

# 35 SERIES

## HN35 & HN35 PLUS

### 4 / 8 / 16 / 32 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, 16 or 32 channel NVR with multiple hard drive options and up to 20TB (2 bays) or 40TB (4 bays) 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 smart codec/H.264
- 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: Tampering, Intrusion, Crowd Detection, Multi-Loitering
- Two way audio/push notification for incident management

#### DYNAMIC, ACCESSIBLE MONITORING

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

#### 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 2/4 HDDs expandable up to 20/40 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
- Intuitive NVR design, quick installation wizard and easy-to-understand installation guide for fast and easy setup

## FEATURES

- 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

**Honeywell**

# HN35 & HN35 PLUS 4 / 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, Operator, Media user                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Log                           | System log, Event log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Date & Time                   | Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Fan                           | HN35040100N/HN35080100N/HN35160200N: No<br>HN35320400N: Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Security Streaming Encryption | Yes in HN35040100N, HN35080100N, HN35160200N, HN35320400N                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Security Chipset              | Yes in HN35320400N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VIDEO                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Inputs                        | HN35040100N: 4 channels<br>HN35080100N: 8 channels<br>HN35160200N: 16 channels<br>HN35320400N: 32 channels                                                                                                                                                                                                                                                                                                                                                                                                      |
| AUDIO                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Audio Input/Output            | 3.5 mm Line in x1<br>3.5 mm Line out x1                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Two-way Communication         | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Audio Format                  | G.711                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DISPLAY                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Interface                     | HN35040100N/HN35080100N/HN35160200N: HDMI x 1 (4K Max), VGA x1 (1080P)<br>HN35320400N: HDMI x 2 (only HDMI1 support 4k), VGA x 1 (1080P)                                                                                                                                                                                                                                                                                                                                                                        |
| Resolution                    | 3840 x 2160, 1920 x 1080, 1280 x 1024, 1024 x 768                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Display Split                 | HN35040100N: 1 x 1, 2 x 2, customs<br>HN35080100N: 1 x 1, 2 x 2, 3 x 3, 1 + 7, customs<br>HN35160200N: 1 x 1, 2 x 2, 3 x 3, 4 x 4, 1 + 7, customs<br>HN35320400N: 1 x 1, 2 x 2, 3 x 3, 4 x 4, 6 x 6, 1+7, 4+28, customs                                                                                                                                                                                                                                                                                         |
| OSD                           | camera title, time, custom OSD, PTZ position                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Stream Application            | HN35040100N:<br>1x1: 1ch 4K MAX    2x2: 2MP in, 4x1080P    2x2: >2MP, Camera Stream 2<br>HN35080100N:<br>1x1: 1ch 4K MAX    2x2: 2MP in, 4x1080P    2x2: >2MP, Camera Stream 2<br>3x3: Camera Stream 2<br>HN35160200N:<br>1x1: 1ch 4K MAX    2x2: 2MP in, 4x1080P    2x2: >2MP, Camera Stream 2<br>3x3: and above: Camera Stream 2<br>HN35320400N:<br>1x1: 1ch 12MP MAX    2x2: 4ch 4MP    3x3: 9ch 2MP    6x6: 32ch D1                                                                                         |
| PTZ Operation                 | Direction control, Home, Iris, Preset, Patrol (group), Focus +/- Zoom+/-                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| VIDEO DETECTION AND ALARMS    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Event                         | HN35040100N/HN35080100N/HN35160200N:<br>Camera: Camera Alarm In, Motion Detection, Camera Disconnection, Tampering Detection, Smart Motion Detection, Intrusion, Crowd Detection, Multi-Loitering<br>System: System Alarm In/Out, Disk Failure, Disk Full<br>HN35320400N:<br>Camera: Camera Alarm In, (Smart) Motion Detection, Video Loss, Camera Tamper, Intrusion, Multi Loitering, Crowd Detection<br>System: NVR Alarm In/Out, Disk Failure, Disk Full, IP Address Conflict, Network Disconnect, Intrusion |
