

S1 SERIES

HN100401xx

HN100801xx

HN100401xxN

HN100801xxN

HN101602xxN



4/8-ch 4K Embedded NVR



16-ch 4K Embedded NVR

4 / 8 / 16 Ch 4K Embedded NVR

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 32 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, offering 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, and video streaming/control 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 tamperingsigned certificates and data encryption
- Supports visual or auditory notifications such as a flashing light, bell, or siren

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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	HN10xx01xx/N: No HN101602xxN: No
VIDEO	
Inputs	HN100401xx/N: 4 channels HN100801xx/N: 8 channels HN101602xxN: 16 channels
AUDIO	
Audio Input/Output	HN10xx01xx: 1 Output HN10xx01xxN/HN101602xxN: 1 Input / 1 Output
Two-way Communication	HN10xx01xx: N/A HN10xx01xxN/HN101602xxN: Support
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	HN100401xx/N: 1 x 1, 2 x 2, customs HN100801xx/N: 1 x 1, 2 x 2, 3 x 3, 1 + 7, customs HN101602xxN: 1 x 1, 2 x 2, 3 x 3, 4 x 4, 1 + 7, customs
OSD	Time OSD, channel OSD
Stream Application	HN100401xx/HN100801xx: 1ch 8MP, 4ch 1080P, 8ch D1@30fps HN100401xxN/HN100801xxN/HN101602xxN: 1ch 12MP, 4ch 4MP, 8ch 1080P, 16ch, D1@30fps
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	HN10xx01xx: N/A HN10xx01xxN: 4 ch input HN101602xxN: 8 ch input
Alarm Out	HN10xx01xx: N/A HN10xx01xxN: 1 ch output HN101602xxN: 1 ch output
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	Main Stream: 1.5M Sub Stream: 0.5M
Post-Event Recording Interval	30 s (Max. 60 s)
Recording Stream	Support main stream and sub stream simultaneous recording
Recording Throughput	HN100401xx/N: 40Mbps HN100801xx/N: 60Mbps HN101602xxN: 160Mbps

STORAGE	
Internal HDD Slots	HN10xx01xxN: Internal x1 (3.5") HN101602xxN: Internal x2 (3.5")
HDD Max. Capacity	10 TB
MANUAL BACKUP	USB DONGLE (FAT FORMAT)
PLAYBACK AND BACKUP	
Sync Playback	HN100401xx/N: 4 channels HN100801xx/N: 8 channels HN101602xxN: 16 channels
Decoding	HN100401xx/HN100801xx: H.265/H.264: 1ch 8MP, 4ch 1080P, 8ch D1@30fps HN100401xxN/HN100801xxN/HN101602xxN: H.265/H.264: 1ch 12MP, 4ch 4MP, 8/16ch D1@30fps
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 ~ 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	HN10xx01xx: DC48V/1.25A, 50/60Hz HN10xx01xxN/HN101602xxN: DC12V/3A, 50/60Hz
Power Consumption	HN10xx01xx: < 10 W (without HDD) HN10xx01xxN/HN101602xxN: < 15 W (without HDD)
NETWORK	
Ethernet	10/100 Mbps Ethernet (RJ-45) x 1
Supported Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter, P2P
Maximum Number of Users	8
Network Throughput	HN100401xx/N: 40Mbps HN100801xx/N: 60Mbps HN101602xxN: 160Mbps
Smart Phone Compatibility	IOS 11 or later and Android 5.0 or later support
Browsers	Edge, Chrome, Firefox, Safari
AUXILIARY INTERFACE	
USB Ports	Front panel: 2 x USB 2.0
PHYSICAL	
Dimensions	HN10xx01xx/N: 255 × 235.1 × 47.5 mm (10.04 × 9.26 × 1.87 inch) HN101602xxN: 372 × 310.5 × 46.5 mm (16.65 × 12.2 × 2.2 inch)
Weight (Without HDD)	HN100401xx: 0.9 kg (1.98 lb) without HDD HN100401xxN: 0.8 kg (1.76 lb) without HDD HN100801xx: 1 kg (2.2 lb) without HDD HN100801xxN: 0.8 kg (1.76 lb) without HDD HN101602xxN: 1.8 kg (3.97 lb) without HDD
REGULATORY	
Emissions	FCC Part 15, CE (EN 55032, EN 61000-3-2, EN 61000-3-3), ICES-003, Comply with UKCA and RCM
Immunity	CE (EN 55024, EN 55035) Comply with UKCA and RCM

