

35 SERIES HN35 PRO



HN35160400R/HN35320400NR/HN35640400NR



HN35320800NR/HN35640800NR



HN35640800DR



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 | • Supports recording a | • Configurable to | • Supports visual or |
| • HDMI/VGA | • and alarm output | • video clip of events for | • automatically detect | • auditory notifications |
| • simultaneous video | • Supports sending | • distribution | • and respond to | • such as a flashing |
| • output | • events through email, | • Supports uploading | • motion in the scene, | • light, bell, or siren |
| • USB ports support | • FTP, alarm out or push | • still images at the time | • alarm inputs, and | • Support RAID ** 1/5/6 |
| • Keyboard and | • notification | • of the event through | • network failure or | |
| • Mouse | | • email | • tampering | |

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

**Failover is not available for PoE models.

***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	HN35160400R: 16 channels HN35320400NR/HN35320800NR: 32 channels HN35640400NR/HN35640800NR/HN35640800DR: 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	HN35160400R: 3840 x 2160, 1920 x 1080, 1280 x 1024 x 1024 x 768 HN35320400NR/HN35320800NR/HN35640400NR/HN35640800NR/HN35640800DR: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1024 x 768
Display Split	HN35160400R: 1/4/9/16 HN35320400NR/HN35320800NR: 1/4/9/16/32 HN35640400NR/HN35640800NR/HN35640800DR: 1/4/9/16/32/64
OSD	Time OSD, channel OSD
Stream Application	HN35160400R: 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 HN35320400NR: 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 HN35320800NR: 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 HN35640400NR/HN35640800NR/HN35640800DR: 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: 2 Mbps Sub stream: 1 Mbps
Post-Event Recording Interval	30 s (Max. 60 s)
Recording Stream	Camera Stream 1 Camera Stream 2
Recording Throughput	HN35160400R: up to 160 Mbps HN35320400NR/HN35320800NR: up to 320 Mbps HN35640400NR/HN35640800NR/HN35640800DR: up to 400 Mbps**
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	HN35160400R: 6 HN35320400NR/HN35320800NR/HN35640400NR/HN35640800NR/HN35640800DR: 16
Alarm Out	HN35160400R: 2 HN35320400NR: 4 HN35640400NR/HN35320800NR/HN35640800NR/HN35640800DR: 6
RS485	Supported
RS232	Supported
e-SATA	Supported

STORAGE	
Internal HDD	HN35160400R/HN35320400NR: Internal x4 (3.5") HN35640400NR/HN35320800NR/HN35640800NR/HN35640800DR: 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	HN35160400R/HN35320400NR: 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) HN35320800NR/HN35640400NR/HN35640800NR/HN35640800DR: 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	10/100/1000 Mbps Ethernet (RJ-45) x 2
PoE	HN35160400R: 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	HN35160400R up to 160 Mbps HN35320400NR/HN35320800NR up to 320 Mbps HN35640400NR/HN35640800NR/HN35640800DR up to 400 Mbps**
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	HN35160400R/HN35320400NR/HN35320800NR/HN35640400NR/HN35640800NR: 100-240V AC, 50/60 Hz HN35640800DR: 100-240V AC, 50/60 Hz, Dual SMPS
Power Consumption	HN35160400R: Max. 300 W; 15W without HDD Total PoE power consumption Max. 140 W, 30 W for a single port HN35320400NR/HN35320800NR/HN35640400NR/HN35640800NR: Max. 200 W; 15W without HDD HN35640800DR: 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	HN35160400R/HN35320400NR/HN35640400NR: 440 × 370 × 67 mm (17.32 × 14.57 × 2.64 inch) HN35320800NR/HN35640800NR: 440 × 426 × 100 mm (17.32 × 16.77 × 3.94 inch) HN35640800DR: 440 × 526 × 100 mm (17.32 × 20.71 × 3.94 inch)
Weight (Without HDD)	HN35160400R: 4.65 kg (10.25 lb) without HDD HN35320400NR/HN35640400NR: 4.5 kg (9.92 lb) without HDD HN35320800NR/HN35640800NR: 7 kg (15.43 lb) without HDD HN35640800DR: 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)

