H4L2GR1/H4W2GR1/ H4W2GR2/H4W4GR1

Outdoor WDR IR Rugged IP Cameras

Honeywell is taking quality and reliability to the next level with the New equIP® line of rugged IP cameras. The Honeywell outdoor TDN ultra low-light IR minidome cameras offer outstanding picture clarity, hassle-free flexible system integration, and secure data transmission—and they look great too!

Superior Image Quality

- Full HD 1080p 25/30 fps image with a 1/2.7" or 1/2.8" 2 MP sensor, or full HD 4 MP 20 fps image with a 1/3" 4 MP sensor
- True WDR up to 140 dB ensures glare-free images
- True Day/Night provides vivid color images by day and clear black-and-white images at night with ICR
- Excellent low-light performance with 3D noise reduction, saving storage and bandwidth together with H.264 High Profile codec
- Ultra Low Light technology is able to capture high quality color images in low light environments

Flexible Surveillance Solution

- 2.7–12 mm or 7–22 mm, F1.4, motorized focus/zoom lens
- H.264 and MJPEG codec, triple stream support
- IR LEDs provide up to 150' (50 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 vandal 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 DVR/NVR installations without requiring additional storage

Easy to Install and Use

- Built-in PoE (Power over Ethernet) eliminates separate power supply and associated wiring; 24 V AC/12 V DC 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 (varies by region)

Onboard Video Storage

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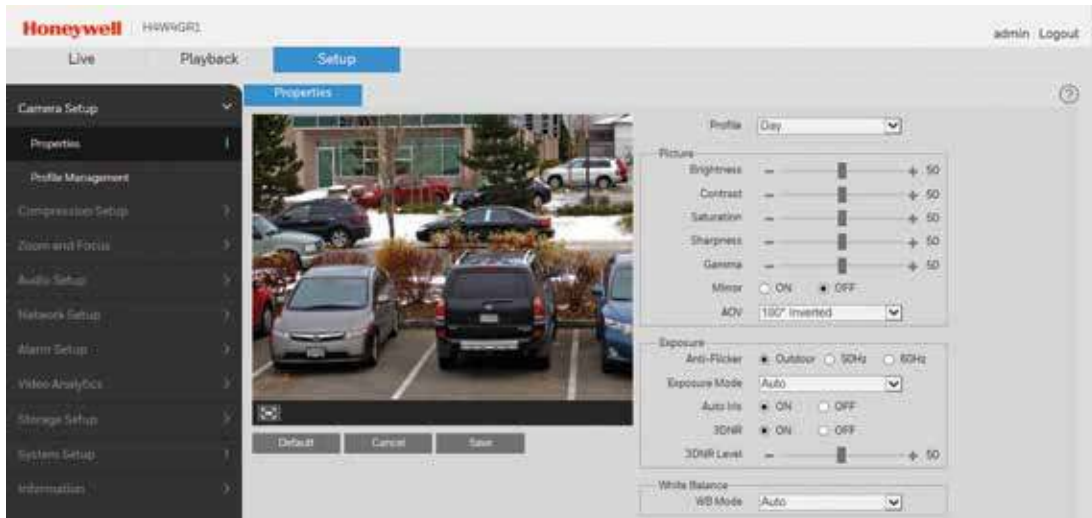
FEATURES AND BENEFITS

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 two different lens options, the cameras are suited for a wide range of applications.

