35 SERIES
HN35 PRO



HN351604xxR/HN353204xxNR/HN356404xxNR



HN353208xxNR/HN356408xxNR



HN356408xxDR

16 / 32 / 64 Ch Embedded NVR

Introducing Honeywell's 35 Series HN35 PRO NVRs, a robustly-featured, cost-effective, NDAA Section 889 compliant NVR solution delivering 12 MP HD (UHD) video resolution and supporting 4K HDMI out perfect for small/medium businesses and enterprises. Choose a 16, 32 or 64 channel NVR with multiple hard drive options and up to 144 TB (18 TB non-RAID per SATA) 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 12 MP resolution live view and playback.
- Supports H.265 HEVC, H.264, Smart Codec.
- Notifications from expanded video analytics on 35 Series cameras
- 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 failover with backfill.
- Supports integration with Maxpro VMS

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.
- Video Analytics (VA) search based on object type (person, vehicle)

CONVENIENT, FLEXIBLE, REDUNDANT STORAGE OPTIONS

- Internal storage supports 8 HDDs expandable up to 144 TB (18 TB non-RAID per SATA) of internal storage.
- Enhanced external recording and video clip storage: eSATA, NAS, local USB device, 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 TLS1.2 & TLS1.3, 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.
- Video watermark to prevent unauthorized use or republication without permission.

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
- 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
- Supports recording a video clip of events for distribution

*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
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 log, Event log, Operation log
Date & Time	Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time
Fan	Yes
Security	User account and password protection, HTTPS, IP Filter, Digest authentication, TLS1.2 & TLS1.3, Stream encryption, AES128 / 256, Telnet & ssh closed, PCI-DSS compliance, Built-In encryption chipset, System log
Export Watermark Video Clip	Supported encryption key and customizable watermark
HDD Key Lock	Supported encryption on HDD (optional)
Easy Configuration	P2P (QR code)
On-Board Reset	Yes
SDK	Available (Post Signing NDA)

VIDEO

Inputs	**HN351604xxR:** 16 channels **HN353204xxNR/HN353208xxNR:** 32 channels **HN356404xxNR/HN356408xxNR/HN356408xxDR:** 64 channels

AUDIO

Audio Input/ Output	3.5 mm Line in x 1 3.5 mm Line out x 1
Two-way Communication	Supported
Audio Format	G.711

DISPLAY

Interface	HDMI 1 (4K Max), HDMI 2 (1080P), VGA x1 (1080P)
Resolution	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, channel name, customized label description for OSD
Privacy Mask	Up to 4 areas
Stream Application	**HN351604xxR:** 1 x 1: 1ch 12 MP MAX, 2 x 2: 4ch 4 MP, 3 x 3: 9ch 2 MP, 4 x 4: 16ch D1 **HN353204xxNR:** 1 x 1: 1ch 12 MP MAX, 2 x 2: 4ch 4 MP, 3 x 3: 9ch 2 MP, 6 x 6: 32ch D1 **HN353208xxNR:** 1 x 1: 1ch 12 MP MAX, 2 x 2: 4ch 4K, 4 x 4: 16ch 2 MP, 32: 32ch D1 **HN356404xxNR/HN356408xxNR/HN356408xxDR:** 1 x 1: 1ch 12 MP MAX, 2 x 2: 4ch 4K, 4 x 4: 16ch 2 MP, 8 x 8: 64ch D1
Fisheye Dewarp	On 1CH up to 11 dewarping options (NVR local UI), On 1CH up to 4 dewarping options (NVR web UI), On multiple CHs up to 11 dewarping options (HSV VMS Windows® desktop), On 1CH up to 3 dewarping options (HSV mobile app).
PTZ Operation	Direction control, Home, Iris, Preset, Patrol (group), Focus +/- Zoom+/-
Language	English, Traditional Chinese, Czech, Vietnamese, Danish, French, Italian, Hungarian, Polish, Slovakia, Thai, Spanish, Portuguese, Deutsch, Arabic, Indonesian, Japanese, Hebrew, Finnish, Korean, Turkish, Romania, Netherlands

