

HONEYWELL COLOR NIGHT VISION VIDEO SURVEILLANCE KIT

Color Night Vision Cameras and NVR In One Package

The Honeywell Color Night Vision Video Surveillance Kit is an economical, high quality video security solution tailored for value-driven users who need up to twelve cameras. Each kit package includes either 4, 6, or 12 5 MP network cameras paired with a compatible NVR supporting configurations for 4, 8, or 16 channels. This all-inclusive approach ensures users receive a robust security system without sacrificing quality or functionality while staying within budget constraints.



HKCNV040101CE5R304
4 Ch NVR (x 1) + 5 MP Ball Cameras (x 4)

FULL-FEATURED KIT DESIGNED FOR SMALL BUSINESSES

- **AI-Powered Smart Video Analytics:** Effectively reduces false alarms
- **H.265 Smart Codec:** Allows up to a 50% reduction in storage requirements
- **High-Resolution Imaging:** Full color 5 MP cameras (2880 x 1620 at 30 fps) with a 2.8 mm fixed lens, 30m (98ft) maximum IR distance and smart video analytics capture clear, detailed footage for quickly identifying critical events.
- **Enhanced Night Vision:** Honeywell's advanced Color Night Vision technology provides clear full color images even in low-light conditions.
- **Free Honeywell HSV Mobile App:** Enables remote monitoring even while on the go
- **Record, Review, Retain:** Live, playback functionality with comprehensive storage capacity for video recording retention
- **Durable Construction:** Robust IP66, IP67 rated cameras built to withstand harsh environmental conditions and provide long-lasting performance



HKCNV080102CE5R306
8 Ch NVR (x 1) + 5 MP Ball Cameras (x 8)

EASY TO SET UP AND USE

- **Ease of Installation:** Plug-and-play features ensure a hassle-free, easy setup process for both novices or experienced installers.
- **Flexible Adaptability:** 4, 8, or 16 channel NVR options with 1, 2 or 4 TB pre-installed hard disk drives to meet your growing needs

SECURE AND COMPLIANT

- NDAA Section 889 Compliant
- Meets PCI-DSS regulatory and liability requirements



HKCNV160204CE5R312
16 Ch NVR (x 1) + 5 MP Ball Cameras (x 12)

HONEYWELL-COLOR NIGHT VISION VIDEO SURVEILLANCE KIT

TECHNICAL SPECIFICATIONS - NVR



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
Security	Encrypted streaming and control
VIDEO	
Inputs	HNCNV040101: 4 channels HNCNV080102: 8 channels HNCNV160204: 16 channels
AUDIO	
Audio Input/Output	HNCNV040101/HNCNV080102: 3.5 mm Line out x1 HNCNV160204: 3.5 mm Line in x1, 3.5 mm Line out x1
Two-way Communication	HNCNV040101/HNCNV080102: N/A HNCNV160204: Supported
Audio Format	G.711
DISPLAY	
Interface	HDMI x1 (4K Max), VGA x1 (1080P)
Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1024 x 768
Display Split	HNCNV040101: 1x1, 2x2, customs HNCNV080102: 1x1, 2x2, 3x3, 1+7, customs HNCNV160204: 1x1, 2x2, 3x3, 4x4, 1+7, customs
OSD	Time OSD, channel OSD
Stream Application	HNCNV040101: 1x1: 1ch 4K MAX 2x2: 4ch 2MP HNCNV080102: 1x1: 1ch 4K MAX 2x2: 4ch 2MP 3x3: 8ch D1 HNCNV160204: 1x1: 1ch 4K MAX 2x2: 4ch 4MP 3x3: 9ch 2MP 4x4: 16ch D1
PTZ Operation	Direction control, home, iris
RECORDING	
Compression	H.265/H.264
Resolution	Up to 3840 x 2160
Frame Rate	30 fps
Recording Mode	Continuous, Manual, Event
Pre-Event Recording Interval	HNCNV040101: Main stream: 1.25 M; Sub stream: 0.75 Mbps HNCNV080102: Main stream: 1M; Sub stream: 0.5 Mbps HNCNV160204: Main stream: 1M; Sub stream: 0.5 Mbps
Post-Event Recording Interval	30 s (Max. 60 s)
Recording Stream	Camera Stream 1 Camera Stream 2
Recording Throughput	HNCNV040101: up to 40 Mbps HNCNV080102: up to 64 Mbps HNCNV160204: up to 160 Mbps*
VIDEO DETECTION AND ALARMS	
Event	HNCNV040101/HNCNV080102: Camera: Motion, Video Loss, Smart Motion, Scene Change, Intrusion, Line Crossing Detection, Multi Loitering, People Counter, Audio Detection System: Disk Error, IP Conflict, Network Disconnect HNCNV160204: Camera: Motion, Video Loss, Smart Motion, Scene Change, Intrusion, Line Crossing Detection, Multi Loitering, People Counter, Audio Detection System: System Alarm In/Out, Disk Error, IP Conflict, Network Disconnect
Event Action	HNCNV040101/HNCNV080102: Push message to App, Pop up message to monitor, Email, Buzzer, FTP/SFTP, PTZ, Full screen, Event recording HNCNV160204: Push message to App, Pop up message to monitor, Email, Buzzer, FTP/SFTP, PTZ, Full screen, Alarm out, Event recording
Alarm Input	HNCNV040101/HNCNV080102: N/A HNCNV160204: 8
Alarm Out	HNCNV040101/HNCNV080102: N/A HNCNV160204: 2
STORAGE	
Internal HDD	HNCNV040101/HNCNV080102: Internal x1 (3.5") HNCNV160204: Internal x2 (3.5")
HDD Max. Capacity	10 TB
Manual Backup	USB Dongle (FAT Format)