| Event Action                  | Video recording, Push message to App, Pop up mesasge to monitor, Send email, Buzzer, FTP, PTZ-Preset, Full screen, Camera alarm out, System alarm out                                                                                                                                                                                                                                                                                                                                                           |
| Alarm Input                   | HN35040100N/HN35080100N: 4<br>HN35160200N: 8<br>HN35320400N: 16                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Alarm Out                     | HN35040100N/HN35080100N/HN35160200N: 1<br>HN35320400N: 4                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RS485                         | HN35040100N/HN35080100N/HN35160200N: Not Supported<br>HN35320400N: Supported                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RS232                         | HN35040100N/HN35080100N/HN35160200N: Not Supported<br>HN35320400N: Supported                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| e-SATA                        | HN35040100N/HN35080100N/HN35160200N: Not Supported<br>HN35320400N: Supported                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| RECORDING                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compression                         | HN35040100N/HN35080100N/HN35160200N: H.265 HEVC smart codec/H.264<br>HN35320400N: H.265/H.264                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Resolution                          | Up to 3840 x 2160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Frame Rate                          | 30 fps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Recording Mode                      | Continuous, Manual, Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Max Pre-Event Recording Buffer Size | HN35040100N:<br>Main Stream: 10 Mb<br>Sub Stream: 6 Mb<br>HN35080100N/HN35160200N/HN35320400N:<br>Main Stream: 8 Mb<br>Sub Stream: 4 Mb                                                                                                                                                                                                                                                                                                                                                                                                       |
| Post-Event Recording Interval       | 30 s (Max. 60 s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Recording Stream                    | Support main stream and sub stream simultaneous recording                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Recording Throughput                | HN35040100N/HN35080100N: 64 Mb<br>HN35160200N: 128 Mb<br>HN35320400N: 320 Mb                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| STORAGE                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Internal HDD                        | HN35040100N/HN35080100N: x1(3.5")<br>HN35160200N: Internal x2 (3.5")<br>HN35320400N: Internal x4 (3.5")                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| HDD Max. Capacity                   | 10 TB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Manual Backup                       | USB Dongle (FAT Format)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| PLAYBACK AND BACKUP                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sync Playback                       | HN35040100N: 4 channels<br>HN35080100N: 8 channels<br>HN35160200N/HN35320400N: 16 channels                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Decoding                            | HN35040100N:<br>H.265/H.264: 3840X2160 @ 30 fps (1-CH), 2560*1920 @ 30 fps(1-CH), 1920X1080 @ 120 fps (4-CH)<br>HN35080100N:<br>H.265/H.264: 3840X2160 @ 30 fps (1-CH), 2560*1920 @ 30 fps(1-CH), 1920X1080 @ 120 fps (4-CH), 720X576 @ 240 fps (8-CH)<br>HN35160200N:<br>H.265/H.264: 3840X2160 @ 30 fps (1-CH), 2560*1920 @ 30 fps(1-CH), 1920X1080 @ 120 fps (4-CH), 720X576 @ 480 fps (16-CH)<br>HN35320400N:<br>H.265/H.264: 3840X2160 @ 30 fps (1-CH), 2592X1520 @ 120 fps(4-CH), 1920X1080 @ 270 fps (9-CH), 720X576 @ 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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                   | HN35040100N/HN35080100N:<br>Max. 18 W;<br>5W without HDD<br>HN35160200N:<br>Max. 24 W;<br>5W without HDD<br>HN35320400N:<br>Max. 200 W;<br>15W without HDD                                                                                                                                                                                                                                                                                                                                                                                    |