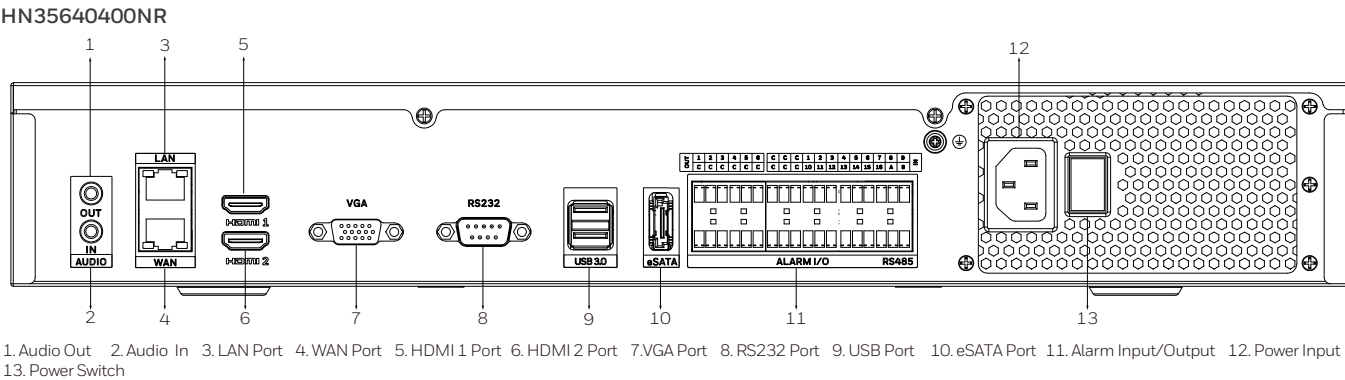
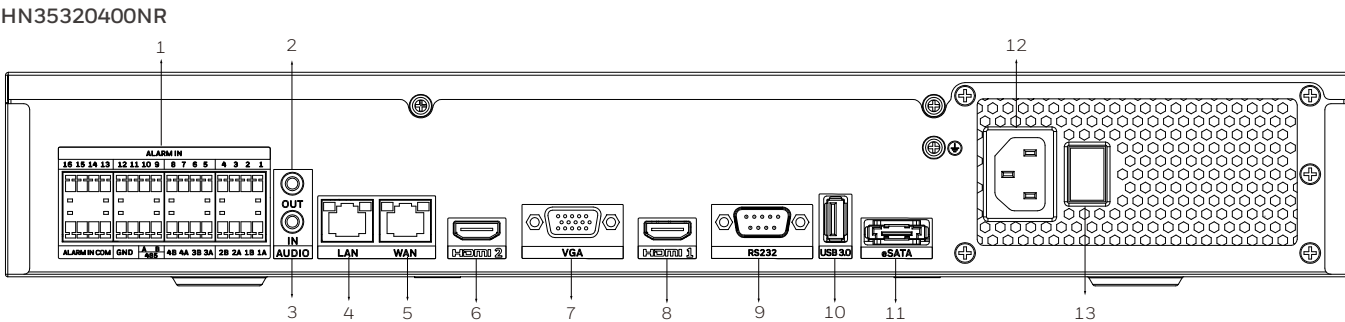
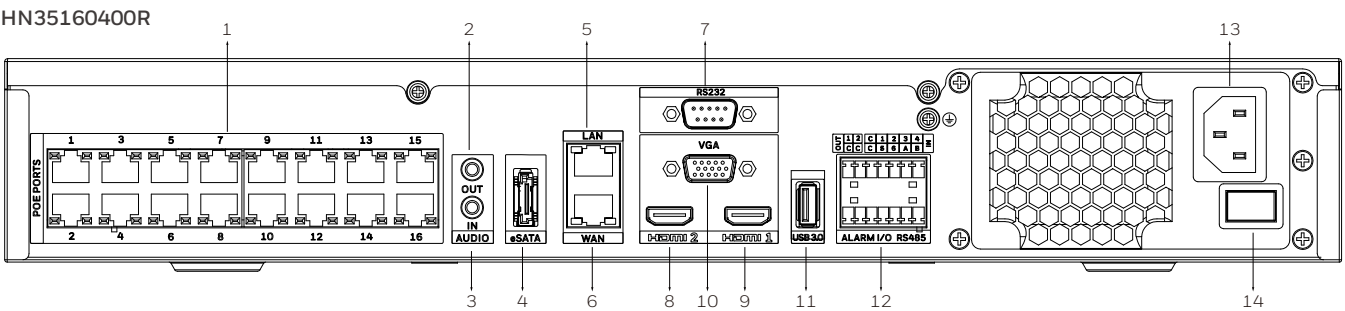
* For optimum performance, RAID functionality requires models with Enterprise Hard Disk Drives.

