

35 SERIES HN35



HN350401xx



HN350802xx/HN351602xx

4 / 8 / 16 Ch 4K Embedded NVR

Introducing Honeywell's 35 Series HN35 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 4, 8, or 16 channel NVR with multiple hard drive options and up to 20 TB of internal storage for a flexible solution that grows with your business.



FULLY-FEATURED NVRs

- High decoding capability for 4K Ultra HD (UHD) viewing and recording
- View 1 to 16 channels simultaneously with synchronized real-time playback on your monitor (depending on the decoding capacity and recording resolution)
- Up to 8 MP (4K) resolution live view and playback
- Supports H.265 HEVC, H.264, Smart Codec
- De-warp fisheye camera(HC30WF5R1) video, Honeywell Smart Viewer (HSV) windows desktop and HSV Mobile App for 360 degree situational awareness
- Together with 35 series cameras, offering bandwidth saving features like Smart codec
- Supported alarms from 35 Series Cameras to NVR: Crowd, Multi Loitering, Intrusion, Tampering, Motion and Smart Motion Detection (SMD)
- Two-way audio/push notification

DYNAMIC, ACCESSIBLE MONITORING

- Global P2P Service with reliable connection anytime, anywhere
- Mobile apps provide anytime, anywhere access for both Apple® and Android™ devices

FEATURES

- HDMI/VGA simultaneous video output
- USB ports support Keyboard and Mouse
- Supports up to 4/8 alarm input channels and 1/2 alarm relay output channels
- 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

SECURE AND COMPLIANT SOLUTION

- For use as part of video systems which comply with NDAA Section 889
- Together with 35 series cameras, provides an end-to-end encrypted solution, with video streaming encrypted from 35 cameras to NVR, and video streaming/control encrypted between NVR and web client/viewer/mobile app
- PCI-DSS compliance

CONVENIENT, FLEXIBLE STORAGE OPTIONS

- Internal storage supports 2 HDDs expandable up to 20 TB (10 TB per drive)
- Store video clips and snapshots to external storage, such as USB device on local side or PC client on web side

EASY TO SETUP AND USE

- Plug and play feature together with 35 Series cameras for rapid and simple setup
- All channels PoE, making it easy to use while also reducing total cost of ownership
- Intuitive NVR design, quick installation wizard and easy-to-understand installation guide for fast and easy setup

