

160 CHANNEL NETWORK VIDEO RECORDER

HD-NVR-524160I

- **160 CH NVR** – 800Mbps 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/
25/32/36/40/64/80
- **Playback** – 16 CH Simultaneous Playback
- **Storage** – 24× SATA Up to 24TB HDD Capacity
- **AI by Camera** – Tripwire, Double Tripwire, Perimeter,
Object Abandon/Missing, Loitering, Face Detection,
Running, Parking, Crowd Detection etc.



160 CH NVR
MULTI RECORDING



16 MP MAX
RESOLUTION



24 SATA SLOT
UPTO 24TB



400 MBPS
INCOMING/OUTGOING
BANDWIDTH



AI FEATURES
BY CAMERA

SYSTEM OVERVIEW

Supports up to 160 Channels with massive 800Mbps incoming bandwidth, designed for ultra-large enterprise surveillance deployments. Delivers ultra-high resolution up to 16MP with powerful decoding for seamless live view and playback across extensive camera networks. Advanced AI capabilities including face recognition, license plate recognition, perimeter protection, and intelligent behavior analysis. High-capacity storage with up to 24 SATA drives, RAID support, and hot swappable design ensures maximum data security and scalability. Built for mission-critical operations with redundant power supply, quad network ports, and robust multi-display output for continuous performance.

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.



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

SMART SURVEILLANCE. TOTAL CONTROL.

Monitor Anytime, Anywhere



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

Central Monitoring (CMS Support)



Flexible HDMI & VGA Connectivity

High-resolution output for sharper, clearer images



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160 CHANNEL NETWORK VIDEO RECORDER | HD-NVR-524160I

Video & Audio Channels

Supports 160 channels with 800 Mbps incoming and 400 Mbps outgoing bandwidth. Resolutions range from 16MP to QCIF. Preview and playback decoding support multiple streams simultaneously..

Display & Multi-Screen Support

HDMI supports up to 4K (3840×2160), VGA up to 1080P. Multi-screen display allows flexible channel assignment on HDMI1, HDMI2, and VGA. Supports 1–80 channels per output.

Alarm & Exception Handling

Includes motion detection, mask alarm, and IPC/NVR alarm inputs. Exception notifications cover video loss, disk errors, illegal access, and network issues. Alarm I/O supports 16 inputs and 8 outputs.

Intelligent Analytics

AI by camera includes perimeter, tripwire, object detection, license plate recognition, crowd detection, and face recognition. Supports temperature monitoring and smart alerts. VCA search allows attribute- and event-based queries.

Face Recognition

Detects gender, age, glasses, face mask, and body temperature. Supports up to 300 face libraries and 100,000 base images. Face picture comparison is supported for identification.

Storage & RAID

Supports 24 SATA drives up to 24 TB each. RAID modes include JBOD, 0, 1, 5, 6, 10, 50, and 60 with hot-swapping. Interfaces include eSATA, USB 2.0/3.0, and 4 RJ-45 network ports.



CORE FEATURES

Video and Audio

Channel	160
Incoming Bandwidth	800Mbps
Outgoing Bandwidth	400Mbps
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)×56, 4CIF(30fps)×80
Playback Decoding Capability	16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×6, 6MP(30fps)×8, 5MP(30fps)×9, 4MP(30fps)×12, 3MP(30fps)×16, 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), 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), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz)
Multi-screen Display	HDMI/VGA: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40/64/80 HDMI2: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40/64/80
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	G711A, G711U, AAC, ADPCM_DIV4
Stream Type	Video, Video & Audio
Network	
Network Protocol	ARP, DDNS, DHCP, DNS, Easy DDNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, Multicast, NFS, NTP, PPPoE, RTCP, RTP, RTSP, SMB/CIFS, SMTP, SNMP v1, SRTP, SSH, SSL, TLSv1.2, TCP/IP, UDP, Unicast, UPnP
Mobile Client	Android, iOS, P2P
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
Backup	USB storage device, Network
Playback Function	Play/Pause/Stop/Slow/Speed/Backwards 30s/Forwards 30s/Full Screen/Backup (Video Editing)/Step/Digital Zoom

Alarm

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

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, License Plate Recognition, On Duty Detection, Crowd Detection, Parking Guard, 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

VCA Search

Heatmap, Early-warning Search, Behavior Search, License Plate Search, Safety Helmet Search, Thermographic Retrieval, Duty Search, Electric Bicycle Retrieval, Face Search

Face Recognition

Face Attributes Search

Gender, Age, Glasses, Face Mask, Body Temperature

Face Picture Library

Up to 300 face libraries ,Up to 100000 base images

Face Picture Comparison

Gender, Age, Glasses, Face Mask, Body Temperature

Storage

Hard Disk Capacity

24 SATA upto 24TB Hard Disk

RAID

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

Hot Swapping

Supported



INTERFACE

eSATA	1×eSATA
USB	2×USB2.0, 1×USB3.0
Network Interface	4 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port
RS-232	1×RS232
RS-485	2×RS485

General

Power Supply	100~240V AC; Redundant Power Supply
Power Consumption	<45W (HDD not included)
NetWeight	15.4Kg
GrossWeight	20.55Kg
Boundary Dimensions	530(L)484.5(W)174.5(H)mm
Package Dimensions	780(L)710(W)330(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

