

# 30 SERIES

## HN3008xx

## HN3016xx



## Embedded Network Video Recorder

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

## 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)

### 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

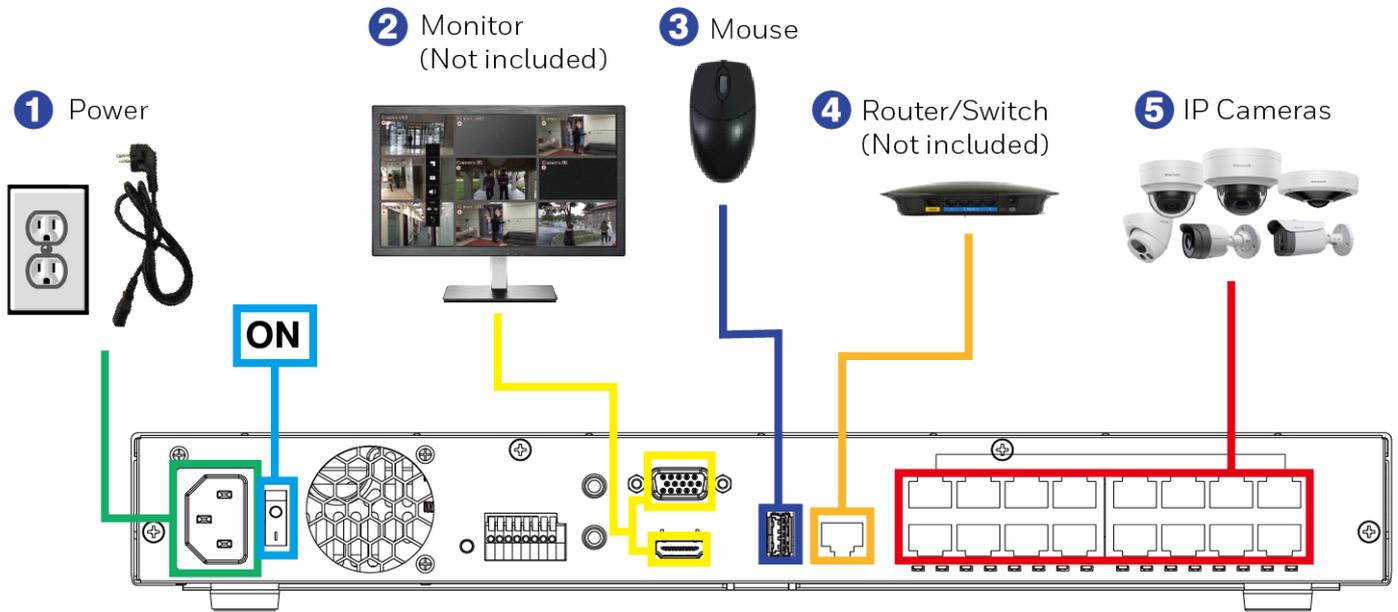
- Together with 30/60 series cameras, plug and play feature makes setup fast and easy
- Full channels POE make it easy for use, also saving total cost of ownership
- The quick wizard for convenient setup
- Quick installations utilizing an intuitive NVR design and easy-to-understand quick installation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