- 1/2.7" or 1/2.8" 2 MP progressive scan imager or 1/3" 4 MP progressive scan imager
- Ultra-low light performance

- 150 ft (50 m) IR distance, depending on scene reflectance
- True WDR: up to 140 dB
- Excellent low light performance with down to 0 lux BW (with IR LEDs on)

- Up to triple stream support
- 1080p resolution at 25/30 fps or 4 MP at 20 fps
- 2.7-12 mm or 7-22 mm, F1.4, motorized focus and zoom lens

- Rugged outdoor housing with IP67 ingress protection rating and IK10 vandal resistance rating
- Corridor mode viewing capability

- On board camera storage: up to 128 GB micro SD card (not included)
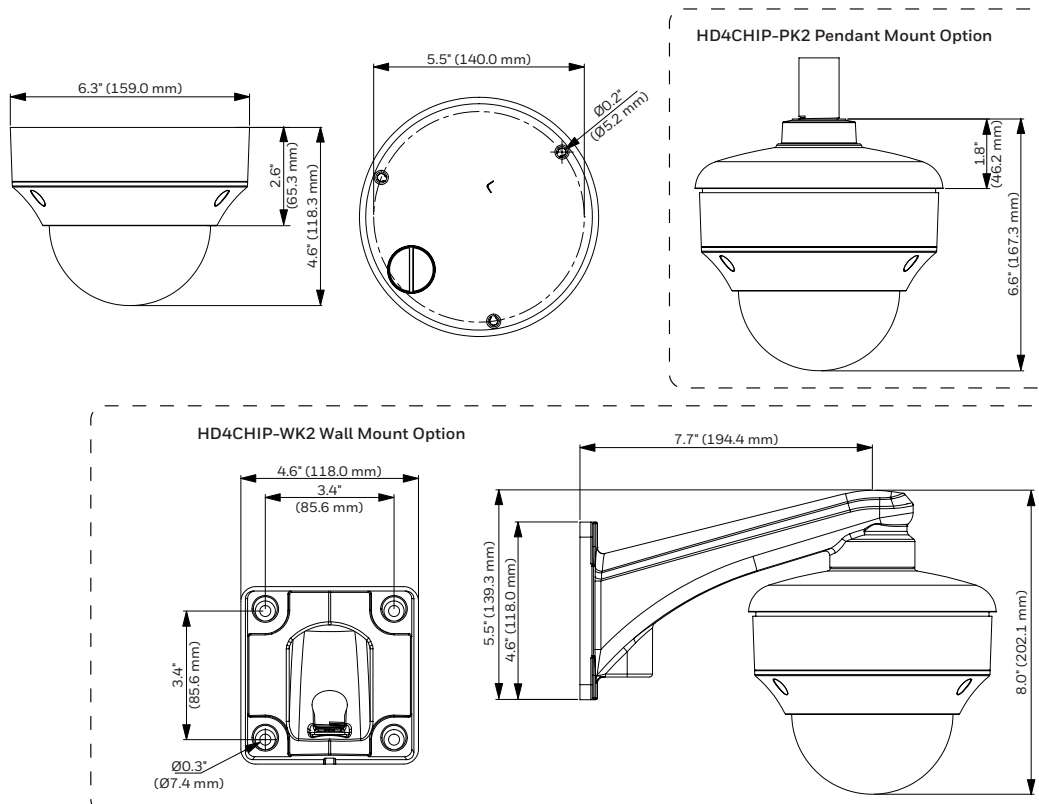- ONVIF profile S and G compliant

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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 a web client or from an NVR.

DIMENSIONS

6.3" (159.0 mm)

2.6" (65.3 mm)

4.6" (118.3 mm)

5.5" (140.0 mm)

Ø0.2" (Ø5.2 mm)

HD4CHIP-PK2 Pendant Mount Option

1.8" (46.2 mm)

6.6" (167.3 mm)

HD4CHIP-WK2 Wall Mount Option

4.6" (118.0 mm)

3.4" (85.6 mm)

3.4" (85.6 mm)

Ø0.3" (Ø7.4 mm)

7.7" (194.4 mm)

5.5" (139.3 mm)

4.6" (118.0 mm)

8.0" (202.1 mm)