RECORDING

Compression	H.265/H.264
Resolution	Up to 4000 x 3000
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)
ANR(Automatic Network Replenishment)	Supported
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, Video loss, Audio detection, Temperature threshold alarm, Temperature threshold warning, Temperature difference alarm, Temperature difference warning, Temperature section alarm, Temperature rise alarm, Temperature rise warning, Face detection, Motion detection, Smart motion detection, Scene change, Smoker detection, Smoke and flame detection, Fire spot detection, Intrusion, Line crossing detection, Unattended object detection, Missing object detection, Wrong way detection, Multi loitering, People counter, Illegal access, local intelligent intrusion detection **System:** **HN351604xxR:** System alarm in/out, IP conflict, Network disconnected, No disk, Disk abnormal, Hard disk full, NAS offline, Auto backup failed, RAID damaged, RAID degraded, RAID rebuild start and complete **HN353204xxNR/HN353208xxNR/HN356404xxNR/HN356408xxNR/ HN356408xxDR:** System alarm in/out, IP conflict, Network disconnected, No disk, Disk abnormal, Hard disk full, Failover alarm, NAS offline, Auto backup failed, RAID damaged, RAID degraded, RAID rebuild start and complete
Event Action	Buzzer, Push message to App, Pop up message to monitor, Full screen, Email, FTP/SFTP, PTZ, Alarm out, Camera alarm out, Event recording
Event Search	Support VA event search by object type (Human, Vehicle, Pet, Audio) and detail attribute (Gender, Age, Mask, Clothing Color, Vehicle Color etc.)
Supported Cameras	Honeywell 30/60/70/35 series camera, S60 Multi-sensor, Bi-spectrum camera, S35 dual-light color camera, S35 180° dual sensor camera, S35 pinhole, S60 4K PTZ, S35 fisheye camera, S60 refresh camera (more details refer to integration matrix)
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	Directly recording, Auto backup

STORAGE

Internal HDD	**HN351604xxR/HN353204xxNR:** Internal x 4 (3.5") **HN356404xxNR/HN353208xxNR/HN356408xxNR/HN356408xxDR:** Internal x 8 (3.5")
HDD max. Capacity	Surveillance Class HDD (Non-RAID supported): 18 TB Enterprise Class HDD (RAID supported): 12 TB
Manual backup	USB Dongle (FAT format)
RAID**	RAID 1\5\6 (Max. 80TB for each RAID, need enterprise hard disk)
NAS	Directly recording, Auto backup
Failover***	**HN353204xxNR/HN353208xxNR/HN356404xxNR/HN356408xxNR/ HN356408xxDR:** Failover N+1, auto backfill supported

PLAYBACK AND BACKUP

Sync Playback	16 channels
Decoding	**HN351604xxR:** H.265/H.264: 4000 x 3000 @ 30 fps (1-CH), 3840 x 2160 @ 30 fps (1-CH), 2560 x 1920 @ 120 fps(4-CH), 1920 x 1080 @ 270 fps (9-CH), 720 x 576 @ 480 fps (16-CH) **HN353204xxNR:** H.265/H.264: 4000 x 3000 @ 30 fps (1-CH), 3840 x 2160 @ 30 fps (1-CH), 2560 x 1920 @ 120 fps(4-CH), 1920 x 1080 @ 270 fps (9-CH), 720 x 576 @ 960 fps (32-CH) **HN353208xxNR:** H.265/H.264: 4000 x 3000 @ 30 fps (1-CH), 3840 x 2160 @ 120 fps (4-CH), 1920 x 1080 @ 480 fps (16-CH), 720 x 576 @ 960 fps (32-CH) **HN356404xxNR/HN356408xxNR/HN356408xxDR:** H.265/H.264: 4000 x 3000 @ 30 fps (1-CH), 3840 x 2160 @ 120 fps (4-CH), 1920 x 1080 @ 480 fps (16-CH), 720 x 576 @ 1920 fps (64-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 8.0 or later support
Browsers	Edge, Chrome, Firefox, Safari

AUXILIARY INTERFACE

USB Ports	Front x 2, USB 2.0, Back x 1, USB 3.0

* 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.
** For optimum performance, RAID functionality requires models with Enterprise Hard Disk Drives.
*** Failover is not applicable for PoE models: HN351604xxR.

