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.

SECURE AND COMPLIANT SOLUTION

- For use as part of video systems which comply with NDAA Section 889.
- The TPM (Trusted Platform Module) provides end-to-end stream and command encryption through integrated cryptographic keys.
- Together with 35 Series cameras, provides an end-to-end encrypted solution with video streaming and control encrypted between NVR and web client / viewer / mobile app.
- PCI-DSS compliance.
- Secure boot feature combined with Honeywell cybersecurity standards helps ensure data protection.
- Support secure NTP.

EASY TO SETUP AND USE

- Plug and play feature together with 35 Series cameras for rapid and simple setup.
- Dual network ports, making it easy to connect local IPCs and remote control.
- Intuitive NVR design, quick installation wizard and easy-to-understand installation guide for fast and easy setup.

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.

Honeywell

35 SERIES HN35 PRO, 16 / 32 / 64 CH 4K
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: 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/HN356408xxDR** 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/ 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	10/100/1000 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, RTSP/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/HN356408xxDR** 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 **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 × 370 × 67 mm (17.32 × 14.57 × 2.64 inch) **HN353208xxNR/HN356408xxNR:** 440 × 426 × 100 mm (17.32 × 16.77 × 3.94 inch) **HN356408xxDR:** 440 × 526 × 100 mm (17.32 × 20.71 × 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.

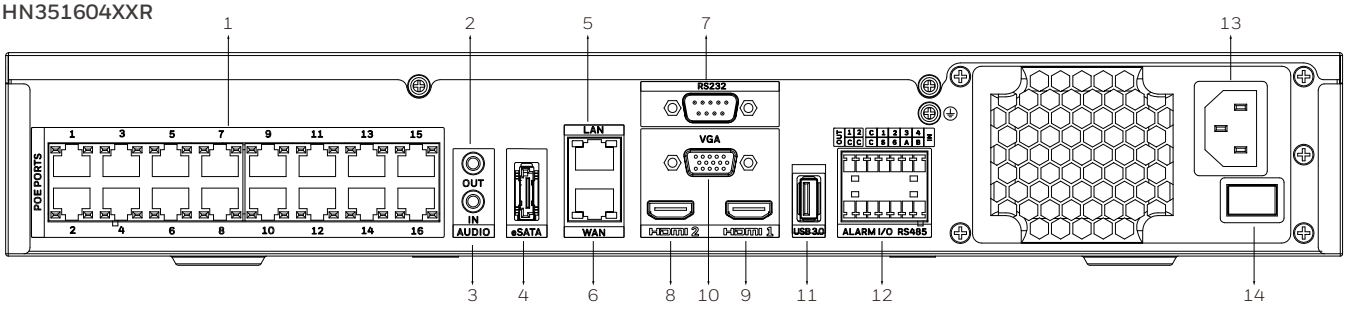
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RECOMMENDED CAMERAS	
Fixed Dome Cameras	HC35W43R3, HC35W45R3, HC35W48R3
MFZ Dome Camera	HC35W43R2, HC35W45R2, HC35W48R2
Fixed Bullet Camera	HC35WB3R3, HC35WB5R3, HC35WB8R3, HC60WZ4R40WI, HC60WZ4R40KI
MFZ Bullet Camera	HC35WB3R2, HC35WB5R2, HC35WB8R2, 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

