

35 SERIES HN35 PRO



HN351604xxR/HN353204xxNR/HN356404xxNR



HN353208xxNR/HN356408xxNR



HN356408xxDR



16 / 32 /64 Ch 4K Embedded NVR

Introducing Honeywell's 35 Series HN35 PRO NVRs, a robustly-featured, cost-effective, NDAA Section 889 compliant NVR solution delivering 4K HD (UHD) video resolution perfect for small/medium businesses and enterprises. Choose a 16, 32 or 64 channel NVR with multiple hard drive options and up to 80 TB (8 bays) of internal storage with fail-over and RAID redundancy features for a flexible and reliable solution that grows with your business.

FULLY-FEATURED NVRS

- View 16/32/64 channels simultaneously with synchronized real-time playback on your monitor (depending on your model). 32/64CH support 16 channels simultaneously with synchronized real-time playback.
- Up to 8 MP (4K) resolution live view and playback.
- Supports H.265 HEVC, H.264, Smart Codec.
- Notify on triggering built-in video analytic alarms from 35S cameras: Crowd, Multi Loitering, Intrusion, Tampering, Motion and Smart Motion Detection (SMD).
- Two-way audio/push notification.
- Supports up to 16 alarm input channels and 6 alarm relay output channels. (8 SATA).
- Maximum incoming bandwidth is 400 Mbps, and Maximum outgoing bandwidth is 400 Mbps.*
- Supports redundancy Failover N+1 (Maximum N=10).
- Supports people counter feature to accurately automate the gathering of data relating to people entering and exiting a certain area.

DYNAMIC, ACCESSIBLE MONITORING

- Global P2P/TUTK service with reliable connection and mobile apps for both Apple® and Android™ devices for anytime, anywhere access.
- P2P integration to manage remote configuration and firmware updating.

CONVENIENT, FLEXIBLE, REDUNDANT STORAGE OPTIONS

- Internal storage supports 8 HDDs expandable up to 80 TB (8 bays) of internal storage.
- Store video clips and snapshots to external storage, such as USB device on local side or PC client on web side.
- Supports RAID** 1/5/6 storage options.

FEATURES

- H.265/H.264
- Supports alarm input and alarm output
- Supports recording a video clip of events for distribution
- Configurable to automatically detect and respond to motion in the scene, alarm inputs, and network failure or tampering
- Supports visual or auditory notifications such as a flashing light, bell, or siren
- Supports sending events through email, FTP, alarm out or push notification
- Supports uploading still images at the time of the event through email
- Supports RAID ** 1/5/6
- Supports visual or auditory notifications such as a flashing light, bell, or siren
- Support RAID ** 1/5/6
- Supports sending events through email, FTP, alarm out or push notification
- Supports uploading still images at the time of the event through email

*400Mbps is achievable when video streams are not encrypted. It is needed to split the HDD array into at least two equal storage groups.

** For optimum performance, RAID functionality requires models with Enterprise Hard Disk Drives.

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TECHNICAL SPECIFICATIONS

| SYSTEM | |
|--------------------|---|
| Main Processor | ARM Processor |
| Operating System | Embedded LINUX |
| ONVIF Compliance | ONVIF Profile S |
| User Management | User level: Administrator, Regular user |
| Log | System, Recording, User |
| Date & Time | Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time |
| Fan | Yes |
| Security | Encrypted streaming and control |
| Encryption Chipset | Hardware embedded |

| VIDEO | |
|--------|---|
| Inputs | HN351604xxR: 16 channels HN353204xxNR/HN353208xxNR: 32 channels HN356404xxNR/HN356408xxNR/HN356408xxDR: 64 channels |

| AUDIO | |
|-----------------------|---|
| Audio Input/Output | 3.5 mm Line in x1 3.5 mm Line out x1 |
| Two-way Communication | Supported |
| Audio Format | G.711 |