# HN35 & HN35 PLUS 4 / 8 / 16 / 32 CH 4K EMBEDDED NVR

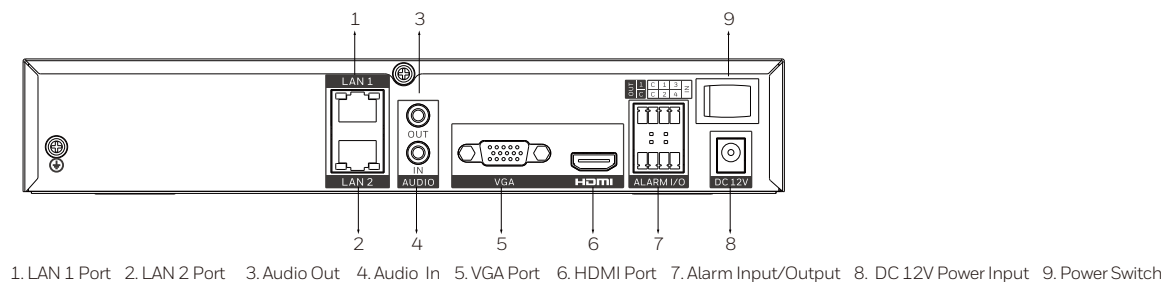
| NETWORK                   |                                                                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet                  | HN35040100N/HN35080100N: 10/100Mbps Ethernet (RJ-45) x 2<br>HN35160200N: 10/100/1000Mbps Ethernet (RJ-45) x 2<br>HN35320400N: 10/100/1000Mbps Ethernet (RJ-45) x 2                                                  |
| 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        | HN35040100N/HN35080100N: 64 Mb<br>HN35160200N: 128 Mb<br>HN35320400N: 320 Mb                                                                                                                                        |
| Smart Phone Compatibility | IOS 11 or later and Android 5.0 or later support                                                                                                                                                                    |
| Browsers                  | Edge, Chrome, Firefox, Safari                                                                                                                                                                                       |
| AUXILIARY INTERFACE       |                                                                                                                                                                                                                     |
| USB Ports                 | HN35040100N/HN35080100N/HN35160200N: Front x2, usb 2.0<br>HN35320400N: Front x2,usb2.0; Back x1                                                                                                                     |
| PHYSICAL                  |                                                                                                                                                                                                                     |
| Dimensions                | HN35040100N/HN35080100N: 255.0 × 237.3 × 45.3 mm (10.04 × 9.34 × 1.78 inch)<br>HN35160200N: 372.0 × 313.3 × 46.5 mm (14.65 × 12.33 × 1.83 inch)<br>HN35320400N: 440.0 × 376.2 × 70.0 mm (17.32 × 14.81 × 2.76 inch) |
| Weight (Without HDD)      | HN35040100N/HN35080100N: 0.8 kg (1.76 lb) without HDD<br>HN35160200N: 2.65 kg (5.84 lb) without HDD<br>HN35320400N: 4.5 kg (9.92 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)                                                          |

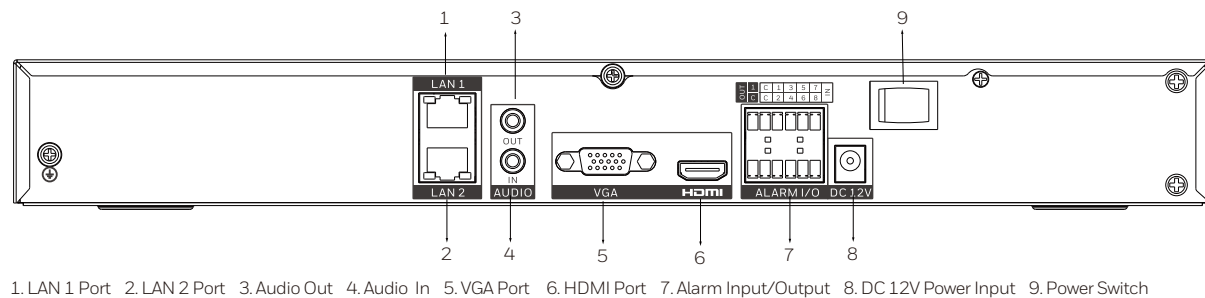
| RECOMMENDED CAMERAS     |                                 |
|-------------------------|---------------------------------|
| Fixed Dome Cameras      | HC35W43R3, HC35W45R3, HC35W48R3 |
| MFZ Dome Camera         | HC35W43R2, HC35W45R2, HC35W48R2 |
| Fixed Bullet Camera     | HC35WB3R3, HC35WB5R3, HC35WB8R3 |
| 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