**400 Mbps 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	HC35W42R2, HC35W43R2, HC35W45R2, HC35W48R2
Fixed Bullet Camera	HC35WB3R3, HC35WB5R3, HC35WB8R3, HC60WZ4R40WI, HC60WZ4R40KI
MFZ Bullet Camera	HC35WB2R2, 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, HC35WZ5R30W

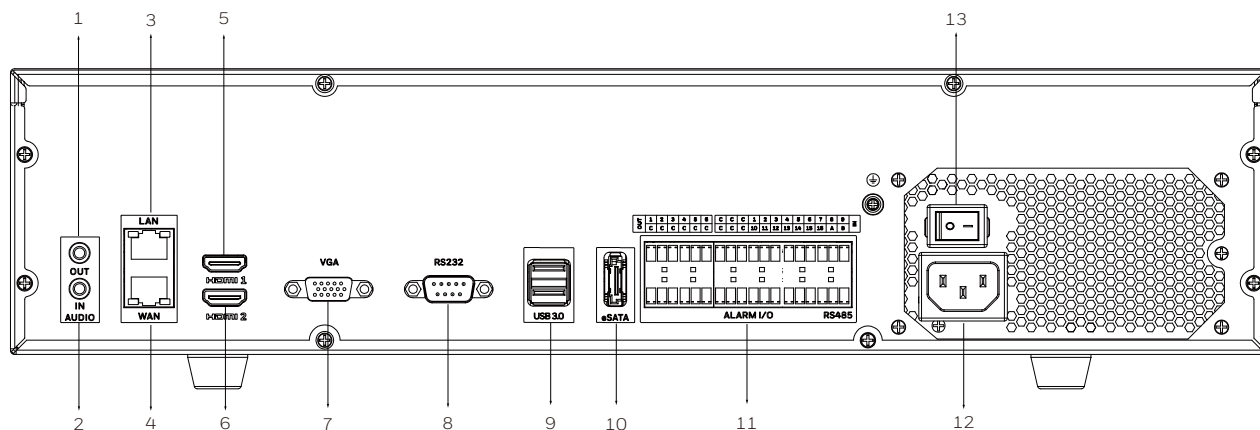