| DISPLAY | |
|--------------------|---|
| Interface | HDMI 1 (4K Max), HDMI 2 (1080P), VGA x1 (1080P) |
| Resolution | HN351604xxR: 3840 x 2160, 1920 x 1080, 1280 x 1024 x 1024 x 768 HN353204xxNR/HN353208xxNR/HN356404xxNR/HN356408xxNR/ HN356408xxDR: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1024 x 768 |
| Display Split | HN351604xxR: 1/4/9/16 HN353204xxNR/HN353208xxNR: 1/4/9/16/32 HN356404xxNR/HN356408xxNR/HN356408xxDR: 1/4/9/16/32/64 |
| OSD | Time OSD, channel OSD |
| Stream Application | HN351604xxR: 1 X 1: 1 ch 12 MP MAX 2 x 2: 4 ch 4 MP 3 x 3: 9 ch 2 MP 4 x 4: 16 ch D1 HN353204xxNR: 1 X 1: 1 ch 12 MP MAX 2 x 2: 4 ch 4 MP 3 x 3: 9 ch 2 MP 6 x 6: 32 ch D1 HN353208xxNR: 1 X 1: 1 ch 12 MP MAX 2 x 2: 4 ch 4 K 4 x 4: 16 ch 2 MP 32: 32ch D1 HN356404xxNR/HN356408xxNR/HN356408xxDR: 1 X 1: 1 ch 12 MP MAX 2 x 2: 4 ch 4 K 4 x 4: 16 ch 2 MP 8 x 8: 64 ch D1 |
| Fisheye Dewarp | NO |
| PTZ Operation | Direction control, Home, Iris, Preset, Patrol (group), Focus +/- Zoom +/- |

| RECORDING | |
|-------------------------------|--|
| Compression | H.265/H.264 |
| Resolution | Up to 3840 x 2160 |
| Frame Rate | 30 fps |
| Recording Mode | Continuous, Manual, Event |
| Pre-Event Recording Interval | Main stream: 2M Sub stream: 1M |
| Post-Event Recording Interval | 30 s (Max. 60 s) |
| Recording Stream | Camera Stream 1 Camera Stream 2 |
| Recording Throughput | HN351604xxR up to 160Mbps HN353204xxNR/HN353208xxNR up to 320Mbps HN356404xxNR/HN356408xxNR/HN356408xxDR up to 400Mbps** |

| VIDEO DETECTION AND ALARMS | |
|----------------------------|--|
| Event | Camera: Camera Alarm In, Motion detection, Camera disconnection, Tampering detection System: System Alarm in/out, Disk failure, Disk full, VA (SMD/intrusion/crowd/Multi loitering detection) |
| Event Action | Video recording, Send email, Buzzer, FTP, Camera Alarm Out, PTZ-Preset, System Alarm Out, Send video to full screen |
| Alarm Input | HN351604xxR: 6 HN353204xxNR/HN353208xxNR/HN356404xxNR/HN356408xxNR/ HN356408xxDR: 16 |
| Alarm Out | HN351604xxR: 2 HN353204xxNR: 4 HN356404xxNR/HN353208xxNR/HN356408xxNR/HN356408xxDR: 6 |
| RS485 | Supported |
| RS232 | Supported |
| e-SATA | Supported |

| STORAGE | |
|-------------------|--|
| Internal HDD | HN351604xxR/HN353204xxNR: Internal x4 (3.5") HN356404xxNR/HN353208xxNR/HN356408xxNR/HN356408xxDR: Internal x8 (3.5") |
| HDD Max. Capacity | 10 TB |
| Manual Backup | USB Dongle (FAT Format) |
| RAID | RAID* 1/5/6 |

| PLAYBACK AND BACKUP | |
|---------------------|---|
| Sync Playback | 16 channels |
| Decoding | HN351604xxR/HN353204xxNR: H.265/H.264: 3840 x 2160 @ 30 fps (1-CH) 2560 x 1920 @ 30fps (1-CH) 1920 x 1080 @ 120 fps (4-CH) 720 x 576 @ 480 fps (16-CH) HN353208xxNR/HN356404xxNR/HN356408xxNR/HN356408xxDR: H.265/H.264: 4000 x 3000 @ 30 fps (1-CH) 3840 x 2160 @ 120 fps (4-CH) 720 x 576 @ 480 fps (16-CH) |
| Search Mode | Time search, Event Search, video clip |
| Playback Function | Regular (play, pause, stop), play backwards, next frame, Go back 30 seconds, Go forward 30 seconds, speed control, timeline, timeline scale, Digital zoom, snapshot, back up |
| Snapshot | JPG |