35 SERIES - HN35 4 / 8 / 16 CH 4K EMBEDDED NVR

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	HN350401xx: No HN350802xx/HN351602xx: Yes
Security	Encrypted streaming and control
VIDEO	
Inputs	HN350401xx: 4 channels HN350802xx: 8 channels HN351602xx: 16 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 x 1 (4K Max), VGA x 1 (1080 P)
Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1024 x 768
Display Split	HN350401xx: 1 x 1, 2 x 2, customs HN350802xx: 1 x 1, 2 x 2, 3 x 3, 1 + 7, customs HN351602xx: 1 x 1, 2 x 2, 3 x 3, 4 x 4, 1 + 7, customs
OSD	Time OSD, channel OSD
Stream Application	HN350401xx: 1x1: 1 ch 4 K MAX 2x2: 2 MP in, 4x1080 P 2x2: >2 MP, Camera Stream 2 HN350802xx: 1x1: 1 ch 4 K MAX 2x2: 2 MP in, 4x1080 P 2x2: >2 MP, Camera Stream 2 3x3: Camera Stream 2 HN351602xx: 1x1: 1 ch 4 K MAX 2x2: 2 MP in, 4x1080 P 2x2: >2 MP, Camera Stream 2 3x3: and above: Camera Stream 2
PTZ Operation	Direction control, home, iris, preset, patrol
VIDEO DETECTION AND ALARMS	
Event	Camera: Camera Alarm In, Motion Detection, Camera Disconnection, Tampering Detection, Smart Motion Detection, Intrusion, Crowd Detection, Multi-Loitering System; System Alarm In/Out, Disk Failure, Disk Full
Event Action	Video Recording, Send Email, Buzzer, FTP, Camera Alarm Out, PTZ-Preset, System Alarm Out, Send Video to Full Screen
Alarm Input	HN350401xx: 4 HN350802xx/HN351602xx: 8
Alarm Out	HN350401xx/HN350802xx: 1 HN351602xx: 2
RECORDING	
Compression	H.265 HEVC smart codec/H.264
Resolution	Up to 3840 x 2160
Frame Rate	30 fps
Recording Mode	Continuous, Manual, Event
Max Pre-Event Recording Buffer Size	HN350401xx: Main Stream: 10 Mbps Sub Stream: 6 Mbps HN350802xx/HN351602xx: Main Stream: 8 Mbps Sub Stream: 4 Mbps
Post-Event Recording Interval	30 s (Max. 60 s)
Recording Stream	Support main stream and sub stream simultaneous recording
Recording Throughput	HN350401xx/HN350802xx: 64 Mbps HN351602xx: 128 Mbps
STORAGE	
Internal HDD Slots	HN350401xx: Internal x1 (3.5") HN350802xx/HN351602xx: Internal x2 (3.5")
HDD Max. Capacity	10 TB
Manual Backup	USB Dongle (FAT Format)
PLAYBACK AND BACKUP	
Sync Playback	HN350401xx: 4 channels HN350802xx: 8 channels HN351602xx: 16 channels
Decoding	HN350401xx: H.265/H.264: 3840 X 2160 @ 30 fps (1-CH), 2560 * 1920 @ 30 fps (1-CH), 1920 X 1080 @ 120 fps (4-CH) HN350802xx: H.265/H.264: 3840 X 2160 @ 30 fps (1-CH), 2560 * 1920 @ 30 fps (1-CH), 1920 X 1080 @ 120 fps (4-CH), 720 X 576 @ 240 fps (8-CH) HN351602xx: H.265/H.264: 3840 X 2160 @ 30 fps (1-CH), 2560 * 1920 @ 30 fps (1-CH), 1920 X 1080 @ 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	JPEG
ENVIRONMENTAL	
Operating Temperature	-10°C ~ 55°C (14°F ~ 131°F)
Relative Humidity	Less than 90% RH
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
ELECTRICAL	
Power Supply	100-240V AC, 50/60 Hz
Power Consumption	HN350401xx: Max. 65 W; 15W without HDD PoE Ports Output Power: 45W max. (30W max. for a single port) HN350802xx/HN351602xx: Max. 180 W; 15W without HDD PoE Ports Output Power: 130W max. (30W max. for a single port)
NETWORK	
Ethernet	HN350401xx: 10/100 Mbps Ethernet (RJ-45) x 1 HN350802xx/HN351602xx: 10/100/1000 Mbps Ethernet (RJ-45) x 1
PoE	HN350401xx: 802.3at/af compliant PoE ports x 4 HN350802xx: 802.3at/af compliant PoE ports x 8 HN351602xx: 802.3at/af compliant PoE ports x 16
Supported Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter, P2P
Maximum Number of Users	16
Network Throughput	HN350401xx/HN350802xx: 64 Mbps HN351602xx: 128 Mbps
Smart Phone Compatibility	iOS 11 or later and Android 5.0 or later support
Browsers	Edge, Chrome, Firefox, Safari

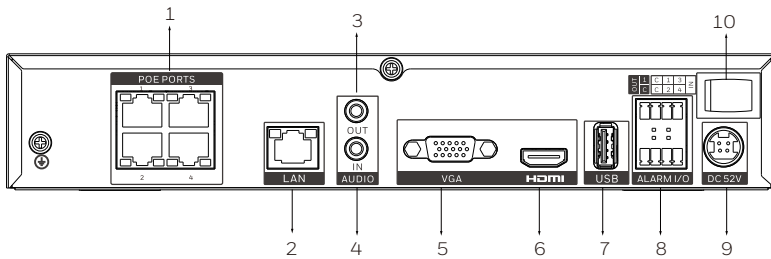
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AUXILIARY INTERFACE	
USB Ports	HN350401xx/HN350802xx/HN351602xx: Front x2, usb 2.0; Back x1, usb 2.0
PHYSICAL	
Dimensions	HN350401xx: 255.0 × 237.3 × 45.3 mm (10.04 × 9.34 × 1.78 inch) HN350802xx/HN351602xx: 372.0 × 313.3 × 46.5 mm (14.65 × 12.33 × 1.83 inch)
Weight (Without HDD)	HN350401xx: 1 kg (2.20 lb) without HDD HN350802xx: 2.65 kg (5.84 lb) without HDD HN351602xx: 2.75 kg (6.05 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 55024, 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)

RECOMMENDED CAMERAS	
Fixed Dome Camera	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

