35 SERIES
HN35040100 HN35080200
HN35160200

HN35040100

HN35080200/HN35160200

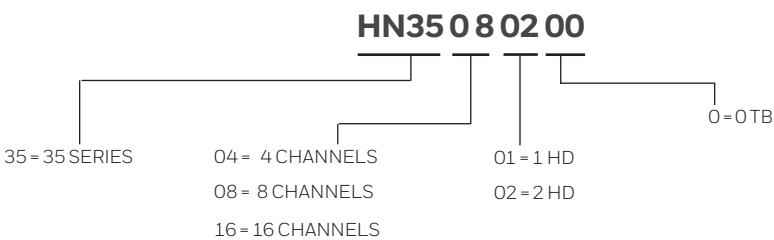Onvif® | S

Embedded Network Video Recorder

Introducing Honeywell's 35 Series Embedded NVRs, our newest affordable, fully-featured and NDAA Section 889 Compliant NVRs offer 4K HD (UHD) video resolution. Choose a 4 or 8 or 16 channel NVR, with multiple hard drive options and up to 10 TB of internal storage, for an ideal and flexible solution to fit your NDAA Section 889 Compliant surveillance needs.

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 system (lower case) which comply with NDAA Section 889
- Together with 35 series cameras, providing 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 USE

- Together Plug and play feature, together with 35 Series cameras for rapid and simple setup
- Full channels POE make it easy for use, also saving total cost of ownership
- Intuitive NVR design, quick installation wizard and easy-to-understand installation guide for fast and easy setup

HN35 0 8 02 00

35 = 35 SERIES	0 = 0 TB
04 = 4 CHANNELS	01 = 1 HD
08 = 8 CHANNELS	02 = 2 HD
16 = 16 CHANNELS	

FEATURES

- H.265/H.264
- 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

Honeywell

EMBEDDED NETWORK VIDEO RECORDER

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	**HN35040100:** No **HN35080200/HN35160200:** Yes
Security	Encrypted streaming & control

VIDEO

Inputs	**HN35040100:** 4 channels **HN35080200:** 8 channels **HN35160200:** 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 x1 (1080P)
Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024,1024 x 768
Display Split	**HN35040100:** 1 x 1, 2 x 2, customs **HN35080200:** 1 x 1, 2 x 2. 3 x 3, 1 + 7, customs **HN35160200:** 1 x 1, 2 x 2, 3 x 3, 4 x 4, 1 + 7,customs
OSD	Time OSD, channel OSD
Stream Application	**HN35040100:** 1x1: 1ch 4K MAX 2x2: 2MP in, 4x1080P 2x2: >2MP,Camera Stream 2 **HN35080200:** 1x1: 1ch 4K MAX 2x2: 2MP in, 4x1080P 2x2: >2MP, Camera Stream 2 3x3: Camera Stream 2 **HN35160200:** 1x1: 1ch 4K MAX 2x2: 2MP in, 4x1080P 2x2: >2MP, 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	**HN35040100:** 4 **HN35080200/HN35160200:** 8
Alarm Out	**HN35040100/HN35080200:** 1 **HN35160200:** 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	**HN35040100:** Main Stream: 10Mb Sub Stream: 6Mb **HN35080200/HN35160200:** Main Stream: 8Mb Sub Stream: 4Mb
Post-Event Recording Interval	30 s (Max. 60 s)
Recording Stream	Support main stream and sub stream simultaneous recording
Recording Throughput	**HN35040100/HN35080200:** 64 Mb **HN35160200:** 128 Mb

STORAGE

Internal HDD	**HN35040100:** Internal x1 (3.5") **HN35080200/HN35160200:** Internal x2 (3.5")
HDD Max. Capacity	10 TB
Manual Backup	USB Dongle (FAT Format)

PLAYBACK AND BACKUP

Sync Playback	**HN35040100:** 4 channels **HN35080200:** 8 channels **HN35160200:** 16 channels
Decoding	**HN35040100:** H.265/H.264: 3840X2160 @ 30 fps (1-CH), 2560*1920 @30fps(1-CH), 1920X1080 @ 120 fps (4-CH) **HN35080200:** H.265/H.264: 3840X2160 @ 30 fps (1-CH), 2560*1920 @30fps(1-CH), 1920X1080 @ 120 fps (4-CH), 720X576 @ 240 fps (8-CH) **HN35160200:** H.265/H.264: 3840X2160 @ 30 fps (1-CH), 2560*1920 @30fps(1-CH), 1920X1080 @ 120 fps (4-CH), 720X576 @ 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	-10ºC ~ 55ºC (14ºF ~ 131ºF)
Relative Humidity	Less than 90% RH
Storage Temperature	−40ºC ~ 60ºC (-40ºF ~ 140ºF)