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SPECIFICATIONS

OPERATIONAL

VIDEO STANDARD	NTSC/PAL
SCANNING SYSTEM	Progressive scan
IMAGE SENSOR	**H4L2GR1:** 1/2.8" 2 MP progressive CMOS
	H4W2GR1/H4W2GR2: 1/2.7" 2 MP progressive CMOS
	H4W4GR1: 1/3" 4 MP progressive CMOS
NUMBER OF PIXELS (H×V)	**H4L2GR1/H4W2GR1/H4W2GR2:** 1920 × 1080
	H4W4GR1: 2560 × 1440
MINIMUM ILLUMINATION	**H4L2GR1:** 0.005 lux color/0 lux with IR LEDs on @ F1.4
	H4W2GR1/H4W2GR2/H4W4GR1: 0.01 lux color/0 lux with IR LEDs on @ F1.4
S/N RATIO	50 dB or more
ELECTRONIC SHUTTER SPEED	Auto, Manual, 1/3(4)–1/10 000 s
IR DISTANCE	Up to 150' (50 m), depending on scene reflectance
DAY/NIGHT	Auto(ICR)/Color/BW
BACKLIGHT COMPENSATION	BLC/HLC
WIDE DYNAMIC RANGE	H4L2GR1: 140 dB
	H4W2GR1/H4W2GR2/H4W4GR1: 120 dB
WHITE BALANCE	Auto/Manual
GAIN CONTROL	Auto/Manual
NOISE REDUCTION	3DNR
PRIVACY MASKING	Up to 4 areas
CORRIDOR MODE	Yes
LENS	**H4L2GR1/H4W2GR1/H4W4GR1:** 2.7–12 mm, MFZ, F1.4
	H4W2GR2: 7–22 mm, MFZ, F1.4
HORIZONTAL ANGLE OF VIEW	**H4L2GR1:** 97°–34°
	H4W2GR1/H4W4GR1: 99°–34°
	H4W2GR2: 44°–16°
AUDIO/TWO-WAY	Line In/Out

IP SPECIFICATIONS

VIDEO COMPRESSION		H.264/H.264H/H.264B/MJPEG
RESOLUTION		**H4L2GR1/H4W2GR1/H4W2GR2:** 1080p (1920×1080)/SXGA (1280x1024)/1.3M (1280×960)/720p (1280×720)/D1 (704×576/704×480)/CIF (352×288/352×240)
		H4W4GR1: 4M (2688x1520 with Analog video output off, or 2560x1440 with Analog video output on)/3M (2304×1296)/1080p (1920×1080)/SXGA (1280x1024)/1.3M (1280×960)/720p (1280×720)/D1 (704×576/704×480)/CIF (352×288/352×240)
FRAME RATE	MAIN STREAM	**H4W2GR1/H4W2GR2/H4L2GR1 (PAL):** 1-25 fps (1080p, SXGA-1280x1024, 1280x960, 720p, D1-704x576) **H4W2GR1/H4W2GR2/H4L2GR1 (NTSC):** 1-30 fps (1080p, SXGA-1280x1024, 1280x960, 720p, D1-704x480) **H4W4GR1 (PAL):** 1-20 fps (2688x1520 with Analog video output off, 2560x1440); 1-25 fps (2304x1296, 1080p, SXGA-1280x1024, 1280x960, 720p) **H4W4GR1 (NTSC):** 1-20 fps (2688x1520 with Analog video output off, 2560x1440); 1-30 fps (2304x1296, 1080p, SXGA-1280x1024, 1280x960, 720p)

