10 SERIES NVR

HN100401xx
HN100801xx
HN101602xx

HN100401xxN
HN100801xxN
HN101602xxN

4 / 8 / 16 Ch 4K PoE and Non-PoE Embedded NVR



HN10040100 / HN10040100N
HN10080100 / HN10080100N



HN10160200 / HN10160200N

ONVIF S

2 YEAR WARRANTY

Introducing Honeywell's 10 Series HN10 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.

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
- Together with 10 series cameras, offers bandwidth saving features like Smart codec
- Supported alarms from 10 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

SECURE AND COMPLIANT SOLUTION

- For use as part of video systems which comply with NDAA Section 889
- Together with 10 series cameras, provides an end-to-end encrypted solution, with video streaming encrypted between NVR and web client/viewer/mobile app

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 10 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 up to 8 alarm input channels and 1 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, signed certificates and data encryption
- Supports visual or auditory notifications such as a flashing light, bell, or siren

Honeywell

10 SERIES – HN10 – 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	**HN10040100 / HN10040100N:** No **HN10080100 / HN10080100N:** No **HN10160200:** Yes **HN10160200N:** No
Security	Encrypted streaming and control

VIDEO

Inputs	**HN10040100 / HN10040100N:** 4 channels **HN10080100 / HN10080100N:** 8 channels **HN10160200 / HN10160200N:** 16 channels

AUDIO

Audio Input/Output	**HN10040100 / HN10040100N:** 3.5 mm Line out x1 **HN10080100 / HN10080100N / HN10160200 /HN10160200N:** 3.5 mm Line in x1 3.5 mm Line out x;1
Two-Way Communication	**HN10040100 / HN10080100:** Not Supported **HN10040100N/HN10080100N/HN10160200/HN10160200N:** 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	**HN10040100 / HN10040100N:** 1 x 1, 2 x 2, customs **HN10080100 / HN10080100N:** 1 x 1, 2 x 2, 3 x 3, 1 + 7, customs **HN10160200/HN10160200N:** 1 x 1, 2 x 2, 3 x 3, 4 x 4, 1+ 7, customs
OSD	Time OSD, Channel OSD
Stream Application	**HN10040100/HN10080100:** 1ch 8MP, 4ch 1080P, 8ch D1@30fps **HN10040100N/ HN10080100N/ HN10160200/ HN10160200N:** 1ch 12MP, 4ch 4MP, 8ch 1080P, 16ch D1@30fps
Fisheye Dewarp	No
PTZ Operation	Direction control, home, iris, preset, patrol

VIDEO DETECTION AND ALARMS

Event	**HN10040100 / HN10080100:** **Camera:** Camera Alarm In, Motion Detection, Camera Disconnection, Scene Change Detection, Intelligent Analysis **System:** Disk Failure, Disk Full. IP Conflict, Network Disconnect, People Counting Alarm **HN10040100N/ HN10080100N/ HN10160200/HN10160200N:** **Camera:** Camera Alarm In, Motion Detection, Camera Disconnection, Scene Change Detection, Intelligent Analysis **System:** System Alarm In, Disk Error, Disk Full, IP Conflict, Network Disconnect, People Counting Alarm, Local Intelligent Analysis Alarm
Event Action	**HN10040100 / HN10080100:** Video Recording, Send email, Buzzer, FTP, Push Notification, Camera Alarm Out, PTZ-Preset, Send Video to Full Screen. **HN10040100N/ HN10080100N/ HN10160200/ HN10160200N:** Video Recording, Send email, Buzzer, FTP, Camera Alarm Out, PTZ-Preset, System Alarm Out,Send Video to Full Screen, System Alarm Out.
Alarm Input	**HN10040100 / HN10080100:** : No **HN10040100N / HN10080100N:** 4 **HN10160200 / HN10160200N:** 8
Alarm Out	**HN10040100 / HN10080100:** : No **HN10040100N / HN10080100N / HN10160200N:** 1 **HN10160200:** 2

RECORDING

Compression	Smart Codec/H.265/H.264
Resolution	Up to 3840 x 2160
Frame Rate	30 fps
Recording Mode	Continuous, Manual, Event
Recording Interval	N/A
Max Pre-Event Recording Buffer Size	**HN10040100 / HN10040100N:** Main Stream: 1.25M; Sub Stream: 0.75M **HN10080100/ HN10080100N/ HN10160200/ HN10160200N:** Main Stream: 1 M; Sub Stream: 0.5 M
Post-Event Recording Interval	30 s (Max. 60 s)
Recording Stream	Camera Stream 1 Camera Stream 2
Recording Throughput	**HN10040100 / HN10040100N:** 40 Mbps **HN10080100 / HN10080100N:** 64 Mbps **HN10160200 /HN10160200N:** 160 Mbps

