12 MP (4K Ultra HD) Outdoor IR IP Minidome Cameras

H4D8GR1

Honeywell is taking quality and reliability to the next level with the new equIP® line of 4K Ultra HD IP cameras. The Honeywell outdoor TDN Ultra HD IR mini dome cameras offer incomparable picture clarity, hassle-free flexible system integration, and secure data transmission—and they install easily too!

Ultra HD 4K Image Quality

- Ultra HD 12 MP (4K) 20 fps image with a 1/1.7" 12 megapixel progressive scan CMOS or full HD 8 MP 25/30 fps image
- Digital WDR (DWDR) ensures glare-free images
- True Day/Night provides vivid color images by day and clear black-and-white images at night using a removable IR cut filter
- Excellent low-light performance with 3D noise reduction, saving storage and bandwidth together with H.265 Profile codec

Flexible Surveillance Solution

- 4.1–12.8 mm, F1.53, motorized focus/zoom lens
- H.265, H.264 and MJPEG codec, triple stream support
- IR LEDs provide up to 145 ft (45 m) of illumination in dimly lit or nighttime scenes (depending on scene reflectance)
- Smart IR technology provides even distribution of IR
- Waterproof (IP67) and IK10 impact-resistant camera housing
- −40°F to 140°F (−40°C to 60°C) working temperature
- ONVIF Profile S and G compliant
- Security features include individual signed certificates and data encryption
- Cameras can be retrofitted on many existing NVR installations without requiring additional storage

Onboard Video Storage

- Supports up to 128 GB microSDHC (Class 10) card for local video storage when network is interrupted. Card not included

Easy to Install and Use

- Built-in PoE+ (Power over Ethernet 802.3at) eliminates separate power supply and associated wiring; 24 VAC/12 VDC inputs where PoE power is unavailable
- Remote configuration, motorized zoom adjustments and auto focus through web client or from the NVR
- Included accessories: security screw driver, 4S mount adapter, rubber gasket, and conduit adapter
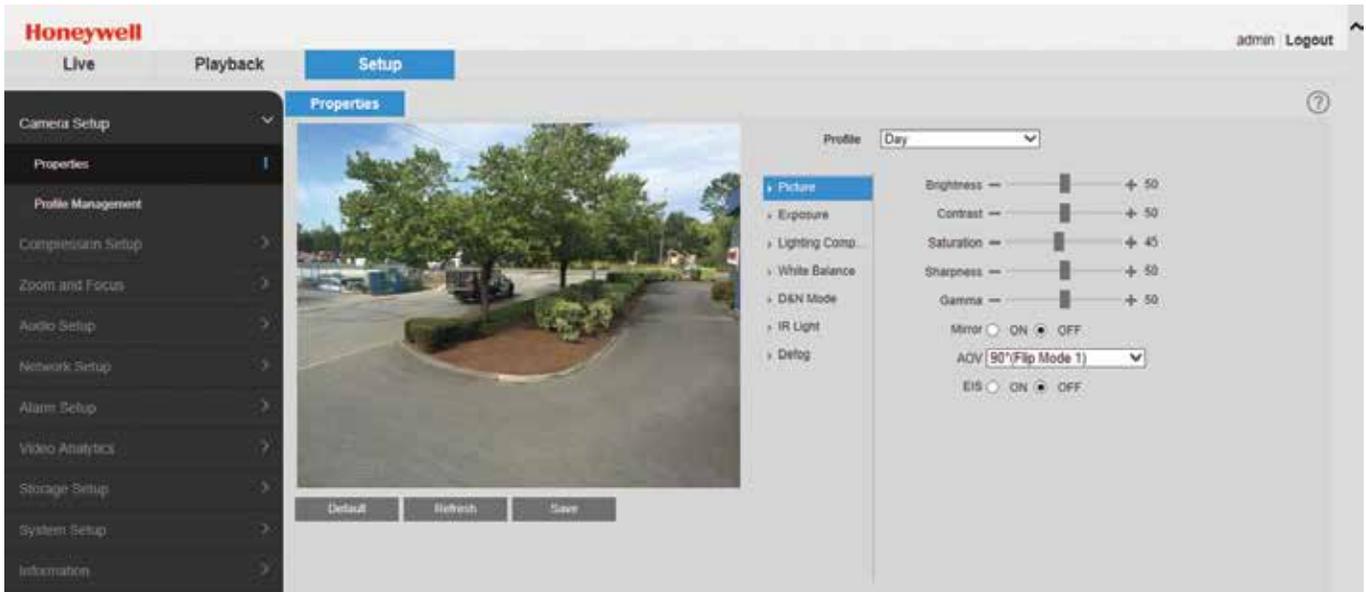
Market Opportunities