| NETWORK | |
|---------------------------|--|
| Ethernet | 10/100/1000Mbps Ethernet (RJ-45) x 2 |
| PoE | HN351604xxR: 802.3at/af compliant PoE ports x 16 |
| Supported Protocols | IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP (Secure), DNS, DDNS, IP Filter, P2P, SNMP |
| Maximum Number Of Users | 16 |
| Network Throughput | HN351604xxR up to 160Mbps HN353204xxNR/HN353208xxNR up to 320Mbps HN356404xxNR/HN356408xxNR/HN356408xxDR up to 400Mbps** |
| Smart Phone Compatibility | iOS 11 or later and Android 5.0 or later support |
| Browsers | Edge, Chrome, Firefox, Safari |

| AUXILIARY INTERFACE | |
|---------------------|---------------------------------------|
| USB Ports | Front x 2, USB 2.0, Back x 1, USB 3.0 |

| ELECTRICAL | |
|-------------------|--|
| Power Supply | HN351604xxR/HN353204xxNR/HN353208xxNR/HN356404xxNR/ HN356408xxNR: 100-240V AC, 50/60 Hz HN356408xxDR: 100-240V AC, 50/60 Hz, Dual SMPS |
| Power Consumption | HN351604xxR: Max. 300 W; 15W without HDD Total PoE power consumption Max. 140 W, 30 W for a single port HN353204xxNR/HN353208xxNR/HN356404xxNR/HN356408xxNR: Max. 200 W; 15W without HDD HN356408xxDR: Max. 550 W; 15W without HDD |

| ENVIRONMENTAL | |
|-----------------------|-------------------------------|
| Operating Temperature | -10°C ~ 55°C (14°F ~ 131°F) |
| Relative Humidity | Less than 90% RH |
| Storage Temperature | -40°C to 60°C (-40°F ~ 140°F) |

| PHYSICAL | |
|----------------------|---|
| Dimensions | HN351604xxR/HN353204xxNR/HN356404xxNR: 440 x 370 x 67 mm (17.32 x 14.57 x 2.64 inch) HN353208xxNR/HN356408xxNR: 440 x 426 x 100 mm (17.32 x 16.77 x 3.94 inch) HN356408xxDR: 440 x 526 x 100 mm (17.32 x 20.71 x 3.94 inch) |
| Weight (Without HDD) | HN351604xxR: 4.65 kg (10.25 lb) without HDD HN353204xxNR/HN356404xxNR: 4.5 kg (9.92 lb) without HDD HN353208xxNR/HN356408xxNR: 7 kg (15.43 lb) without HDD HN356408xxDR: 10.8 kg (23.80 lb) without HDD |

| REGULATORY | |
|------------|---|
| Emissions | FCC Part 15, CE (EN 55032, EN 61000-3-2, EN 61000-3-3, EN 61000-6-4), ICES-003, Comply with UKCA and RCM |
| Immunity | CE (EN 50130-4, EN 55035) Comply with UKCA and RCM |
| Safety | UL LISTED TO UL/CSA 62368-1, CE (EN 62368-1), Comply with UKCA and RCM |
| RoHS | CE (EN 63000), UAE (Cabinet Decree No.10 of 2017) |

* For optimum performance, RAID functionality requires models with Enterprise Hard Disk Drives.

**400Mbps is achievable when video streams are not encrypted. It is needed to split the HDD array into at least two equal storage groups.

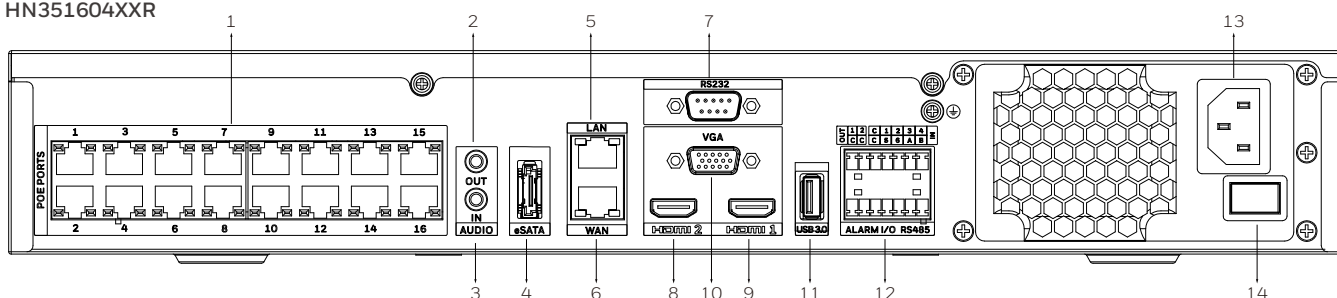
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RECOMMENDED CAMERAS