### MARKET OPPORTUNITIES

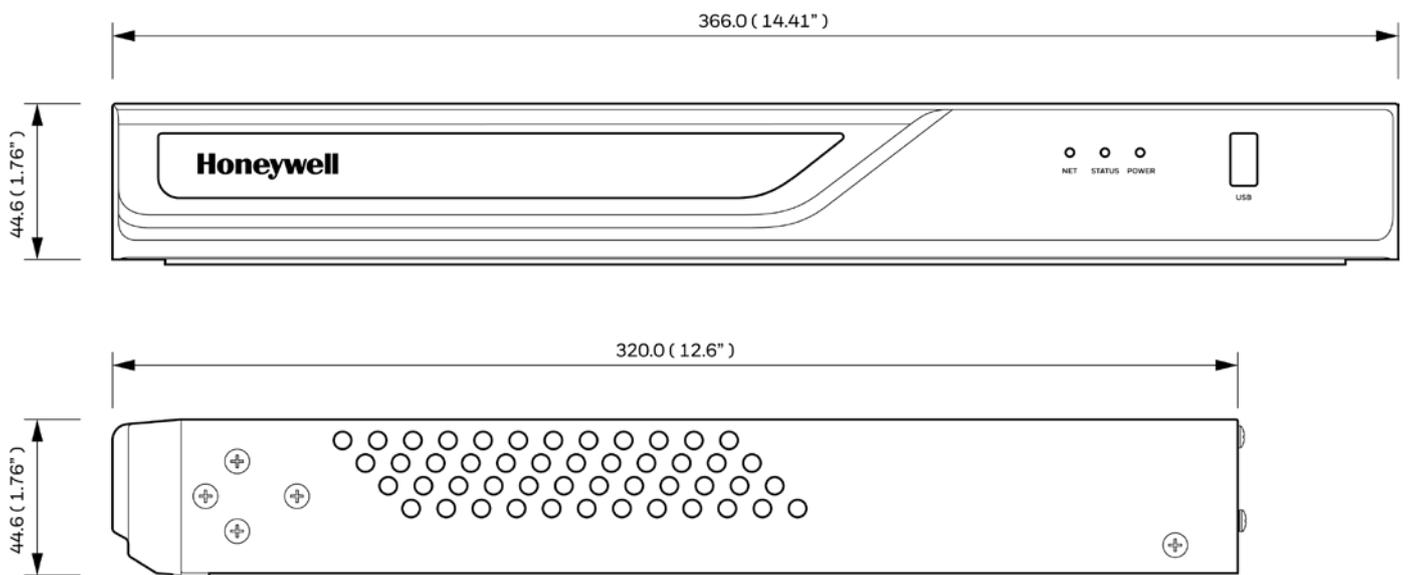
Flexible storage options, high recording and networking performance, robust cyber security performance make these NVRs perfect for a wide range of security applications where compliance is essential and data is protected.

# 30 SERIES EMBEDDED NETWORK VIDEO RECORDER

## SYSTEM DIAGRAM



## DIMENSIONS



# 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 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 2x2: Camera Stream 2 3V: Camera Stream 2 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 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 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) 2560 x 1920 @ 30fps (1-CH) 1920 x 1080 @ 120 fps (4-CH) 1280 x 720 @ 240 fps (8-CH) 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 APIPA (If no external DHCP server)
PoE (HN300802xxx)	Support DHCP Server 802.3at/af compliant PoE ports x 8
PoE (HN301602xxx)	Support DHCP Server 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
Browsers	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 Total PoE power consumption Max. 120 W, 30 W for a single port HN301602xxx: Max. 340 W; 14.29 W without HDD without PoE Total PoE power consumption Max. 200 W, 30 W for a single port

ENVIRONMENTAL	
Operating Temperature	-10°C ~ 55°C (14°F ~ 131°F)
Relative Humidity	0 ~ 95 %
Storage Temperature	-20°C to 70°C (-4°F ~ 158°F)

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 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 UL62368-1, 2 <sup>nd</sup> Ed, 2014-12-01 CAN/CSA C22.2 No. 62368-1-14, 2 <sup>nd</sup> Ed
RoHS	EN50581: 2012

# 30 SERIES EMBEDDED NETWORK VIDEO RECORDER

## RECOMMENDED CAMERAS

DOME CAMERAS	<b>HC30W42R3, HC30W45R3, HC30W45R2, HC60W45R2, HC60W45R4, HC60W35R2, HC60W35R4</b>
BULLET CAMERAS	<b>HC30WB2R1, HC30WB5R1, HC30WB5R2, HC60WB5R5, HC60WB5R2</b>
BALL CAMERAS	<b>HC30WE2R3, HC30WE5R3, HC30WE5R2</b>
FISHEYE CAMERAS	<b>HC30WF5R1</b>
PTZ CAMERAS	<b>HC60WZ2E30</b>

## ORDERING

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

### For more information

[www.security.honeywell.com/uk](http://www.security.honeywell.com/uk)  
[www.security.honeywell.com/me](http://www.security.honeywell.com/me)

### Honeywell Commercial Security

Honeywell Security Office -  
Emaar Business Park,  
Sheikh Zayed Road  
Building No. 2, 2nd floor, 201  
Post Office Box 232362  
Dubai, United Arab Emirates  
Tel: +971 44541704

Aston Fields Road  
Whitehouse Industrial Estate  
Runcorn, Cheshire, WA7 3DL  
United Kingdom  
Tel: +44 (0)8448 000 235  
[www.honeywell.com](http://www.honeywell.com)