SYSTEM DIAGRAM



35 SERIES HN35 PRO 16 / 32 / 64 CH 4K

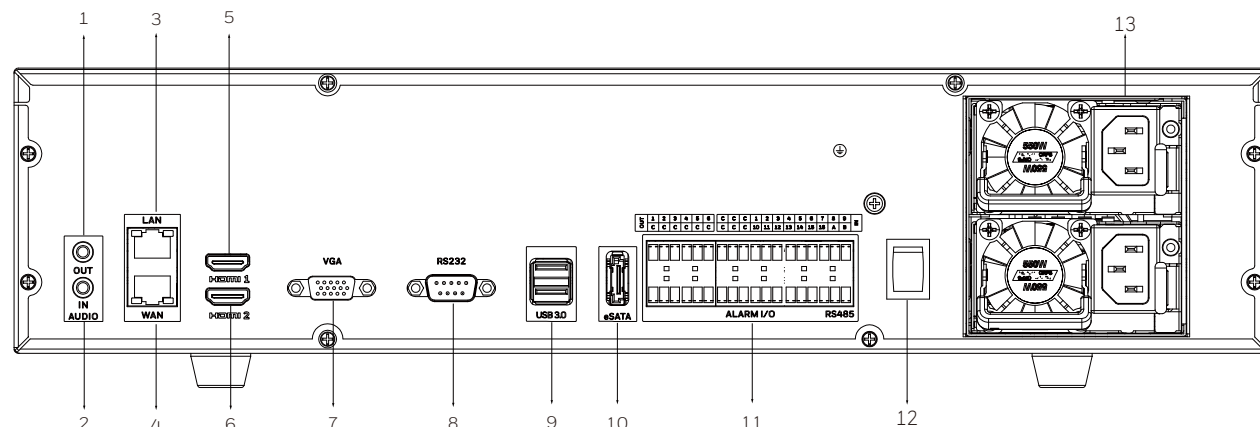
SYSTEM DIAGRAM

HN35320800NR/HN35640800NR



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

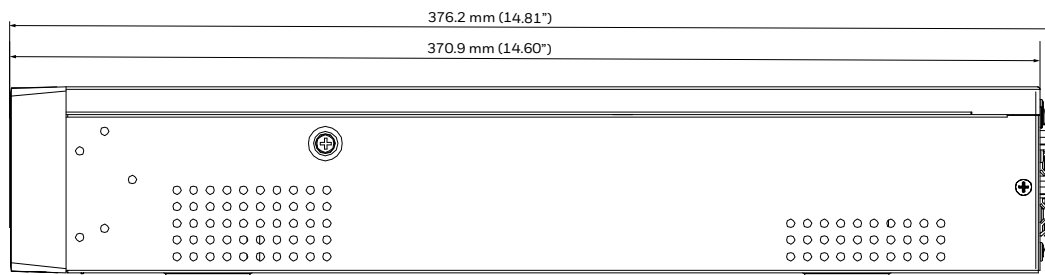
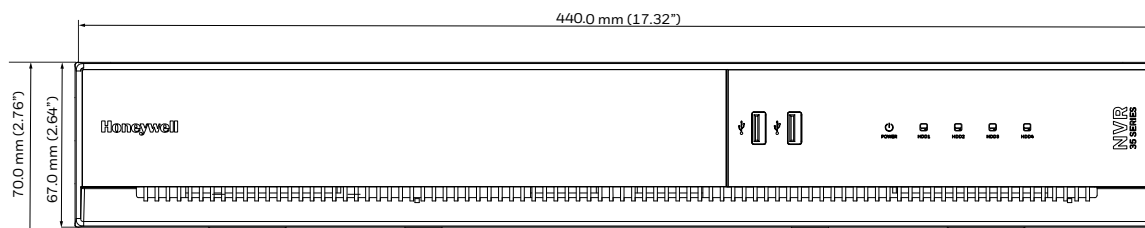
HN35640800DR (Dual Power Supply)



