35 SERIES
HN35 PLUS
HN35 PLUS CLOUD*

8* / 16* / 32 Ch 4K Embedded NVR

Introducing the Honeywell 35 Series HN35 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 8, 16, or 32 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.



HN350802xxC,HN351602xxC



HN353204xx

FULLY FEATURED NVRS

- View 1 to 32 channels simultaneously with synchronized real-time playback (depending on decoding capacity and recording resolution)
- Up to 12 MP Ultra HD (UHD) resolution live view and playback
- Supports H.265 HEVC, H.264, Smart Codec
- Multiple de-warping options of Honeywell fisheye camera video on NVR local & web UI, Honeywell Smart Viewer (HSV) and HSV Mobile App
- 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 and mobile apps for both Apple® and Android™ devices for anytime, anywhere access
- Elements or MAXPRO Cloud (MPC)* and P2P integration to manage remote viewing and alarm management
- Video Analytics (VA) search based on object type (person, vehicle)

CONVENIENT, FLEXIBLE STORAGE OPTIONS

- Internal storage supports 4 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
- Enhanced external recording and video clip storage: eSATA, NAS, local USB device, PC client on web side

CLOUD READY

- Integrated cloud security with Elements and MAXPRO Cloud for small, medium and Enterprise multi-site locations
- 8 or 16 Ch NDAA compliant NVRs with flexible storage options
- Remote firmware updates
- Monitor camera and NVR health status
- Push notifications of events from NVR
- Cloud storage for video event and alarms

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
- 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
- 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

* 8 / 16 Channels are Elements and MAXPRO Cloud Ready

HN35 PLUS, HN35 PLUS 8 / 16 / 32* 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	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	**HN350802xxC:** 8 channels **HN35160xxxC:** 16 channels **HN353204xx:** 32 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	**HN350802xxC/HN351602xxC:** HDMI x 1 (4 K Max), VGA x 1 (1080 P) **HN351604xxC/HN353204xx:** HDMI x 2 (only HDMI1 support 4 k), VGA x 1 (1080 P)
Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1024 x 768
Display Split	**HN350802xxC:** 1 x 1, 2 x 2, 3 x 3, 1 + 7, customs **HN35160xxxC:** 1 x 1, 2 x 2, 3 x 3, 4 x 4, 1 + 7, customs **HN353204xx:** 1 x 1, 2 x 2, 3 x 3, 4 x 4, 6 x 6, 1 + 7, 4 + 28, customs
OSD	Time, channel name, customized label description for OSD
Stream Application	**HN350802xxC:** 1 x 1: 1 ch 12 MP MAX, 2 x 2: 4 ch 4 MP, 3 x 3: 8 ch 2 MP **HN35160xxxC:** 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 **HN353204xx:** 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
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, 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	**HN350802xxC/HN35160xxxC:** Main stream: 4 Mbps, Sub stream: 0.5 Mbps **HN353204xx:** 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	**HN350802xxC:** 80 Mbps **HN35160xxxC:** 160 Mbps **HN353204xx:** 320 Mbps

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

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	6
Alarm Out	2
RS-485	Supported
RS-232	**HN350802xxC/HN351602xxC:** Not supported **HN351604xxC/HN353204xx:** Supported
e-SATA	Supported

STORAGE

Internal HDD Slots	**HN350802xxC/HN351602xxC:** Internal x 2 (3.5") **HN351604xxC/HN353204xx:** Internal x 4 (3.5")
HDD Max. Capacity*	18 TB
Manual Backup	USB Dongle (FAT Format)
NAS	Directly recording, Auto backup

