

# 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

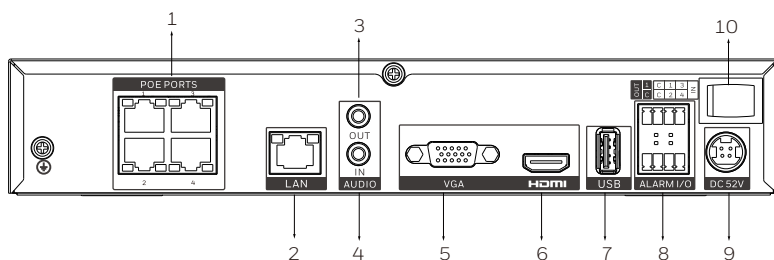
| SYSTEM                              |   |
|-------------------------------------|---|
| Main Processor                      | ARM Processor   |
| Operating System                    | Embedded LINUX  |
| ONVIF Compliance                    | ONVIF Profile S   |
| User Management                     | User Level: Administrator, Regular User   |
| Log                                 | System, Recording, User   |
| Date & Time                         | Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time   |
| Fan                                 | HN350401xx: No<br>HN350802xx/HN351602xx: Yes  |
| Security                            | Encrypted streaming and control   |
| VIDEO                               |   |
| Inputs                              | HN350401xx: 4 channels<br>HN350802xx: 8 channels<br>HN351602xx: 16 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                           | 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<br>HN350802xx: 1 x 1, 2 x 2, 3 x 3, 1 + 7, customs<br>HN351602xx: 1 x 1, 2 x 2, 3 x 3, 4 x 4, 1 + 7, customs  |
| OSD                                 | Time OSD, channel OSD   |
| Stream Application                  | HN350401xx:<br>1x1: 1 ch 4 K MAX 2x2: 2 MP in, 4x1080 P 2x2:>2 MP, Camera Stream 2<br>HN350802xx:<br>1x1: 1 ch 4 K MAX 2x2: 2 MP in, 4x1080 P 2x2:>2 MP, Camera Stream 2<br>3x3: Camera Stream 2<br>HN351602xx:<br>1x1: 1 ch 4 K MAX 2x2: 2 MP in, 4x1080 P 2x2:>2 MP, Camera Stream 2<br>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<br>HN350802xx/HN351602xx: 8   |
| Alarm Out                           | HN350401xx/HN350802xx: 1<br>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:<br>Main Stream: 10 Mbps<br>Sub Stream: 6 Mbps<br>HN350802xx/HN351602xx:<br>Main Stream: 8 Mbps<br>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<br>HN351602xx: 128 Mbps  |
| STORAGE                             |   |
| Internal HDD Slots                  | HN350401xx: Internal x1 (3.5")<br>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<br>HN350802xx: 8 channels<br>HN351602xx: 16 channels   |
| Decoding                  | HN350401xx:<br>H.265/H.264: 3840 X 2160 @ 30 fps (1-CH), 2560 * 1920 @ 30 fps (1-CH), 1920 X 1080 @ 120 fps (4-CH)<br>HN350802xx:<br>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)<br>HN351602xx:<br>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:<br>Max. 65 W;<br>15W without HDD<br>PoE Ports Output Power: 45W max. (30W max. for a single port)<br>HN350802xx/HN351602xx:<br>Max. 180 W;<br>15W without HDD<br>PoE Ports Output Power: 130W max. (30W max. for a single port)   |
| NETWORK                   |   |
| Ethernet                  | HN350401xx: 10/100 Mbps Ethernet (RJ-45) x 1<br>HN350802xx/HN351602xx: 10/100/1000 Mbps Ethernet (RJ-45) x 1  |
| PoE                       | HN350401xx: 802.3at/af compliant PoE ports x 4<br>HN350802xx: 802.3at/af compliant PoE ports x 8<br>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<br>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                 | HN350401xx/HN350802xx/HN351602xx: Front x2, usb 2.0; Back x1, usb 2.0   |
| PHYSICAL                  |   |
| Dimensions                | HN350401xx: 255.0 x 237.3 x 45.3 mm (10.04 x 9.34 x 1.78 inch)<br>HN350802xx/HN351602xx: 372.0 x 313.3 x 46.5 mm (14.65 x 12.33 x 1.83 inch)  |
| Weight (Without HDD)      | HN350401xx: 1 kg (2.20 lb) without HDD<br>HN350802xx: 2.65 kg (5.84 lb) without HDD<br>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)   |

