

# 35 SERIES HN35 PRO



HN351604xxR/HN353204xxNR/HN356404xxNR



HN353208xxNR/HN356408xxNR



## 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
- HDMI/VGA simultaneous video output
- USB ports support Keyboard and Mouse
- Supports alarm input and alarm output
- Supports sending events through email, FTP, alarm out or push notification
- Supports recording a video clip of events for distribution
- Supports uploading still images at the time of the event through email
- 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
- Support RAID \*\*\* 1/5/6

\*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	HN351604xxR: 16 channels HN353204xxNR/HN353208xxNR: 32 channels HN356404xxNR/HN356408xxNR: 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: 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: 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: 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	HN351604xxR up to 160 Mbps HN353204xxNR/HN353208xxNR up to 320 Mbps HN356404xxNR/HN356408xxNR 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	HN351604xxR: 6 HN353204xxNR/HN353208xxNR/HN356404xxNR/HN356408xxNR: 16
Alarm Out	HN351604xxR: 2 HN353204xxNR: 4 HN356404xxNR/HN353208xxNR/HN356408xxNR: 6
RS485	Supported
RS232	Supported
e-SATA	Supported

STORAGE	
Internal HDD	HN351604xxR/HN353204xxNR: Internal x4 (3.5") HN356404xxNR/HN353208xxNR/HN356408xxNR: 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: 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	HN351604xxR: 802.3at/af compliant PoE ports x 16
Supported Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTPSP/RTP/RTCP, SMTP, FTP, DHCP, NTP (Secure), DNS, DDNS, IP Filter, P2P, SNMP
Maximum Number Of Users	16
Network Throughput	HN351604xxR up to 160 Mbps HN353204xxNR/HN353208xxNR up to 320 Mbps HN356404xxNR/HN356408xxNR 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	HN351604xxR/HN353204xxNR/HN353208xxNR/HN356404xxNR/ HN356408xxNR: 100-240V AC, 50/60 Hz
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
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)
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
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.

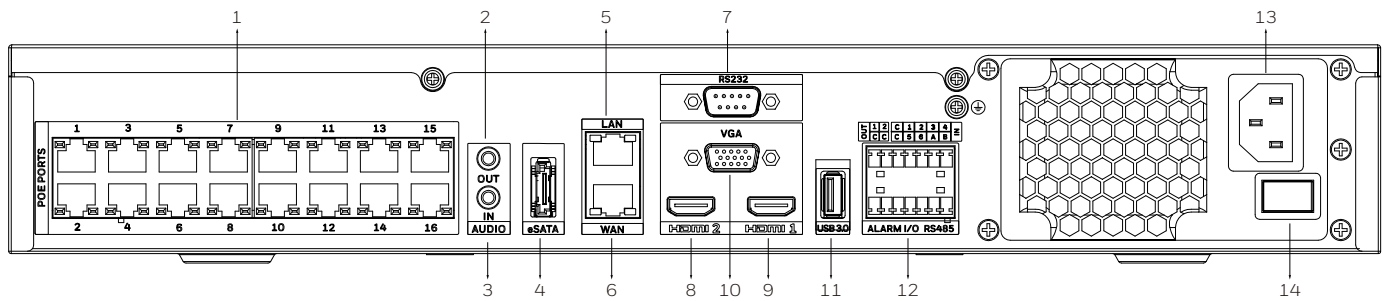
\*\*400 Mbps is achievable when video streams are not encrypted. It is needed to split the HDD array into at least two equal storage groups.

