30 SERIES
HC30W42R3
HC30W45R3

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

ONVIF® | **S G**

OPERATIONAL

Video Standard	NTSC/PAL
Scanning System	Progressive
Image Sensor	**HC30W42R3**: 1/2.9" Progressive CMOS **HC30W45R3**: 1/2.7" Progressive CMOS
Number Of Pixels (H × V)	**HC30W42R3**: 1920(H) x 1080(V) **HC30W45R3**: 2560(H) x 1920(V)
Minimum Illumination	**HC30W42R3**: 0.065 lux color @ F2.0, 0 lux B/W with IR LEDs on @ F2.0 **HC30W45R3**: 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	**HC30W42R3**: H:109°, V:59° **HC30W45R3**: H:103°, V:76° @5M **HC30W45R3**: H:108°, V:60° @4M

VIDEO

Video Compression	H.265/H.264/Smart Codec/MJPEG
Resolution	**HC30W42R3**: 1920×1080/1600x904/1360x768/1280x720/640x360; **HC30W45R3**(5MP): 2560x1920/2048x1536/1600x1200/1280x960/800x600/640x480; **HC30W45R3**(4MP): 2688x1520/1920×1080/ 1600x904/1280x-720/640x360
Frame Rate	**HC30W42R3**: Main Stream: 1080P (1 ~ 25/30fps); Sub Stream: 720P (1 ~ 25/30fps); Third Stream: 640x360(1 ~ 25/30fps); **HC30W45R3**: 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

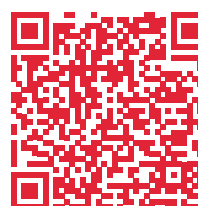|	
Emissions	FCC PART 15B, EN 55032, EN61000-6-3
Immunity	EN 50130-4
Safety	UL 62368-1, EN 62368-1
ROHS	EN 50581
Country of Origin	Taiwan

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

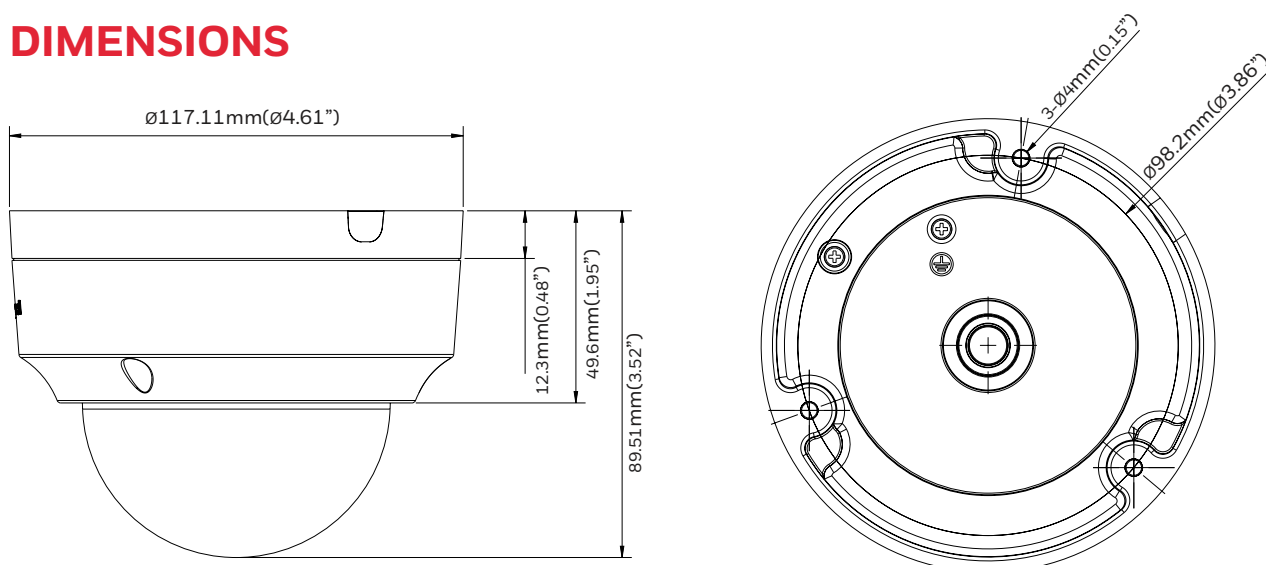|	
MAXPRO NVR PE	Up to 128 IP channels RAID5/6 Enterprise NVR
MAXPRO NVR SE	Up to 64 IP channels System NVR
MAXPRO NVR XE	Up to 16 IP channels system NVR
MAXPRO NVR SOFTWARE	Up to 128 IP channels Recording Software
ADPRO NVR FASTTRACE 2E	Up to 32 IP channels with up to 32 VA channels NVRs, or Up to 20 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