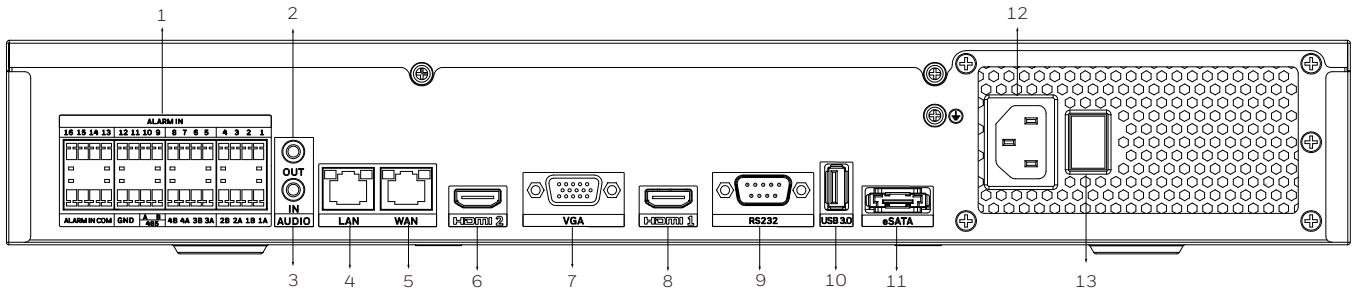
SYSTEM DIAGRAM

HN351604XXR



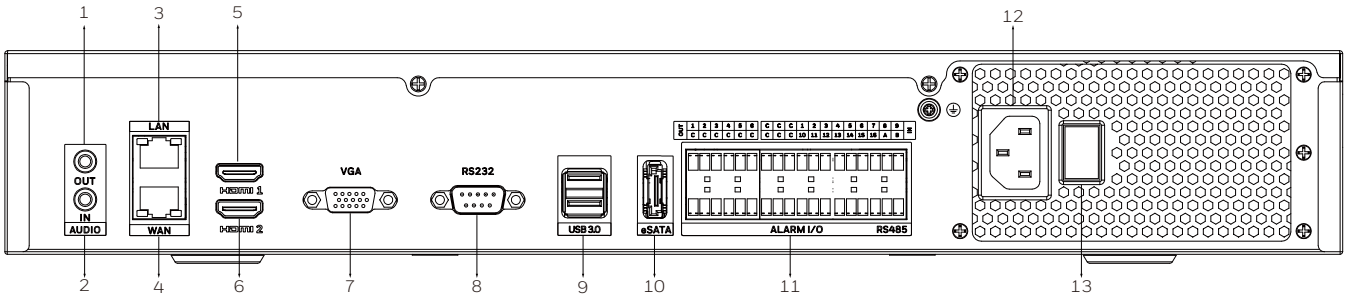
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HN353204xxNR



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

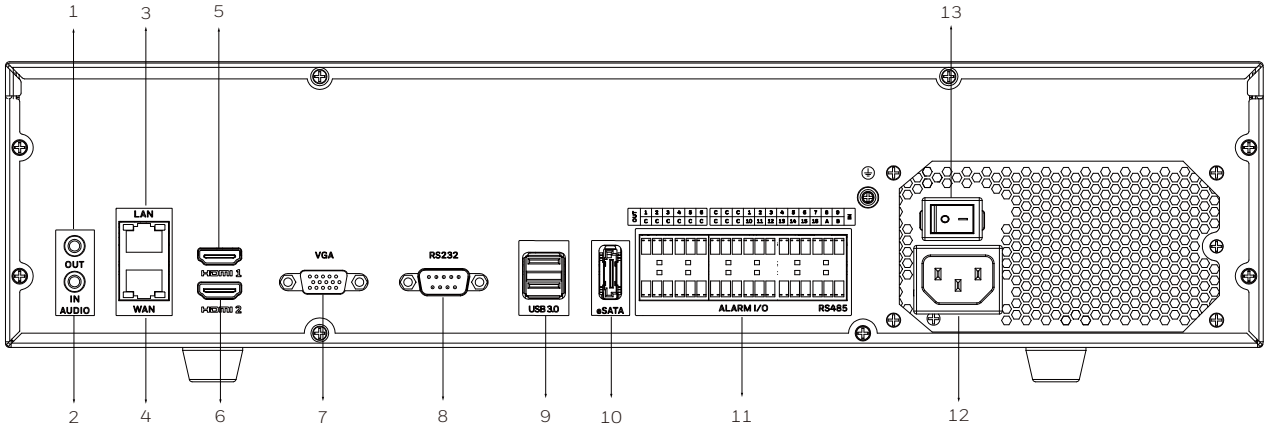


1. Audio Out 2. Audio In 3. LAN Port 4. WAN Port 5. HDMI 1 Port 6. HDMI 2 Port 7.VGA Port 8. RS232 Port 9. USB Port 10. eSATA Port 11. Alarm Input/Output 12. Power Input 13. Power Switch