35 SERIES HN35 PRO, 16 / 32 / 64 CH

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/HN356404xxNR:** Max. 200 W; 15W without HDD **HN353208xxNR/HN356408xxNR:** Max. 250 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

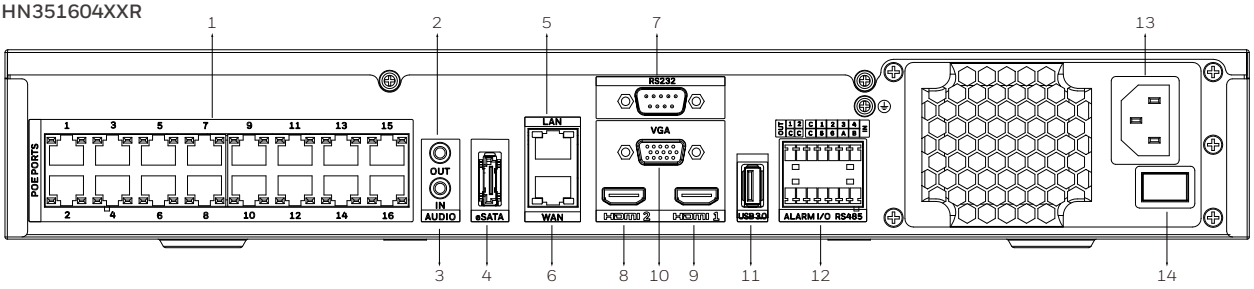
Emissions	FCC Part 15, CE (EN 55032, EN 61000-3-2, EN 61000-3-3, EN 61000-6-4), ICES-003, Comply with UKCA and RCM
Immunity	CE (EN 50130-4, EN 55035) Comply with UKCA and RCM
Safety	UL LISTED TO UL/CSA 62368-1, CE(EN 62368-1), Comply with UKCA and RCM
RoHS	CE(EN 63000), UAE (Cabinet Decree No.10 of 2017)
Country of Origin	Vietnam
Warranty	5 Years

RECOMMENDED CAMERAS

Fixed Dome Cameras	HC35W43R3, HC35W45R3, HC35W48R3
MFZ Dome Camera	HC35W43R2, HC35W45R2, HC35W48R2, HC60W35R2P-V, HC60W35R4P-V, HC60W45R2P-V, HC60W45R4P-V, HC70W48R2
Fixed Bullet Camera	HC35WB3R3, HC35WB5R3, HC35WB8R3, HC35CB5R3
MFZ Bullet Camera	HC35WB3R2, HC35WB5R2, HC35WB8R2, HC60WB5R2P-V, HC60WB5R5P-V, HC70WB8R2
Fixed Ball Camera	HC35WE3R3, HC35WE5R3, HC35WE8R3, HC35CE5R3
MFZ Ball Camera	HC35WE3R2, HC35WE5R2, HC35WE8R2
Fixed Micro Dome Camera	HC35W25R3, HC35W25R3-H
Speed Dome Camera (PTZ)	HC35WZ2R25, HC35WZ5R30, HC60WZ4R40WI, HC60WZ4R40KI, HC60WZ8R40WI, HC60WZ8R40KI, HC70WZ5I30, HC70WZ5I30-S, HC70WZ5E30
Corner Camera	HC70WC5R3
Dual Sensor Camera	HC35WMBAR1
Split Pin-Hole Camera	HC35WP5B (Lenses: HA35P2L28 / HA35P5L37 / HA35P5F12)
Fisheye Camera	HC35WF6R1, HC35WFCR1, HC60WFCR1-V
Bi-Spectrum Camera	HC35TE5R3JT21, HC35TE5R4JT35, HC35TB5R1JT07, HC35TB5R4JT10, HCS1TB4R1VT09, HCS1TB4R4VT15, HCS1TB4R2VT25, HCS1TB4R2VT35, HCS1TB4R2VT50, HC60TB4R1VT09, HC60TB4R4VT15, HC60TB4R2VT25, HC60TB4R2VT35, HC60TB4R2VT50