Ø117.11mm(Ø4.61")

12.3mm(0.48")

49.6mm(1.95")

89.51mm(3.52")

3-Ø4mm(0.15")

Ø98.2mm(Ø3.86")

For more information
www.security.honeywell.com

Honeywell Commercial Security
715 Peachtree St. NE
Atlanta, GA 30308
1.800.323.4576
www.honeywell.com

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THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell

30 SERIES

Embedded Network Video Recorder
HN300401xx | HN300802xx | HN301602xx

Introducing the Honeywell 30 Series Embedded NVRs, our newest line of affordable, robustly featured NVRs that offer 4K HD (UHD) video resolution and are fully NDAA Section 899 compliant.

Onvif® **S G**

5 YEAR WARRANTY

Choose between 4, 8 or 16 channels, multiple hard drive options, and up to 20 TB of internal storage for an ideal and flexible solution to fit your surveillance needs.

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
- Supports H.265 HEVC Smart Codec/H.264/MJPEG Video Codec
- De-warp fisheye camera video in NVR local, web client, Honeywell Video Management Viewer (HVMV) and HVMV Mobile App for 360° situational awareness
- Together with 30/60 Series cameras, offers bandwith saving features such as Dynamic Intra-Frame Period, Smart Codec and Smart Frame Rate
- Received People Detection Notification for efficient and effective protection
- With two-way audio communication between the Honeywell Video Management Viewer (HVMV) to 30/60 Series cameras, intruders can be warned to leave before any damage is done

MARKET OPPORTUNITIES

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

FEATURES AND BENEFITS

H.265/H.264/MJPEG codec decoding

HDMI/VGA simultaneous video output

USB ports supports keyboard and mouse (US Keyboard)

Supports up to 4 alarm input channels and 1 alarm relay output channels

Supports sending notifications through email, alarm out

Supports push notification on mobile app

Supports recording a video clip of events for distribution

Supports uploading still images at the time of the event through email

Supports two-way audio

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)

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FEATURES AND BENEFITS, CONTINUED

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
- Push Notification feature available on mobile app to ensure timely staff notification no matter where they are located

SECURE AND 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, provides an end-to-end encrypted solution, with video streaming encrypted from the 30/60 Series cameras to NVR, and video streaming/control encrypted between NVR and web client/viewer/mobile app
- PCI-DSS compliant

CONVENIENT, FLEXIBLE STORAGE OPTIONS

- Internal storage supports 2 HDDs for 8 and 16 CH NVR expandable up to 20 TB (10 TB per drive) and 1 HDD for 4 CH NVR
- Store video clips and snapshots to external storage, such as USB device on local side or PC client on web side
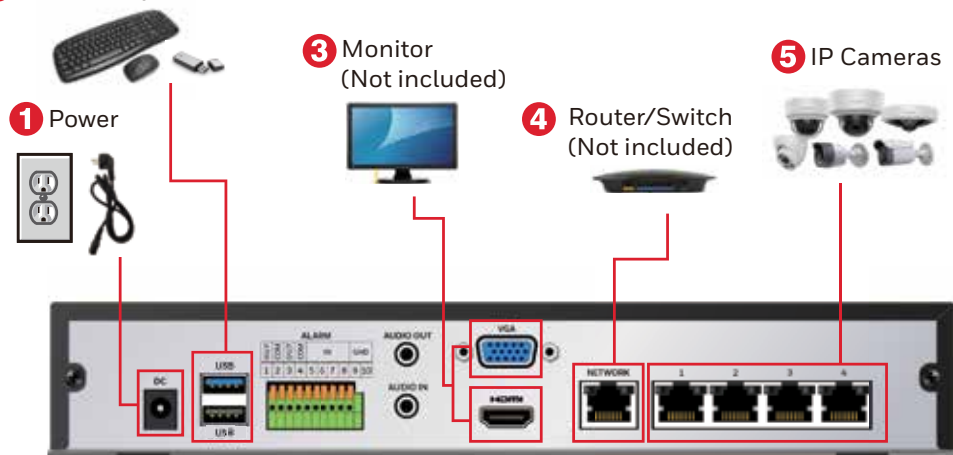
EASY TO USE

