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 18 TB (per drive) 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
- Multiple de-warping options of Honeywell fisheye camera video on NVR web UI, Honeywell Smart Viewer (HSV) and HSV Mobile App
- Together with 35 series cameras, offering bandwidth saving features like Smart codec
- Notifications from expanded video analytics on 35 Series cameras
- Two-way audio/push notification
- Supports integration with Maxpro VMS

DYNAMIC, ACCESSIBLE MONITORING

- Global P2P Service with reliable connection anytime, anywhere
- Mobile apps provide anytime, anywhere access for both Apple® and Android™ devices
- Video Analytics (VA) search based on object type (person, vehicle)

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 TLS1.2 & TLS1.3, video streaming and 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 18 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

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
- Supports recording a video clip of events for distribution

Honeywell

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 log, Event log, Operation log
Date & Time	Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time
Fan	**HN350401xx:** No **HN350802xx/HN351602xx:** 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
HDD Key Lock	Supported encryption on HDD (optional)
Easy configuration	P2P (QR code)
On-Board Reset	Yes
SDK	Available (Post Signing NDA)

VIDEO	
Inputs	**HN350401xx:** 4 channels **HN350802xx:** 8 channels **HN351602xx:** 16 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 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, channel name, customized label description for OSD
Privacy Mask	Up to 4 areas
Stream Application	**HN350401xx:** 1 x 1: 1ch 4K MAX, 2 x 2: 4ch 2MP **HN350802xx:** 1 x 1: 1ch 4K MAX, 2 x 2: 4ch 2MP 3 x 3: 8ch D1 **HN351602xx:** 1 x 1: 1ch 4K MAX, 2 x 2: 4ch 2MP 4 x 4: 16ch D1
Fisheye Dewarp	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 3840 x 2160
Frame Rate	30 fps
Recording Mode	Continuous, Manual, Event
Pre-Event Recording Interval	**HN350401xx:** Main Stream: 1.25 Mbps Sub Stream: 0.75 Mbps **HN350802xx/HN351602xx:** Main Stream: 1 Mbps Sub Stream: 0.5 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	**HN350401xx/HN350802xx:** 64 Mbps **HN351602xx:** 128 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**: System alarm in/out, IP conflict, Network disconnected, No disk, Disk error, Disk full, NAS offline, Auto backup failed, People counter(NVR)
Event Action	Video recording, Send email, Buzzer, FTP, Camera alarm out, PTZ-preset, System alarm out, Send video to full screen, Pop up message to monitor, Push message to App
Event Search	Support VA event search by object type (Human, Vehicle) 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	**HN350401xx:** 4 **HN350802xx/HN351602xx:** 8
Alarm Out	**HN350401xx/HN350802xx:** 1 **HN351602xx:** 2

STORAGE	
Internal HDD Slots	**HN350401xx:** Internal x 1 (3.5") **HN350802xx/HN351602xx:** Internal x 2 (3.5")
HDD Max. Capacity*	18 TB
Manual Backup	USB Dongle (FAT Format)
NAS	Directly recording, Auto backup

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 x 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 x 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 x 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	JPG

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, 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	**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

AUXILIARY INTERFACE	
USB Ports	Front x2, usb 2.0; Back x1, usb 2.0

ELECTRICAL	
Power Supply	100-240V AC, 50/60 Hz
Power Consumption	**HN350401xx:** Max. 65 W; 15W without HDD, Total PoE power consumption Max. 45W, 30 W for a single port **HN350802xx/HN351602xx:** Max. 180 W; 15W without HDD, Total PoE power consumption Max. 130 W, 30 W for a single port

*For detailed information about compatible HDDs, please refer to the user guide.