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RECOMMENDED CAMERAS	
Fixed Dome Cameras	HC35W43R3, HC35W45R3, HC35W48R3
MFZ Dome Camera	HC35W43R2, HC35W45R2, HC35W48R2
Fixed Bullet Camera	HC35WB3R3, HC35WB5R3, HC35WB8R3
MFZ Bullet Camera	HC35WB3R2, HC35WB5R2, HC35WB8R2
Fixed Ball Camera	HC35WE3R3, HC35WE5R3, HC35WE8R3
MFZ Ball Camera	HC35WE3R2, HC35WE5R2, HC35WE8R2
Fixed Micro Dome Camera	HC35W25R3
Speed Dome Camera	HC35WZ2R25, HC35WZ5R30
Low Light IR PTZ Camera	HC60WZ4R40WI

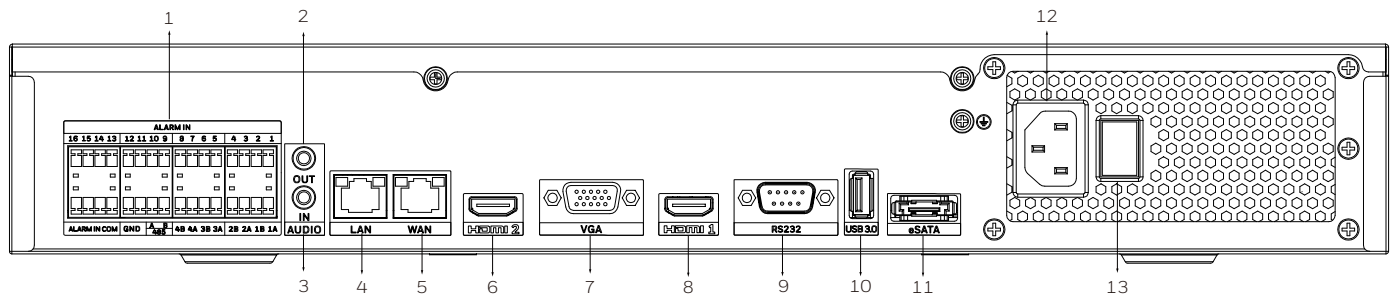
## SYSTEM DIAGRAM

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

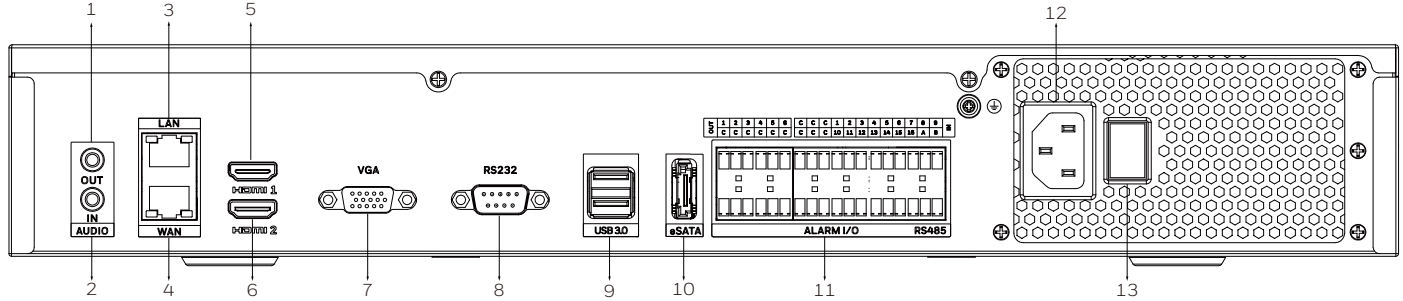


1. Alarm Input/Output 2. Audio Out 3. Audio In 4. LAN Port 5. WAN Port 6. HDMI 2 Port 7. VGA Port 8. HDMI 1 Port 9. RS232 Port 10. USB Port 11. eSATA Port 12. Power Input 13. Power Switch