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

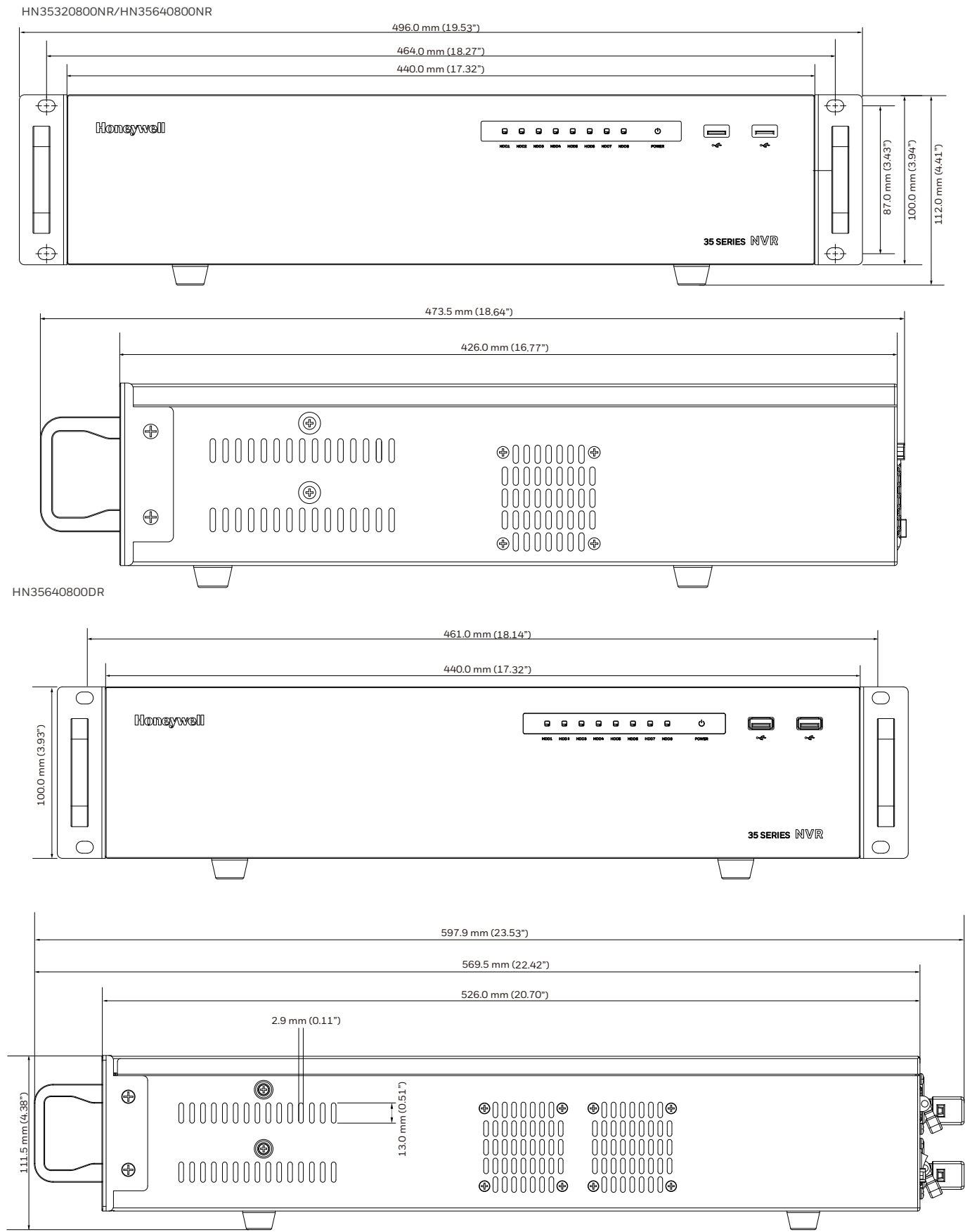
DIMENSIONS

HN35160400R/HN35320400NR/HN35640400NR



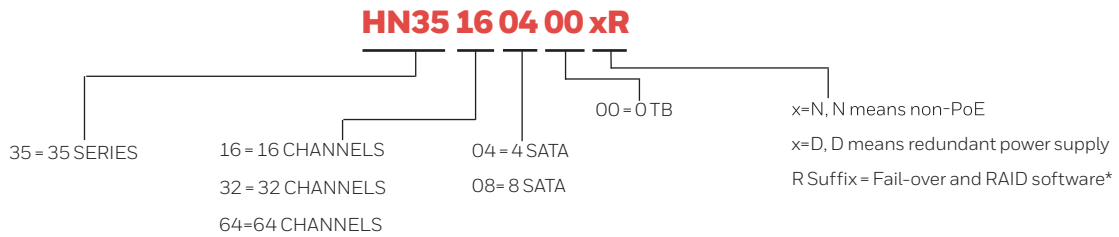
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DIMENSIONS



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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

**Failover is not available for PoE models.

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

For More Information

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