

# 40 CHANNEL NETWORK VIDEO RECORDER

## HD-NVR-7240I



- **40 CH NVR** – 400Mbps Incoming / 400Mbps Outgoing Bandwidth
- **Max Resolution** – 16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
- **Compression** – Smart H.265+ / H.265 / H.264+ / H.264
- **Video Output** – HDMI Upto 4k & VGA up to 1080P
- **Multi Display** – 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40
- **Playback** – 16 CH Simultaneous Playback
- **Storage** – 2× SATA Up to 10TB HDD Capacity
- **AI by Camera** – Tripwire, Double Tripwire, Perimeter, Object Abandon/Missing, Loitering, Face Detection, Running, Parking, Crowd Detection etc.



40 CH NVR  
MULTI RECORDING



16 MP MAX  
RESOLUTION



2 SATA SLOT  
UPTO 10TB



400 MBPS  
INCOMING/OUTGOING  
BANDWIDTH



AI FEATURES  
BY CAMERA

### SYSTEM OVERVIEW

Supports up to 40 Channels with high 400Mbps bandwidth for smooth and reliable large-scale surveillance. Delivers ultra-high resolution up to 16MP with powerful decoding for seamless live view and playback performance. Advanced AI analytics including face recognition, perimeter protection, human attributes, and intelligent event detection. Flexible storage with dual SATA support and multiple backup options ensures secure and efficient data management. Designed for professional security systems with dual network ports, multi-screen display, and advanced compression technology.

### ABOUT HIFOCUS

HI-FOCUS is a trusted leader in surveillance and networking solutions with more than a **Decade of experience** in CCTV Industry. We deliver innovative, reliable, and high-performance security products designed to meet global quality standards. Every HI-FOCUS product is engineered with precision and rigorously tested to ensure superior performance and customer satisfaction.





**Central Monitoring System**  
Monitor Multiple Locations from One Powerful Platform

## ONVIF Compatibility

Seamless Integration with Multiple IP Cameras & Systems



## P2P Cloud Connectivity

Access your security system globally with unmatched ease and reliability.




## Your Data. Secure. Stored in India.

Reliable Cloud Storage with Local Data Protection & High Security Standards

-  Data Hosted in India
-  Enhanced Privacy & Compliance
-  Fast & Secure Access
-  Connecting to the cloud.

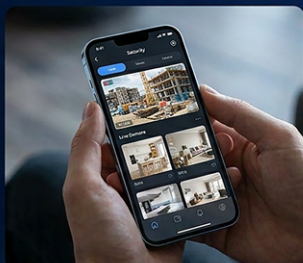


**Secure Your Surveillance Today**

## Instant Access to Your Security



Real-Time Live View



Remote Access Anywhere



Replay Important Evidence




**Flexible HDMI & VGA Connectivity**  
High-resolution output for sharper, clearer images





## 40 CHANNEL NETWORK VIDEO RECORDER | HD-NVR-7240I

### Video & Audio Channels

Supports 40 video and audio channels with 400 Mbps bandwidth, reduced to 200 Mbps with AI. Resolutions range from 16MP to QCIF. Preview and playback decoding vary by resolution, with AI slightly reducing channel capacity.

### Alarm & Exception Handling

Includes motion detection, mask alarm, and IPC/NVR alarm inputs. Exception alerts for video loss, network issues, disk errors, and conflicts. Alarm I/O supports 16 inputs and 4 outputs.

### Intelligent Analytics

AI by camera covers perimeter, tripwire, object detection, crowd, and fire/smoke alerts. AI by NVR includes face recognition, structuralization, and smart motion detection. VCA search allows detailed attribute- and event-based queries.

### Face & Human Attributes Recognition

Detects gender, age, glasses, face mask, and body temperature. Supports up to 20 face libraries with 100,000 base images. Human attributes include clothing, accessories, carrying status, and riding detection.

### AI Performance by NVR

Perimeter/tripwire detection on 24 channels, other AI on 8 channels. Functions include people counting, parking, running, loitering, and heatmap analysis. AI performance is optimized for 1080P video streams.

### Interfaces & Storage Options

Two SATA HDDs supported, each up to 10 TB. Interfaces include USB 2.0/3.0, RJ-45 Ethernet, RS-232, and RS-485. Dual network ports provide redundancy and high-speed connectivity.



## CORE FEATURES

### Video and Audio

Channel	40
Incoming Bandwidth	400Mbps(AI on: 320Mbps)
Outgoing Bandwidth	400Mbps(AI on: 200Mbps)
Resolution	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Preview Decoding Capability	16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×7, 6MP(30fps)×9, 5MP(30fps)×11, 4MP(30fps)×14, 3MP(30fps)×18, 1080P(30fps)×28, 720P(30fps)×40, 4CIF(30fps)×40(AI on:16MP(30fps)×2, 12MP(30fps)×3, 8MP(30fps)×5, 6MP(30fps)×6, 5MP(30fps)×8, 4MP(30fps)×10, 3MP(30fps)×13, 1080P(30fps)×20, 720P(30fps)×40)
Playback Decoding Capability	16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×7, 6MP(30fps)×9, 5MP(30fps)×11, 4MP(30fps)×14, 3MP(30fps)×16, 1080P(30fps)×16, 720P(30fps)×16, 4CIF(30fps)×16(AI on:16MP(30fps)×2, 12MP(30fps)×3, 8MP(30fps)×5, 6MP(30fps)×6, 5MP(30fps)×8, 4MP(30fps)×10, 3MP(30fps)×13, 1080P(30fps)×16, 720P(30fps)×16)
Compatibility	ONVIF(Profile S/T/G), CGI, SDK, P2P
HDMI Output	HDMI: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1280×1024(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz), 2560×1440(30Hz/60Hz), 2560×1600(60Hz), (4K) 3840×2160(30Hz/60Hz)
VGA Output	VGA: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1280×1024(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz)