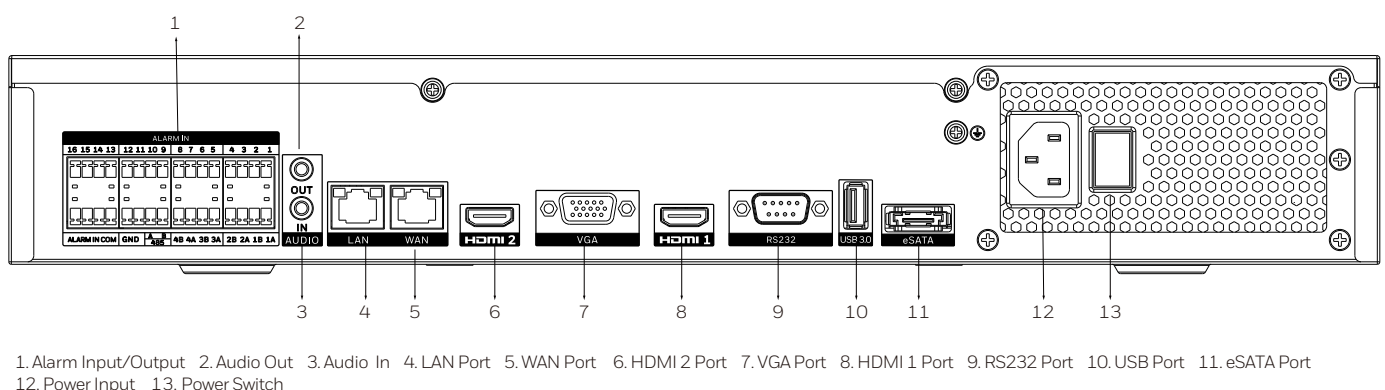
HN35040100N/HN35080100N



HN35160200N



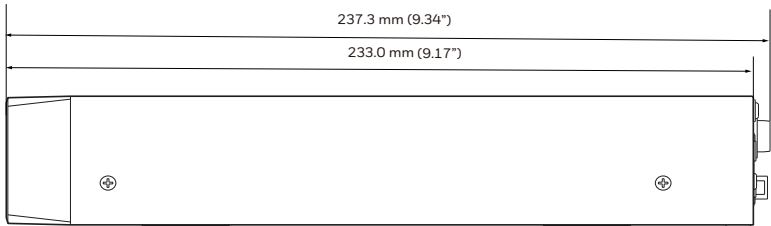
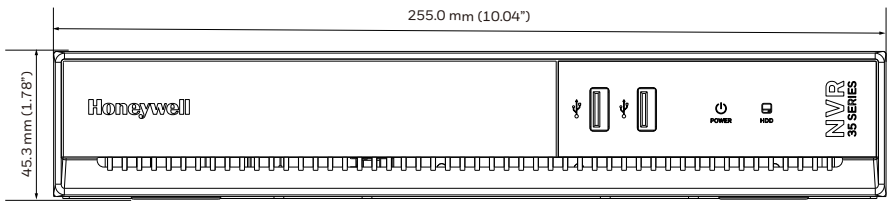
HN35320400N



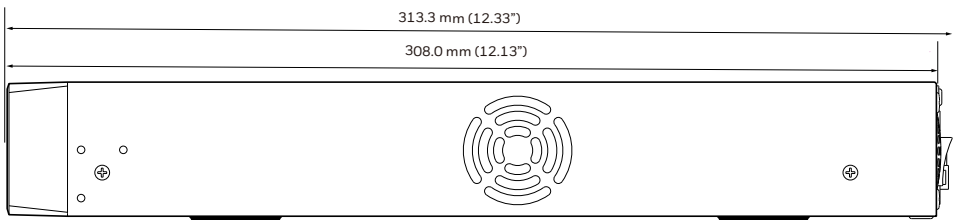
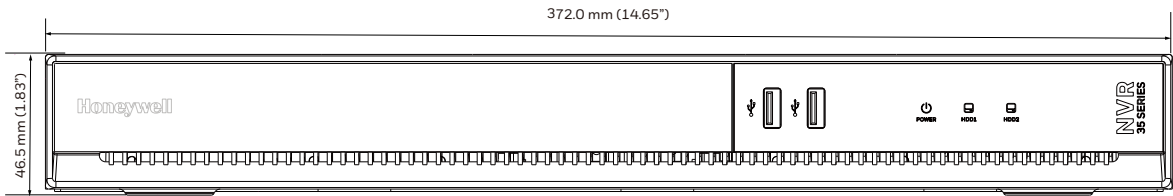
# HN35 & HN35 PLUS 4 / 8 / 16 / 32 CH 4K EMBEDDED NVR