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

RECOMMENDED CAMERAS

RECOMMENDED CAMERAS	
Fixed Dome Cameras	HC10W42R1, C10W44R1, HC10W45R1
MFZ Dome Camera	HC10W42R2, HC10W44R2, HC10W45R2
Fixed Bullet Camera	HC10WB2R1, HC10WB4R1, HC10WB5R1
MFZ Bullet Camera	HC10WB2R2, HC10WB4R2, HC10WB5R2
Speed Dome Camera	HC35WZ2R25, HC35WZ5R30

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

4-ch 4K Embedded POE NVR



8-ch 4K Embedded POE NVR



4 / 8-ch 4K Embedded None-POE NVR



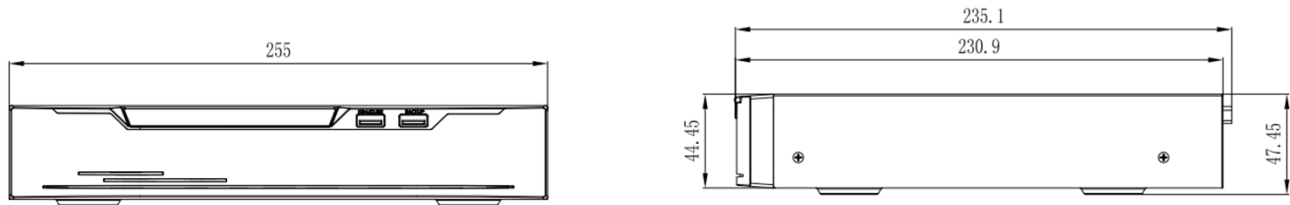
16-ch 4K Embedded None-POE NVR



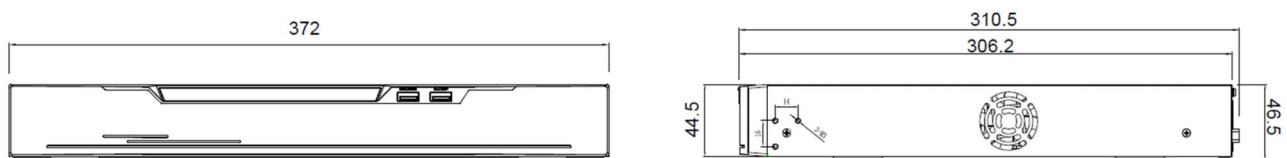
10 SERIES-HN10 4/8/16 CH 4K EMBEDDED NVR

DIMENSIONS

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

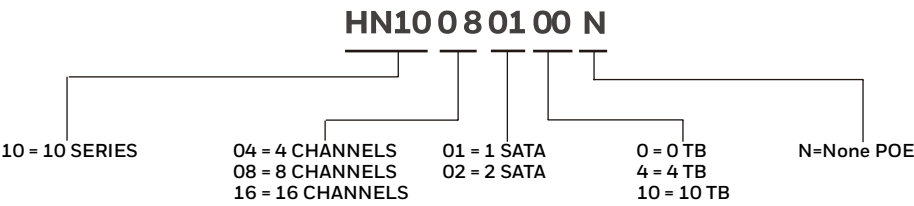


16-ch 4K Embedded NON-POE NVR



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

PART NUMBER LOOKUP



ORDERING	
MODEL	DESCRIPTION
HN10040100	4 Chs NVR 4k Support, H.265/H.264, 4-channel POE, 1SATA
HN10080100	8 Chs NVR 4k Support, H.265/H.264, 8-channel POE, 1SATA
HN10040100N	4 Chs NVR 4k Support, H.265/H.264, 4-channel NON-POE, 1SATA
HN10080100N	8 Chs NVR 4k Support, H.265/H.264, 8-channel NON-POE, 1SATA
HN10160200N	16 Chs NVR 4k Support, H.265/H.264, 16-channel NON-POE, 2SATA

For more information

buildings.honeywell.com/security

Honeywell Commercial Security

Honeywell Commercial Security

Emaar Business Park, Sheikh

Zayed Road, Building No. 2,

2nd floor, 201

Post Office Box 232362

Dubai, United Arab Emirates

Tel: +971 4 450 5800

www.honeywell.com



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