- Together with 30/60 Series cameras, the plug-and-play feature makes set-up fast and easy
- Full channels PoE make it easy-to-use, also saves on installation time and cost
- Quick wizard provides easy and convenient setup
- Quick installations utilizing an intuitive NVR design and easy-to-understand quick installation guides
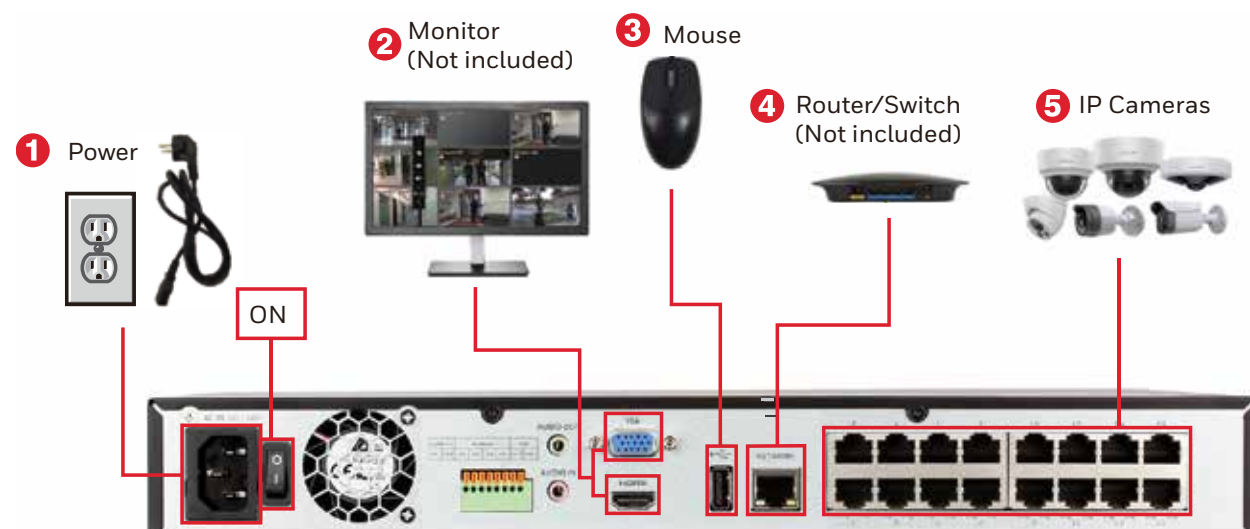
30 Series Embedded Network Video Recorder Technical Specifications

