

# DHI-NVR724R-256

## 256 Channel Ultra Network Video Recorder



### System Overview

Dahua's NVR724R-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 enterprise-level NVR provides a powerful Intel processor. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, centre storage, edge storage, and back up storage.

This NVR is ideal for a wide range of applications such as public safety, transportation stations, government institutions, hotel resorts, shopping malls, city centers, and financial institutions, where demand expansion flexibility, high reliability and centralized storage management.

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.

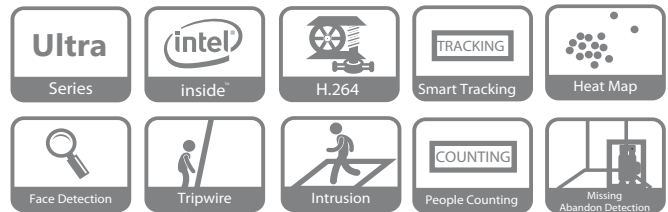
#### Fisheye Dewarping

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.

- Intel Processor
- Max 256 IP Camera Inputs
- Max 512Mbps Incoming Bandwidth
- 24 Hot-swap HDDs
- Supports RAID 0/1/5/6/10/50/60
- iSCSI and Mini SAS for Expanded Storage Space
- Optional HDMI Output Extension Board with 8 HDMI
- Smart Tracking and Intelligent Video
- Redundant Power



### Intelligent Video System (IVS)

With built-in intelligent video analytics, the NVR has the ability to detect and analyze moving objects for improved video surveillance. The NVR provides optional standard intelligence at the edge 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, People Counting, 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.

### 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.

### ANR (Automatic Network Replenishment Technology)

Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to NVR and then recorded in it.

**Technical Specification**

## System

Main Processor	Intel Core i7 Processor
Operating System	Embedded LINUX

## Audio and Video

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

## Display

Interface	2 HDMI (Different Source), 1 VGA 8 HDMI (Optional)
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

## Recording

Compression	H.264/MJPEG
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P etc.
Record Rate	512Mbps
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule (Regular, MD (Motion Detection), Alarm, IVS), Holiday, Stop
Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

## 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 Tampering
Alarm input	4 Channel, Low Level Effective, Green Terminal Interface
Relay Output	4 Channel, NO/NC Programmable, Green Terminal Interface
Tracking Trigger Event	Zoom, Tracking, Recording, Preset, 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 to 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

## 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
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## Network

Interface	4 RJ-45 Ports (10/100/1000Mbps)
Ethernet Port	4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports
PoE	N/A
Network Function	HTTP, HTTPS, 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 Giga Optical Fiber Interface (optional)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, CGI Conformant

## Storage

Internal HDD	24 SATA III Ports, Up to 8 TB capacity for each HDD
HDD Mode	Single, Raid 0/1/5/6/10/50/60(Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
eSATA	1 eSATA Port (Please contact technical engineer to confirm the compatible device)
SAS	2 Mini SAS Port, for Storage Expansion

## 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 Keyboard
RS485	1 Port, for PTZ Control

## Electrical

Power Supply	AC100V ~ 240V, 50 ~ 60 Hz, Redundant
Power Consumption	<200W (Without HDD)

## Environmental

Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH

## Construction

Dimensions	4U, 482.6mm x 544.45mm x 175mm (19" x 21.4" x 6.9")
Net Weight	25.6kg (56.4 lb) (without HDD)
Gross Weight	38.6kg (85.1 lb)
Installation	Rack-mounted

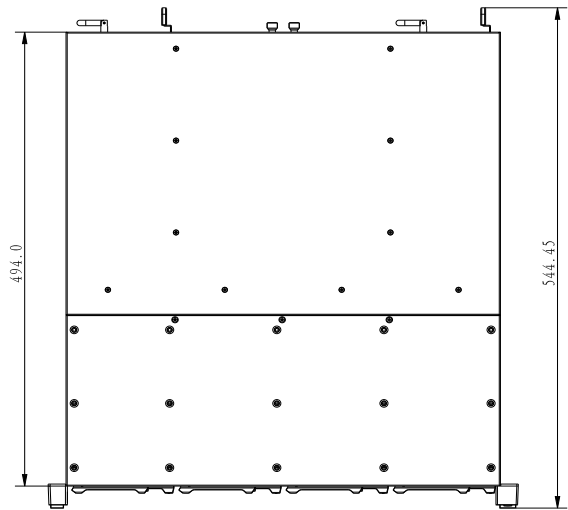
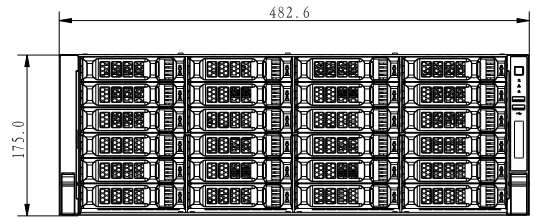
## Certifications

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

**Ordering Information**

Type	Part Number	Description
256 Channel NVR	DHI-NVR724R-256	256 Channel Ultra Network Video Recorder with Redundant Power
Accessories	ESS3116S-J(R)	16 HDDs SAS Storage Cabinet
	ESS3124S-J(R)	24 HDDs SAS Storage Cabinet

**Dimensions (mm)**



**Accessories**



ESS3116S-J(R)



ESS3124S-J(R)