

40 CHANNEL NETWORK VIDEO RECORDER

HD-NVR-7240ILM

- **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 20TB HDD Capacity
- **AI Features** – 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 20TB



400 MBPS
400 MBPS
INCOMING/OUTGOING
BANDWIDTH



AI FEATURES

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.

 **IntelliSeek**



Design and specifications are subject to change without notice. Visit HiFocusCctv.com for the latest product information /specification.

IntelliSeek

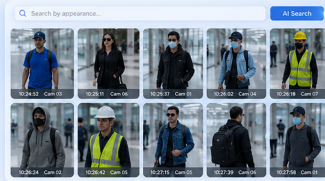
Every Frame. Every Insight. Every Second.

HUMAN SEARCH

Find and identify people instantly using visual attributes and appearance details.

Search surveillance footage by clothing color, accessories, helmets, face masks, eyewear, gender, hairstyle, bags, and other visual characteristics—without knowing a person's identity.

AI-Powered Search Smart Visual Detection Multiple Attribute Filtering Instant Results & Tracking Enterprise-Grade Security



SMART AI VIDEO ANALYTICS

Monitor, Detect & Search Events Instantly Across Every Camera.



AI OBJECT SEARCH

Locate specific objects instantly across recorded surveillance footage using intelligent AI recognition.



AI ANIMAL SEARCH

Quickly identify and search animals captured across connected surveillance cameras.



DEEP SMART SEARCH

Advanced AI-powered video intelligence for faster, smarter, and more precise search across recorded surveillance footage.



AI-POWERED BLUE SHIRT SEARCH

Find people, vehicles, and events instantly using natural language AI search.



NMV SEARCH

Quickly locate and identify non-motor vehicles using AI-powered video analytics.

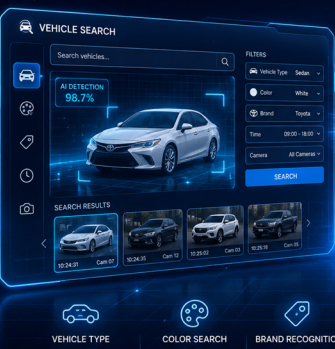
Search bicycles, electric scooters, e-bikes, mopeds, and other non-motor vehicles across recorded surveillance footage using intelligent object recognition. Instantly filter by vehicle type, color, time, and camera to accelerate investigations.

AI Object Recognition Smart Filters (Type, Color, Time) Instant Results & Playback Enterprise-Grade Performance



AI VEHICLE SEARCH

Locate vehicles instantly using intelligent AI-powered visual search.





40 CHANNEL NETWORK VIDEO RECORDER | HD-NVR-7240ILM

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 4 inputs and 2 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 8 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 20 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: 200Mbps)
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); RTSP
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, SRTP, SSH, SSL, TLSv1.2, TCP, UDP, Unicast, UPnP

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

4CH IN, 2CH 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, LPR

AI by NVR

Face Detection, Face Recognition, Tripwire, Double Tripwire,
Perimeter, Smart Motion Detection
Smart Image Search(Face, Human body) IntelliSeek

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

4-ch(1080P)/4-ch(3MP)/4-ch(4MP)/4-ch(5MP)/4-ch(6MP)/3-ch(8MP) video streams or 16-ch image streams

Face Picture Library

Up to 20 face libraries Up to 100000 base images

Face Picture Comparison

Supported

Human Attributes Detection

Gender, Age, Backpack, Face Mask, Glasses, Hair, Carrying Status, Top Color, Bottom Color, Top Type, Bottom Type, Riding Status, Hat

Vehicle Attributes Search

Vehicle Color, Vehicle Type, Plate Color, Plate number, Non-Motor Vehicle Passenger Status, Direction

AI Performance(AI by NVR)

Perimeter/Tripwire Performance

8-ch(1080P)/8-ch(3MP)/6-ch(4MP)/4-ch(5MP)/4-ch(6MP)/3-ch(8MP)

Smart Motion Detection Performance

8-ch(1080P)/8-ch(3MP)/6-ch(4MP)/4-ch(5MP)/4-ch(6MP)/3-ch(8MP)

Smart Image Search Performance

Compatible with HI-FOCUS AI cameras that support Face/Human classification, it can meet full-channel Smart Image Search.

Compatible with normal(HI-FOCUS non-AI or Third-part) cameras, after enabling Smart Image Search by NVR, it can offer up to 8-channel.

IntelliSeek Performance

Compatible with HI-FOCUS AI cameras that support Face/Human/Vehicle classification, it can meet full channel IntelliSeek.

Compatible with normal(HI-FOCUS non-AI or Third-part) cameras, it can offer up to 8-channel IntelliSeek.

IntelliSeek Language

English



Storage

Hard Disk Capacity

2 SATA Up to 20 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

≤10W (HDD not included)

NetWeight

1.65Kg

GrossWeight

2.75Kg

Boundary Dimensions

341(L)280(W)47(H)mm

Package Dimensions

415(L)140(W)375(H)

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