PLAYBACK AND BACKUP	
Sync Playback	HNCNV040101: 4 channels HNCNV080102: 8 channels HNCNV160204: 16 channels
Decoding	HNCNV040101: H.265/H.264: 3840X2160 @ 30 fps (1-CH) 2560*1920 @30fps(1-CH) 1920X1080 @ 120 fps (4-CH) HNCNV080102: H.265/H.264: 3840X2160 @ 30 fps (1-CH) 2560*1920 @30fps(1-CH) 1920X1080 @ 120 fps (4-CH) 720X576 @ 240 fps (8-CH) HNCNV160204: H.265/H.264: 3840X2160 @ 30 fps (1-CH) 2560*1440 @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
NETWORK	
Ethernet	HNCNV040101/HNCNV080102: 10/100Mbps Ethernet (RJ-45) x 1 HNCNV160204: 10/100/1000Mbps Ethernet (RJ-45) x 1
PoE	HNCNV040101: 802.3af compliant PoE ports x 4 HNCNV080102: 802.3af compliant PoE ports x 8 HNCNV160204: 802.3af/at compliant PoE ports x 16
Supported Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTPSP/RTP/, RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP filter, P2P
Maximum Number Of Users	16
Network Throughput	HNCNV040101: up to 40 Mbps HNCNV080102: up to 64 Mbps HNCNV160204: up to 160 Mbps*
Smart Phone Compatibility	iOS 11 or later and Android 5.0 or later support
Browsers	Edge, Chrome, Firefox, Safari
AUXILIARY INTERFACE	
USB Ports	Front x2, USB 2.0; Back x1, USB 2.0
ELECTRICAL	
Power Supply	HNCNV040101/HNCNV080102: DC48V/1.25A, 50/60Hz HNCNV160204: 100 to 240VAC
Power Consumption	HNCNV040101/HNCNV080102: Max. 60 W Total PoE power consumption Max. 40 W, 15 W for a single port < 15 W (without HDD) HNCNV160204: Max. 180 W, Total PoE power consumption Max. 130 W, 30 W for a single port < 15 W (without HDD)
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)
PHYSICAL	
Dimensions	HNCNV040101/HNCNV080102: 255 × 237.3 × 45.3 mm (10.04" × 9.34" × 1.78") HNCNV160204: 372 × 313.3 × 46.5 mm (14.65" × 12.33" × 1.83")
Weight	HNCNV040101: 0.9 kg (1.98 lb) without HDD HNCNV080102: 1 kg (2.2 lb) without HDD HNCNV160204: 1.8 kg (3.97 lb) without HDD
REGULATORY	
Emissions	FCC Part 15, CE (EN 55032, EN IEC 61000-3-2, EN 61000-3-3), ICES-003, Comply with UKCA
Immunity	CE (EN 50130-4, EN 55035) Comply with UKCA
Safety	CE (EN 62368-1) Comply with UKCA
RoHS	EN IEC 63000
Warranty	2 Year

* 160 Mbps is achievable when video streams are not encrypted.