ELECTRICAL

Power Supply	100-240V AC, 50/60 Hz
Power Consumption	**HN35040100:** Max. 65 W; 15W without HDD Total PoE power consumption Max. 45W, 30 W for a single port **HN35080200/HN35160200:** Max. 180 W; 15W without HDD Total PoE power consumption Max. 130 W, 30 W for a single port

NETWORK

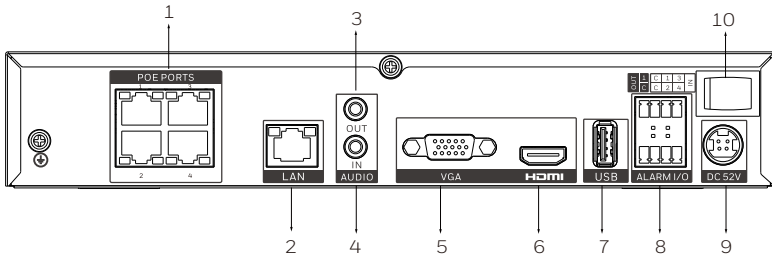|	
Ethernet	**HN35040100:** 10/100Mbps Ethernet (RJ-45) x 1 **HN35080200/HN35160200:** 10/100/1000Mbps Ethernet (RJ-45) x 1
PoE	**HN35040100:** 802.3at/af compliant PoE ports x 4 **HN35080200:** 802.3at/af compliant PoE ports x 8 **HN35160200:** 802.3at/af compliant PoE ports x 16
Supported Protocols	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	**HN35040100/HN35080200:** 64 Mb **HN35160200:** 128 Mb
Smart Phone Compatibility	IOS 11 or later and Android 5.0 or later support
Browsers	Edge, Chrome, Firefox, Safari

EMBEDDED NETWORK VIDEO RECORDER

TECHNICAL SPECIFICATIONS

AUXILIARY INTERFACE

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

PHYSICAL

Dimensions	HN35040100: 255.0 × 237.3 × 45.3 mm (10.04 × 9.34 × 1.78 inch) HN35080200/HN35160200: 372.0 × 313.3 × 46.5 mm (14.65 × 12.33 × 1.83 inch)
Weight (Without HDD)	HN35040100: 1 kg (2.20 lb) without HDD HN35080200: 2.65 kg (5.84 lb) without HDD HN35160200: 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

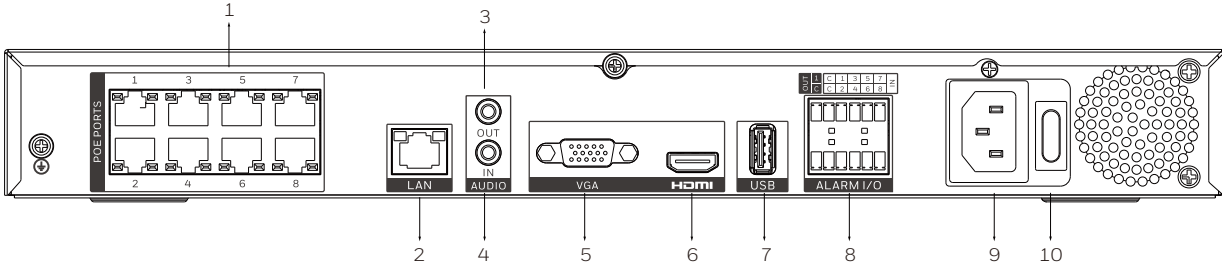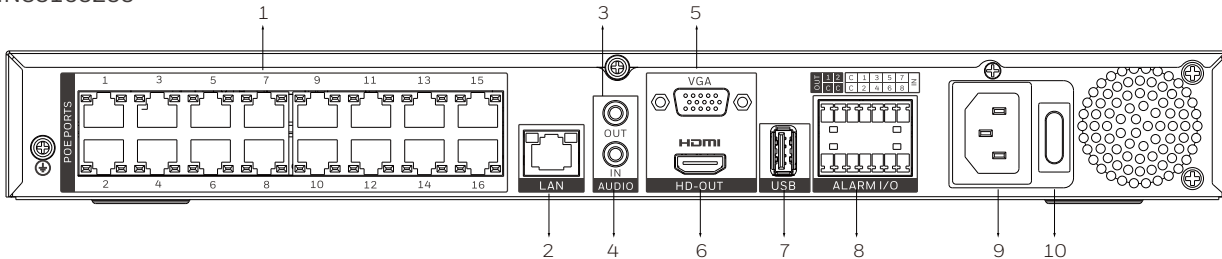|	
Fixed Dome Cameras	HC35W43R3, HC35W45R3, HC35W48R3
MFZ Dome Camera	HC35W43R2, HC35W45R2, HC35W48R2
Fixed Bullet Camera	HC35WB3R3, HC35WB5R3, HC35WB8R3
MFZ Bullet Camera	HC35WB3R2, HC35WB5R2, HC35WB8R2
Fixed Ball Camera	HC35WE3R3, HC35WE5R3, HC35WE8R3
MFZ Ball Camera	HC35WE3R2, HC35WE5R2, HC35WE8R2
Fixed Micro Dome Camera	HC35W25R3
Speed Dome Camera	HC35WZ2R25, HC35WZ5R30