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# 30 SERIES

## HC30W42R3

## HC30W45R3

2MP/5MP IP WDR IR Rugged Mini Dome Camera



OPERATIONAL	
Video Standard	NTSC/PAL
Scanning System	Progressive
Image Sensor	<b>HC30W42R3:</b> 1/2.9" Progressive CMOS <b>HC30W45R3:</b> 1/2.7" Progressive CMOS
Number Of Pixels (H x V)	<b>HC30W42R3:</b> 1920(H) x 1080(V) <b>HC30W45R3:</b> 2560(H) x 1920(V)
Minimum Illumination	<b>HC30W42R3:</b> 0.065 lux color @ F2.0, 0 lux B/W with IR LEDs on @ F2.0 <b>HC30W45R3:</b> 0.03 lux color @ F2.0, 0 lux B/W with IR LEDs on @ F2.0
S/N Ratio	> 55 dB
Electronic Shutter Speed	1/5 ~ 1/32,000
IR Distance	Distance up to 30m (98ft)
IR Light Control	Smart IR (Auto/Manual)/OFF
IR Light Number	2
Day/Night	Auto/Day/Night/Schedule
Backlight Compensation	WDR, HLC
White Balance	Auto/Fixed Current/Manual
Gain Control	0-100%
Wide Dynamic Range	120dB
Noise Reduction	3D DNR
Privacy Masking	Off / On (5 Areas)
Motion Detection	Motion/Intrusion/People detection
Tampering Detection	Tampering Detection/Image too dark detection/Image too bright detection/Image too blurry detection
Region Of Interest	Support
Lens	2.8mm, Fixed, F2.0
Angle Of View	<b>HC30W42R3:</b> H:109°, V:59° <b>HC30W45R3:</b> H:103°, V:76° @5M <b>HC30W45R3:</b> H:108°, V:60° @4M
VIDEO	
Video Compression	H.265/H.264/Smart Codec/MJPEG
Resolution	<b>HC30W42R3:</b> 1920x1080/1600x904/1360x768/ 1280x720/640x360; <b>HC30W45R3(5MP):</b> 2560x1920/2048x1536/ 1600x1200/1280x960/800x600/640x480; <b>HC30W45R3(4MP):</b> 2688x1520/1920x1080/ 1600x904/1280x- 720/640x360
Frame Rate	<b>HC30W42R3:</b> Main Stream: 1080P (1 ~ 25/30fps); Sub Stream: 720P (1 ~ 25/30fps); Third Stream: 640x360(1 ~ 25/30fps); <b>HC30W45R3:</b> Main Stream: 5M/4M (1 ~ 25/30fps); *Up to 30fps @5M under H.265 only Sub Stream: 800x600 (1 ~ 25/30fps); Third Stream: VGA (1 ~ 25/30fps)

Bit Rate Control	Constrained bit rate/Fixed quality
Bit Rate	20K ~ 40Mbps
NETWORK	
Ethernet	10 Base-T/100 Base-TX Ethernet (RJ-45)
Supported Web Browsers	Chrome 71+, Internet Explorer 11.0+
Supported OS	Microsoft Windows 7/10
Protocols*	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, DHCP, NTP, DNS, DDNS, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS
Interoperability	ONVIF Profile G/S
Maximum Users Access	10 Users
Security	User account and password protection, HTTPS, IP Filter, Digest authentication, TLS1.2 only, Stream encryption, AES-128/256, SSH/Telnet closed, PCIDSS compliance
Event	Event notification using HTTP, SMTP, NAS server and MicroSD card File upload via HTTP, SMTP, NAS server and MicroSD card
Micro SD	Micro SD/SDHC/SDXC card slot (256GB)
ELECTRICAL	
Power Supply	DC12V, PoE (IEEE 802.3af) (Class 2)
Power Consumption	MAX 6.49W
MECHANICAL	
Dimensions	Ø117.11mm x 89.51mm (Ø4.61" x3.52")
Product Weight	0.54kg
Package Weight	0.88kg
Material	Die-casting aluminum housing with coating
Construction Color	RAL 120-1 (Lyric White)
ENVIRONMENTAL	
Operating Temperature	Starting: -10°C ~ 60°C (14°F ~ 140°F) Working: -30°C ~ 60°C (-22°F ~ 140°F)
Relative Humidity	Less than 90%, non-condensing
Ingress Protection	IP66
Vandal Resistance	IK10
REGULATORY	
Emissions	FCC PART 15B, EN 55032, EN61000-6-3
Immunity	EN 50130-4
Safety	UL 62368-1, EN 62368-1
ROHS	EN 50581
Country of Origin	Taiwan

\*Some development may be required in specific user cases to support some of these protocols in the field as they mature over time.