HONEYWELL-COLOR NIGHT VISION VIDEO SURVEILLANCE KIT

TECHNICAL SPECIFICATIONS - CAMERA



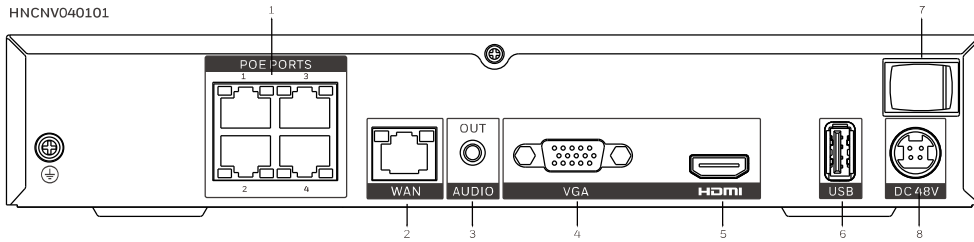
OPERATIONAL	
RAM	2 Gigabits
Flash	1 Gigabits
Video Standard	NTSC/PAL
Scanning System	Progressive
Image Sensor	1/2.7" CMOS
Sensor Size (H x V)	5.768 mm x 3.248 mm
Number of Pixels (H x V)	2880 x 1620
Minimum Illumination (Color/BW)	Color: 0.01 Lux @ (F1.6, 30 IRE), B/W: 0 Lux with Light on
S/N Ratio	50 dB
Electronic Shutter Speed	1/5 to 1/20,000 s
White Light	Warm light
IR Distance	IR up to 30 m Warm light up to 20 m
IR Light Control	Smart IR (Auto/Manual)/OFF
IR Light Number	3 (Used as both IR and Warm light)
Day/Night	Auto/Day/Night/Time
Backlight Compensation	WDR, BLC, HLC
White Balance	Auto/ Tungsten/ Fluorescent/ Daylight/ Shadow/ Manual
Gain Control	0 ~ 100%
Wide Dynamic Range	Up to 120 dB
Noise Reduction	2D/3D DNR
Lens	2.8 mm, Fixed Iris, F 1.6
Angle of View (H x V)	H: 110°, V: 59°
Privacy Masking	Off/On (4 Areas)
Defog	Supported
Local Storage	Micro SD (up to 1 TB)
Pan Range	0° to 360°
Tilt Range	0° to 80°
Rotation Range	0° to 360°
VIDEO	
Video Compression	H.265 HEVC/ H.264/ MJPEG, Smart Codec
Resolution	Stream1: PAL: 2880 x 1620, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps NTSC: 2880 x 1620, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream2: PAL: 704 x 576/640 x 480/352 x 288 @25fps NTSC: 704 x 480/640 x 480/352 x 240 @30fps Stream3: PAL: 640 x 480/352 x 288/320 x 240 @25fps NTSC: 640 x 480/352 x 240/320 x 240 @30fps
Number of Video Streams	3 (2 for encryption)
Frame Rate Main Stream	MAX 30fps for all resolutions All resolutions max 15fps for encryption under HTTPS
Frame Rate Second Stream	MAX 30fps MAX 15fps for encryption under HTTPS
Frame Rate Third Stream	MAX 30fps (Not available for encryption)
Bit Rate	Stream1: 2880 x 1620, 2560 x 1440, 2304 x 1296, 1920 x 1080@25/30 fps 500kbps-12000kbps 1280 x 720 @ 25/30fps 200kbps-8000kbps Stream2: 704 x 576(PAL)/704 x 480(NTSC) @25/30fps 100kbps-6000kbps 640 x 480 @ 25/30fps 100kbps-3000kbps 352 x 288(PAL)/352 x 240(NTSC) @25/30fps 100kbps-1500kbps Stream3: 640 x 480 @ 25/30fps 100kbps-3000kbps 352 x 288(PAL)/352 x 240(NTSC), 320 x 240 @25/30fps 100kbps-1500kbps

