Honeywell
THE POWER OF CONNECTED | Performance Series 4K Ultra HD

8 MP (4K) IR Ball IP Cameras

HED8PR1

Honeywell is taking quality and reliability to the next level with the new Performance Series 4K Ultra HD IP ball cameras. The Honeywell TDN Ultra HD IR indoor/outdoor ball 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 8 MP (4K) 15 fps image with a 1/2.5" 8 megapixel progressive scan CMOS, or full HD 3 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 with ICR
- Excellent low-light performance with 3D noise reduction, saving storage and bandwidth together with H.265 codec

Flexible Surveillance Solution

- 4.0 mm, F1.6, fixed lens
- H.265, H.264 and MJPEG codec, triple stream support
- IR LEDs provide up to 50 m (165 ft.) of illumination in dimly lit or nighttime scenes (depending on scene reflectance)
- Smart IR technology provides even distribution of IR
- Waterproof (IP66) camera housing
- –30°C to 60°C (–22°F to 140°F) working temperature
- Security features include individual signed certificates and data encryption
- Cameras can be retrofitted on many existing DVR/NVR installations without requiring additional storage

Onboard Video Storage

- Supports up to 128 GB microSDHC card for local video storage on events, continuous, or schedule, or with network interruption

Easy to Install and Use

- Built-in PoE (Power over Ethernet 802.3af) eliminates separate power supply and associated wiring; 12 VDC input where PoE power is unavailable
- ONVIF Profile S and G compliant
- Included accessories: security screw driver (allen key), mounting screws, wall anchors, and mounting template

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.

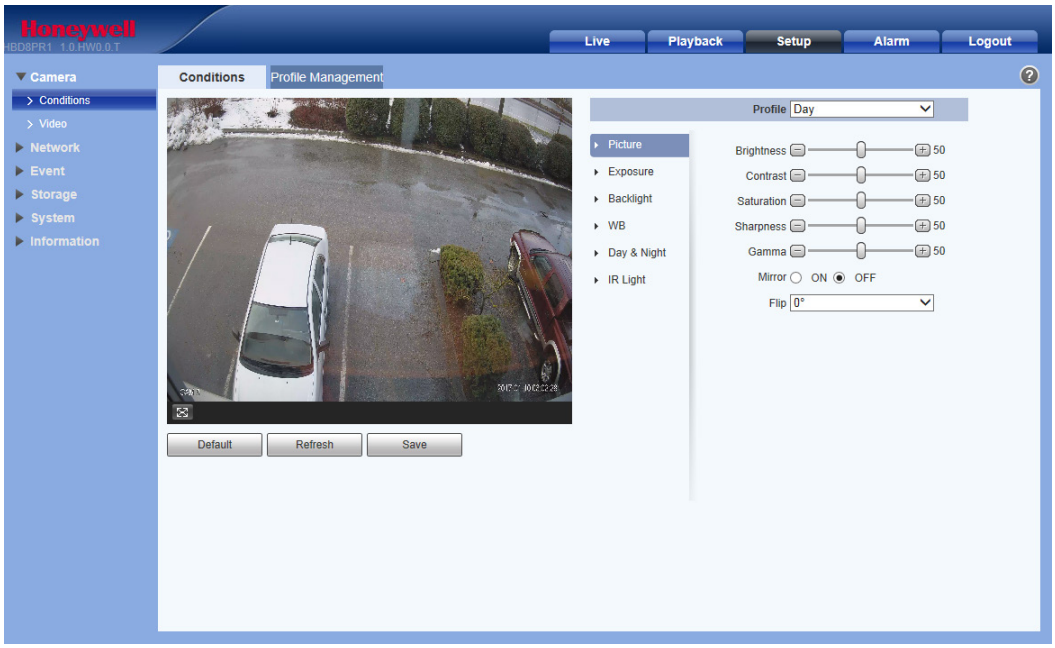
FEATURES AND BENEFITS

- Ultra HD 4K/8 MP resolution at 15 fps or 3 MP at 25/30 fps
- Up to triple stream support
- Digital WDR
- 50 m (165 ft.) IR distance, depending on scene reflectance
- 1/2.5" 8 megapixel progressive scan CMOS imager
- Excellent low light performance with down to 0 lux BW (with IR LEDs on)
- Choice of 12 VDC or PoE (802.3af) power inputs
- 4.0 mm, F1.6, fixed lens
- Corridor mode viewing capability
- On board camera storage: up to 128 GB microSD card
- ONVIF profile S and G compliant
- Global language support with 12 languages for all QIGs, and 2 languages for the Web GUI