| | |
|-------------------------|---|
| Fixed Dome Cameras | HC35W43R3, HC35W45R3, HC35W48R3 |
| MFZ Dome Camera | HC35W43R2, HC35W45R2, HC35W48R2 |
| Fixed Bullet Camera | HC35WB3R3, HC35WB5R3, HC35WB8R3, HC60WZ4R40WI, HC60WZ4R40KI |
| MFZ Bullet Camera | HC35WB3R2, HC35WB5R2, HC35WB8R2, HC60WZ4R40WI, HC60WZ4R40KI |
| Fixed Ball Camera | HC35WE3R3, HC35WE5R3, HC35WE8R3 |
| MFZ Ball Camera | HC35WE3R2, HC35WE5R2, HC35WE8R2 |
| MFZ Box Camera | HC60WZ4R40WI, HC60WZ4R40KI |
| Fixed Micro Dome Camera | HC35W25R3 |
| Speed Dome Camera | HC35WZ2R25, HC35WZ5R30 |

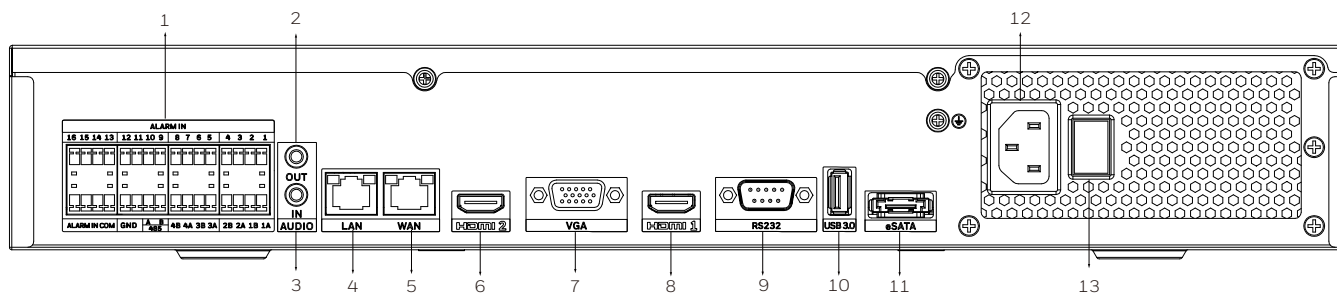
SYSTEM DIAGRAM

HN351604XXR



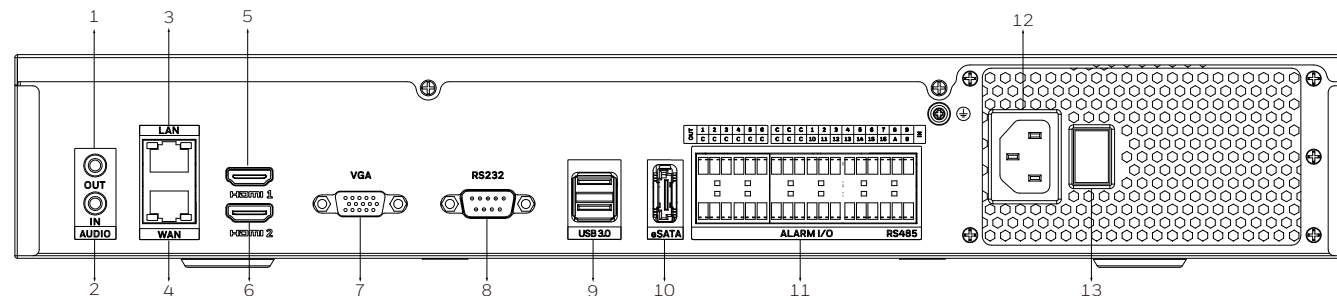
1. PoE Ports 2. Audio Out 3. Audio In 4. eSATA Port 5. LAN Port 6. WAN Port 7. RS232 Port 8. HDMI 2 Port 9. HDMI 1 Port 10. VGA Port 11. USB Port 12. Alarm Input/Output 13. Power Input 14. Power Switch