AUDIO	
Audio Compression	G.711 a/ G.711 Mu
Audio Stream	1-way, Built-in Mic input
Audio Interface	Built-in Mic
NETWORK	
Ethernet	10 Base-T/100 Base-TX Ethernet (RJ-45)
Supported Web Browsers	Chrome/Edge
Supported OS	Microsoft Windows 10/11
Protocols*	IPv4, IPv6, TCP / IP, HTTP, HTTPS, RTSP / RTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS
Interoperability	ONVIF Profile G/S/T/M
Maximum Users Access	10 Users
Security	User account and password protection, HTTPS, IP Filter, Digest authentication, TLS1.2&TLS1.3, Stream encryption, AES128 / 256, SSH / Telnet closed, PCI-DSS compliance
Secure Boot	Supported
Languages Supported	Arabic, Czech, Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Spanish, Turkish, Traditional Chinese
EVENTS/ANALYTICS	
Video Analytics	Motion detection, Smart motion, Scene change, Intrusion, Multi loitering, People counter, Line crossing detection
Event Type	Video motion detection, Recording notification, Tampering
Event Linkage	Event notification, Email and Micro SD card
Region of Interest	8
ELECTRICAL	
Power Supply	DC12V, 1A; (-15% to +25%) / PoE 44-57 V, 350mA
Power Consumption (Max)	Max 5 W
MECHANICAL	
Dimensions	Ø110 x 94.4 mm (Ø4.33" x 3.72")
Package Dimensions (D x D x H)	152 x 152 x 128 mm (5.98" x 5.98" x 5.04")
Product Weight	0.489 kg (1.078 lb)
Package Weight	0.651 kg (1.435 lb)
Body Material	Metal + Plastic
Color	RAL9003,Black
ENVIRONMENTAL	
Operating Temperature	-30°C ~ 55°C (-22°F ~ 131°F)
Relative Humidity	Less than 90 %, non-condensing
Ingress Protection	IP66, IP67
Impact Resistance	IK10 (housing only)
REGULATORY	
Emissions	FCC PART 15, CE(EN55032), Complies with UKCA
Immunity	CE(EN 50130-4, EN 55035), Complies with UKCA
Safety	CE(EN 62368-1), Complies with UKCA
RoHS	CE(EN 63000), UAE (Cabinet Decree No.10 of 2017)
Warranty	2 Year
DORI (EN62676-4 STANDARD)	
Detect	64 m (209.97 ft)
Observe	25.6 m (83.99 ft)
Recognize	12.8 m (41.99 ft)
Identify	6.4 m (21 ft)
* 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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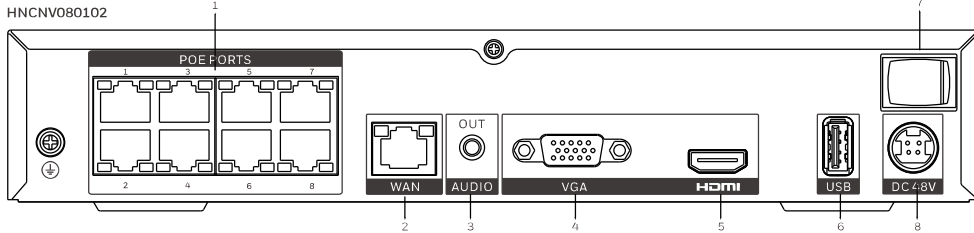
SYSTEM DIAGRAM - NVR