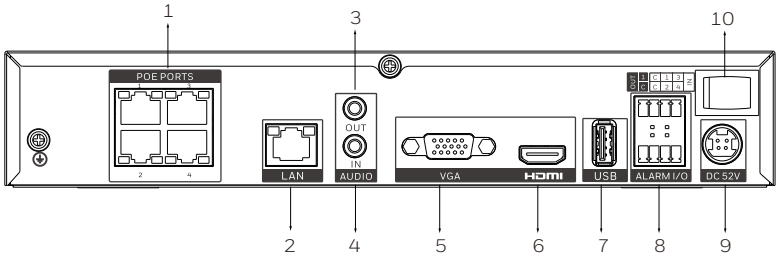
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ENVIRONMENTAL	
Operating Temperature	-10°C ~ 55°C (14°F ~ 131°F)
Relative Humidity	Less than 90% RH
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
PHYSICAL	
Dimensions	**HN350401xx:** 255.0 × 237.3 × 45.3 mm (10.04 × 9.34 × 1.78 inch) **HN350802xx/HN351602xx:** 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)
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

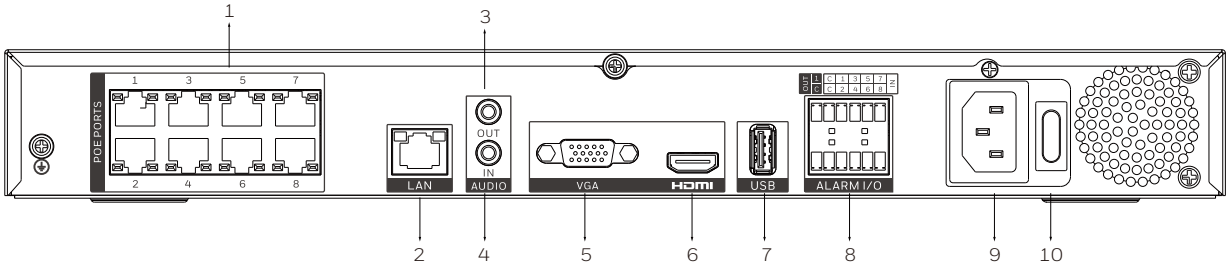
SYSTEM DIAGRAM

HN350401xx



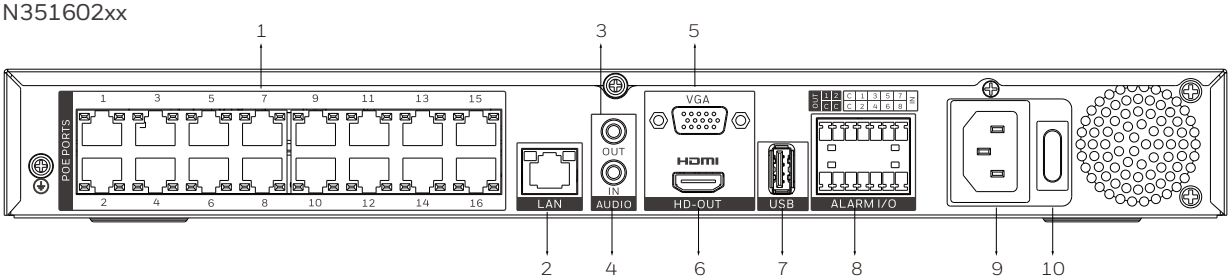
1. PoE Ports 2. LAN Port 3. Audio Out 4. Audio In 5. VGA Port 6. HDMI Port 7. USB Port 8. Alarm Input/Output 9. DC 52V Power Input 10. Power Switch