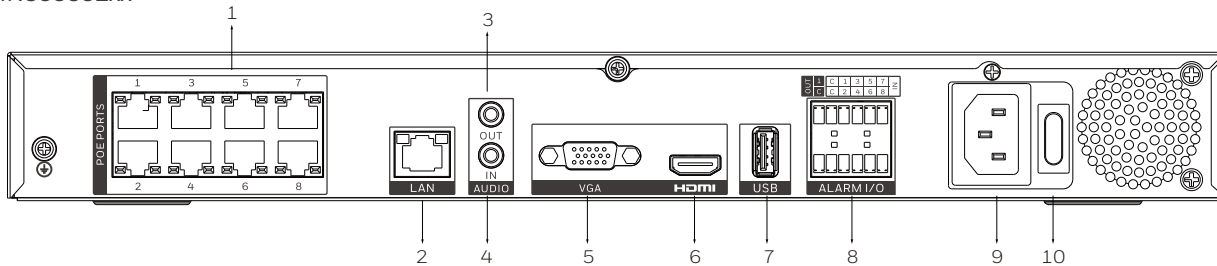
SYSTEM DIAGRAM

HN350401xx



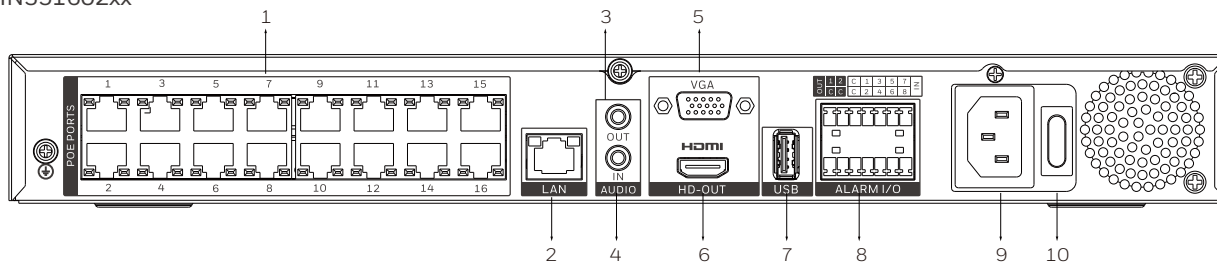
1. PoE Ports 2. LAN Port 3. Audio Out 4. Audio In 5. VGA Port 6. HDMI Port 7. USB Port 8. Alarm Input/Output 9. DC 52V Power Input 10. Power Switch

HN350802xx



1. PoE Ports 2. LAN Port 3. Audio Out 4. Audio In 5. VGA Port 6. HDMI Port 7. USB Port 8. Alarm Input/Output 9. Power Input 10. Power Switch

HN351602xx

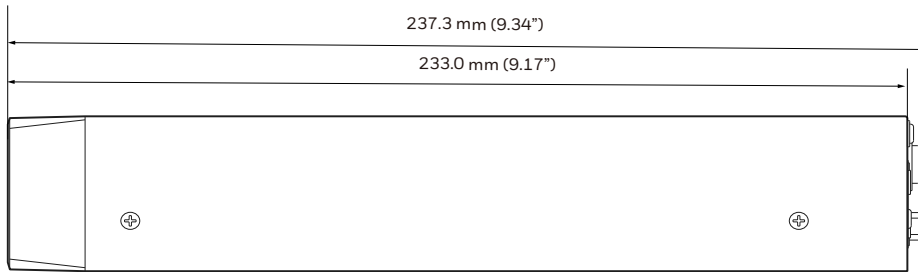
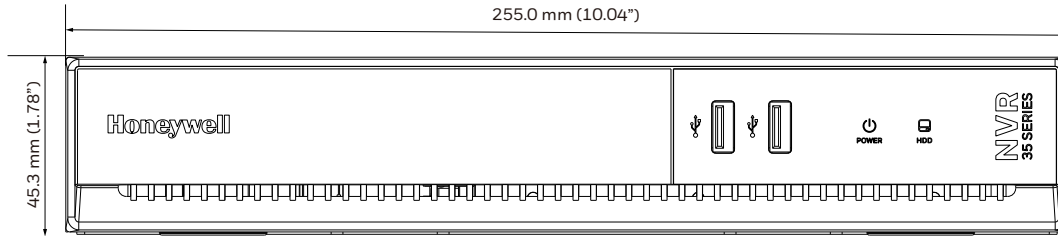


1. PoE Ports 2. LAN Port 3. Audio Out 4. Audio In 5. VGA Port 6. HDMI Port 7. USB Port 8. Alarm Input/Output 9. Power Input 10. Power Switch