These fully featured attractive cameras are perfect for outdoor installations that require excellent picture quality at minimal bandwidth while offering maximum protection against dust, dirt, and water. Boasting a sleek modern design and offering 4K high definition images, the cameras are suited for a wide range of applications.

FEATURES AND BENEFITS

- Ultra HD 4K/12 MP resolution at 20 fps or 8 MP at 25/30 fps
- Up to triple stream support
- 145 ft (45 m) IR distance, depending on scene reflectance

- 1/1.7" 12 megapixel progressive scan CMOS imager
- Excellent low light performance with down to 0 lux BW (with IR LEDs on)
- Digital WDR

- Choice of 24 VAC, 12 VDC or PoE+ (802.3at) power inputs
- 4.1–12.8 mm, F1.53, motorized focus and zoom lens
- Corridor mode viewing capability

- Rugged outdoor housing with IP67 ingress protection rating and IK10 impact resistance rating
- Onboard camera storage up to 128 GB microSD card (not included)

- ONVIF profile S and G compliant
- Built-in cyber security hardware chipset
- Global language support with QIGs, Web GUI, and online help in 15 languages
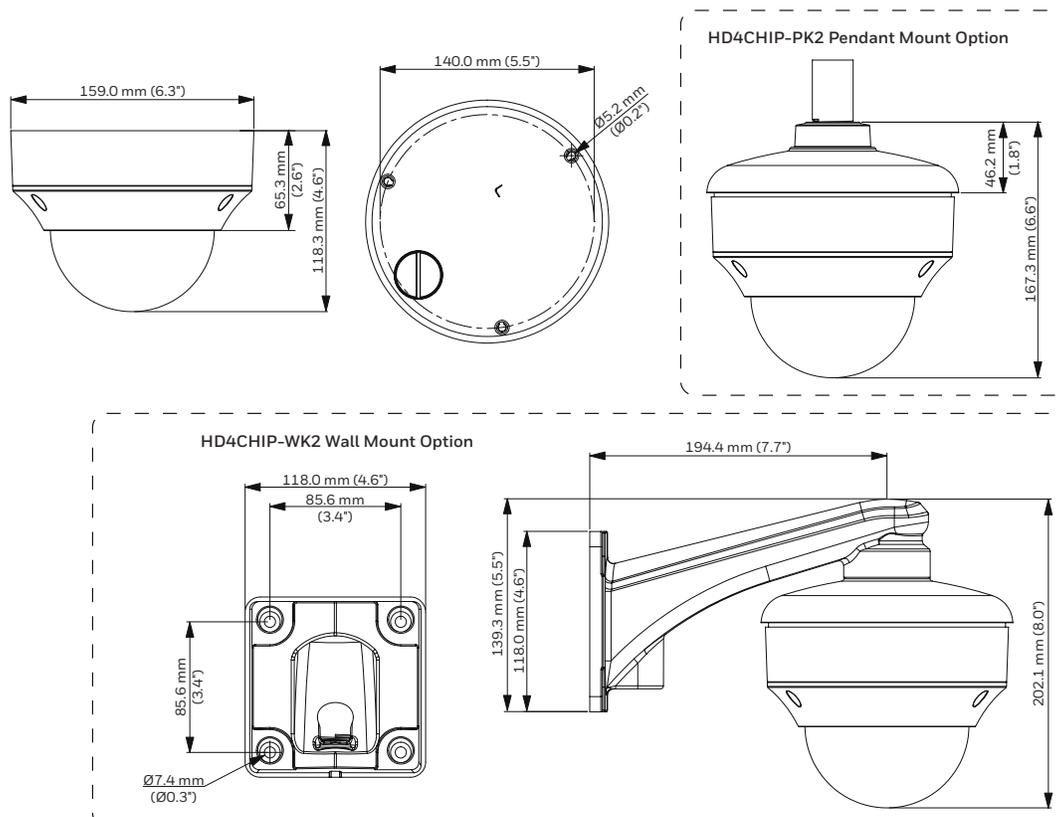
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FEATURES CONTINUED

