5/6/10 for faster and safer recording.

Fisheye Dewarping

The NVR features multiple fisheye dewarping modes to make viewing video easy whether its live or during playback.

N+M Hot Standby

The highly reliable redundancy N+M Hot Standby design provides a secure, failover technique ensuring immediate backup. In the event of a system failure, the backup instantly takes over the main ensuring no data is lost.

4K Resolution

The NVR supports 4K Ultra HD resolution (3840 x 2160) for recording, live viewing and playback.

Intelligent Video System (IVS)

With built-in intelligent video analytics (on two IP channels), the NVR has the ability to detect and analyze moving objects for improved video security. The NVR provides standard intelligence features allowing detection of multiple object behaviors such as Abandoned/Missing Objects. IVS also supports Tripwire for detecting perimeter breaches, Heat Map for business intelligence, and Facial Detection+ for human face detection.

Heat Map

The NVR's Heat Map option highlights the areas with the highest concentration of people. This information can then be exported into a customized report to assist in business or forensic analysis.

Point of Sale (POS)

Ideal for grocery and retail stores, the optional POS solution allows the NVR to receive a POS transaction via corresponding video. This feature allows merchants to analyze specific transactions.

Smart Tracking

The auto tracking PTZ feature automatically tracks a moving target throughout the camera's field of view. This function is ideal for following an object as it moves through airports, parking lots, city centers, or other applications.

Automatic Network Replenishment (ANR) Technology

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

Technical Specification

System

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|------------------|---------------------------|
| Main Processor | Intel Quad-core Processor |
| Operating System | Embedded LINUX |

Display

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|--------------------------|--|
| Interface | 2 HDMI (up to 3840 x 2160, Different Source), 1 VGA |
| Spot Output | HDMI 2 |
| Native Output Resolution | 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768 |
| Maximum Decoding | 4ch @12MP 20fps 4ch @8MP 30fps 8ch @8MP 15fps 5ch @6MP 30fps 6ch @5MP 30fps 8ch @5MP 25fps 8ch @4MP 30fps 9ch @4MP 20fps 12ch @3MP 25fps 8ch@1080p 60 fps 16ch @1080p 30fps 25ch@720p 30fps |
| Multi-screen Display | 1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16 |
| OSD | Camera title, Time, Video loss, Camera lock, Motion detection, Recording |

Video Detection and Alarm

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|------------------------|---|
| Trigger Events | Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips |
| Video Detection | Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Camera Blank |
| Alarm Input | 16 Channel, Low Level Effective, Green Terminal Interface |
| Relay Output | 8 Channel, NO/NC Programmable, Green Terminal, Interface |
| Tracking Trigger Event | Targeting, Zoom, Tracking, Recording, Snapshot, Alarm, etc. |

Playback and Backup

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|-------------------|---|
| Search Mode | Time /Date, Alarm, MD and Exact Search (accurate to one second) |
| Playback Function | Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom |
| Backup Mode | USB Device/Network/Internal SATA burner/eSATA Device |

Storage

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| Internal HDD | 8 SATA III Ports, Up to 10 TB per HDD |
| HDD Mode | Single, Raid 0/1/5/6/10 (Supports Global HDD Hot-spare) Enterprise-level HDD Recommended |
| eSATA | 1 eSATA Port |

Auxiliary Interface

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|-------------|---------------------------------------|
| Front Cover | Support Hot-swap |
| USB | 4 USB Ports (2 USB 2.0 , 2 USB 3.0) |
| RS232 | 1 Port for PC Communication and Debug |
| RS485 | 1 Port for PTZ Control |

Third-party Support

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|---------------------|--|
| Third-party Support | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek and more |
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Audio and Video

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| IP Camera Input | 128 Channel (additional PoE switches required) |
| Two-way Talk | 1 Channel Input, 1 Channel Output, RCA |

Recording

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|--------------------------------|---|
| Compression | Smart H.265+, H.265, Smart H.264+, H.264, MJPEG |
| Supported IP Camera Resolution | 12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 1.3 MP, 720p |
| Maximum Incoming Bandwidth | 384 Mbps |
| Bit Rate | 1 Kbps to 20 Mbps per Channel |
| Record Mode | Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Camera Blank, Video Loss), Alarm, Stop |
| Record Interval | 1 to 120 min (default: 60 min), Pre-record: 1 to 30 sec, Post-record: 10 to 300 sec |

Network

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| Ethernet | Two (2) RJ-45 Ports (10/100/1000 Mbps) |
| Network Function | HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS) |
| Max. User Access | 128 users |
| Smart Phone | iPhone, iPad, Android |
| Interoperability | ONVIF 2.4, CGI Conformance |

Electrical

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|-------------------|--------------------------|
| Power Supply | 110 to 240 VAC, 50/60 Hz |
| Power Consumption | < 20 W, without HDD |

Environmental

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|----------------------|---|
| Operating Conditions | -10°C to +55°C (+14°F to +131°F), 86 to 106 kpa |
| Storage Conditions | 0°C to +40°C (32°F to +104°F), 30 to 85% RH |

Construction

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|--------------|--|
| Dimensions | 444.0 mm × 454.90 mm × 90.40 mm (17.4 in. x 17.9 in. x 3.5 in.) |
| Net Weight | 9.0 kg (19.80 lb), without HDD |
| Gross Weight | 10.50 kg (23.10 lb) |
| Installation | 19-in. Rack-mounted (includes rack mount ears) |

Certifications

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| EN | EN55022, EN55024, EN50130-4, EN60950-1 |
| UL | UL 60950-1+CAN/CSA C22.2 No. 60950-1 |
| FCC | Part 15 Subpart B ANSI C63.4-2014 |

Intelligence

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|---|--|-------------|
| Basic Intelligence | Tripwire, Intrusion, Abandoned Object | |
| Advanced Intelligence | Heat Map, People Counting, Thermal (16 channels) | |
| Analytics+ Recording (requires a camera with On-board Analytics+ Processing) | SMD+ | 32 Channels |
| | Perimeter Protection | 24 Channels |
| | ANPR | 8 Channels |

Ordering Information

| Type | Part Number | Description |
|-----------------|---------------------------|---|
| 128 Channel NVR | DHI-NVR6A08-128-4KS2 2TB | 128 Channel Super 4K Network Video Recorder, 2 TB (includes rack mount ears) |
| | DHI-NVR6A08-128-4KS2 4TB | 128 Channel Super 4K Network Video Recorder, 4 TB (includes rack mount ears) |
| | DHI-NVR6A08-128-4KS2 6TB | 128 Channel Super 4K Network Video Recorder, 6 TB (includes rack mount ears) |
| | DHI-NVR6A08-128-4KS2 10TB | 128 Channel Super 4K Network Video Recorder, 10 TB (includes rack mount ears) |
| | DHI-NVR6A08-128-4KS2 12TB | 128 Channel Super 4K Network Video Recorder, 12 TB (includes rack mount ears) |
| | DHI-NVR6A08-128-4KS2 24TB | 128 Channel Super 4K Network Video Recorder, 24 TB (includes rack mount ears) |
| | DHI-NVR6A08-128-4KS2 48TB | 128 Channel Super 4K Network Video Recorder, 48 TB |

Dimensions (mm)