HNCNV040101



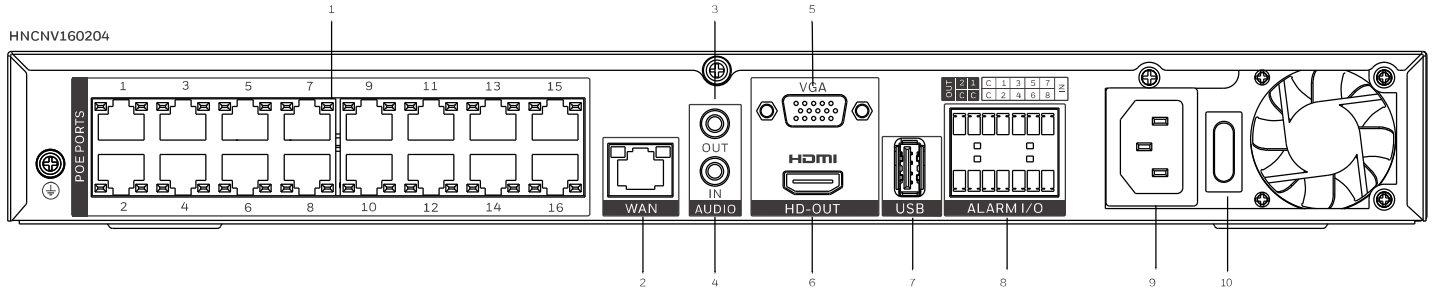
1. PoE Ports 2. WAN Port 3. Audio Out 4. VGA Port 5. HDMI Port 6. USB Port 7. Power Switch 8. Power Input

HNCNV080102



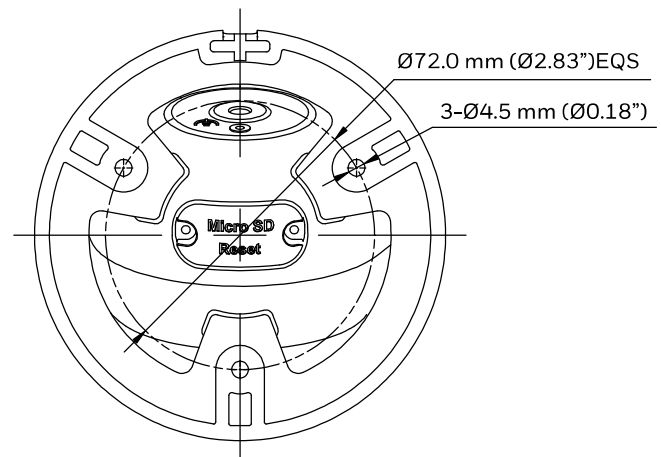
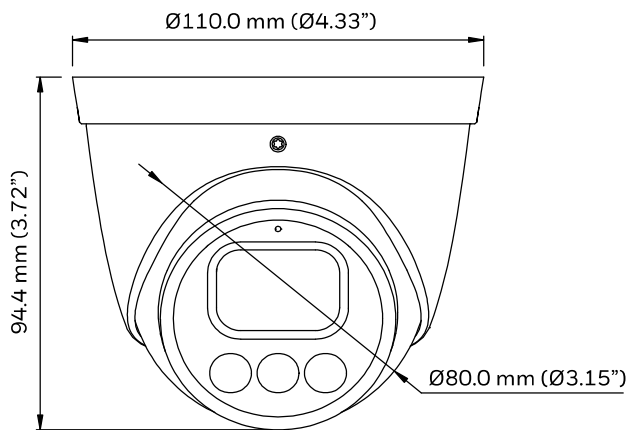
1. PoE Ports 2. WAN Port 3. Audio Out 4. VGA Port 5. HDMI Port 6. USB Port 7. Power Switch 8. Power Input

HNCNV160204



1. PoE Ports 2. WAN Port 3. Audio Out 4. Audio In 5. VGA Port 6. HDMI Port 7. USB Port 8. Alarm Input/Output 9. Power Input 10. Power Switch