HN353204xxNR



1. Alarm Input/Output 2. Audio Out 3. Audio In 4. LAN Port 5. WAN Port 6. HDMI 2 Port 7. VGA Port 8. HDMI 1 Port 9. RS232 Port 10. USB Port 11. eSATA Port 12. Power Input 13. Power Switch

HN356404xxNR

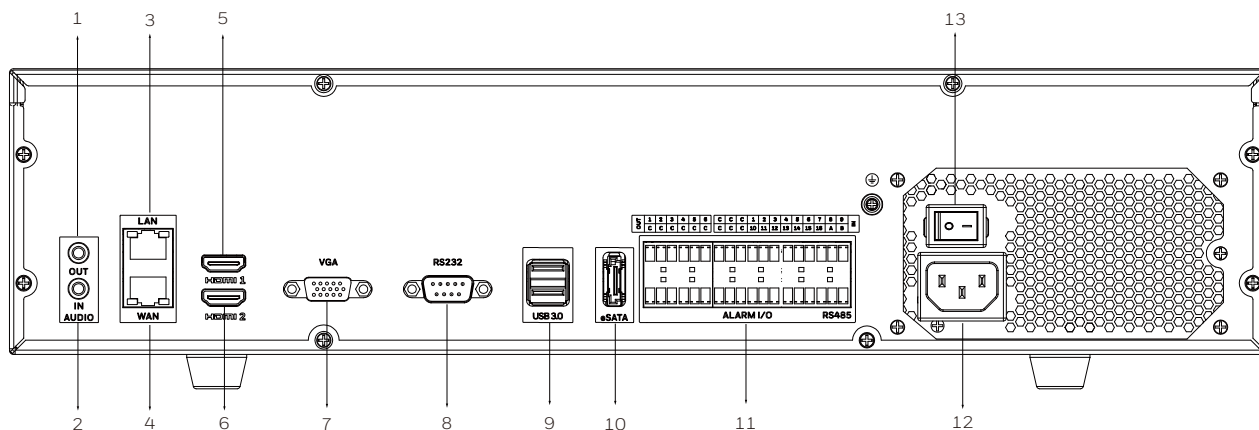


1. Audio Out 2. Audio In 3. LAN Port 4. WAN Port 5. HDMI 1 Port 6. HDMI 2 Port 7. VGA Port 8. RS232 Port 9. USB Port 10. eSATA Port 11. Alarm Input/Output 12. Power Input 13. Power Switch

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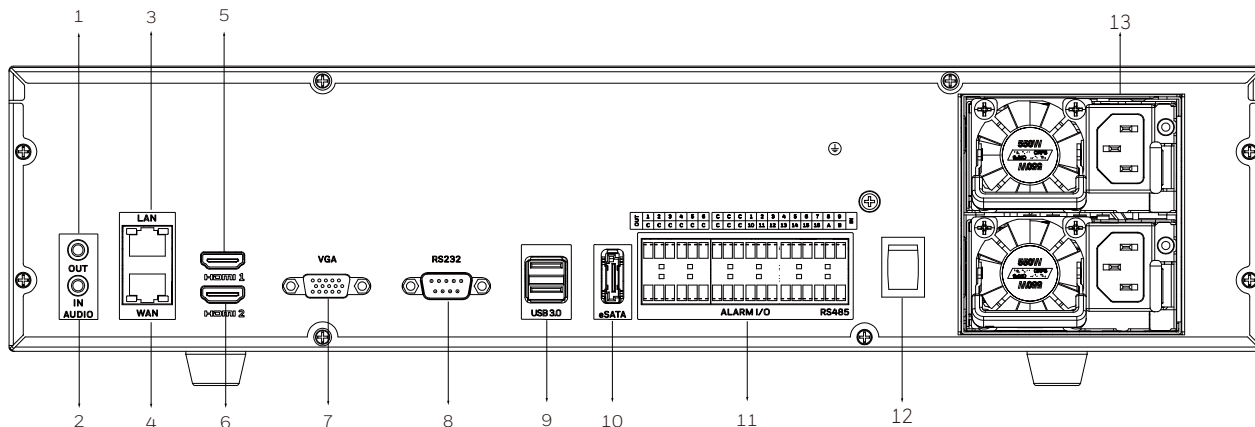
SYSTEM DIAGRAM