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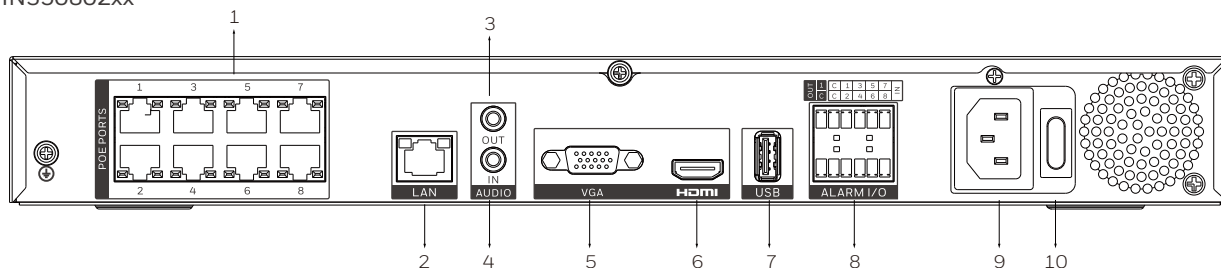
## SYSTEM DIAGRAM

HN350401xx



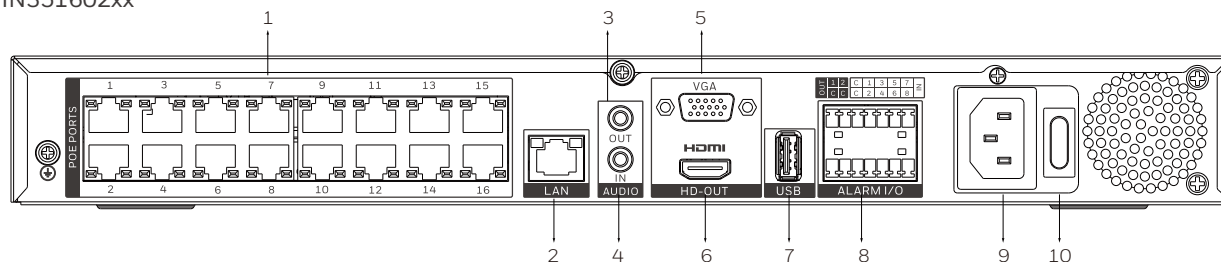
1. PoE Ports 2. LAN Port 3. Audio Out 4. Audio In 5. VGA Port 6. HDMI Port 7. USB Port 8. Alarm Input/Output 9. DC 52V Power Input 10. Power Switch

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

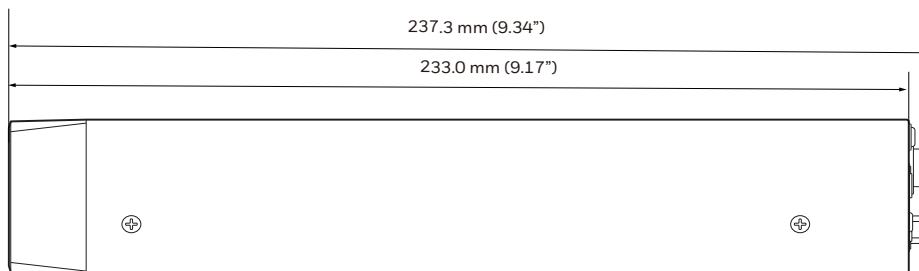
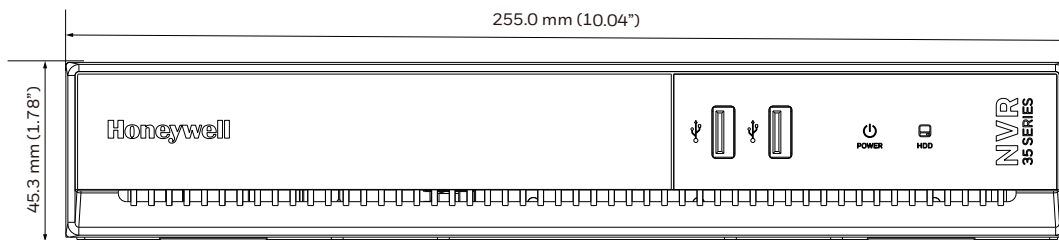