STORAGE

Internal HDD Slots	**HN10040100/ HN10040100N/HN10080100 / HN10080100N:** Internal x1 (3.5") **HN10160200 /HN10160200N:** Internal x2 (3.5")
HDD Max. Capacity	10 TB
Manual Backup	USB Dongle (FAT Format)

PLAYBACK AND BACKUP

Sync Playback	**HN10040100 / HN10040100N:** 4 channels **HN10080100 / HN10080100N:** 8 channels **HN10160200 / HN10160200N:** 16 channels
Decoding	**HN10040100:** 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) **HN10080100:** 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) **HN10040100N:** H.265/H.264: 3840 X 2160 @ 30 fps (1-CH), 2560 X 1440 @120fps(4-CH) **HN10080100N:** H.265/H.264: 3840 X 2160 @ 30 fps (1-CH), 2560 X 1440 @120fps(4-CH), 720 X 576 @ 240 fps (8-CH) **HN10160200/ HN10160200N:** H.265/H.264: 3840X2160 @ 30 fps (1-CH), 2560X1440@120fps(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	JPG

ENVIRONMENTAL

Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Relative Humidity	Less than 90% RH
Storage Temperature	–40°C ~ 60°C (-40°F ~ 140°F)

ELECTRICAL

Power Supply	**HN10040100/HN10080100:** 48VDC / 1.25A , 50/60HZ **HN10040100N/ HN10080100N:** 12VDC / 2A, 50/60HZ **HN10160200:** 100-240VAC, 50/60HZ **HN10160200N:** 12VDC / 3A, 50/60HZ
Power Consumption	**HN10040100/HN10080100/HN10040100N/HN10080100N/ HN10160200/ HN10160200N**: Less than 15W (without HDD)

NETWORK

Ethernet	**HN10040100 / HN10080100:** 10/100 Mbps Ethernet (RJ-45) x 1 **HN10040100N /HN10080100N:** 10/100Mbps Ethernet (RJ-45) x 2 **HN10160200:** 10/100/1000 Mbps Ethernet (RJ-45) x 1 **HN10160200N:** 10/100/1000 Mbps Ethernet (RJ-45) x 2
PoE	**HN10040100:** 802.3at/af compliant PoE ports x 4 **HN10080100:** 802.3at/af compliant PoE ports x 8 **HN10160200:** 802.3at/af compliant PoE ports x 16 **HN10040100N/10080100N HN10160200N**: N/A
Supported Protocols*	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, 802/1x. SNMP, FTP, DHCP, NTP, DNS, DDNS, IP Filter, P2P
Max Number of Users	16
Network Throughput	**HN10040100 / HN10040100N:** 40 Mbps **HN10080100 / HN10080100N:** 64 Mbps **HN10160200 /HN10160200N:** 160 Mbps
Smart Phone Compatibility	IOS 11 or later and Android 5.0 or later support
Browsers	Microsoft Edge, Chrome,Firefox,Safari

AUXILIARY INTERFACE

USB Ports	**HN10040100/HN10080100/HN10160200**: Front x2, usb 2.0; Back x1, usb 2.0 **HN10040100N/HN10080100N/HN10160100N:** Front x2, usb 2.0

PHYSICAL

Dimensions	**HN10040100/HN10040100N/HN10080100/HN10080100N**: 255.0 × 235.1 × 47.5 mm (10.04 × 9.26 × 1.87 inch) **HN10160100/HN10160100N:** 372 × 310.5 × 46.5 mm (14.65 × 12.22 × 1.83 inch)
Weight	**HN10040100:** 0.9 kg (1.98 lb) without HDD **HN10080100:** 1.0 kg (2.2 lb) without HDD **HN10040100N/HN10080100N:** 0.8 kg (1.76 lb) without HDD **HN10160200:** 2.75 kg (6.05 lb) without HDD **HN10160200N:** 1.8 kg (3.97 lb) without HDD

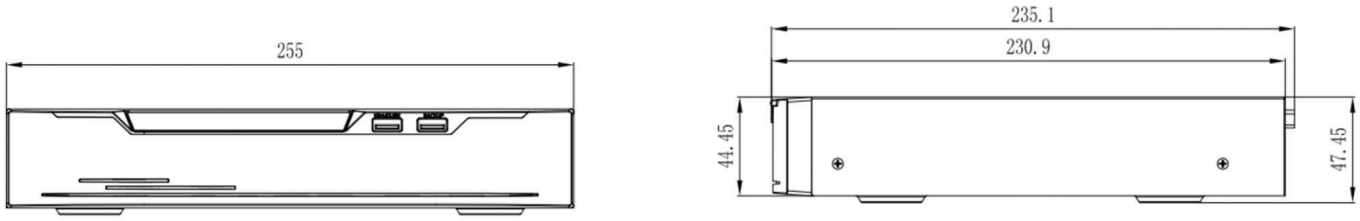
REGULATORY

Emissions	CE (EN 55032, EN 61000-3-2, EN 61000-3-3)
Immunity	CE(EN 55035),
RoHS	RoHS: EN 63000: 2018
Other	NDAA Section 889 Compliant