PLAYBACK AND BACKUP

Sync Playback	**HN350802xxC:** 8 channels **HN35160xxxC/HN353204xx:** 16 channels
Decoding	**HN350802xxC:** H.265/H.264: 4000 x 3000 @ 30 fps (1-CH), 2592 x 1520 @ 120 fps(4-CH), 1920 x 1080 @ 240 fps (8-CH) **HN35160xxxC:** H.265/H.264: 4000 x 3000 @ 30 fps (1-CH), 2592 x 1520 @ 120 fps(4-CH), 1920 x 1080 @ 270 fps (9-CH), 720 x 576 @ 480 fps (16-CH) **HN353204xx:** H.265/H.264: 4000 x 3000 @ 30 fps (1-CH), 2592 x 1520 @ 120 fps(4-CH), 1920 x 1080 @ 270 fps (9-CH), 720 x 576 @ 960 fps (32-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, Audio, Snapshot, Back up
Snapshot	JPEG

NETWORK

Ethernet	10/100/1000Mbps Ethernet (RJ-45) x 2
PoE	**HN350802xxC:** 802.3at/af compliant PoE ports x 8 **HN35160xxxC/HN353204xx:** 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	**HN350802xxC:** 80 Mbps **HN35160xxxC:** 160 Mbps **HN353204xx:** 320 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, USB2.0; Back x1, USB3.0
Maximum Number of Users	16

ELECTRICAL

Power Supply	100-240V AC, 50/60 Hz
Power Consumption	**HN350802xxC/HN351602xxC:** Max. 180 W; 15 W without HDD PoE Ports Output Power: 130W max. (30 W max. for a single port) **HN351604xxC/HN353204xx:** Max. 300 W; 15 W without HDD PoE Ports Output Power: 140W max. (30 W max. for a single port)

HN35 PLUS, HN35 PLUS 8 / 16 / 32* CH 4K EMBEDDED NVR
TECHNICAL SPECIFICATIONS & SYSTEM DIAGRAM

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)

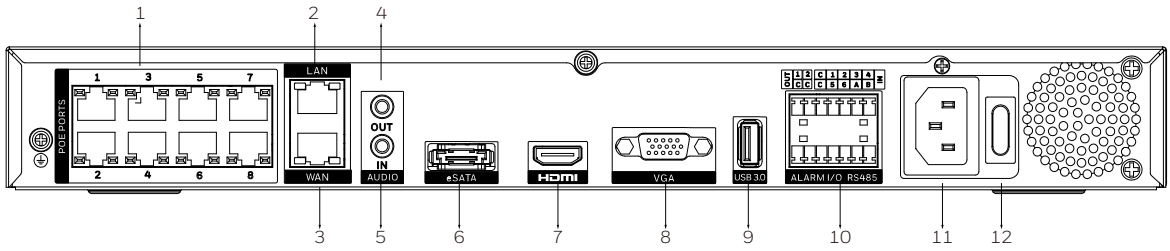
PHYSICAL	
Dimensions	**HN350802xxC/HN351602xxC:** 372.0 × 313.3 × 46.5 mm (14.65 × 12.33 × 1.83 inch) **HN351604xxC/HN353204xx:** 440.0 × 376.2 × 70.0 mm (17.32 × 14.81 × 2.76 inch)
Weight (Without HDD)	**HN350802xxC:** 2.1 kg (4.63 lb) without HDD **HN351602xxC:** 2.75 kg (6.05 lb) without HDD **HN351604xxC/HN353204xx:** 4.65 kg (10.25 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, 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