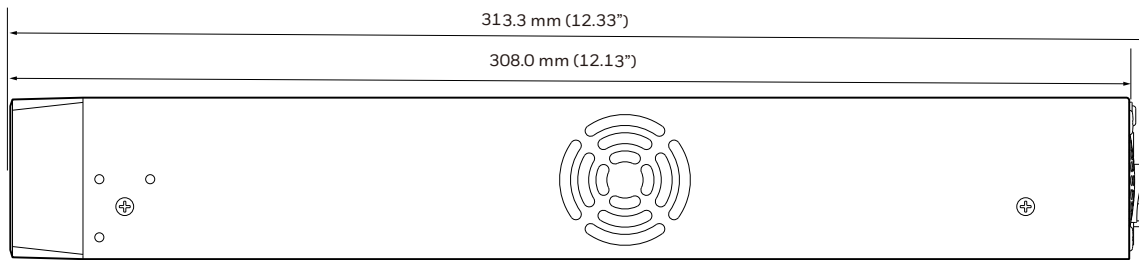
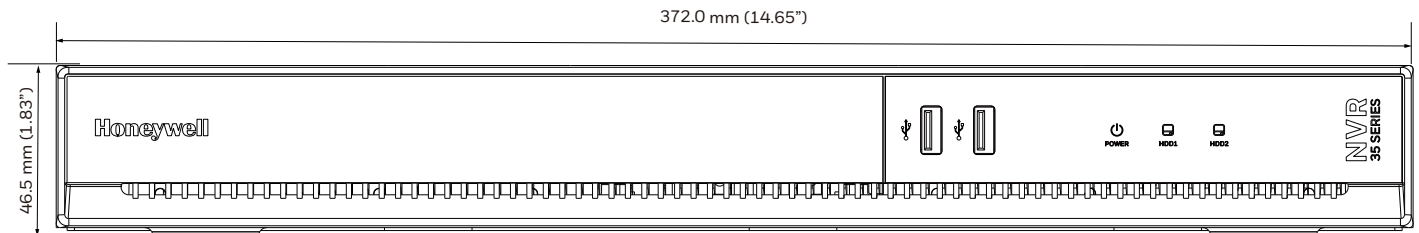
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DIMENSIONS

HN350401xx

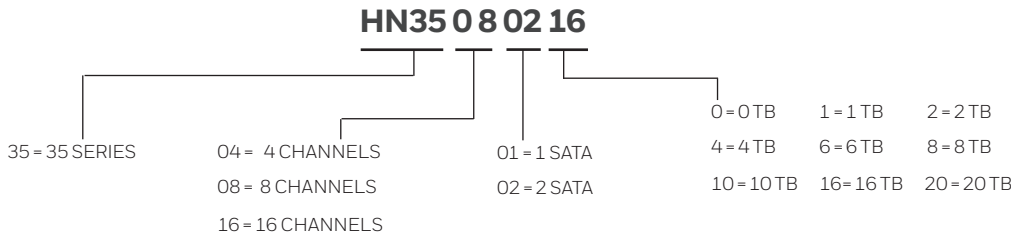


HN350802xx/HN351602xx



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PART NUMBER LOOKUP



ORDERING

MODEL	DESCRIPTION
HN35 - 4/ 8 / 16 CH	
HN35040100	4 Chs NVR 4k Support, H.265/H.264, 4 Chs PoE, Stream Encryption, 0 TB, 1SATA
HN35040101	4 Chs NVR 4k Support, H.265/H.264, 4 Chs PoE, Stream Encryption, 1 TB, 1SATA
HN35040102	4 Chs NVR 4k Support, H.265/H.264, 4 Chs PoE, Stream Encryption, 2 TB, 1SATA
HN35040104	4 Chs NVR 4k Support, H.265/H.264, 4 Chs PoE, Stream Encryption, 4 TB, 1SATA
HN35040106	4 Chs NVR 4k Support, H.265/H.264, 4 Chs PoE, Stream Encryption, 6 TB, 1SATA
HN35040108	4 Chs NVR 4k Support, H.265/H.264, 4 Chs PoE, Stream Encryption, 8 TB, 1SATA
HN35040110	4 Chs NVR 4k Support, H.265/H.264, 4 Chs PoE, Stream Encryption, 10 TB, 1SATA
HN35080200	8 Chs NVR 4K Support, H.265/H.264, 8 Chs PoE, Stream Encryption, 0 TB, 2SATA
HN35080202	8 Chs NVR 4K Support, H.265/H.264, 8 Chs PoE, Stream Encryption, 2 TB, 2SATA
HN35080204	8 Chs NVR 4K Support, H.265/H.264, 8 Chs PoE, Stream Encryption, 4 TB, 2SATA
HN35080208	8 Chs NVR 4K Support, H.265/H.264, 8 Chs PoE, Stream Encryption, 8 TB, 2SATA
HN35080210	8 Chs NVR 4K Support, H.265/H.264, 8 Chs PoE, Stream Encryption, 10 TB, 2SATA
HN35080216	8 Chs NVR 4K Support, H.265/H.264, 8 Chs PoE, Stream Encryption, 16 TB, 2SATA
HN35160200	16 Chs NVR 4K Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 0 TB, 2SATA
HN35160204	16 Chs NVR 4K Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 4 TB, 2SATA
HN35160208	16 Chs NVR 4K Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 8 TB, 2SATA
HN35160210	16 Chs NVR 4K Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 10TB, 2SATA
HN35160216	16 Chs NVR 4K Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 16 TB, 2SATA
HN35160220	16 Chs NVR 4K Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 20 TB, 2SATA

For more information:

buildings.honeywell.com/security

Honeywell Commercial Security

715 Peachtree St. NE

Atlanta, GA 30308

1.800.323.4576

www.honeywell.com



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