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

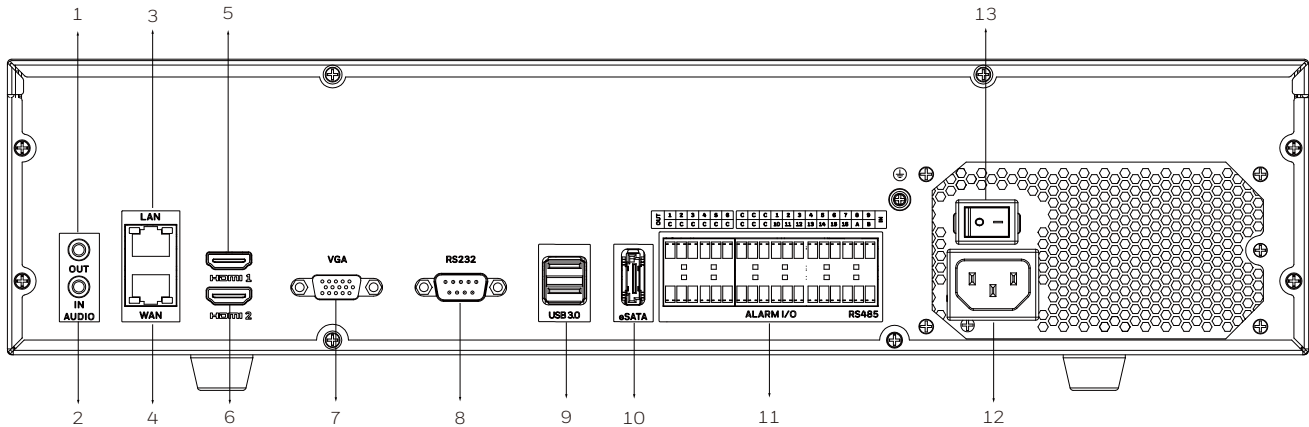
## SYSTEM DIAGRAM

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

HN353208xxNR/HN356408xxNR

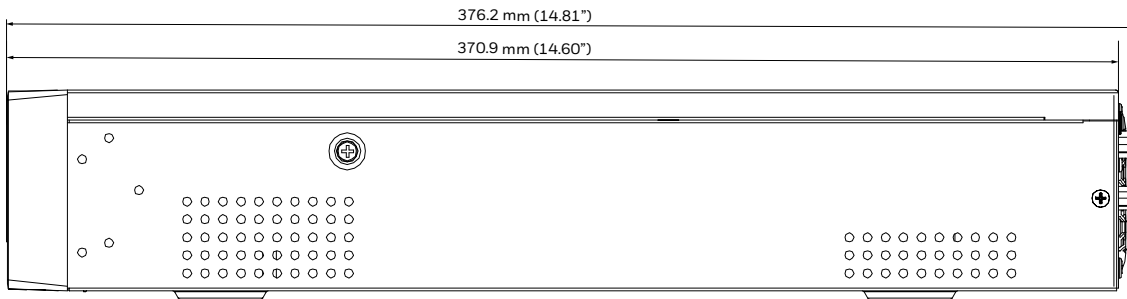
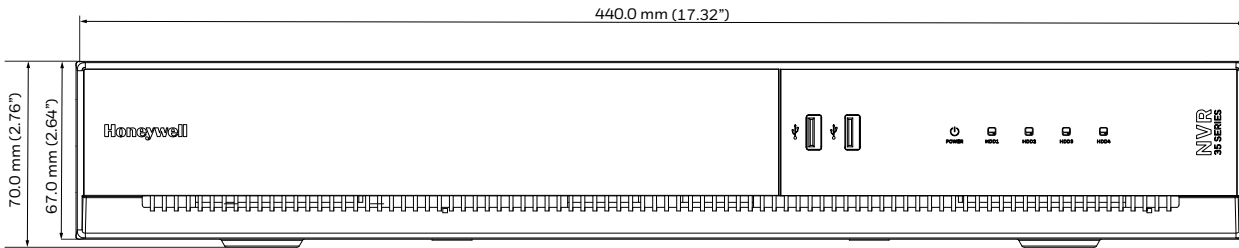


1. Audio Out 2. Audio In 3. LAN Port 4. WAN Port 5. HDMI 1 Port 6. HDMI 2 Port 7. VGA Port 8. RS232 Port 9. USB Port 10. eSATA Port 11. Alarm Input/Output 12. Power Input  
13. Power Switch