IP SPECIFICATIONS

FRAME RATE	SUB STREAM	**H4W2GR1/H4W2GR2/H4L2GR1 (PAL):** 1-25 fps (D1-704x576, CIF-352x288) **H4W2GR1/H4W2GR2/H4L2GR1 (NTSC):** 1-30 fps (D1-704x480, CIF-352x240) **H4W4GR1 (PAL):** 1-20 fps (D1-704x576, CIF-352x288) **H4W4GR1 (NTSC):** 1-20 fps (D1-704x480, CIF-352x240)
	TRIPLE STREAM	**H4W2GR1/H4W2GR2 (PAL):** 720p 1-14 fps, D1 (704x576) 1-25 fps, CIF (352x288) 1-25 fps **H4W2GR1/H4W2GR2 (NTSC):** 720p 1-3 fps, D1 (704x480) 1-9 fps, CIF (352x240) 1-30 fps **H4W4GR1 (PAL):** 1-20 fps (720p, D1-704x576, CIF-352x288) **H4W4GR1 (NTSC):** 1-20 fps (720p, D1-704x480, CIF-352x240) **H4L2GR1 (PAL):** 1080p 1-20 fps, 1-25 fps (720p, D1-704x576) **H4L2GR1 (NTSC):** 1080p 1-15 fps, 1-30 fps (720p, D1-704x480)
AUDIO COMPRESSION		G.711a/G.711u/AAC
AUDIO STREAM		Dual Channel
ETHERNET		RJ-45 (10/100Base-T)
PROTOCOLS*		IPv4/IPv6, HTTP, HTTPS, TCP/IP, UDP, UPnP, ICMP, IGMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, QoS, SNMP v2c/v3, LDAP (Client), NFS, RTCP, Bonjour
COMPATIBILITY		ONVIF Profile S/G
MAX. USER ACCESS		20 users
LANGUAGES SUPPORTED		English, Arabic, Czech, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Turkish

ELECTRICAL

INPUT VOLTAGE	12VDC +/-10%, 24VAC +/-10%, PoE IEEE 802.3af
AC FREQUENCY	50/60 Hz
POWER CONSUMPTION	24VAC 12W max (zoom/focus/IRs/heater active), typical 10.5W PoE (802.3af) Class 0

MECHANICAL

DIMENSIONS	6.2" × 4.6" (159.0 × 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	RAL9003 (White)
RECORDING AND STORAGE	Up to 128 GB microSDHC card Class 10 (not included)

ENVIRONMENTAL

TEMPERATURE	−40°F to 140°F (−40°C to 60°C)
RELATIVE HUMIDITY	10% to 100%, condensing
INGRESS PROTECTION	IP67
VANDAL RESISTANCE	IK10

REGULATORY

EMISSIONS	FCC Part 15, CE (EN 55022); Complies with RCM (AS/NZS)
IMMUNITY	CE (EN 50130-4)
SAFETY	North America UL Listed to UL/CSA 60950-1, CE (EN 60950-1)
	North America UL Listed to UL/CSA 60950-22, CE (EN 60950-22)

NOTE:

* 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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ORDERING

SYSTEM INTEGRATION		ACCESSORIES	
OPEN IP INTEGRATION		**HOUSINGS AND MOUNTS**	
		HB4G-PM	Pole Mount Bracket
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.		HB34G-CM	Corner Mount Bracket
		HD4CHIP-PK2	Pendant Mount Bracket
		HD4CHIP-WK2	Wall Mount Bracket
		H4G-CB	Replacement Dome (Clear)
		H4G-SB	Replacement Dome (Smoke)

ORDERING	
CAMERAS	
H4L2GR1	Network TDN Ultra Low-Light, 140 db Wide Dynamic, IR Rugged Dome Camera, 1/2.8" Imager, 2 MP, 2.7-12 mm MFZ Lens, 3 IR LEDs, PoE, H.264
H4W2GR1	Network TDN Low-Light, 120 dB Wide Dynamic, IR Rugged Dome Camera, 1/2.7" Imager, 2 MP, 2.7-12 mm MFZ Lens, 3 IR LEDs, PoE, H.264
H4W2GR2	Network TDN Low-Light, 120 dB Wide Dynamic, IR Rugged Dome Camera, 1/2.7" Imager, 2 MP, 7-22 mm MFZ Lens, 3 IR LEDs, PoE, H.264
H4W4GR1	Network TDN Low-Light, 120 dB Wide Dynamic, IR Rugged Dome Camera, 1/3" Imager, 4 MP, 2.7-12 mm MFZ Lens, 3 IR LEDs, PoE, H.264

For more information

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