# 30 SERIES
# HN3008xx
# HN3016xx

## Embedded Network Video Recorder

Onvif®IS

Introducing Honeywell's 30 Series Embedded NVRs, our newest affordable, fully-featured NVRs offer 4K HD (UHD) video resolution. Choose between a 8 or 16 channels NVR, with multiple hard drive options and up to 20 TB of internal storage, for an ideal and flexible solution designed for use as part of video systems which comply with NDAA 2019, Section 889.

### FULLY-FEATURED NVRS

- High decoding capability for 4K Ultra HD (UHD) viewing and recording
- View 1 to 4 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
- Support H.265 HEVC smart codec/H.264/MJPEG Video Codec
- De-warp fisheye camera video in NVR local, web client, HVMV and HVMV mobile APP for 360 degree situational awareness
- Together with 30/60 series cameras, offering bandwidth saving features like Dynamic intra frame period, Smart codec.
- Received People Detection Notification for efficient & effective protection

### DYNAMIC, ACCESSIBLE MONITORING

- Simple remote configuration through Honeywell Video Management Viewer (HVMV)
- Global P2P Service with reliable connection anytime, anywhere
- Mobile apps provide anytime, anywhere access for both Apple® and Android™ devices

### SECURE & COMPLIANT SOLUTION

- For use as part of Video Systems which comply with NDAA Section 889
- Built-in FIPS certification ready chip set
- Together with 30/60 series cameras, providing end to end encrypted solution, with video streaming encrypted from 30/60 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
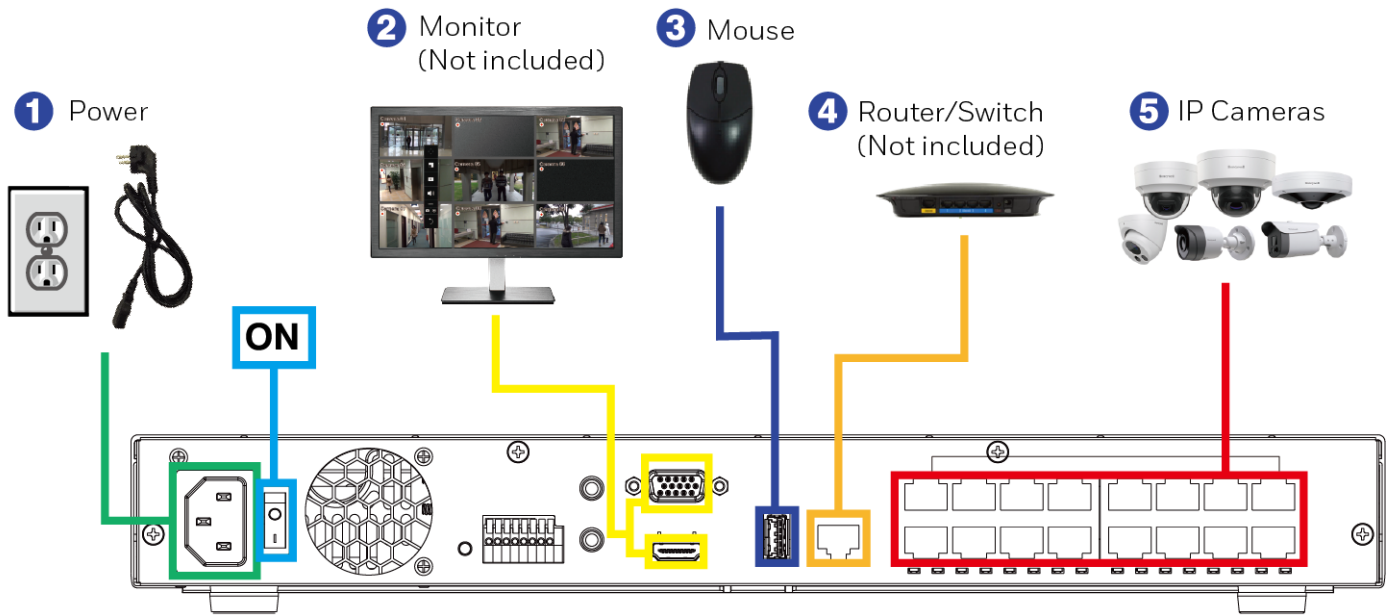
### EASY TO USE

- Together with 30/60 series cameras, plug and play feature makes setup fast and easy
- Full channels POE make it easy for use, also saving total cost of ownership
- The quick wizard for convenient setup
- Quick installations utilizing an intuitive NVR design and easy-to-understand quick installation guides

### MARKET OPPORTUNITIES

Flexible storage options, high recording and networking performance, robust cyber security performance make these NVRs perfect for a wide range of security applications where compliance is essential and data is protected.