The camera can be configured to automatically detect and respond to events such as motion in the scene, alarm inputs, network failure, and/or camera tampering. Automated responses include: sending a notification through email, FTP, and/or HTTP; sending a still image of the event through email and/or FTP; and recording a video clip of the event to a configured microSDHC card. Setup can be done through the web client.

DIMENSIONS

HD4CHIP-PK2 Pendant Mount Option

HD4CHIP-WK2 Wall Mount Option

12 MP (4K Ultra HD) Outdoor IR IP Minidome Cameras Technical Specifications

OPERATIONAL	
VIDEO STANDARD	NTSC/PAL
SCANNING SYSTEM	Progressive scan
IMAGE SENSOR	1/1.7" 12 MP progressive CMOS
NUMBER OF PIXELS (H × V)	4000 × 3000
MINIMUM ILLUMINATION	0.02 lux color @ F1.53, 0 lux B/W with IR LEDs on @ F1.5
S/N RATIO	50 dB
ELECTRONIC SHUTTER SPEED	Auto, Manual, 1/3(4) – 1/100,000 s
IR DISTANCE	Up to 145 ft. (45 m), depending on scene reflectance
DAY/NIGHT	Auto (ICR)/Color/BW
BACKLIGHT COMPENSATION	BLC/HLC/DWDR/SSA
WIDE DYNAMIC RANGE	Digital WDR (DWDR)
WHITE BALANCE	Auto/Natural/Street Lamp/Outdoor/Customize Region
GAIN CONTROL	Auto/Manual
NOISE REDUCTION	3DNR
PRIVACY MASKING	Up to 4 configurable areas
CORRIDOR MODE	Yes
ELECTRONIC IMAGE STABILIZATION	Off/On
DEFOG	Auto/Manual/Off
LENS	4.1—12.8 mm, MFZ, F1.53
ANGLE OF VIEW	Horizontal: 112° — 35°
AUDIO/TWO-WAY	Line In/Out
ALARM INPUT/OUTPUT	2/1
ETHERNET	RJ-45 (10/100/1000Base-T)

IP SPECIFICATIONS		
VIDEO COMPRESSION		H.265/H.264+/H.264/MJPEG Bit rate control (CBR and VBR)
RESOLUTION	16:9	8M (3840×2160)/3M (2304×1296)/1080p (1920×1080)/720p (1280×720)
	4:3	12M(4000×3000)/5M (2560×1920)/3M (2048×1536)/1.3M (1280×960)/VGA (640×480)/CIF (352×288/352×240)
	OTHER	8M (4096×2160)/6M (3072×2048)/SXGA (1280×1024)/D1 (704×576/704×480)
FRAME RATE	MAIN STREAM	12M (4000×3000) 1–20 fps; 8M (4096×2160) or lower resolution at 1–25/30 fps
	SUB STREAM	D1/VGA/CIF up to 25/30 fps
	THIRD STREAM	1080p/720p/D1/VGA up to 25/30 fps
AUDIO COMPRESSION		G.711a/G.711Mu/AAC/G.726
AUDIO STREAM		Full duplex, simplex
SUPPORTED WEB BROWSERS		Internet Explorer® (11.0+), Firefox, Chrome
SUPPORTED OS		Windows® 7 32-bit/64-bit, Windows 10