SYSTEM DIAGRAM

HN35040100

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

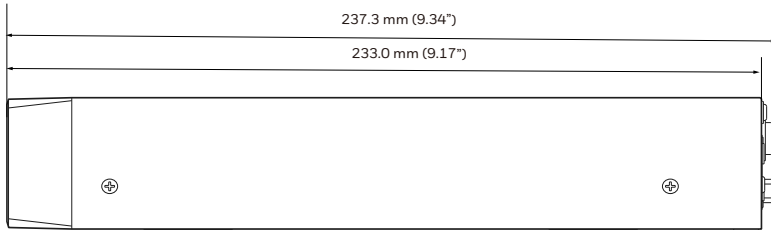### HN35080200

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
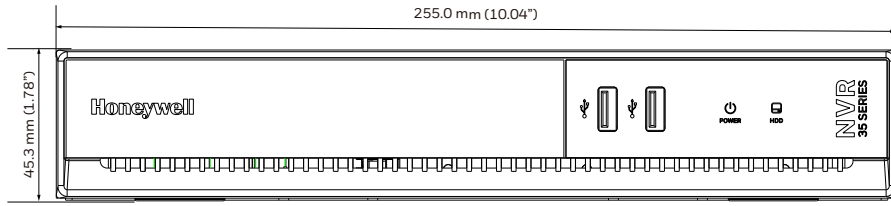
HN35160200

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
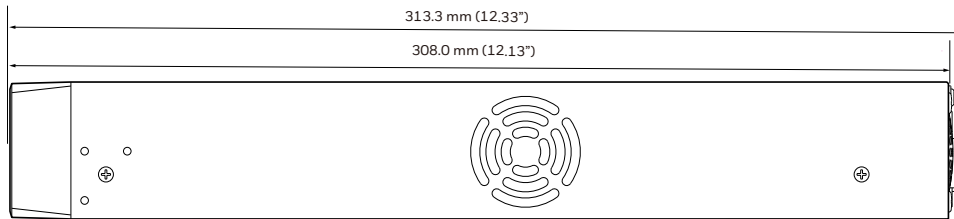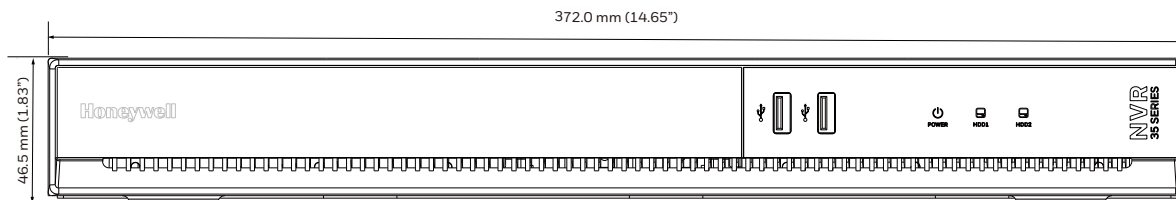
EMBEDDED NETWORK VIDEO RECORDER

DIMENSIONS

HN35040100

255.0 mm (10.04")

45.3 mm (1.78")

237.3 mm (9.34")

233.0 mm (9.17")

HN35080200/HN35160200

372.0 mm (14.65")

46.5 mm (1.83")

313.3 mm (12.33")

308.0 mm (12.13")

ORDERING	
HN35040100	4 Chs NVR 4k (8 Mp) Support, H.265/H.264, 4 Chs POE, Stream Encryption, 0 TB,1HD
HN35080200	8 Chs NVR 4K (8 MP) Support, H.265/H.264, 8 Chs POE, Stream Encryption, 0 TB,2HD
HN35160200	16 Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs POE, Stream Encryption, 0 TB,2HD

For more information

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www.security.honeywell.com/me

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