Dahua TECHNOLOGY

NVR 256CH RAID INT 4K 24SATA
256 Channel Ultra Network Video Recorder

- Intel Processor
- Max 256 IP Camera Inputs with IVS Recording
- Max 512 Mbps Incoming Bandwidth
- Up to 8 MP Resolution for Preview and Playback
- 24 Hot-swap HDDs
- Supports RAID 0 /1/5/6/10/50/60
- iSCSI and Mini SAS for Expanded Storage Space
- Supports N+M Hot Standby
- Intelligent Video System with Business Analytics (8 IP channels)

Super Series | (intel) inside | H.264 | Face Detection | Tripwire | Intrusion | Missing Abandon Detection

System Overview

Dahua's NVR724-256 is a high performance network video recorder with telecommunication level reliability and stability for IP video surveillance applications. For applications where details are critical for identification, this ultra NVR provides a powerful Intel processor with up to 8 MP resolution. It supports 256 channels of IP camera inputs, and 16 playback channels. 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, as a key equipment in IP video surveillance system. 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.

Functions

RAID 0/1/5/6/10/50/60

Offering a balance between storage performance, storage capacity, and data integrity, the NVR features Fruitfull RAID 0/1/5/6/10/50/60 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.

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.

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.

ONVIF

Ultra series | NVR7A24DR-256

Technical Specification

System

Main Processor	Intel® Core™ i7 Processors
Operating System	LINUX

Display

Interface	2 HDMI (up to 3840 x 2160 , Different Source), 1 VGA, 1 LCD
Maximum Decoding	7Ch@12MP 20fps 10ch@12MP 15fps 5ch@8MP 30fps 9ch@6MP 30fps 16Ch@5/4/3MP 30fps 16Ch@1080P/ 720p 30fps
Native Output Resolution	1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36/64 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	4 Channel, Low Level Effective, Green Terminal Interface
Relay Output	4 Channel, NO/NC Programmable, Green Terminal Interface
Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot, Alarm, etc.

Playback and Backup

Playback	128 Mbps in Raid 5 Mode 64 Mbps in single HDD Mode
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate tosecond)
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	24 SATA III Ports, Up to 8 TB per HDD
HDD Mode	Single, Raid 0/1/5/6/10/50/60 (Support Global HDD Hot-spare) Enterprise-level HDD recommended
eSATA	1 eSATA Port

Auxiliary Interface

Front Cover	Support Hot-swap, 7-inch HD LCD (1920 x 1080 / 1280 x 1024 / 1024 x 768) (Models D and DR)
USB	4 USB Ports (3 USB 2.0 , 1 USB 3.0)
SAS	1 Mini SAS Port, for Storage Expansion
RS232	1 Port for PC Communication and Keyboard
RS485	1 Port for PTZ Control

Third-party Support

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

Audio and Video

IP Camera Input	256 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA

Recording

Compression	H.264/MJPEG
Supported IP Camera Resolution	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080P, 1.3 MP, 720P
Maximum Incoming Bandwidth	512 Mbps
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	4 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, etc.)
Optical Fiber Interface	2 Physical Ports for optional Optical Fiber Ports
Max. User Access	128 users
Mobile Operating System	iPhone, iPad, Android
Interoperability	ONVIF 2.4, CGI Conformant

Electrical

Power Supply	100 to 240 VAC, 50 /60 Hz, Redundant
Power Consumption	< 200 W, without HDD

Environmental

Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86 to 106 kpa
Storage Conditions	0°C to +50°C (+32°F to +122°F), 0 to 90% RH

Construction

Dimensions	4U, 480.0 mm × 494.0 mm × 175.0 mm (18.90 in. x 19.40 in. x 6.90 in.)
Net Weight	29.0 kg (63.90 lb) without HDD
Gross Weight	30.50 kg (67.20 lb)
Installation	Rack-mounted

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

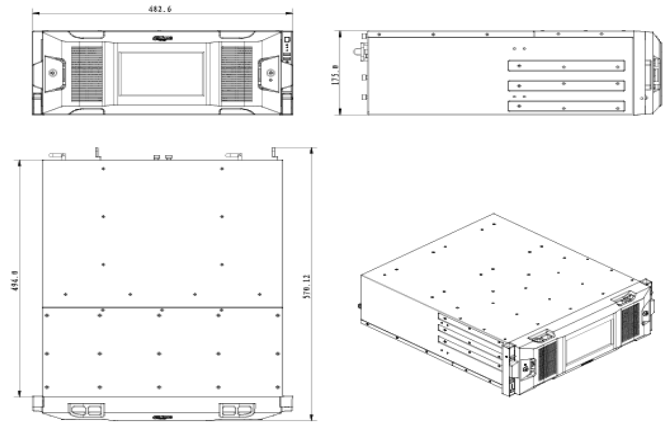IVS triggers an alarm and takes a defined action for the following events:

Premium Features

Motion	An object moves through any part of the scene.
Tripwire	A target crosses a user-defined line.
Intrusion	A target enters or exits a defined perimeter.
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.

Advanced Features

Facial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.
Heat Map	Generates a visual representation of data.

Dimensions (mm)

Ordering Information

Type	Part Number	Description
256 Channel NVR	DHI-NVR7A24DR-256	256 Channel Ultra Network Video Recorder with Redundant power and LCD monitor

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