### Multi-screen Display

HDMI: 1/2A/2B/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40  
VGA: 1/2A/2B/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40

### Audio Input

1CH

### Audio Output

1CH RCA

### Two-Way Audio

1CH

### Compression Standard

#### Video Compression

Smart H.265+, H.265, Smart H.264+, H.264

#### Audio Compression

G.711A, G.711U, AAC, ADPCM\_D

#### Stream Type

Video, Video & Audio

### Network

#### Network Protocol

802.1X, ARP, DDNS, DHCP, DNS, Easy DDNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, Multicast, NFS, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMB/CIFS, SMTP, SNMP v1/v2/v3, SRTSP, SSH, SSL, TLSv1.2, TCP, UDP, Unicast, UPnP

#### Mobile Client

Android, iOS

#### System Compatibility

ONVIF(Profile S/T/G), RTSP, CGI, SDK, P2P

#### Web

IE10+, Firefox52+, Edge89+, Safari11+, Chrome57+

### Recording

#### Multi-channel Playback

16

#### Record Mode

Manual Recording, Alarm Recording, Schedule Recording

#### Storage Method

Local HDD, eSATA

#### Backup

USB storage device, eSATA, Network

#### Playback Function

Play/Pause/Stop/Reverse/Slow/Speed/Backwards 30s/Forwards 30s/Full Screen/Backup (Video Editing)/Step/Digital Zoom/Instant Replay



Dual Stream Record

Yes

## Alarm

General Alarm

Motion Detection, Mask Alarm, Alarm Input(IPC),  
Alarm Input(NVR)

Exception Notification

Video Loss, Network Disconnected, No Disk, Illegal Access,  
Disk group space alert, Disk Full, Disk R/W Error, Recording  
Abnormal, Abnormal found in smart of disk, Abnormal  
temperature of the disk, Hot-spare Exception, Voltage  
Alarm(IPC), RTC Failure, IP Address Conflict, MAC Address  
Conflict, Disk Overload

Alarm I/O

16CH IN, 4CH OUT

## Intelligent Analytics

AI by Camera

Tripwire, Double Tripwire, Perimeter, Object Abandon, Object  
Missing, Running, Parking, Heatmap, Loitering, Video  
Abnormal, Audio Abnormal, On Duty Detection, Crowd  
Detection, Safety Helmet Detection, Electric Bicycle  
Detection, People Counting, Link to Tracking, Smoke and  
Fire Detection, Environmental Temperature Measurement,  
Face Detection, Human Body Temperature Measurement,  
Smart Alarm, Face Recognition, Human/Vehicle Classification

AI by NVR

Face Detection, Face Recognition, Video Structuralization  
(excludes vehicle detection), Tripwire, Double Tripwire,  
Perimeter, Object Abandon, Object Missing, Running, Parking,  
Heatmap, Sleeping on Duty Detection, On Duty Detection,  
Smart Motion Detection, Loitering, People Counting

VCA Search

Early-warning Search, Behavior Search, Safety Helmet  
Search, Thermographic Retrieval, Duty Search, Electric  
Bicycle Retrieval, Face Search(Search by face attributes/  
event/picture), Sleeping on Duty Detection, Smart Motion  
Detection, Human Search(Search by human attributes)

VCA Report

Heatmap, People Counting, Face Statistics



## Face Recognition

Face Attributes Detection	Gender, Age, Glasses, Face Mask
Face Attributes Search	Gender, Age, Glasses, Face Mask, Body Temp
Face Recognition Performance	8-ch(1080P) video streams or 32-ch image streams
Face Picture Library	Up to 20 face libraries Up to 100000 base images
Face Picture Comparison	Supported
Video Structuralization Performance	8-ch(1080P)
Human Attributes Detection	Gender, Age, Backpack, Face Mask, Glasses, Hair, Carrying Status, Top Color, Bottom Color, Top Type, Bottom Type, Riding Status, Hat
Human Attributes Search	Gender, Age, Backpack, Face Mask, Glasses, Hair, Carrying Status, Top Color, Bottom Color, Top Type, Bottom Type, Riding Status, Hat

## AI Performance(AI by NVR)

Perimeter/Tripwire Performance	24CH
Object Abandon/Missing Performance	8CH (1080P)
Sleeping on Duty Performance	8CH (1080P)
On Duty Performance	8CH (1080P)
Loitering/Running Performance	8CH (1080P)
Parking Performance	8CH (1080P)
Heatmap Performance	8CH (1080P)
Smart Motion Dection Performance	8CH (1080P)
People Counting Performance	8CH (1080P)



## Storage

Hard Disk Capacity

2 SATA Up to 10 TB capacity for each HDD

## INTERFACE

USB

1×USB2.0, 1×USB3.0

Network Interface

2×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port

RS-232

1×RS-232

RS-485

1×RS-485

## General

Power Supply

DC12V

Power Consumption

≤15W (HDD not included)

NetWeight

2.28Kg

GrossWeight

3.78Kg

Boundary Dimensions

440(L)284(W)48(H)mm

Package Dimensions

510(L)150(W)385(H)mm

Operating Temperature

-10°C~+55°C (+14°F~+131°F)

Operating Humidity

10%~90%RH (non-condensing)

Storage Temperature

-20°C~+60°C (-4°F~+140°F)



## Dimensions