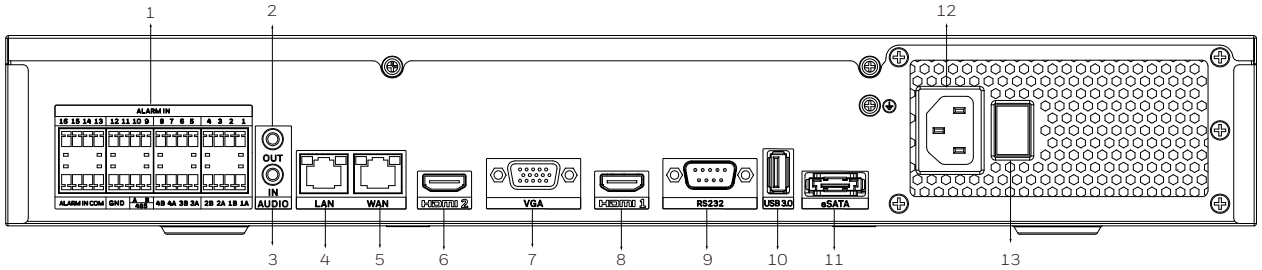
SYSTEM DIAGRAM

HN351604XXR



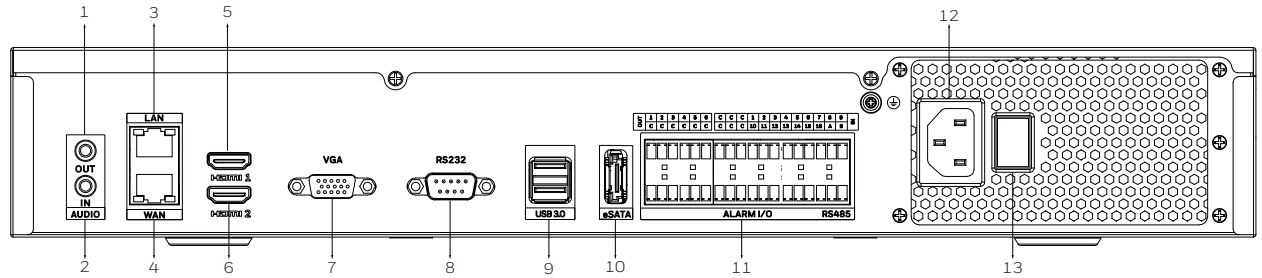
1. PoE Ports 2. Audio Out 3. Audio In 4. eSATA Port 5. LAN Port 6. WAN Port 7. RS232 Port 8. HDMI 2 Port 9. HDMI 1 Port 10. VGA Port 11. USB Port 12. Alarm Input/Output 13. Power Input 14. Power Switch