## FEATURES

- H.265/H.264/MJPEG codec decoding
- HDMI/VGA simultaneous video output
- USB ports support Keyboard and Mouse

- Supports up to 4 alarm input channels and 1 alarm relay output channels
- Supports sending notifications through email, alarm out

- 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(a flashing light, bell, or siren)

## Honeywell

# 30 SERIES EMBEDDED NETWORK VIDEO RECORDER

## SYSTEM DIAGRAM

**1** Power

**2** Monitor (Not included)

**3** Mouse

**4** Router/Switch (Not included)

**5** IP Cameras

**ON**

## DIMENSIONS

366.0 ( 14.41" )

44.6 ( 1.76" )

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NET    STATUS    POWER

USB

320.0 ( 12.6" )

44.6 ( 1.76" )
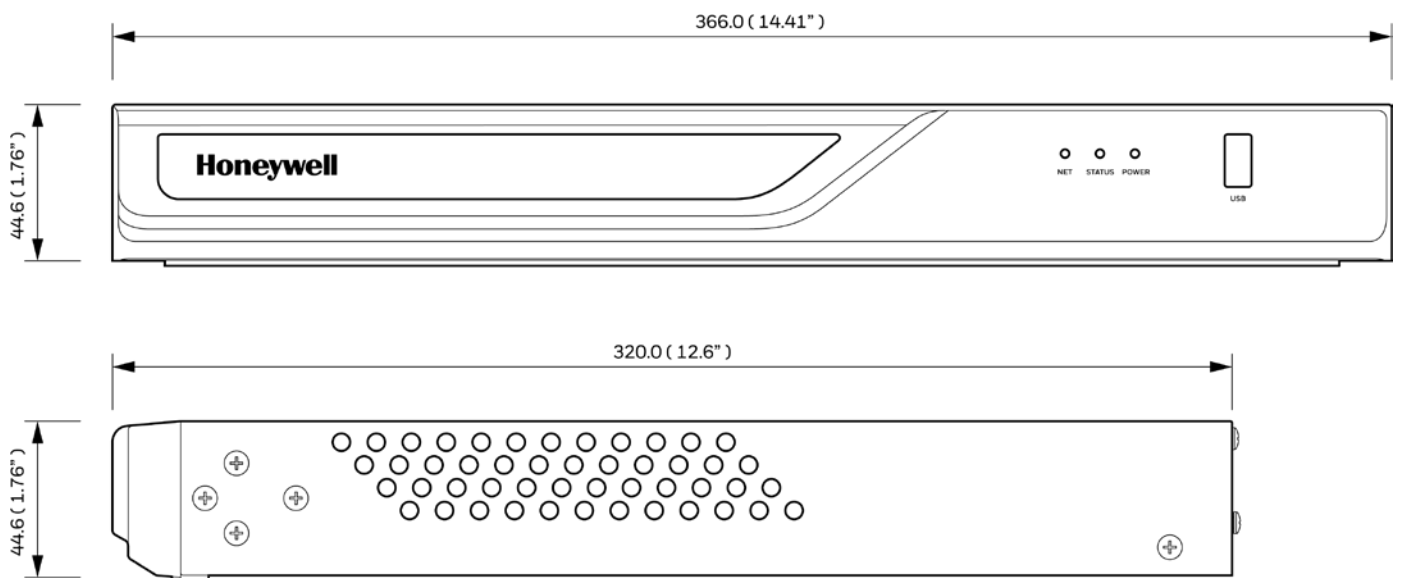
# 30 SERIES EMBEDDED NETWORK VIDEO RECORDER

## TECHNICAL SPECIFICATIONS

### SYSTEM

| | |
|---|---|
| Main Processor | ARM Processor |
| Operating System | Embedded LINUX |
| Camera Integration | ONVIF Profile S |
| User Management | User level: administrator, regular user |
| Log | System, Recording, User, Error |
| Date&Time | Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time |
| Fan | Yes |
| Security | Fips Chipsets built in, encrypted streaming & control |