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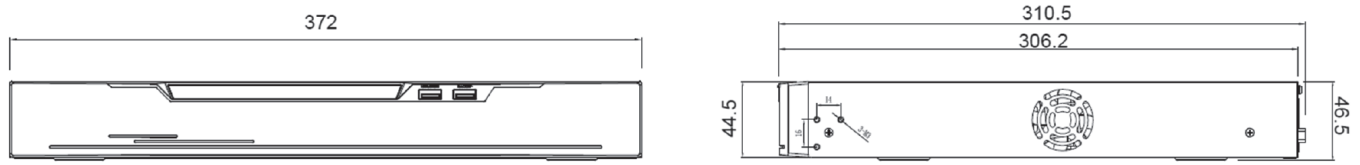
DIMENSIONS

4/8-Ch 4K Embedded PoE & Non-PoE NVR



(measurements shown in mm)

16-ch 4K Embedded PoE & Non-PoE NVR



(measurements shown in mm)

10 SERIES - HN10 - 4 / 8 / 16 CH 4K EMBEDDED NVR

FRONT AND REAR VIEWS

4/8-Ch 4K Embedded POE & NON-POE NVR



HN10040100 / HN10040100N (Front)
HN10080100 / HN10080100N (Front)



HN10040100 (Rear)



HN10080100 (rear)



HN10040100N / HN10080100N (Rear)

16-Ch 4K Embedded POE & NON-POE NVR



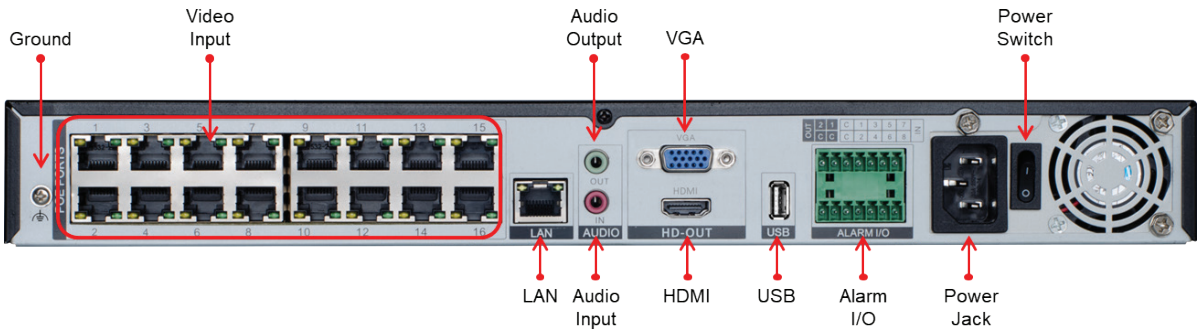
HN10160200 / HN10160200N



HN10160200 (Rear)



HN10160200N (Rear)



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RECOMMENDED CAMERAS



FORM FACTOR	MODEL #
Fixed Dome Cameras	HC10W45R1, HC10W48R1
MFZ Dome Camera	HC10W42R2I, HC10W45R2, HC10W48R2
Fixed Bullet Camera	HC10WB5R1, HC10WB8R1
MFZ Bullet Camera	HC10WB2R2I, HC10WB5R2, HC10WB8R2

PART NUMBER LOOKUP

HN10 0 8 02 00 N

- 10 = 10 SERIES
- 04 = 4 CHANNELS
  08 = 8 CHANNELS
  16 = 16 CHANNELS
- 01 = 1 SATA
  02 = 2 SATA
- 00 = 0 TB
  04 = 4 TB
  10 = 10 TB
- N = Non PoE



HN10040100 / HN10040100N
HN10080100 / HN10080100N



HN10160200 / HN10160200N

ORDERING

MODEL SKU#	DESCRIPTION
HN10040100	10 Series 4-channel POE NVR, H.265/H.264, 1SATA
HN10080100	10 Series 8-channel POE NVR, H.265/H.264, 1SATA
HN10160200	10 Series 16-channel POE NVR, H.265/H.264, 2SATA
HN10040100N	10 Series 4-channel Non-POE NVR, H.265/H.264, 1SATA
HN10080100N	10 Series 8-channel Non-POE NVR, H.265/H.264, 1SATA
HN10160200N	10 Series 16-channel Non-POE NVR, H.265/H.264, 2SATA

For More Information
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