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

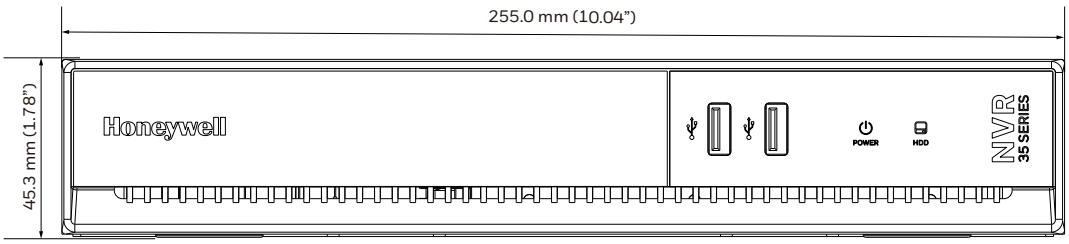


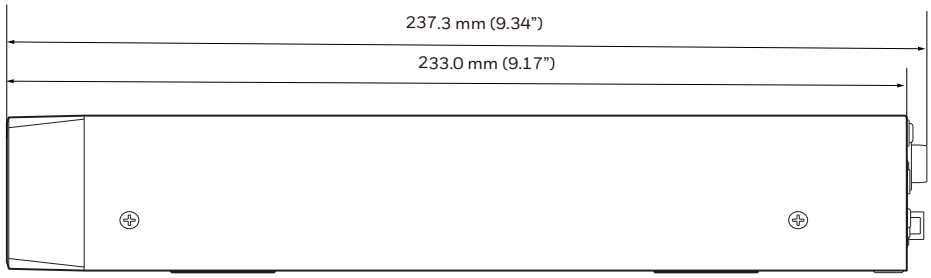
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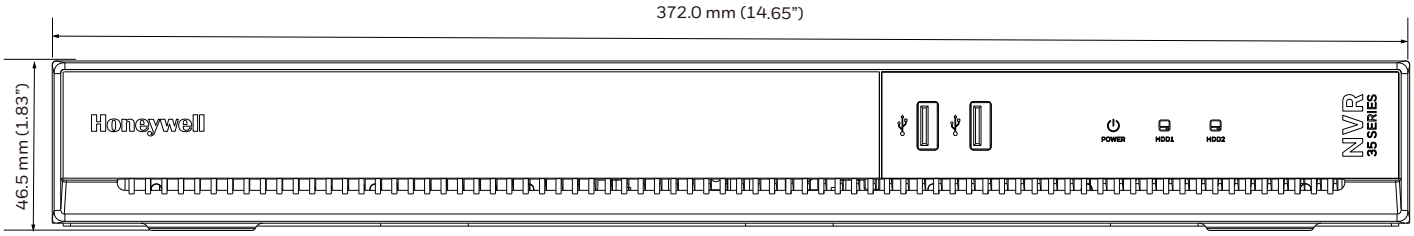
DIMENSIONS

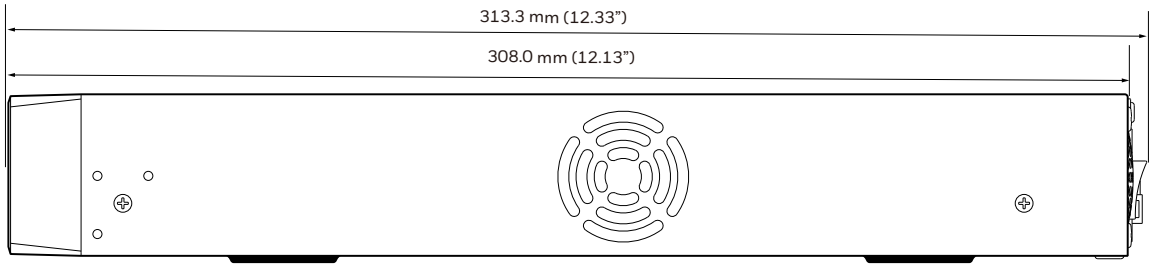
HN350401xx





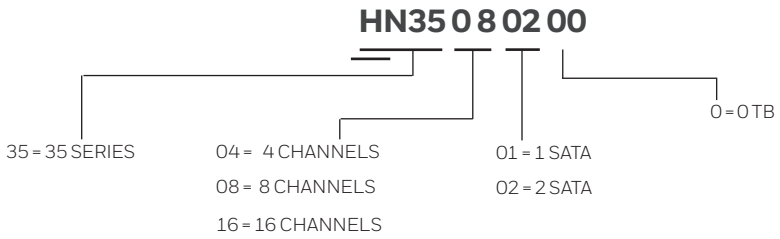
HN350802xx/HN351602xx





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

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, 1 SATA
HN35080200	8 Chs NVR 4K Support, H.265/H.264, 8 Chs PoE, Stream Encryption, 0 TB, 2 SATA
HN35160200	16 Chs NVR 4K Support, H.265/H.264,16 Chs PoE, Stream Encryption, 0 TB, 2 SATA

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

*For detailed information about compatible HDDs, please refer to the user guide.

For More Information
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