### VIDEO

| | |
|---|---|
| Inputs | HN300802xxx: 8 Channels<br>HN301602xxx: 16 Channels |

### AUDIO

| | |
|---|---|
| Audio | 3.5 mm Line out x1 |
| Audio Format | G.711, G.726 |

### DISPLAY

| | |
|---|---|
| Interface | HDMI x 1 (4K Max), VGA x 1 (1080P) |
| Resolution | 3840 x 2160, 1920 x 1080, 1280 x 720 |
| Display Split (HN300802xxx) | 1x1, 2x2, 3x3, 1M+5, 1P+3, 1P+6, 2P+3, 3V |
| Display Split (HN301602xxx) | 1x1, 2x2,3x3,4x4,1M+5,1M+12, 1P+3, 1P+6, 2P+3, 3V |
| Stream Application | 1x1: Camera Stream 1<br>2x2: Camera Stream 2<br>3V: Camera Stream 2<br>3x3 and above: Camera Stream 3 |
| Monitor Enhancement | OSD Display (NVR), OSD Display (Camera), Camera Information, Aspect Ratio |
| Fisheye Dewarp | Support on NVR local, web client, viewer & mobile app |
| PTZ Operation | Direction control, home, iris, preset, patrol (group), Digital PTZ |

### RECORDING

| | |
|---|---|
| Compression | H.265 smart codec/H.264/MJPEG |
| Resolution | Up to 3840 x 2160 |
| Frame Rate | 30 fps |
| Recording Mode | Continuous, Schedule, Manual, Event |
| Pre-Event Recording Interval | 5 s (Max.10 s) |
| Post-Event Recording Interval | 20 s (Max. 300 s) |
| Recording Stream | Single |
| Recording Throughput | HN300802xxx: total 64 Mbps, maximum 8 Mbps per Channel<br>HN301602xxx: total 96 Mbps, maximum 6 Mbps per Channel |

### VIDEO DETECTION AND ALARMS

| | |
|---|---|
| Event | Camera: Camera Alarm In/Out, Motion detection, People detection, Intrusion detecting, Tampering detection,  Camera disconnection<br>System: System Alarm in/out, Disk failure, Disk full |
| Event Action | Video recording, Send email, Buzzer, FTP, Camera Alarm Out, Pan-tilt-zoom, HTTP, System Alarm Out, Send to HVMV |
| Alarm Input | 4 |
| Alarm Out | 1 |

### STORAGE

| | |
|---|---|
| Internal HDD | Internal x 2 (3.5") |
| HDD Max. Capacity | 10 TB per drive |
| Manual Backup | USB Dongle (FAT Format) |

### PLAYBACK AND BACKUP

| | |
|---|---|
| Sync Playback | 1-4 channels depending on the video resolution and decoding capability |
| Decoding | H.265/H.264: 3840 x 2160 @ 30 fps (1-CH)<br>2560 x 1920 @30fps (1-CH)<br>1920 x 1080 @ 120 fps (4-CH)<br>1280 x 720 @ 240 fps (8-CH)<br>720 x 576 @ 480 fps (16-CH) |
| Search Mode | Time search, Event Search |
| Playback Function | Regular (play, pause, stop), play backwards, next /previous frame, go back 10 seconds, go forward 10 seconds, speed control, timeline, timeline scale, digital zoom |
| Snapshot | JPEG |

### NETWORK

| | |
|---|---|
| Ethernet | 10/100/1000Mbps Ethernet (RJ-45) x 1<br>APIPA (If no external DHCP server) |
| PoE (HN300802xxx) | Support DHCP Server<br>802.3at/af compliant PoE ports x 8 |
| PoE (HN301602xxx) | Support DHCP Server<br>802.3at/af compliant PoE ports x 16 |
| DHCP Server | Yes |
| Supported Protocols | IPv4, TCP/IP, HTTP, HTTPS, RTSP/RTP/RTCP, SMTP, DHCP, NTP, DNS, FTP, P2P |
| Maximum Number of Users | 15 |
| Network Throughput | Input and output total 128 Mbps |
| Smart Phone Compatibility | IOS 11 or later and Android 5.0 or later support |
| Browers | IE 11, Chrome |