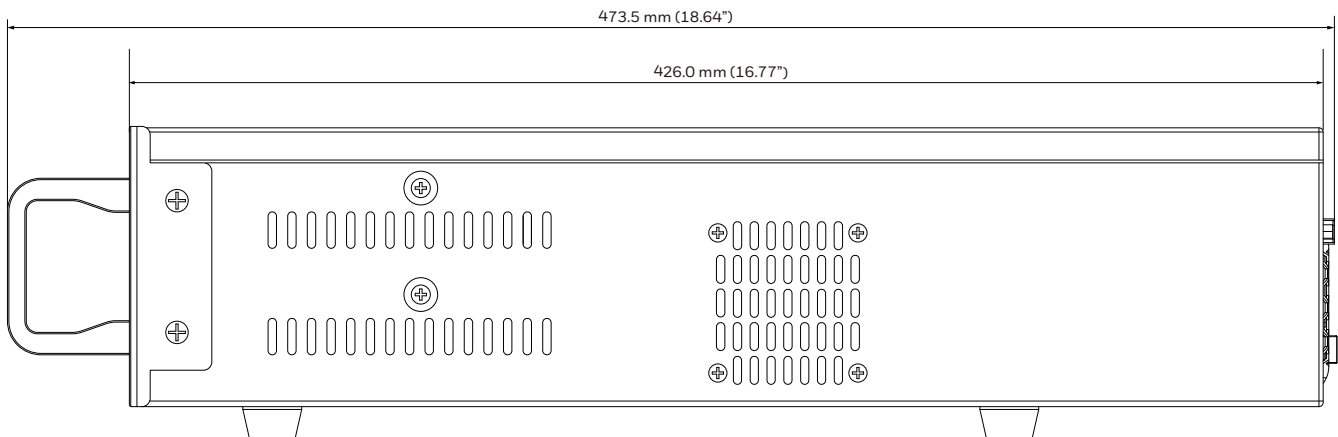
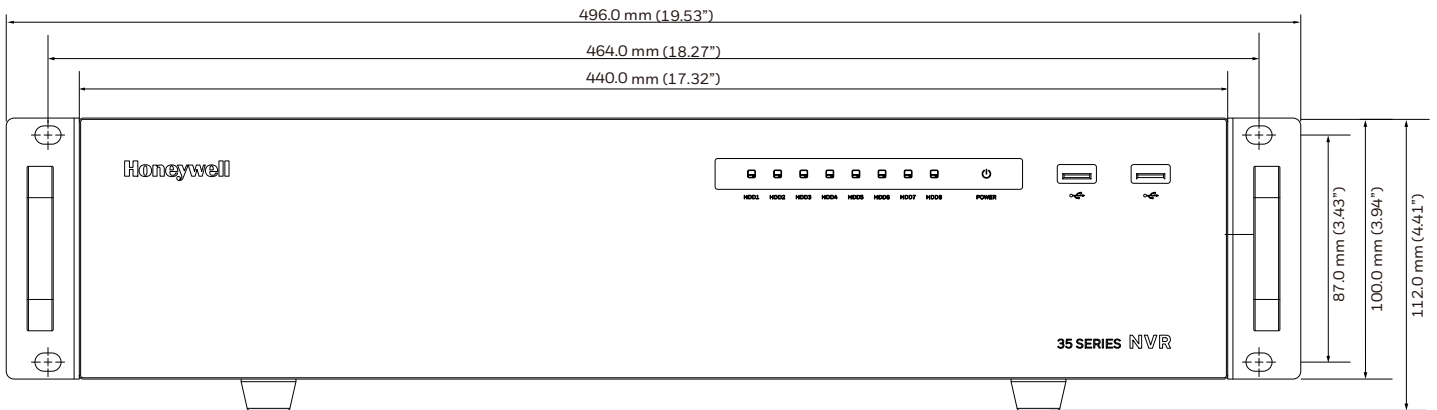
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## DIMENSIONS