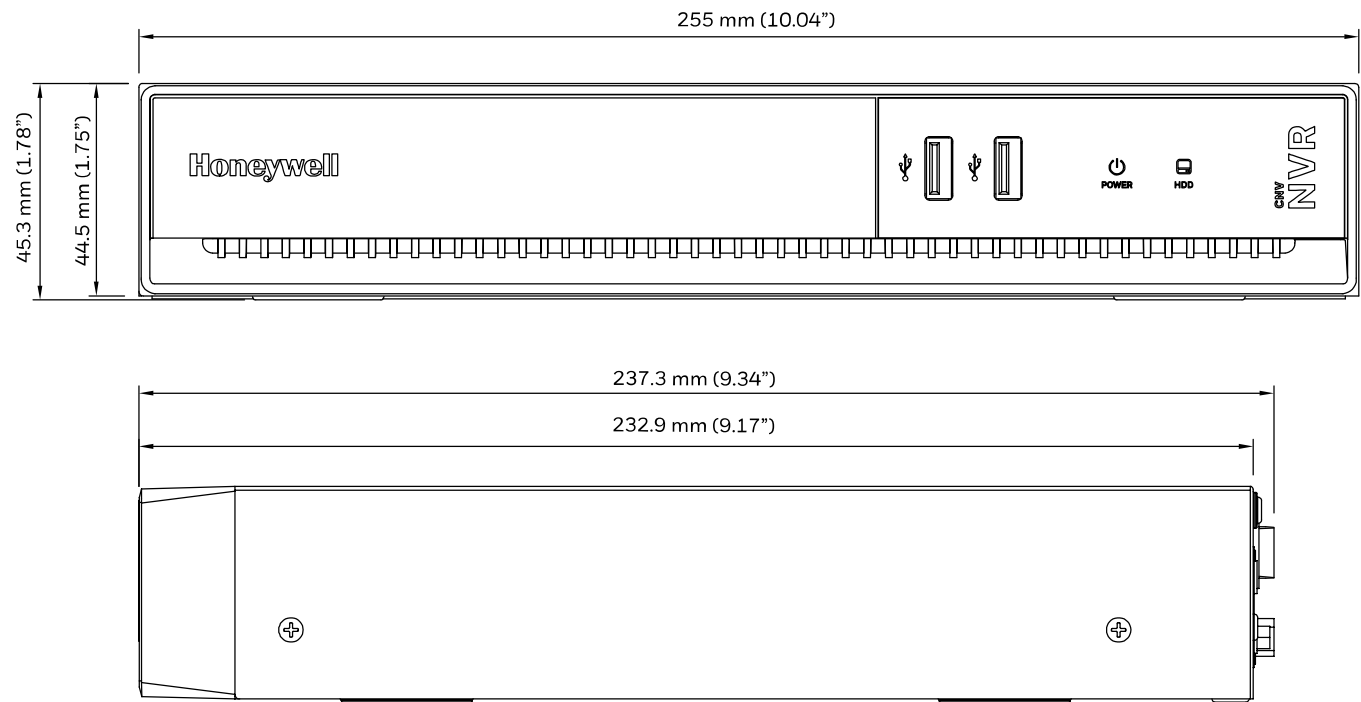
DIMENSIONS - CAMERA



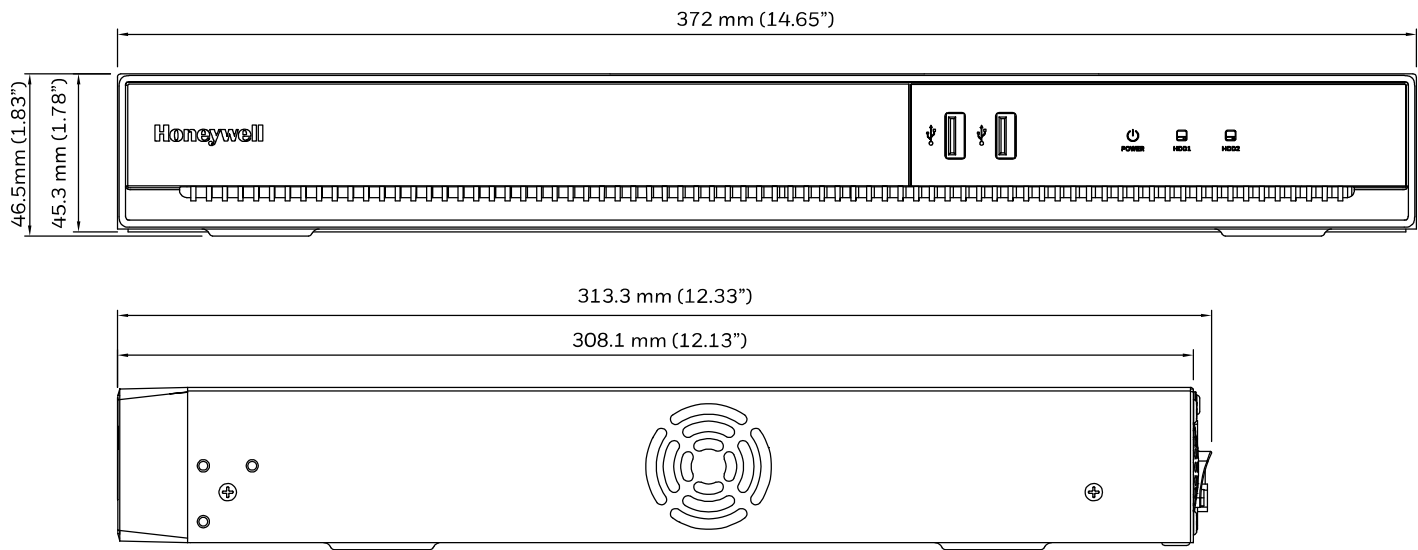
HONEYWELL-COLOR NIGHT VISION VIDEO SURVEILLANCE KIT

DIMENSIONS - NVR

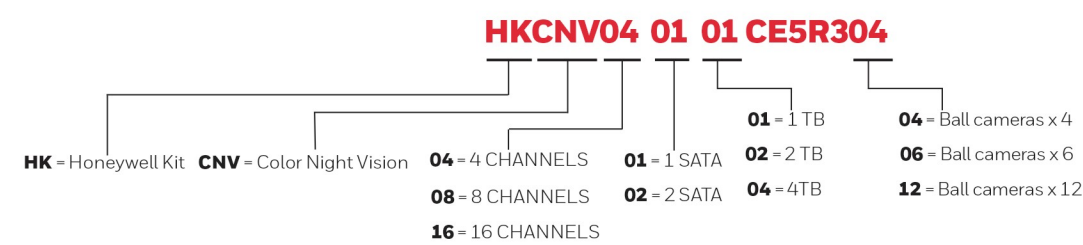
HNCNV040101 / HNCNV080102



HNCNV160204



PART NUMBER LOOKUP - KIT



RECOMMENDED ACCESSORIES - CAMERA

OPTIONAL MOUNTS AND ACCESSORIES COMPATIBLE WITH COLOR NIGHT VISION CAMERAS*			
HA35JCBHA1	35S all-in-one box	HA35CLM02	35S ceiling mount pendent extension, 252 mm
HA35JCBWML	35S wall mount bracket	HA60WLMB1	60S wall mount bracket, 1.5NPT female
HA35PMC03	35S fixed camera cap, 1.5NPT male	HA35CNM01	35S corner mount bracket
HA35CLM01	35S ceiling mount base with adapter	HA35PLM01	35S pole mount bracket

*Mounting accessories are not included with camera and must be ordered separately.

ACCESSORIES	HA35JCBHA1	HA35JCBWML	HA35PMC03	HA35CLM01	HA35CLM02	HA60WLMB1	HA35CNM01	HA35PLM01
CAMERA								
Color Night Vision Camera								

ORDERING

FULL COLOR NIGHT VISION VIDEO SURVEILLANCE KIT	
HKCNV040101CE5R304	Honeywell Color Night Vision Video Surveillance Kit: Includes 4 Ch Color Night Vision NVR (x 1) , 1TB Storage, 5MP Ball Cameras (x 4)
HKCNV080102CE5R306	Honeywell Color Night Vision Video Surveillance Kit: Includes 8 Ch Color Night Vision NVR (x 1) , 2TB Storage, 5MP Ball Cameras (x 6)
HKCNV160204CE5R312	Honeywell Color Night Vision Video Surveillance Kit: Includes 16 Ch Color Night Vision NVR (x 1) , 4TB Storage, 5MP Ball Cameras (x 12)



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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