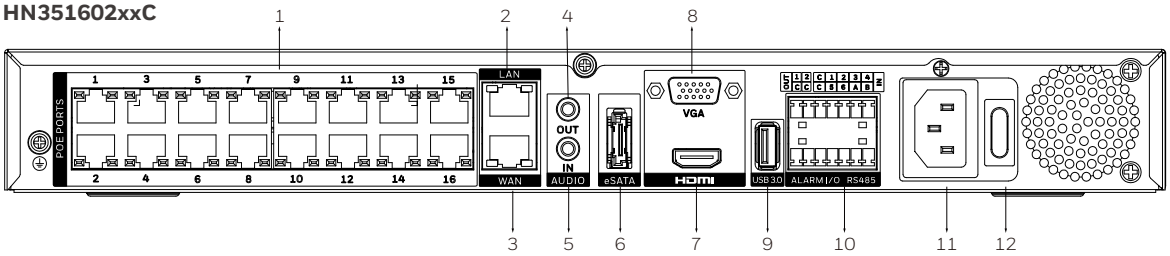
SYSTEM DIAGRAM

HN350802xxC



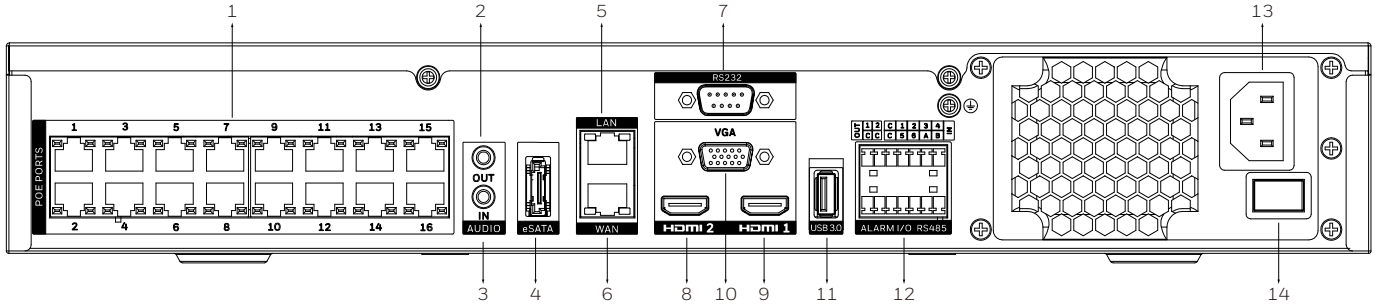
1. PoE Ports 2. LAN Port 3. WAN Port 4. Audio Out 5. Audio In 6. eSATA Port 7. HDMI Port 8. VGA Port 9. USB Port 10. Alarm Input/Output
11. Power Input 12. Power Switch