## DIMENSIONS

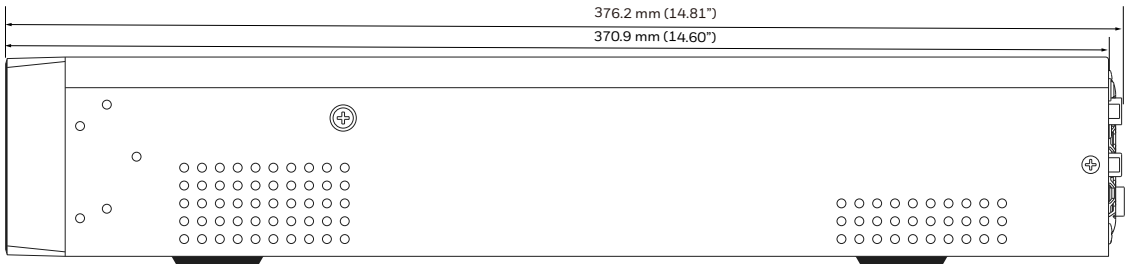
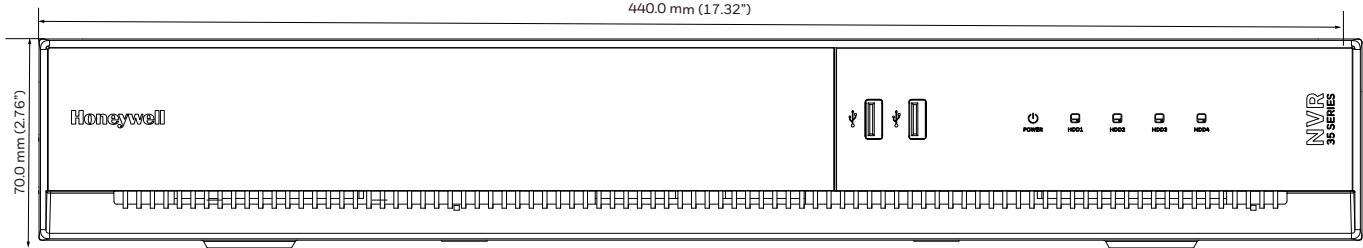
HN35040100N/HN35080100N



HN35160200N

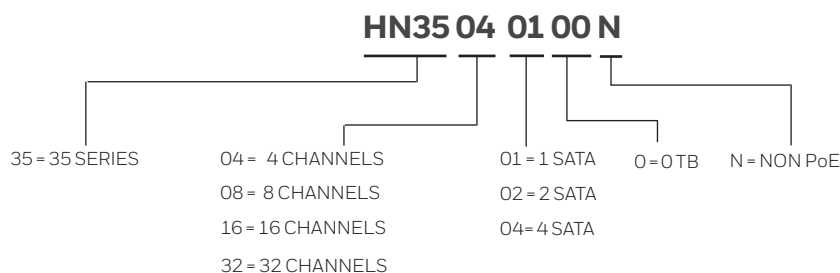


HN35320400N



# HN35 & HN35 PLUS 4 / 8 / 16 / 32 CH 4K EMBEDDED NVR

## PART NUMBER LOOKUP



## ORDERING

### HN35 - 4 / 8 / 16 CH

| MODEL       | DESCRIPTION                                                                  |
|-------------|------------------------------------------------------------------------------|
| HN35040100N | 4 Chs NVR 4k Support, H.265/H.264, Stream Encryption, 0 TB, 1 SATA, Non-PoE  |
| HN35080100N | 8 Chs NVR 4k Support, H.265/H.264, Stream Encryption, 0 TB, 1 SATA, Non-PoE  |
| HN35160200N | 16 Chs NVR 4k Support, H.265/H.264, Stream Encryption, 0 TB, 2 SATA, Non-PoE |
| HN35320400N | 32 Chs NVR 4k Support, H.265/H.264, Stream Encryption, 0 TB, 4 SATA, Non-PoE |

### For more information

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HEVC<sup>Advance™</sup>

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