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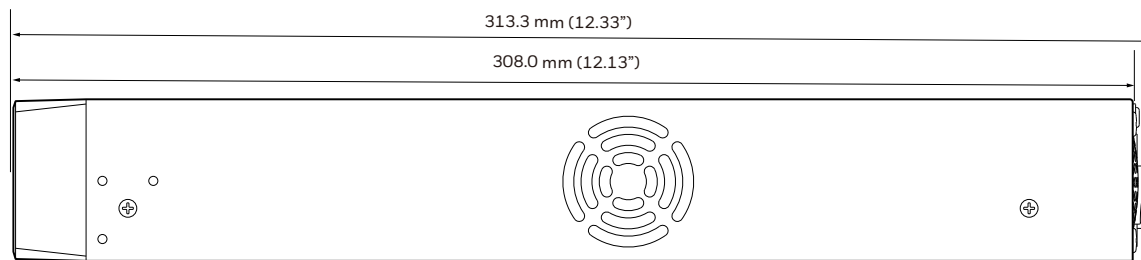
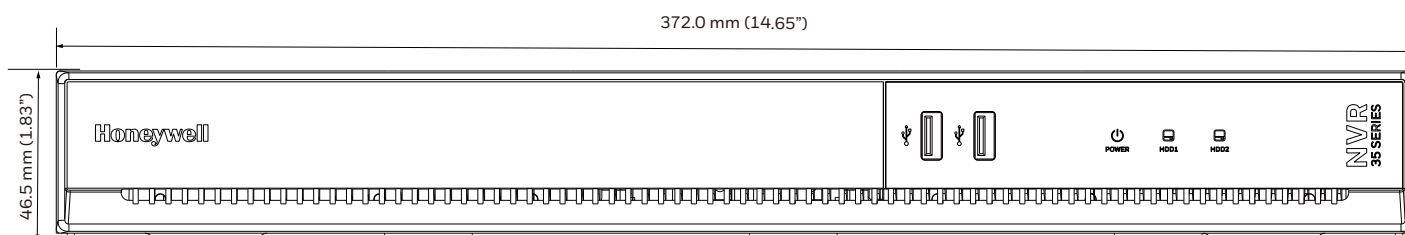
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## DIMENSIONS

HN350401xx



HN350802xx/HN351602xx



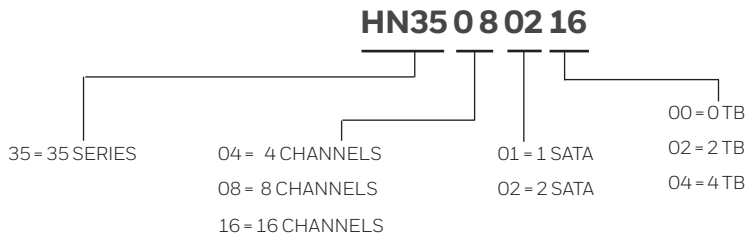
# 35 SERIES - HN35 - 4 / 8 / 16 CH 4K EMBEDDED NVR

## RECOMMENDED CAMERAS



| FORM FACTOR             | MODEL #                         |
|-------------------------|---------------------------------|
| 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          |

## PART NUMBER LOOKUP



HN350401xx



HN350802xx/HN351602xx

## ORDERING

| MODEL                       | DESCRIPTION  |
|-----------------------------|--|
| <b>HN35 - 4 / 8 / 16 CH</b> |  |
| HN35040100                  | 4 Chs NVR 4k Support, H.265/H.264, 4 Chs PoE, Stream Encryption, 0 TB, 1SATA   |
| HN35080200                  | 8 Chs NVR 4K Support, H.265/H.264, 8 Chs PoE, Stream Encryption, 0 TB, 2SATA   |
| HN35160200                  | 16 Chs NVR 4K Support, H.265/H.264, 16 Chs PoE, Stream Encryption, 0 TB, 2SATA |

### For More Information

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