HN351602xxC



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

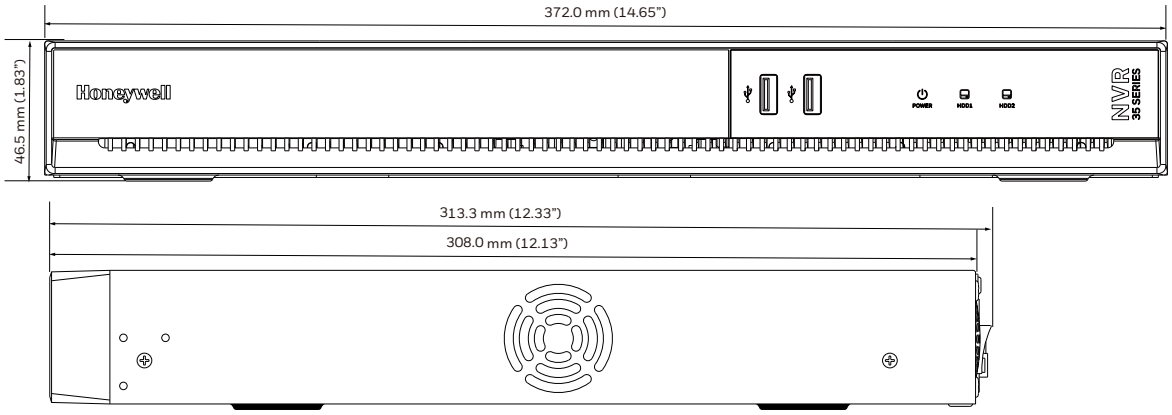
HN351604xxC/HN353204xx



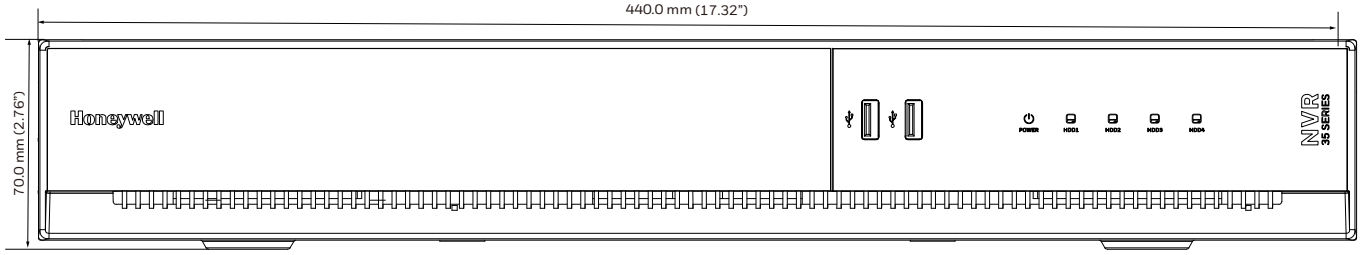
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13. Power Input 14. Power Switch