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

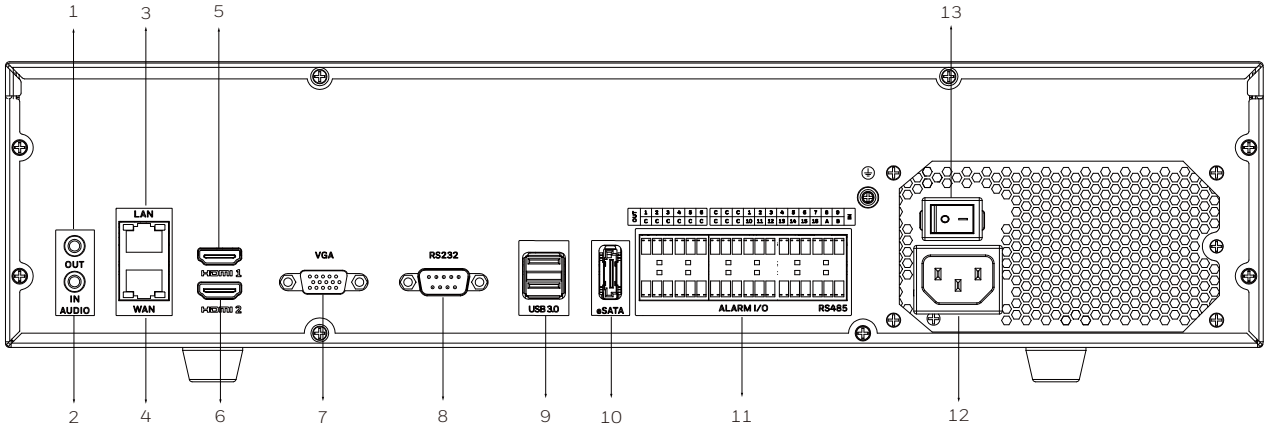


1. Audio Out 2. Audio In 3. LAN Port 4. WAN Port 5. HDMI 1 Port 6. HDMI 2 Port 7.VGA Port 8. RS232 Port 9. USB Port 10. eSATA Port 11. Alarm Input/Output 12. Power Input 13. Power Switch

35 SERIES HN35 PRO, 16 / 32 / 64 CH

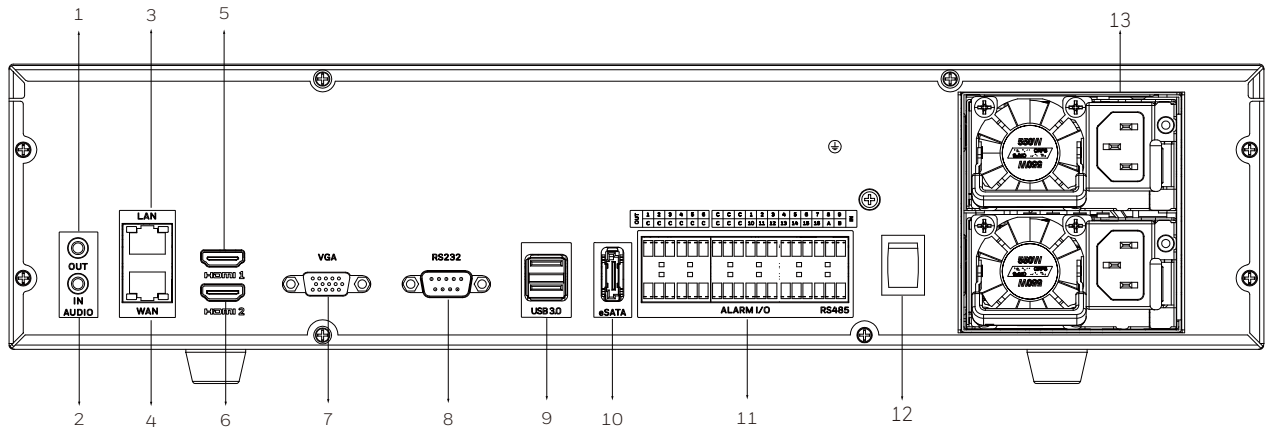
SYSTEM DIAGRAM

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

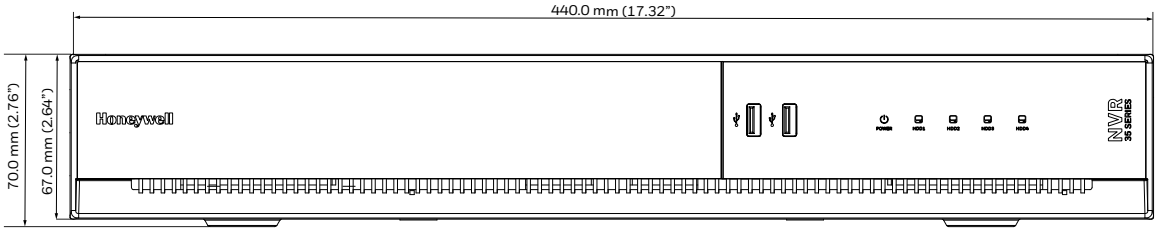
HN356408xxDR (Dual Power Supply)