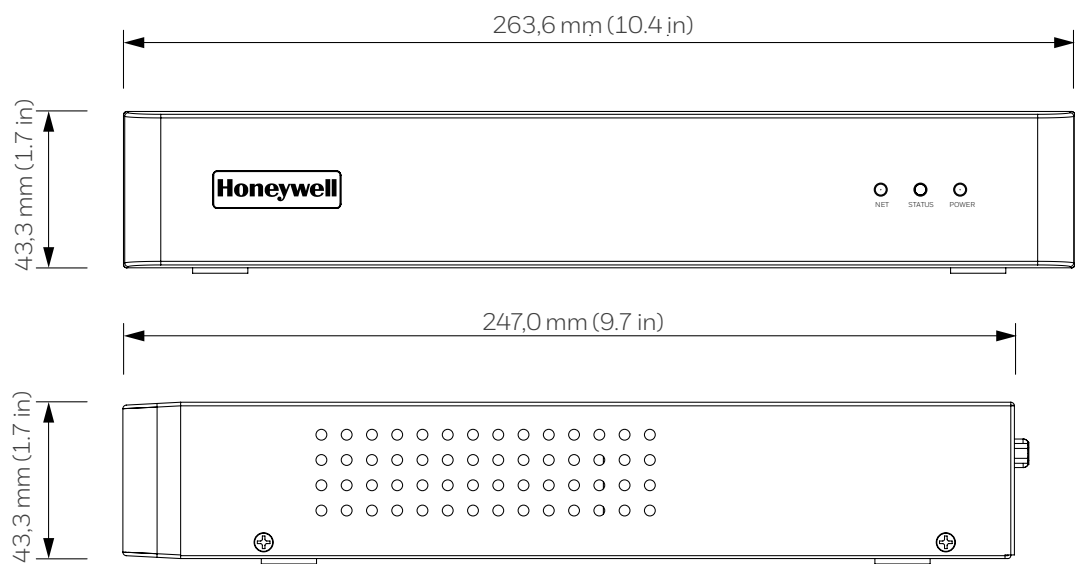## HN300401xx System Diagram

2 Mouse/Keyboard/Udisk

3 Monitor (Not included)

5 IP Cameras

1 Power

4 Router/Switch (Not included)

HN300802xx/HN301602xx System Diagram

2 Monitor (Not included)

3 Mouse

4 Router/Switch (Not included)

5 IP Cameras

1 Power

ON

30 Series Embedded Network Video Recorder Technical Specifications

HN300401xx Dimensions

263,6 mm (10.4 in)

43,3 mm (1.7 in)

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NET   STATUS   POWER

247,0 mm (9.7 in)

43,3 mm (1.7 in)

HN300802xx/HN301602xx Dimensions

366,0 mm (14.4 in)

66,6 mm (1.8 in)

Honeywell

NET   STATUS   POWER

USB

320,0 mm (12.6 in)

66,6 mm (1.8 in)

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	**HN300401xx:** 4 channels **HN300802xx:** 8 channels **HN301602xx:** 16 channels

AUDIO

Audio	3,5 mm Line out x1
Audio Format	G.711, G.726

DISPLAY

Interface	HDMI x 1 (4K max), VGA x1 (1080P)
Resolution	3840 x 2160, 1920 x 1080, 1280 x 720
Local Display Split	**HN300401xx:** 1x1, 2x2, 1P+3,3V **HN300802xx:** 1x1, 2x2, 3x3, 1M+5, 1P+3, 1P+6, 2P+3, 3V **HN301602xx:** 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	**HN300401xx:** total 32 Mbps, maximum 8 Mbps per channel **HN300802xx:** total 64 Mbps, maximum 8 Mbps per channel **HN301602xx:** 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	**HN300401xx:** 2 **HN300802xx/HN301602xx:** 1

STORAGE

Internal HDD	**HN300401xx:** Internal x 1 (3.5"), **HN300802xx/HN301602xx:** 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 @30 fps(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, Fisheye display mode, export clips
Snapshot	JPEG

NETWORK

Ethernet	**HN300401xx:** 10/100 Mbps Ethernet (RJ-45) x 1 **HN300802xx & HN301602xx:** 10/100/1000 Mbps Ethernet (RJ-45) x 1 APIPA (If no external DHCP server)
PoE	Support DHCP Server **HN300401xx:** 802.3at/af compliant PoE ports x 4 **HN300802xx:** 802.3at/af compliant PoE ports x 8 **HN301602xx:** 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	**HN300401xx:** Back x2 **HN300802xx/HN301602xx:** Front x1; Back x1

ELECTRICAL

Power Supply	100 V AC to 240 V AC, 50 Hz/60 Hz
Power Consumption	**HN300401xx:** max. 76 W; 14.29 W without HDD without PoE Total PoE power consumption max. 50 W, 30 W for a single port **HN300802xx:** max. 230 W; 14.29 W without HDD without PoE Total PoE power consumption max. 120 W, 30 W for a single port **HN301602xx:** 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	-10ºC to 55ºC (14ºF to 131ºF)
Relative Humidity	0 to 95 %
Storage Temperature	−20ºC to 70ºC (-4ºF to 158 ºF)