IP SPECIFICATIONS (CON'T)	
SUPPORTED PROTOCOLS*	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, SSL, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, Bonjour, DNS, DDNS, IEEE 802.1x, QoS, NTP, IP Filter, Multicast, ONVIF
COMPATIBILITY	ONVIF Profile S and G
MAXIMUM USERS ACCESS	20 users
SECURITY	Multiple user access levels with enhanced password policy, IP filtering, IEEE 802.1x, Strong Digest authentication for Access permission, HTTPS, TLS1.2 only, high strength encrypted algorithm AES-256, SSH/Telnet closed, FTP disabled to reduce surface being attacked, PCI-DSS compliant, built-in cybersecurity hardware chipset
MICRO SD	Up to 128 GB microSDHC card, Class 10 (not included)
MICRO SD FUNCTION	• Event trigger recording • Continuous and scheduled recording • Automatic recording when network fails
LANGUAGES SUPPORTED	English, Arabic, Czech, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Turkish

ELECTRICAL	
POWER SUPPLY	PoE+ (802.3at) Class 4, 12 VDC/24 VAC
AC FREQUENCY	50/60 Hz
POWER CONSUMPTION	18 W max. (IR LEDs on and motorized lens working)

MECHANICAL	
DIMENSIONS	6.2" × 4.6" (159.0 mm × 118.0 mm)
PRODUCT WEIGHT	2.3 lb. (1.05 kg)
PACKAGE WEIGHT	4.6 lb. (2.1 kg)
CONSTRUCTION	Die-cast aluminum housing with powder coat
CONSTRUCTION COLOR	RAL 9003 (White)

ENVIRONMENTAL	
OPERATING TEMPERATURE	−40ºF to 140ºF (−40ºC to 60ºC)
RELATIVE HUMIDITY	Less than 95%, non-condensing
INGRESS PROTECTION	IP67
IMPACT RESISTANCE	IK10

REGULATORY	
EMISSIONS	EN55032, FCC Part 15B, AS/NZS CISPR 22:2009+A1 (2010)
IMMUNITY	EN50130-4
SAFETY	EU: EN60950-1, EN60950-22 North America UL listed to UL/CSA 60950-1, 60950-22
ROHS	EN50581

* 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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RECOMMENDED ACCESSORIES

SYSTEM INTEGRATION	
ONVIF support and open API software integration. Refer to www.onvif.org for the ONVIF specification and the Honeywell Open Technology Alliance website (http://www.security.honeywell.com/hota/) to learn more about our open and integrated solutions.	

HONEYWELL DEVICE INTEGRATION	
MAXPRO® NVR FAMILY	Entry to Enterprise Level Network Video Recorders (version 4.0 and greater)
MAXPRO® VMS FAMILY	Entry to Enterprise Level Network Video VMS (version R410 and greater)
DVM	DVM R600.1 SP1
HUS	HUS 5.1

HOUSING AND MOUNTS		
HB4G-PM		Pole Mount Adapter
HB34G-CM		Corner Mount Adapter
HD4CHIP-PK2		Pendant Mount Bracket
HD4CHIP-WK2		Wall Mount Bracket
H4G-CB		Replacement Dome (Clear)
H4G-SB		Replacement Dome (Smoke)

ORDERING

H4D8GR1	Network TDN Ultra 4K HD IR Rugged Dome Camera, 1/1.7" CMOS, 12 MP, 4.1–12.8 mm MFZ, PoE+, H.265

For more information

www.honeywell.com/security

Honeywell Security and Fire

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