HN353208xxNR/HN356408xxNR



- 1. Audio Out 2. Audio In 3. LAN Port 4. WAN Port 5. HDMI 1 Port 6. HDMI 2 Port 7. VGA Port 8. RS232 Port 9. USB Port 10. eSATA Port 11. Alarm Input/Output 12. Power Input
- 13. Power Switch

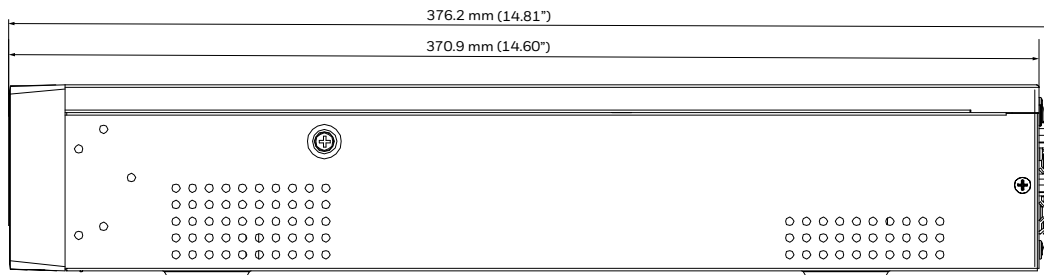
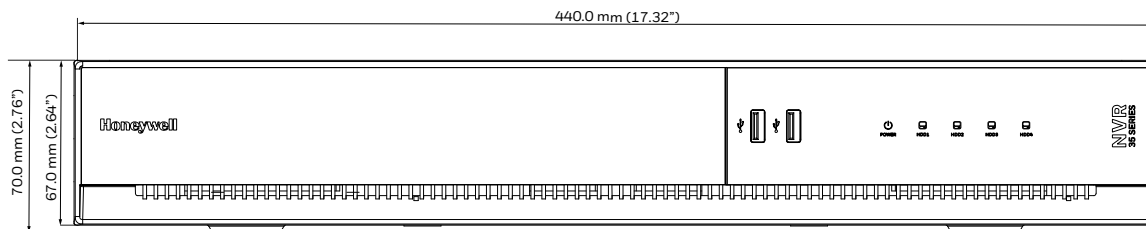
HN356408xxDR (Dual Power Supply)



- 1. Audio Out 2. Audio In 3. LAN Port 4. WAN Port 5. HDMI 1 Port 6. HDMI 2 Port 7. VGA Port 8. RS232 Port 9. USB Port 10. eSATA Port 11. Alarm Input/Output 12. Power Switch
- 13. Power Input