PHYSICAL

Dimensions (W x D x H)	**HN300401xx:** 263,6 mm x 247,0 mm x 43,3 mm (10.4 in x 9.7 in x 1.7in) **HN300802xx/HN301602xx:** 366,0 mm x 320,0 mm x 44,6 mm (14.4 in x 12.6 in x 1.8 in)
Weight (Without HDD)	**HN300401xx:** 2,35 kg (5.2 lb) **HN300802xx:** 3,52 kg (7.8 lb) **HN301602xx:** 3,63 kg (7.4 lb)

REGULATORY

Emissions	FCC Part 15B, EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013
Immunity	EN 50130-4: 2011+A1: 2014
Safety	EN 62368-1:2014 UL 62368-1, 2nd Ed, 2014-12-01 CAN/CSA C22.2 No. 62368-1-14, 2nd Ed
RoHS	EN 50581: 2012

RECOMMENDED CAMERAS

Dome Cameras	HC30W25R3, HC30W25R3-12V, HC30W42R3, HC30W45R3, HC30W45R2, HC60W45R2, HC60W45R4, HC60W35R2, HC60W35R4, HC60W34R2, HC60W34R2L, HC60W44R2, HC60W44R2L
Bullet Cameras	HC30WB2R1, HC30WB5R1, HC30WB5R2, HC60WB5R5, HC60WB5R2, HC60WB4R2,HC60WB4R2L,HC60WB4R2, HC60WB4R2L
Ball Cameras	HC30WE2R3, HC30WE5R3, HC30WE5R2
Fisheye Cameras	HC30WF5R1
PTZ Cameras	HC60WZ5R30, HC60WZ2E30

ORDERING

HN30040100	4 Chs NVR 4K (8 MP) Support, H.265/H.264, 4 Chs POE, Stream Encryption, 0 TB
HN30040101	4 Chs NVR 4K (8 MP) Support, H.265/H.264, 4 Chs POE, Stream Encryption, 1 TB
HN30040102	4 Chs NVR 4K (8 MP) Support, H.265/H.264, 4 Chs POE, Stream Encryption, 2 TB
HN30040104	4 Chs NVR 4K (8 MP) Support, H.265/H.264, 4 Chs POE, Stream Encryption, 4 TB
HN30040106	4 Chs NVR 4K (8 MP) Support, H.265/H.264, 4 Chs POE, Stream Encryption, 6 TB
HN30040108	4 Chs NVR 4K (8 MP) Support, H.265/H.264, 4 Chs POE, Stream Encryption, 8 TB
HN30040110	4 Chs NVR 4K (8 MP) Support, H.265/H.264, 4 Chs POE, Stream Encryption, 10 TB
HN30080200	8 Chs NVR 4K (8 MP) Support, H.265/H.264, 8 Chs POE, Stream Encryption, 0 TB
HN30080202	8 Chs NVR 4K (8 MP) Support, H.265/H.264, 8 Chs POE, Stream Encryption, 2 TB
HN30080204	8 Chs NVR 4K (8 MP) Support, H.265/H.264, 8 Chs POE, Stream Encryption, 4 TB
HN30080208	8 Chs NVR 4K (8 MP) Support, H.265/H.264, 8 Chs POE, Stream Encryption, 8 TB
HN30080216	8 Chs NVR 4K (8 MP) Support, H.265/H.264, 8 Chs POE, Stream Encryption, 16 TB
HN30160200	16 Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs POE, Stream Encryption, 0 TB
HN30160204	16 Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs POE, Stream Encryption, 4 TB
HN30160208	16 Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs POE, Stream Encryption, 8 TB
HN30160216	16 Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs POE, Stream Encryption, 16 TB
HN30160220	16 Chs NVR 4K (8 MP) Support, H.265/H.264, 16 Chs POE, Stream Encryption, 20 TB

For More Information
buildings.honeywell.com/security

Honeywell Commercial Security
715 Peachtree St NE
Atlanta, GA 30308
1.800.323.4576
www.honeywell.com

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