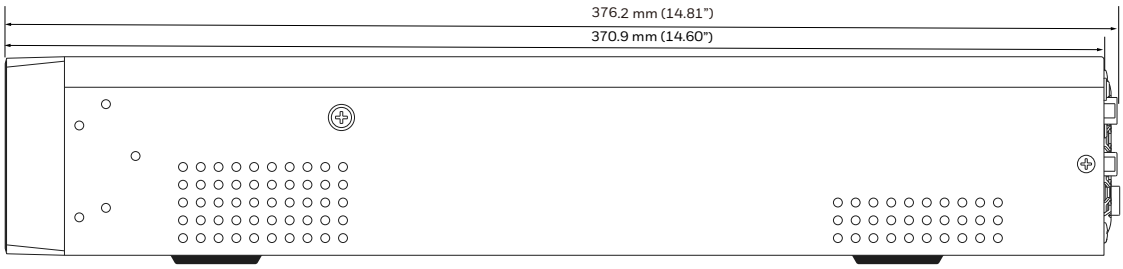
HN35 PLUS, HN35 PLUS 8 / 16 / 32* CH 4K EMBEDDED NVR
DIMENSIONS

HN350802xxC/HN351602xxC



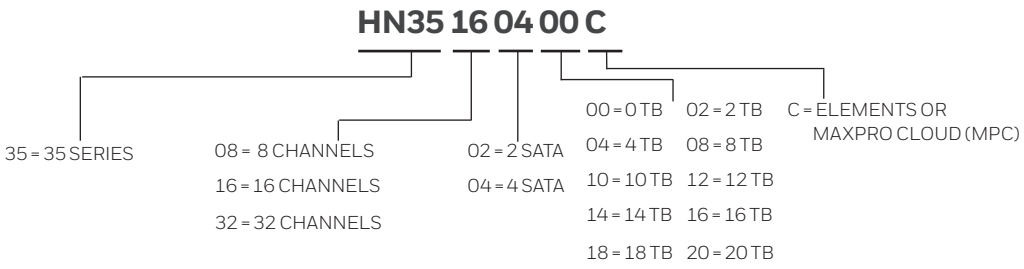
HN351604xxC/HN353204xx





HN35 PLUS, HN35 PLUS 8 / 16 / 32* CH 4K EMBEDDED NVR
ORDERING INFORMATION

PART NUMBER LOOKUP



ORDERING

MODEL	DESCRIPTION
HN35 PLUS (C) CLOUD - 8/16 CH	
HN35080200C	8 Chs NVR, PoE, 0 TB, 2 SATA, Cloud
HN35080202C	8 Chs NVR, PoE, 2 TB (1 x 2 TB), 2 SATA, Cloud
HN35080204C	8 Chs NVR, PoE, 4 TB (1 x 4 TB), 2 SATA, Cloud
HN35080208C	8 Chs NVR, PoE, 8 TB (1 x 8 TB), 2 SATA, Cloud
HN35080210C	8 Chs NVR, PoE, 10 TB (1 x 10 TB), 2 SATA, Cloud
HN35080212C	8 Chs NVR, PoE, 12 TB (1 x 12 TB), 2 SATA, Cloud
HN35080214C	8 Chs NVR, PoE, 14 TB (1 x 14 TB), 2 SATA, Cloud
HN35080216C	8 Chs NVR, PoE, 16 TB (2 x 8 TB), 2 SATA, Cloud
HN35080218C	8 Chs NVR, PoE, 18 TB (1 x 18 TB), 2 SATA, Cloud
HN35160200C	16 Chs NVR, PoE, 0 TB, 2 SATA, Cloud
HN35160204C	16 Chs NVR, PoE, 4 TB (1 x 4 TB), 2 SATA, Cloud
HN35160208C	16 Chs NVR, PoE, 8 TB (1 x 8 TB), 2 SATA, Cloud
HN35160210C	16 Chs NVR, PoE, 10 TB (1 x 10 TB), 2 SATA, Cloud
HN35160212C	16 Chs NVR, PoE, 12 TB (1 x 12 TB), 2 SATA, Cloud
HN35160214C	16 Chs NVR, PoE, 14 TB (1 x 14 TB), 2 SATA, Cloud
HN35160216C	16 Chs NVR, PoE, 16 TB (2 x 8 TB), 2 SATA, Cloud
HN35160218C	16 Chs NVR, PoE, 18 TB (1 x 18 TB), 2 SATA, Cloud
HN35160220C	16 Chs NVR, PoE, 20 TB (2 x 10 TB), 2 SATA, Cloud
HN35160400C	16 Chs NVR, PoE, 0 TB, 4 SATA, Cloud
HN35160404C	16 Chs NVR, PoE, 4 TB (1 x 4 TB), 4 SATA, Cloud
HN35160408C	16 Chs NVR, PoE, 8 TB (1 x 8 TB), 4 SATA, Cloud
HN35160410C	16 Chs NVR, PoE, 10 TB (1 x 10 TB), 4 SATA, Cloud
HN35160412C	16 Chs NVR, PoE, 12 TB (1 x 12 TB), 4 SATA, Cloud
HN35160414C	16 Chs NVR, PoE, 14 TB (1 x 14 TB), 4 SATA, Cloud
HN35160416C	16 Chs NVR, PoE, 16 TB (2 x 8 TB), 4 SATA, Cloud
HN35160418C	16 Chs NVR, PoE, 18 TB (1 x 18 TB), 4 SATA, Cloud
HN35160420C	16 Chs NVR, PoE, 20 TB (2 x 10 TB), 4 SATA, Cloud

MODEL	DESCRIPTION
HN35 PLUS - 32 CH	
HN35320400	32 Chs NVR, 16 Chs PoE, 0 TB, 4 SATA
HN35320404	32 CHS NVR, 16 CHS POE, 4 TB (1 X 4 TB), 4 SATA
HN35320408	32 CHS NVR, 16 CHS POE, 8 TB (1 X 8 TB), 4 SATA
HN35320410	32 CHS NVR, 16 CHS POE, 10 TB (1 X 10 TB), 4 SATA
HN35320412	32 CHS NVR, 16 CHS POE, 12 TB (1 X 12 TB), 4 SATA
HN35320414	32 CHS NVR, 16 CHS POE, 14 TB (1 X 14 TB), 4 SATA
HN35320416	32 CHS NVR, 16 CHS POE, 16 TB (2 X 8 TB), 4 SATA
HN35320418	32 CHS NVR, 16 CHS POE, 18 TB (1 X 18 TB), 4 SATA
HN35320420	32 CHS NVR, 16 CHS POE, 20 TB (2 X 10 TB), 4 SATA

HN35 Surveillance Hard Disk Drive*

MODEL	DESCRIPTION
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 detailed information about compatible HDDs, please refer to the HDD Compatibility Matrix.

For More Information
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