HN351604xxR/HN353204xxNR/HN356404xxNR

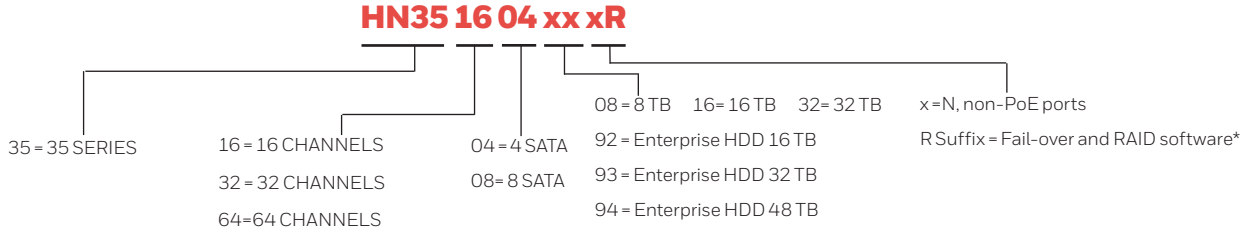


HN353208xxNR/HN356408xxNR



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## PART NUMBER LOOKUP



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

## ORDERING

MODEL	DESCRIPTION	RAID CAPACITY WITHOUT HOT SPARE	MODEL	DESCRIPTION	RAID CAPACITY WITHOUT HOT SPARE
<b>16 Channel, PoE Ports, 4 SATA</b>			<b>32 / 64 Channel, Non-PoE Ports, 8 SATA</b>		
<b>MODELS WITH SURVEILLANCE HARD DISK DRIVE</b>			<b>MODELS WITH SURVEILLANCE HARD DISK DRIVE</b>		
HN35160408R**	16 Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 4 SATA, 8 TB	Not available	HN35320808NR	32 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 8 TB, Non-PoE	Not available
HN35160416R**	16 Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 4 SATA, 16 TB	Not available	HN35320816NR	32 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 16 TB, Non-PoE	Not available
<b>MODELS WITH ENTERPRISE HARD DISK DRIVE</b>			<b>MODELS WITH ENTERPRISE HARD DISK DRIVE</b>		
HN35160492R**	16 Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 4 SATA, 16TB, RAID	8TB RAID1, 12TB RAID5, 8TB RAID6	HN35320832NR	32 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 32 TB, Non-PoE	Not available
<b>32 / 64 Channel, Non-PoE Ports, 4 SATA</b>			<b>MODELS WITH ENTERPRISE HARD DISK DRIVE</b>		
<b>MODELS WITH SURVEILLANCE HARD DISK DRIVE</b>			<b>MODELS WITH ENTERPRISE HARD DISK DRIVE</b>		
HN35320408NR	32 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 4SATA, 8 TB, Non-PoE.	Not available	HN35320892NR	32 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 16 TB, Non-PoE, RAID	8TB RAID1, 12TB RAID5, 8TB RAID6
HN35320416NR	32 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 4SATA, 16 TB, Non-PoE	Not available	HN35320893NR	32 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 32 TB, Non-PoE, RAID	16TB RAID1, 24TB RAID5, 16TB RAID6
<b>MODELS WITH ENTERPRISE HARD DISK DRIVE</b>			<b>MODELS WITH ENTERPRISE HARD DISK DRIVE</b>		
HN35320492NR	32 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 4SATA, 16TB, Non-PoE, RAID	8TB RAID1, 12TB RAID5, 8TB RAID6	HN35640892NR	64 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 16 TB, Non-PoE, RAID	8TB RAID1, 12TB RAID5, 8TB RAID6
HN35640492NR	64 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 4 SATA, 16 TB, Non-PoE, RAID	8TB RAID1, 12TB RAID5, 8TB RAID6	HN35640893NR	64 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 32 TB, Non-PoE, RAID	16TB RAID1, 24TB RAID5, 16TB RAID6
			HN35640894NR	64 Chs NVR 4K (8 MP) Support, H.265/H.264, Stream Encryption, 8 SATA, 48 TB, Non-PoE, RAID	24TB RAID1, 40TB RAID5, 32TB RAID6
<b>Additional Hard Disk Drive Options</b>					
			<b>4TB</b>	<b>8TB</b>	<b>10TB</b>
<b>Enterprise Hard Disk Drive***</b>			HN35HDS04	HN35HDS08	HN35HDS10
<b>Surveillance Hard Disk Drive***</b>			HN30HDS04	HN30HDS08	HN30HDS10

\*\*Failover is not available for PoE models.

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

**For more information:**  
buildings.honeywell.com/security



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