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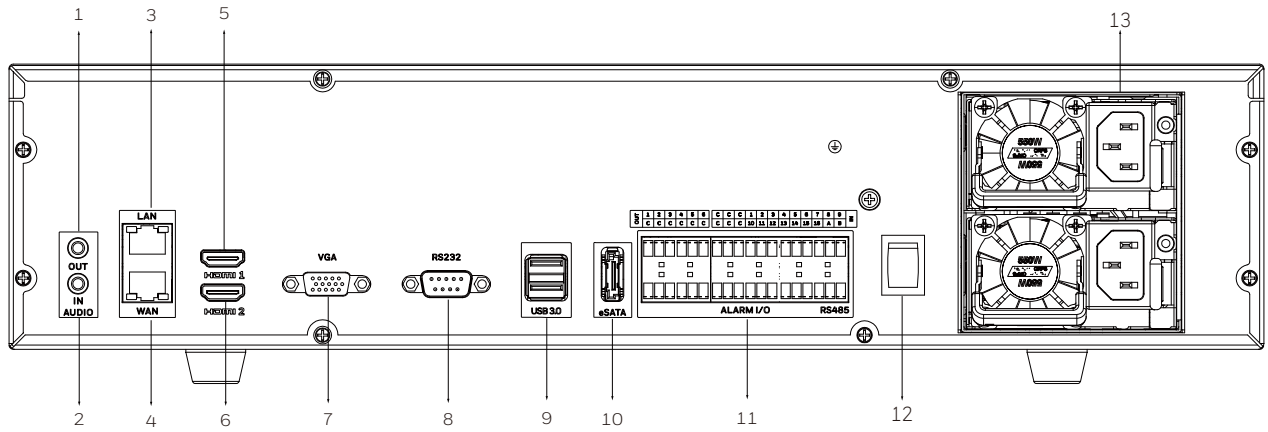
SYSTEM DIAGRAM

HN353208xxNR/HN356408xxNR



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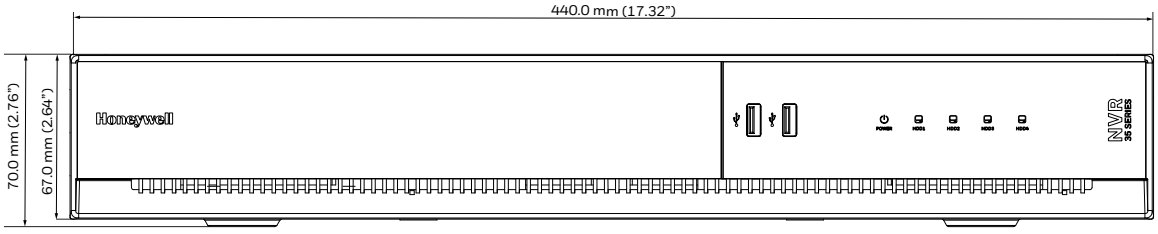
HN356408xxDR (Dual Power Supply)

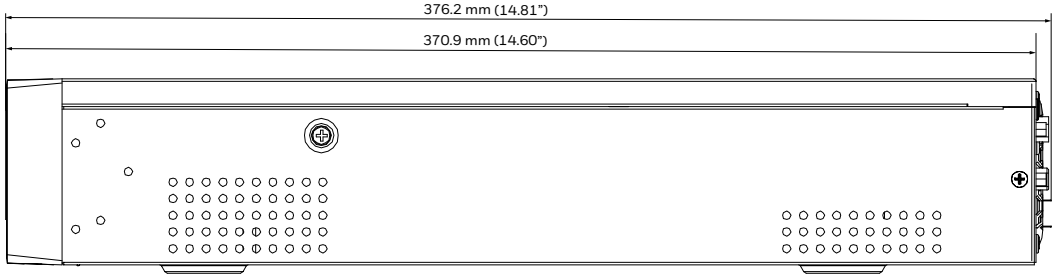


1. Audio Out 2. Audio In 3. LAN Port 4. WAN Port 5. HDMI 1 Port 6. HDMI 2 Port 7.VGA Port 8. RS232 Port 9. USB Port 10. eSATA Port 11. Alarm Input/Output 12. Power Switch 13. Power Input