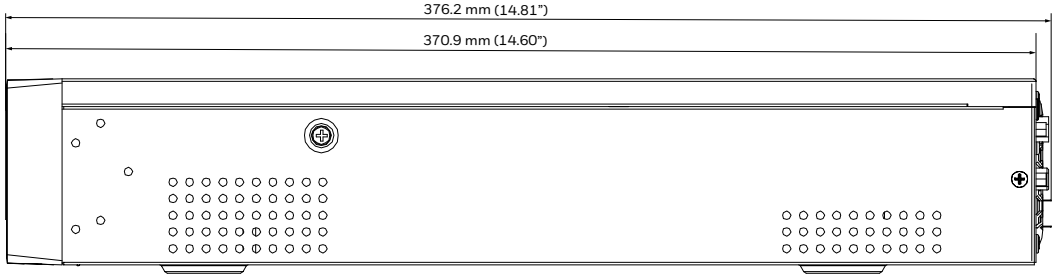


1. Audio Out 2. Audio In 3. LAN Port 4. WAN Port 5. HDMI 1 Port 6. HDMI 2 Port 7.VGA Port 8. RS232 Port 9. USB Port 10. eSATA Port 11. Alarm Input/Output 12. Power Switch 13. Power Input

DIMENSIONS

HN351604xxR/HN353204xxNR/HN356404xxNR

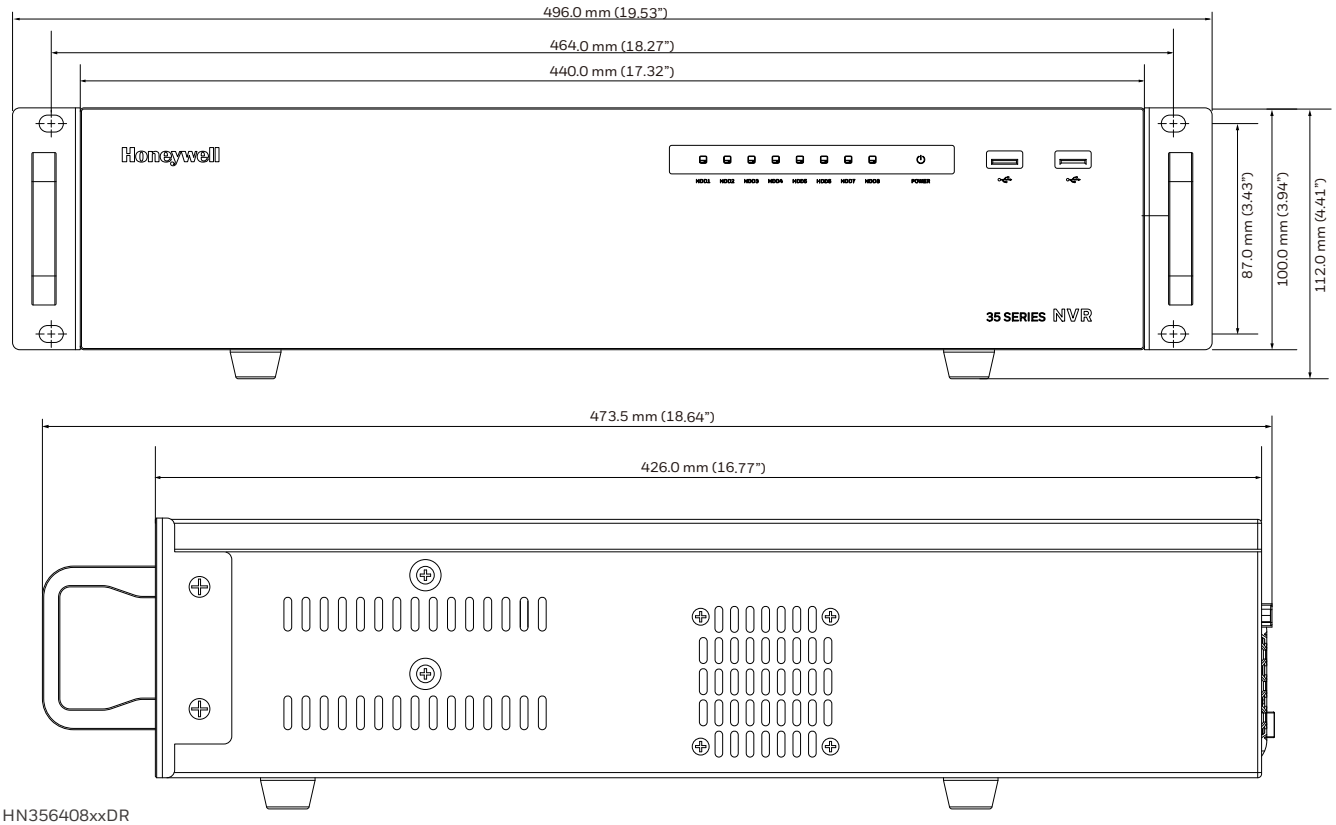




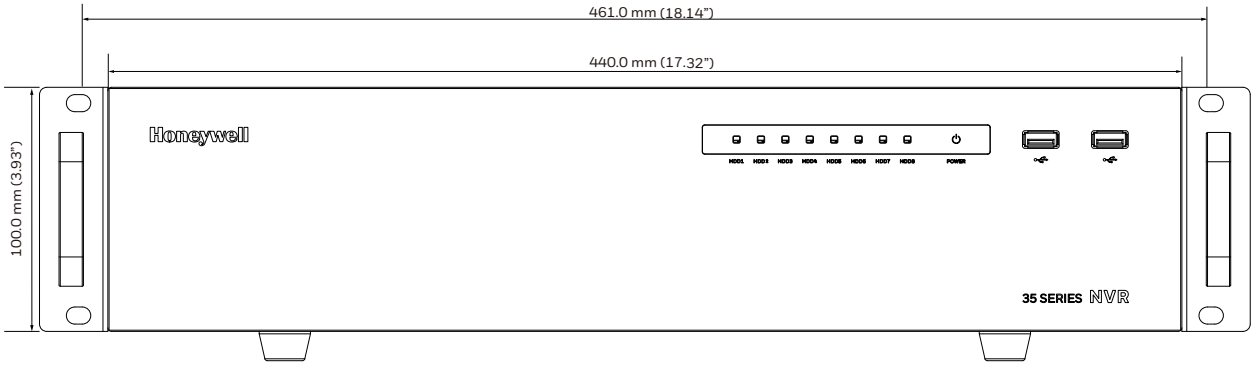
35 SERIES HN35 PRO, 16 / 32 / 64 CH

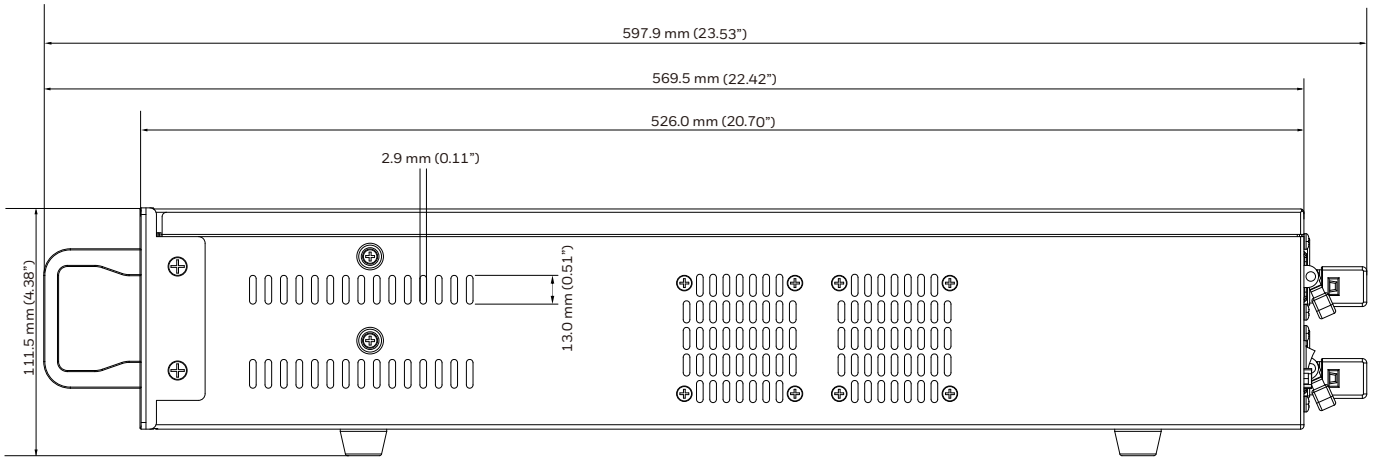
DIMENSIONS

HN353208xxNR/HN356408xxNR



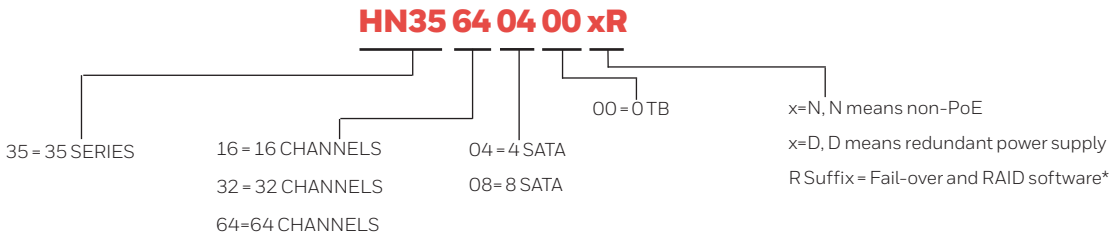
HN356408xxDR





35 SERIES HN35 PRO, 16 / 32 / 64 CH

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 12 MP Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 4 SATA, 0TB, RAID
HN35320400NR	1.5 U 32Chs NVR 12 MP Support, H.265/H.264, Stream Encryption, 4 SATA, 0TB, Non PoE, RAID