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# 30 SERIES 2MP/5MP IP WDR IR RUGGED MINI DOME CAMERA

SYSTEM COMPATIBILITY	
MAXPRO NVR PE	Up to 128 IP channels RAID5/6 Enterprise NVR
MAXPRO NVR SE	Up to 64 IP channels System NVR
MAXPRO NVR XE	Up to 16 IP channels system NVR
MAXPRO NVR SOFTWARE	Up to 128 IP channels Recording Software
ADPRO NVR FASTTRACE 2E	Up to 32 IP channels with up to 32 VA channels NVRs, or Up to 20 Analogue channels Hybrids
ADPRO NVR IFT-E	Up to 32 IP channels with up to 32 VA channels NVRs
ADPRO NVR IFT	Up to 32 IP channels or 16 IP channels with up to 16 VA channels NVRs
ADPRO NVR IFT GATEWAY	4 IP channels + 4 VA channels
HEN*4	8/16/32/64-channel Performance Series NVRs (H.264 and H.265)
HEN*3	4/8/16-channel Performance Series NVRs (H.264 and H.265)
30 SERIES NVRS	8/16-channel 30 Series NVRs (4K/ H.264 and H.265)

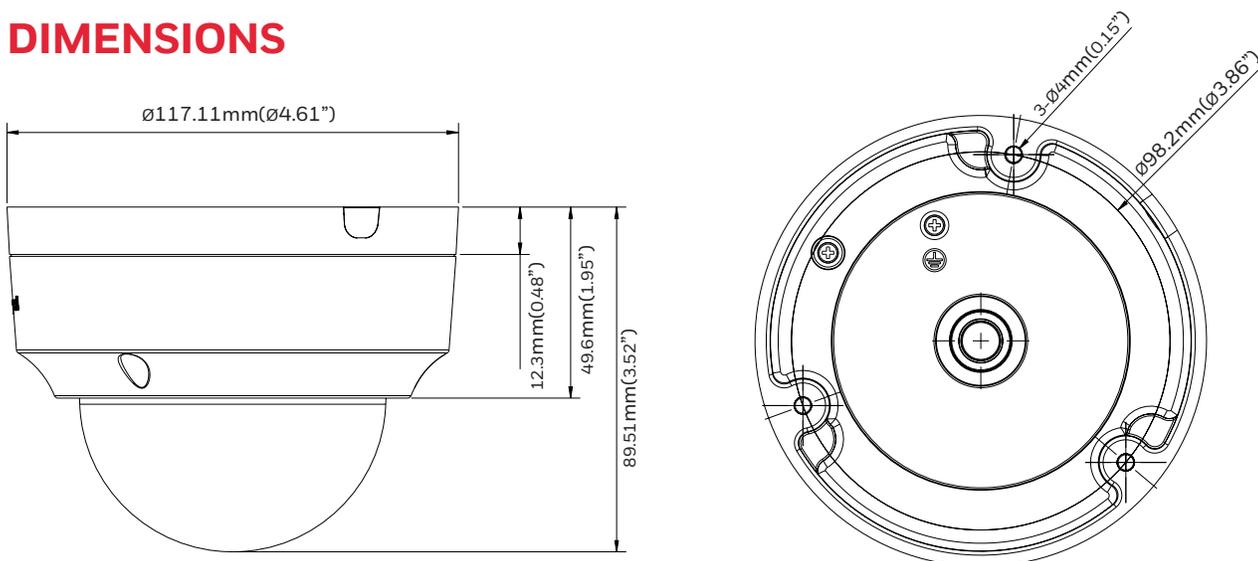
MOUNTS AND ACCESSORIES	
HA30JCB01	Junction box
HA30PMC01	Pendant mount cap
HA30PMB01	Pendant mount base
HA30PME01	200mm pendant mounting pipe
HA30PME01	400mm pendant mounting pipe
HA30WLM01	Wall mount
HA30WLM03	Wall mount
HA30PLM01	Pole mount
HA30CNM01	Corner mount



Learn more about 30 Series accessories

ORDERING	
HC30W42R3	2MP Network Dome Camera, TDN, WDR, 1/2.9" CMOS, 2.8mm, 2 IR LEDs, H.265, PoE, IP66/IK10, NDAA Compliant
HC30W45R3	5MP Network Dome Camera, TDN, WDR, 1/2.7" CMOS, 2.8mm, 2 IR LEDs, H.265, PoE, IP66/IK10, NDAA Compliant

## DIMENSIONS



### For more information

[www.security.honeywell.com](http://www.security.honeywell.com)

### Honeywell Commercial Security

715 Peachtree St. NE  
Atlanta, GA 30308  
1.800.323.4576  
[www.honeywell.com](http://www.honeywell.com)

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