### AUXILIARY INTERFACE

| | |
|---|---|
| USB Ports | Front x1; Back x1 |

### ELECTRICAL

| | |
|---|---|
| Power Supply | 100-240 VAC, 50/60 Hz |
| Power Consumption | HN300802xxx: Max. 230 W; 14.29 W without HDD without PoE<br>Total PoE power consumption Max. 120 W, 30 W for a single port<br>HN301602xxx: Max. 340 W; 14.29 W without HDD without PoE<br>Total PoE power consumption Max. 200 W, 30 W for a single port |

### ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature | -10ºC ~ 55ºC (14ºF ~ 131ºF) |
| Relative Humidity | 0 ~ 95 % |
| Storage Temperature | −20ºC to 70ºC (-4ºF ~ 158ºF) |

### PHYSICAL

| | |
|---|---|
| Dimensions (WxDxH) | 366 x 320 x 44.6 mm / 14.41 x 12.6 x 1.76 in. |
| Weight (Without HDD) | HN300802xxx: 3.52 kg / 7.76 lbs<br>HN301602xxx: 3.63 kg / 8 lbs |

### REGULATORY

| | |
|---|---|
| Emissions | FCC Part 15B, EN55032: 2015, EN61000-3-2: 2014, EN61000-3-3: 2013 |
| Immunity | EN50130-4: 2011+A1: 2014 |
| Safety | EN62368-1:2014<br>UL62368-1, 2nd Ed, 2014-12-01<br>CAN/CSA C22.2 No. 62368-1-14, 2nd Ed |
| RoHS | EN50581: 2012 |

# 30 SERIES EMBEDDED NETWORK VIDEO RECORDER

| RECOMMENDED CAMERAS | |
|---|---|
| DOME CAMERAS | **HC30W42R3, HC30W45R3, HC30W45R2, HC60W45R2, HC60W45R4, HC60W35R2,HC60W35R4** |
| BULLET CAMERAS | **HC30WB2R1, HC30WB5R1, HC30WB5R2, HC60WB5R5, HC60WB5R2** |
| BALL CAMERAS | **HC30WE2R3, HC30WE5R3, HC30WE5R2** |
| FISHEYE CAMERAS | **HC30WF5R1** |
| PTZ CAMERAS | **HC60WZ2E30** |

| ORDERING | |
|---|---|
| **HN30080200** | 8 Channels NVR 4K (8 MP) Support, H.265/H.264, 8 POE, stream encryption, 0 TB |
| **HN30080202** | 8 Channels NVR 4K (8 MP) Support, H.265/H.264, 8 POE, stream encryption, 2 TB |
| **HN30080204** | 8 Channels NVR 4K (8 MP) Support, H.265/H.264, 8 POE, stream encryption, 4 TB |
| **HN30080208** | 8 Channels NVR 4K (8 MP) Support, H.265/H.264, 8 POE, stream encryption, 8 TB |
| **HN30080216** | 8 Channels NVR 4K (8 MP) Support, H.265/H.264, 8 POE, stream encryption, 16 TB |
| **HN30160200** | 16 Channels NVR 4K (8 MP) Support, H.265/H.264, 16 POE, stream encryption, 0 TB |
| **HN30160204** | 16 Channels NVR 4K (8 MP) Support, H.265/H.264, 16 POE, stream encryption, 4 TB |
| **HN30160208** | 16 Channels NVR 4K (8 MP) Support, H.265/H.264, 16 POE, stream encryption, 8 TB |
| **HN30160216** | 16 Channels NVR 4K (8 MP) Support, H.265/H.264, 16 POE, stream encryption, 16 TB |
| **HN30160220** | 16 Channels NVR 4K (8 MP) Support, H.265/H.264, 16 POE, stream encryption, 20 TB |

## DOWNLOAD HVMV VIEWER

Computer version available on MyWebTech

Download on the App Store

GET IT ON Google Play

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