DIMENSIONS

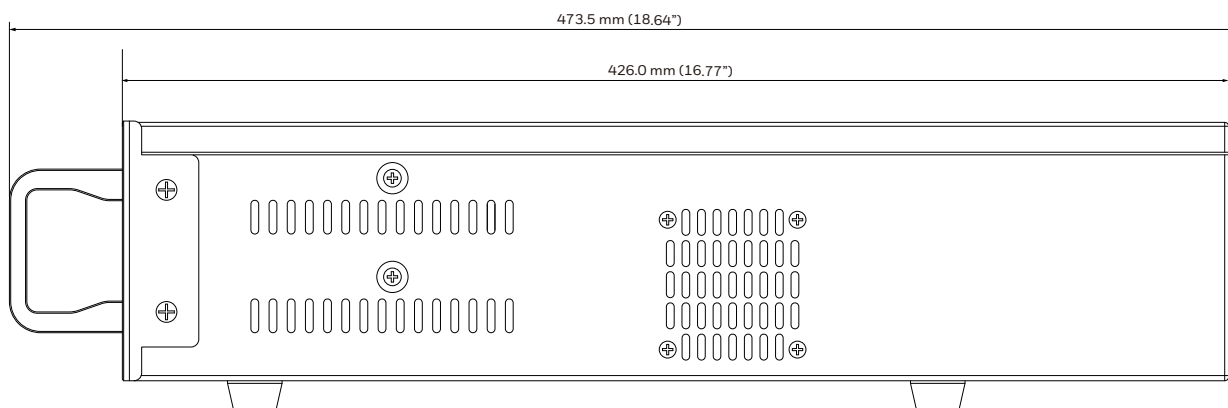
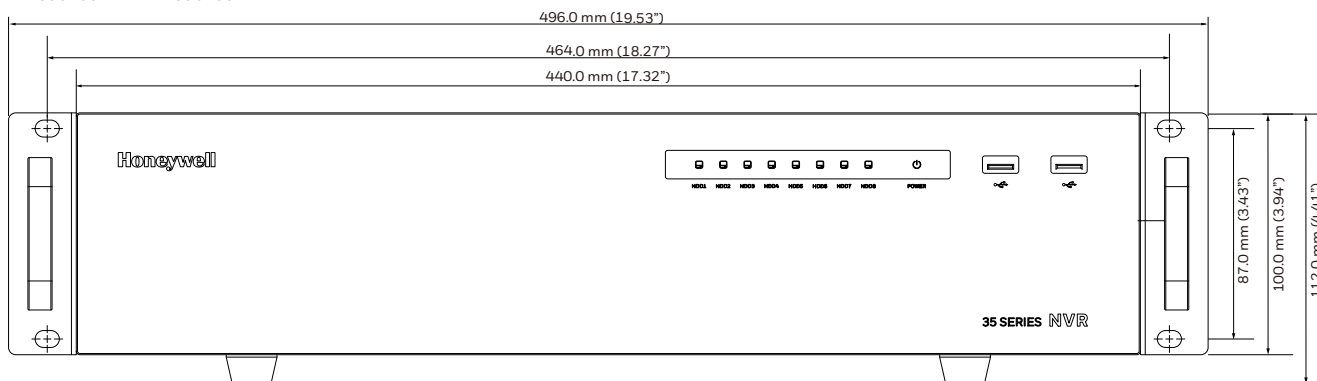
HN351604xxR/HN353204xxNR/HN356404xxNR