HN35320800NR	2.2 U 32Chs NVR 12 MP Support, H.265/H.264, Stream Encryption, 8 SATA, 0TB, Non PoE, RAID
HN35640400NR	1.5 U 64Chs NVR 12 MP Support, H.265/H.264, Stream Encryption, 4 SATA, 0TB, Non PoE, RAID
HN35640800NR	2.2 U 64Chs NVR 12 MP Support, H.265/H.264, Stream Encryption, 8 SATA, 0TB, Non PoE, RAID
HN35640800DR	2.2 U 64Chs NVR 12 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 user guide.

MODEL	DESCRIPTION
HN35 Surveillance Hard Disk Drive* **	
HN30HDS02	Surveillance hard disk drive, 2 TB
HN30HDS04	Surveillance hard disk drive, 4 TB
HN30HDS08	Surveillance hard disk drive, 8 TB
HN30HDS10	Surveillance hard disk drive, 10 TB
HN30HDS12	Surveillance hard disk drive, 12 TB
HN30HDS14	Surveillance hard disk drive, 14 TB
HN30HDS18	Surveillance hard disk drive, 18 TB
HN35 Enterprise Hard Disk Drive* **	
HN35HDS02	Enterprise hard disk drive, 2 TB
HN35HDS04	Enterprise hard disk drive, 4 TB
HN35HDS08	Enterprise hard disk drive, 8 TB
HN35HDS10	Enterprise hard disk drive, 10 TB
HN35HDS12	Enterprise hard disk drive, 12 TB

For More Information
hwll.co/securityUK
hwll.co/securityAE

Building Automation
Commercial Security
Emaar Business Park, Sheikh Zayed Road
Building No. 2, 2nd floor, 201
Post Office Box 232362
Dubai, United Arab Emirates
Tel: +971 4 450 5800

Building 5 Carlton Park
King Edward Avenue
Narborough, Leicester
LE19 0LF
Tel: +44 (0)1163 500714
www.honeywell.com

ONVIF and the ONVIF logo are trademarks of ONVIF Inc.
HEVC Advance logo is a trademark of HEVC Advance
Honeywell reserves the right, without notification, to make changes in product design or specifications.

HBA-SEC-HN35ENVRPRO-DS-UK-EN-09-2025-V3-Y
© 2025 Honeywell International Inc.

Honeywell