DIMENSIONS

HN351604xxR/HN353204xxNR/HN356404xxNR

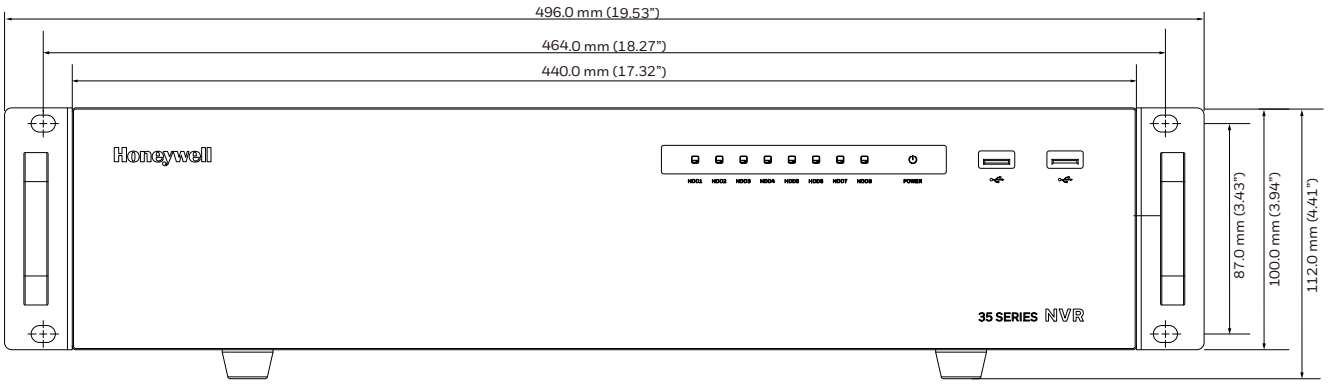


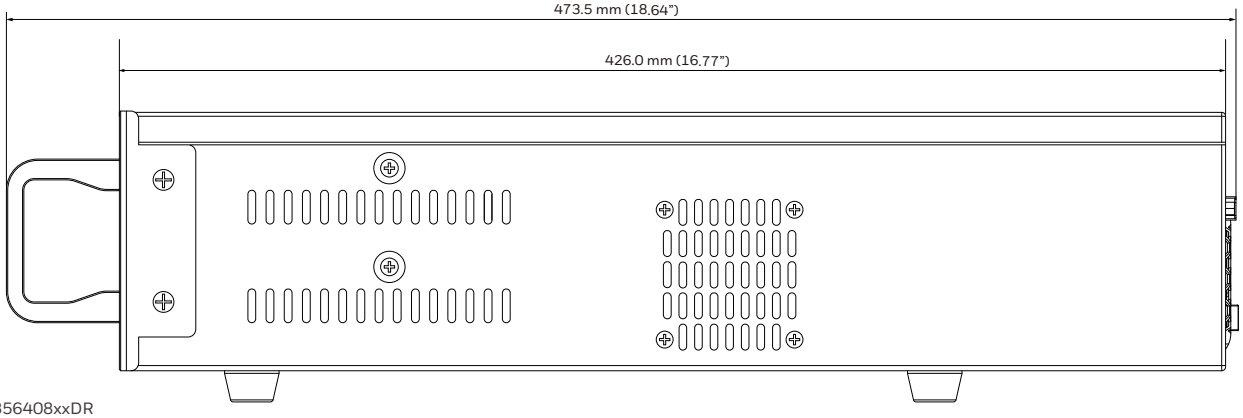


35 SERIES HN35 PRO, 16 / 32 / 64 CH 4K

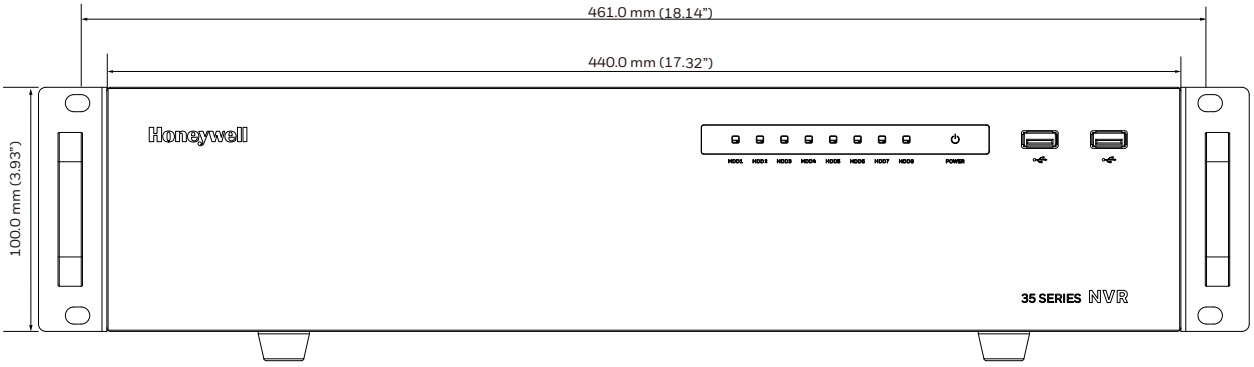
DIMENSIONS

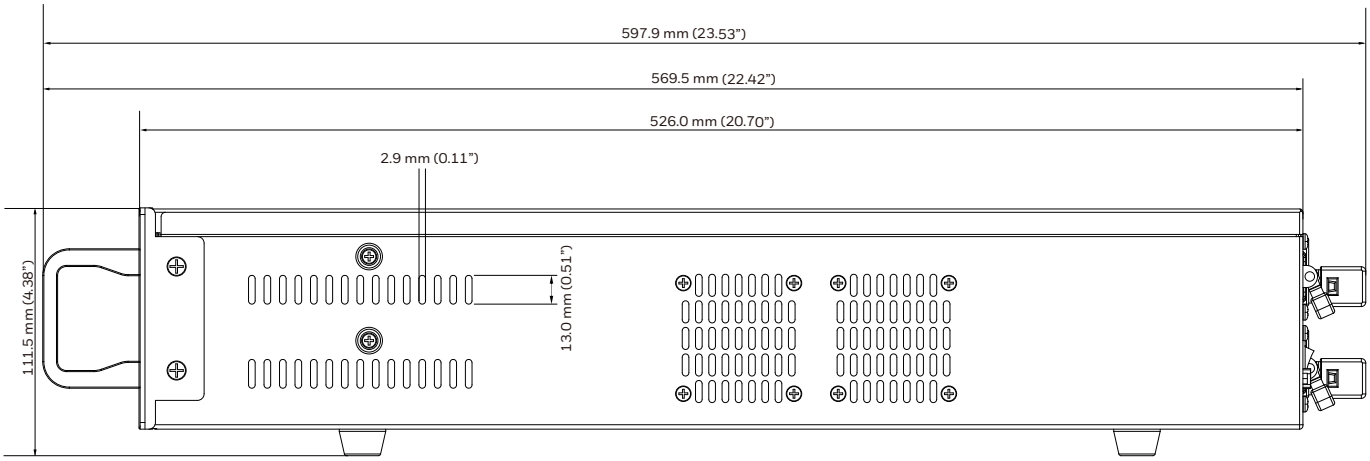
HN353208xxNR/HN356408xxNR





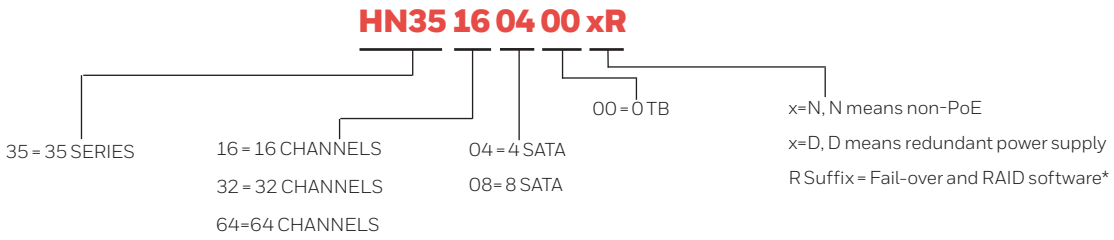
HN356408xxDR





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

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

**Failover is not available for PoE models.
***For detailed information about compatible HDDs, please refer to the HDD Compatibility Matrix.

For more information
hwll.co/securityAE

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