dahua TECHNOLOGY

128-Channel INT 4K 8 SATA
Network Video Recorder

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

Super Series | intel inside™ | H.265 | TRACKING Smart Tracking | Face Detection | Heat Map | Tripwire | Intrusion | COUNTING People Counting | Missing Abandon Detection

System Overview

Dahua's next generation network video recorder offers unparalleled recording technology for IP video surveillance applications. For applications where details are critical for identification, 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, centre storage, edge storage, and back up storage.

Designed as a low-cost, easy installation, this NVR is ideal for a wide range of applications such as public safety, water conservancy, transportation, city centers, education, and financial institutions. The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance 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 slave instantly takes over the master 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 surveillance. The NVR provides standard intelligence features allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, Heat Map, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

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 via the Fuzzy search Algorithm.

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

Main Processor	Intel Quad-core Processor
Operating System	Embedded LINUX

Display

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

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

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

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

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

Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panason Pelco, Samsung, Sanyo, Sony, Videotec, Vivotel and more

Audio and Video

IP Camera Input	128 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA

Recording

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

Ethernet	2 RJ-45 Ports (10/100/1000 Mbps)
Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTI 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 Conformant

Electrical

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

Environmental

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

Construction

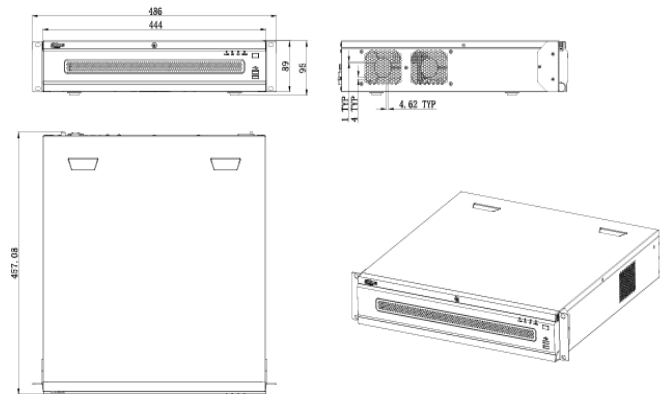|	
Dimensions	444.0 mm × 454.90 mm × 90.40 mm (17.4 in. x 17.9 in. x 3.5 in.)
Net Weight	9.0 kg (19.80 lb), without HDD
Gross Weight	10.50 kg (23.10 lb)
Installation	19-in. Rack-mounted (includes rack mount ears)

Certifications

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

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

Dimensions (mm)

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

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