

40 CHANNEL NETWORK VIDEO RECORDER

HD-NVR-7840I



- **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** – 8× SATA Up to 24TB HDD Capacity
- **AI by Camera** – Tripwire, Double Tripwire, Perimeter, Object Abandon/Missing, Loitering, Face Detection, Running, Parking, Crowd Detection etc.
- **AI by NVR** – Face Detection/ Recognition, Video Structuralization, Tripwire, Double Tripwire, Running, Parking, Heatmap etc.



40 CH NVR
MULTI RECORDING



16 MP MAX
RESOLUTION



8 SATA SLOT
UPTO 24TB



400 MBPS
400 MBPS
INCOMING/OUTGOING
BANDWIDTH



AI FEATURES

SYSTEM OVERVIEW

Supports up to 40 Channels with high 400Mbps bandwidth for powerful and scalable surveillance performance. Delivers ultra-clear imaging up to 16MP with advanced decoding for smooth live view and playback across multiple streams. Equipped with intelligent AI features including face recognition, perimeter protection, human attributes, and behavior analysis. Enhanced storage with up to 8 SATA drives and eSATA support ensures reliable and flexible data management. Built for enterprise applications with dual display output, robust networking, and efficient video 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.



Instant Access to Your Security



Remote Access
Anywhere



Replay
Important
Evidence



Flexible HDMI & VGA Connectivity

High-resolution output for sharper, clearer images



Central Monitoring System

Monitor Multiple Locations from One Powerful Platform



ONVIF Compatibility

Supports ONVIF for easy integration with IP cameras and NVR



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



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



40 CHANNEL NETWORK VIDEO RECORDER | HD-NVR-7840I

Video & Audio

Supports 40 channels with 400 Mbps incoming/outgoing bandwidth, reduced when AI is enabled. Handles resolutions from 16MP to QCIF, with robust preview and playback decoding capabilities. Audio includes 1 input, 1 output, and 2-way communication for integrated surveillance monitoring.

Intelligent Analytics

AI by camera supports tripwire, perimeter, object abandon/missing, people counting, loitering, smoke/fire detection. AI by NVR adds face detection/recognition, structuralization, smart motion, sleeping/on-duty detection. VCA search enables face, human attributes, thermographic, electric bicycle, and duty search.

Face Recognition

Detects gender, age, glasses, mask, body temperature, with up to 20 face libraries. Supports 100,000 base images and 8-channel 1080P video streams or 32-channel image streams. Face picture comparison is supported, alongside detailed human attribute search for analytics.

AI Performance

Perimeter/tripwire supports 24 channels, object abandon/missing 8 channels (1080P). Other features like sleeping/on-duty, loitering/running, parking, heatmap are 8 channels 1080P. Smart motion detection supports 32 channels, and people counting is 8 channels (1080P).

Storage & RAID

Supports 8 SATA drives, each up to 24 TB, with flexible RAID configurations (JBOD, RAID0/1/5/6/10/50/60). Ensures reliable storage for continuous recording and AI processing. Scalable for medium to large surveillance deployments.

Interfaces

Includes 1 eSATA, 2 USB2.0, 1 USB3.0, 2 RJ-45, 1 RS-232, 2 RS-485 ports for expansion. Supports network and peripheral integration for complex surveillance environments. Provides versatile connectivity for various monitoring and control needs.



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)
Preview 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

Independent Output:
HDMI/VGA: 1/2A/2B/3/4/5/6
/7/8/9/10/12/13/16/20A/20B/25
/32/36/40 HDMI2/VGA2: 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

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

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, Array 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) (excludes vehicle detection)
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 Detection Performance	32CH
People Counting Performance	8CH (1080P)



Storage

Hard Disk Capacity

8 × SATA up to 24 TB

RAID

JBOD, RAID0, RAID1, RAID5, RAID6, RAID10, RAID50, RAID60

INTERFACE

eSATA

1×eSATA

USB

2×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

2×RS-485

General

Power Supply

100~240V AC

Power Consumption

≤18W (HDD not included)

NetWeight

6.2Kg

GrossWeight

8.4Kg

Boundary Dimensions

440(L) 455(W) 94(H) mm

Package Dimensions

565(L) 565(W) 220(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