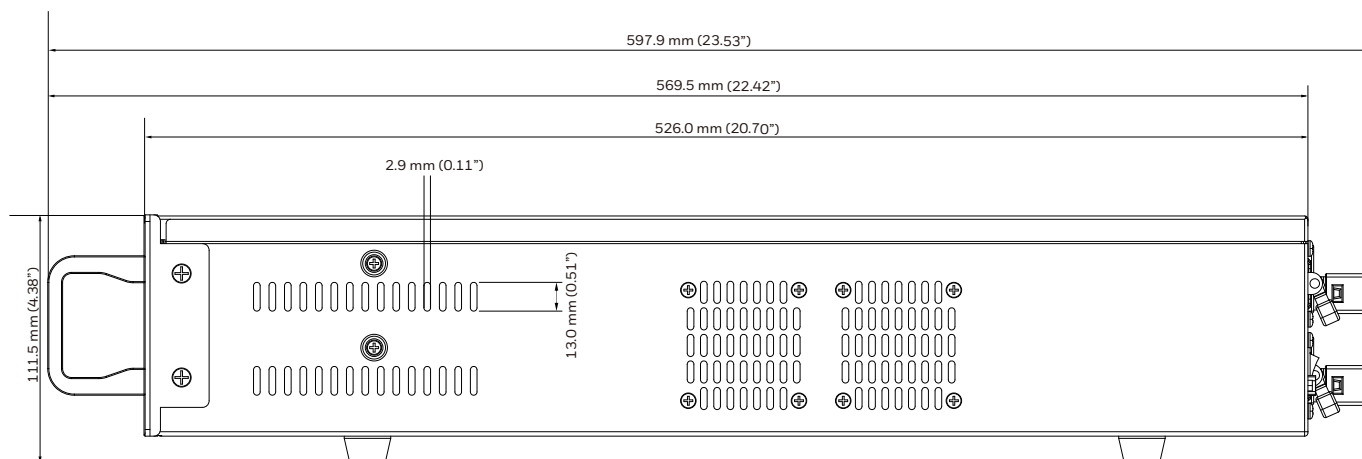
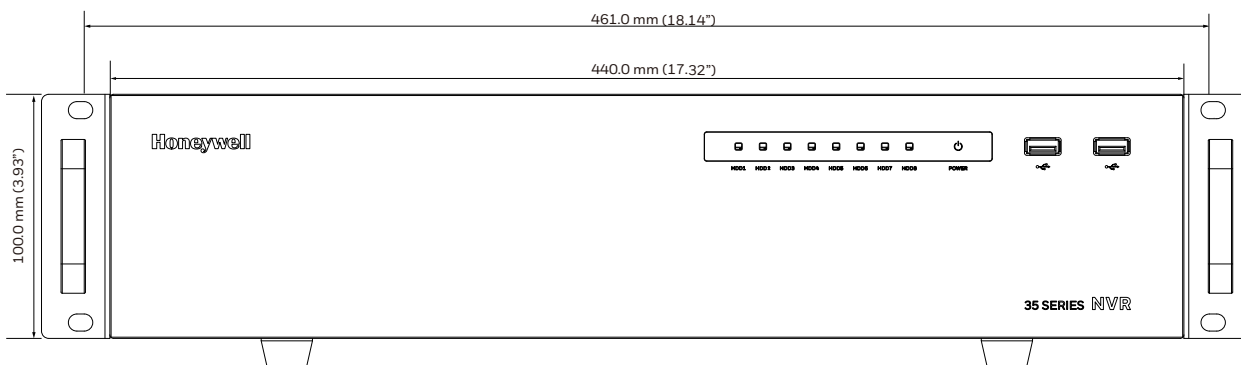
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DIMENSIONS

HN353208xxNR/HN356408xxNR

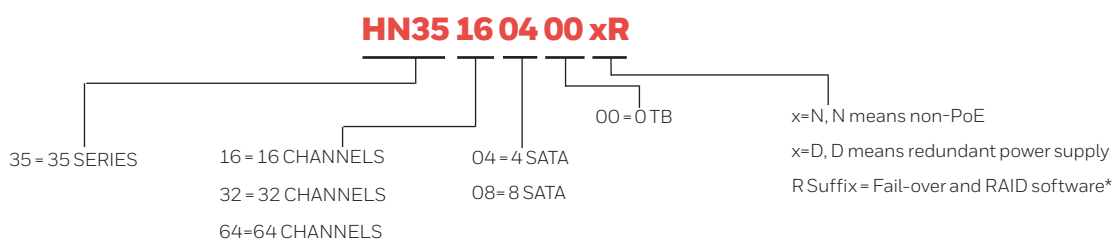


HN356408xxDR



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PART NUMBER LOOKUP



* For optimum performance, RAID functionality requires models with Enterprise Hard Disk Drives.

ORDERING

| MODEL | DESCRIPTION |
|-------------------------------|---|
| HN35 Pro - 16/32/64 Ch | |
| HN35160400R | 1.5 U 16Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 4 SATA, 0TB, RAID |
| HN35320400NR | 1.5 U 32Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 4 SATA, 0TB, Non PoE, RAID |
| HN35320800NR | 2.2 U 32Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 0TB, Non PoE, RAID |
| HN35640400NR | 1.5 U 64Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 4 SATA, 0TB, Non PoE, RAID |
| HN35640800NR | 2.2 U 64Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 0TB, Non PoE, RAID |
| HN35640800DR | 2.2 U 64Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 0TB, Non PoE, Dual Power, RAID |

| MODEL | DESCRIPTION |
|---|-----------------------------------|
| HN35 Enterprise Hard Disk Drive* | |
| HN35HDS02 | Enterprise class hard disk, 2 TB |
| HN35HDS04 | Enterprise class hard disk, 4 TB |
| HN35HDS08 | Enterprise class hard disk, 8 TB |
| HN35HDS10 | Enterprise class hard disk, 10 TB |

*For detailed information about compatible HDDs, please refer to the HDD Compatibility Matrix.

For More Information

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