

DS-96256NI-H24R 256-ch 4U 8K Super NVR



- Up to 256-ch IP camera inputs
- Up to 48-ch@1080p decoding capacity
- Up to 1.25Gbps incoming bandwidth and 1.25Gbps outgoing bandwidth
- Supports special cameras, including people counting camera, ANPR (automatic number plate recognition) camera, and fisheye camera
- Advanced streaming technology enables smooth live view in poor network conditions
- Supports RAID 0, 1, 5, 6, 10 and N+1 hot spare for even more reliable data storage, effectively avoids data loss risks
- Up to 8-ch IP speakers can be connected

**Professional and Reliability*

- * H.265+ compression effectively reduces the storage space by up to 75%
- * Dual-stream recording saves bandwidth
- * Adopt stream over TLS encryption technology which provides more secure stream transmission service
- * Support double verification for playback and downloading

**HD Video Output*

- * Provide independent HDMI and VGA outputs
- * HDMI video outputs at up to dual 4K resolution, DP video outputs at up to dual 8K resolution

**Storage and Playback*

- * 24 SATA interfaces for HDD connection (up to 20 TB capacity per HDD)
- * 1 eSATA interface for HDD connection
- * 16-ch synchronous playback

**Smart Function*

- * Support multiple VCA (Video Content Analytics) events
- * Configurable special camera smart functions, such as VCA detection (motion, line crossing, intrusion, etc.), heat map, ANPR, and people counting

**Network & Ethernet Access*

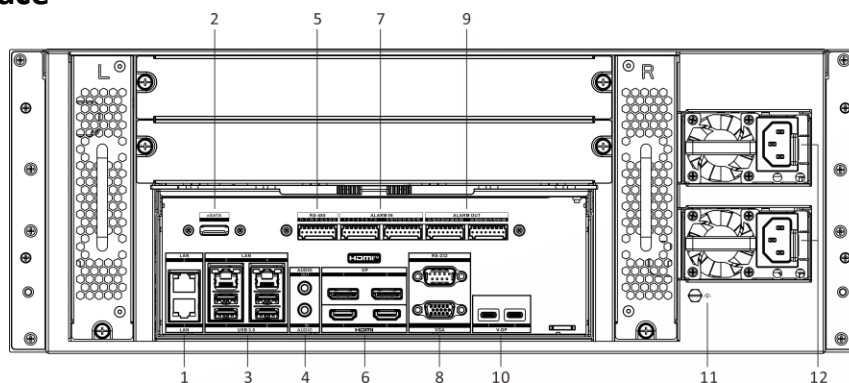
- * 4 self-adaptive 10/100/1000 Mbps Ethernet interfaces
- * Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management

▪ Specification

| Video and Audio | |
|--------------------------------|--|
| IP Video Input | 256-ch |
| Incoming Bandwidth | 1280 Mbps |
| Outgoing Bandwidth | 1280 Mbps |
| Incoming Bandwidth (RAID Mode) | 1280Mbps |
| Outgoing Bandwidth (RAID mode) | 1280 Mbps |
| HDMI 1 Output | 4K (4096 × 2160)/30 Hz, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| HDMI 2 Output | 4K (3840 × 2160)/60 Hz, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| VGA Output | 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| DP 1 | 8K (7680 × 4320)/30Hz, 4K (4096×2160)/30 Hz, 4K (3840×2160)/60 Hz, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| DP 2 | 8K (7680 × 4320)/30Hz, 4K (4096×2160)/30 Hz, 4K (3840×2160)/60 Hz, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| V-DP 1 | 8K (7680 × 4320)/30Hz, 4K (4096×2160)/30 Hz, 4K (3840×2160)/60 Hz, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| V-DP 2 | 8K (7680 × 4320)/30Hz, 4K (4096×2160)/30 Hz, 4K (3840×2160)/60 Hz, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| Video Output Mode | <p>Provide 4 groups of video outputs. The video outputs in the same group provide simultaneous output, and the video outputs between each group provide independent output.</p> <p>Group 1: HDMI 1/VGA/LCD</p> <p>Group 2: HDMI 2</p> <p>Group 3: DP 1/V-DP 1</p> <p>Group 4: DP 2/V-DP 2</p> <p>Note: After enabling DP 1/DP 2, V-DP 1/V-DP 2 would be unavailable.</p> |
| Two-Way Audio | 1-ch, 3.5mm |
| Audio Output | 1-ch, 3.5mm |
| Decoding | |
| Decoding Format | H.265+/H.265/H.264+/H.264 |
| Recording Resolution | 32 MP/24 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF |
| Synchronous Playback | 16-ch |
| Decoding Capability | <p>3-ch@32 MP (30 fps)/3-ch@24 MP (30fps)/6-ch@16 MP (30fps)/12-ch@8 MP (30fps)/24-ch@4 MP (30fps)/48-ch@2 MP (30fps)</p> <p>*: The length or width of camera resolution (each track) cannot exceed 4096 pixels.</p> |

| | |
|----------------------------|--|
| Audio Compression | G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM |
| Network | |
| Network Interface | 4, RJ-45 10/100/1000/2500 Mbps self-adaptive Ethernet interface |
| Network Protocol | TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS |
| Remote Connection | 256 |
| RAID | |
| RAID Type | RAID0, RAID1, RAID5, RAID6, RAID10 |
| Auxiliary Interface | |
| eSATA | 1 eSATA interface |
| SATA | 24 SATA interfaces supporting hot-plug |
| Capacity | Up to 20 TB for each HDD |
| Serial Interface | 1 RS-485 (full-duplex), 1 RS-232 |
| Alarm In/Out | 16/8 |
| USB Interface | Front panel: 2 × USB 2.0; Rear panel: 4 × USB 3.0 |
| General | |
| Power Supply | 100 to 240 VAC, 50 to 60 Hz, redundant power supply |
| Consumption | ≤ 75 W (without HDD) |
| Working Temperature | 0 °C to + 50 °C (32 °F to 122 °F) |
| Working Humidity | 10% to 90% |
| Chassis | 4U chassis |
| Dimension (W × D × H) | 447 × 489 × 173 mm (17.6" × 19.3" × 6.8") |
| Weight | ≤25 kg (without HDD, 55.1 lb.) |

▪ Physical Interface



| No. | Description | No. | Description |
|-----|----------------------------|-----|---|
| 1 | LAN interfaces | 7 | Alarm in |
| 2 | eSATA interface | 8 | VGA interface and RS-232 serial interface |
| 3 | USB 3.0 and LAN interfaces | 9 | Alarm out |
| 4 | Audio in and out | 10 | V-DP interfaces |
| 5 | RS-485 serial interface | 11 | GND |
| 6 | HDMI and DP interfaces | 12 | Power supply |

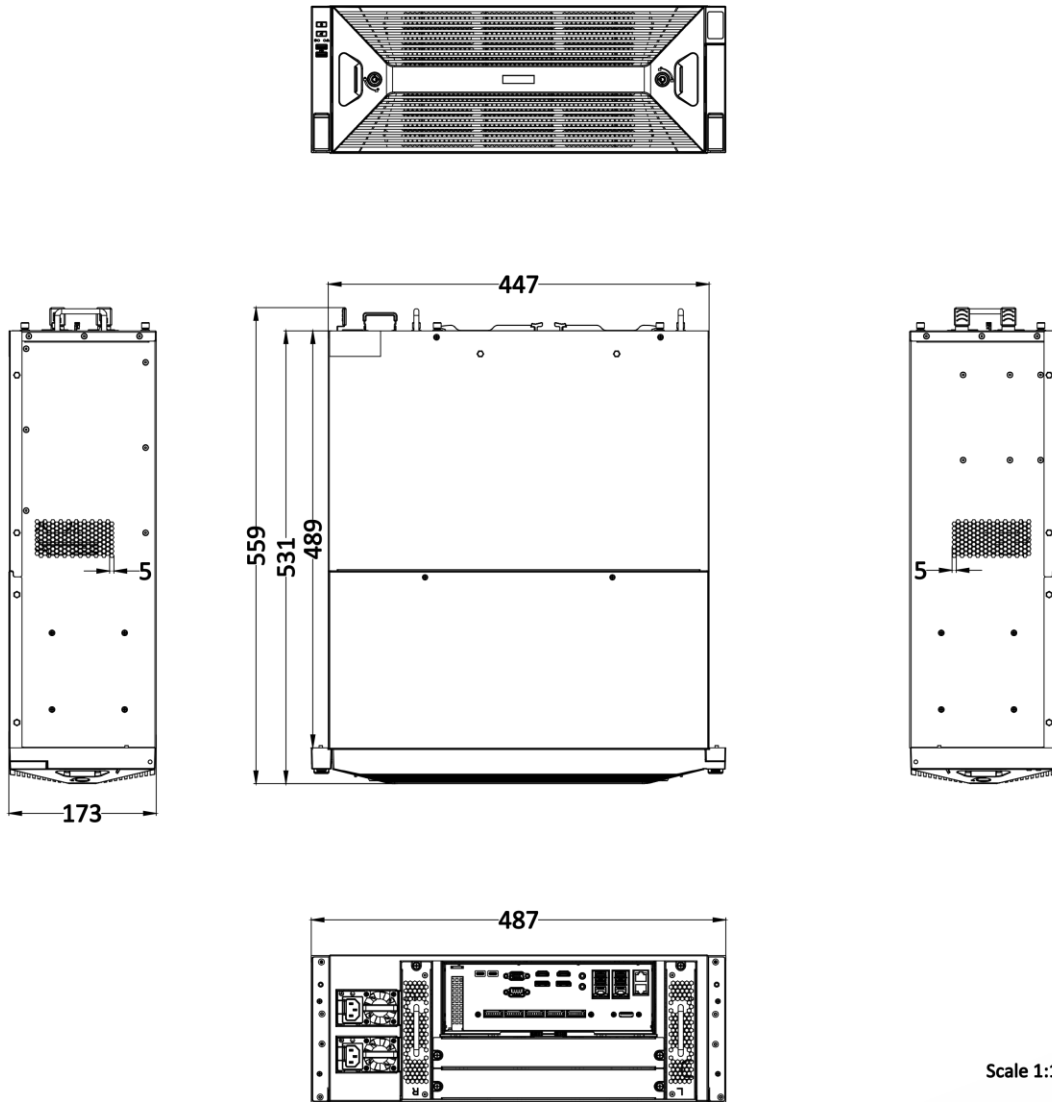
▪ Available Model

DS-96256NI-H24R(STD)

DS-96256NI-H24R(NEU)

DS-96256NI-H24R(STD)/ISS

▪ Dimension



Scale 1:1 Unit: mm

See Far, Go Further



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