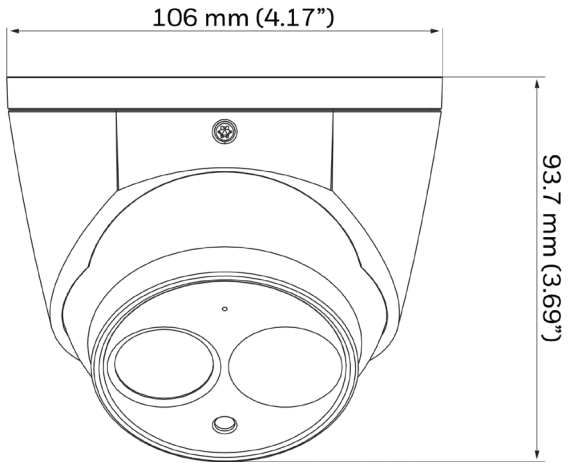
8 MP (4K Ultra HD) IR Ball IP Cameras

FEATURES CONTINUED

The camera can be configured to automatically detect and respond to events such as motion in the scene, network failure, and/or camera tampering. Automated responses include: sending a notification through email 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.



DIMENSIONS



8 MP (4K Ultra HD) IR Ball IP Cameras Technical Specifications

OPERATIONAL		
VIDEO STANDARD		NTSC/PAL
SCANNING SYSTEM		Progressive scan
IMAGE SENSOR		1/2.5" 8 MP Progressive CMOS
NUMBER OF PIXELS (H × V)		3840 × 2160
MINIMUM ILLUMINATION		0.07 lux (color)/0 lux (B/W) @ F1.6 (with IR LEDs on)
S/N RATIO		> 42 dB
ELECTRONIC SHUTTER SPEED		Auto, Manual, 1/3(4) – 1/100,000 sec
IR DISTANCE		Up to 165 ft. (50 m), depending on scene reflectance
DAY/NIGHT		Auto (ICR)/Color/BW
BACKLIGHT COMPENSATION		BLC/HLC/DWDR
WIDE DYNAMIC RANGE		Digital WDR (DWDR)
WHITE BALANCE		Auto/Manual/Natural/Street Lamp/Outdoor/Regional Custom
GAIN CONTROL		Auto/Manual
NOISE REDUCTION		3DNR
PRIVACY MASKING		Up to 4 areas
CORRIDOR MODE		Yes
LENS		4.0 mm, Fixed lens, F1.6
ANGLE OF VIEW		Horizontal: 88° Vertical: 48°
AUDIO		Line In (Built-in Mic)
ETHERNET		RJ-45 (10/100Base-T)
IP SPECIFICATIONS		
VIDEO COMPRESSION		H.265/H.264/MJPEG Bit rate control (CBR and VBR)
RESOLUTION	16:9	8M (3840×2160) / WQHD (2560×1440) / 3M (2304×1296) / 1080p (1920×1080) / 720p (1280×720)
	4:3	1.3M (1280×960)
	OTHER	6M (3072×2048) / 4M (2688×1520) / SXGA (1280×1024) / D1 (704×576/704×480) / CIF (352×288/352×240)
FRAME RATE	MAIN STREAM	8M (3840×2160) 1–15 fps; 6M (3072×2048) 1–20 fps; 4M (2688×1520) / WQHD (2560×1440) 1–25 fps; 3M (2304×1296) or lower resolution at 1–25/30 fps
	SECOND STREAM	D1/CIF up to 25/30 fps
	THIRD STREAM	720p/D1 up to 25/30 fps
AUDIO COMPRESSION		G.726/G.711a/G.711u/AAC
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
SUPPORTED WEB BROWSERS		Internet Explorer® (11.0+)
SUPPORTED OS		Windows® 7 32-bit/64-bit
SECURITY		Multiple user access levels with enhanced password policy, IP filtering, IEEE 802.1x, Strong Digest authentication for Access permission, Force to HTTPS with secure protocol TLS1.2 only and high strength encrypted algorithm AES-256, SSH/Telnet closed
MICRO SD		Up to 128 GB microSDHC card
MICRO SD FUNCTION		Event trigger recording Continuous and scheduled recording Automatic recording when network fails
LANGUAGES SUPPORTED		English, Japanese
ELECTRICAL		
POWER SUPPLY		PoE (802.3af) Class 0/12 VDC
POWER CONSUMPTION		4.97 W max. (IR LEDs on)
MECHANICAL		
DIMENSIONS		Ø106.0 mm × 94.0 mm (Ø4.2" × 3.7")
PRODUCT WEIGHT		0.47 kg (1.04 lb.)
PACKAGE WEIGHT		0.65 kg (1.43 lb.)
CONSTRUCTION COLOR		White (RAL CODE 9003)
ENVIRONMENTAL		
OPERATING TEMPERATURE		–30°C to 60°C (–22°F to 140°F)
RELATIVE HUMIDITY		Less than 95%, non-condensing
INGRESS PROTECTION		IP66
REGULATORY		
EMISSIONS		FCC Part 15B, EN55032
IMMUNITY		EN50130-4; EN55024
SAFETY		EU: EN60950-1 North America UL listed to UL/CSA 60950-1
ROHS		EN50581: 2012

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

8 MP (4K Ultra HD) IR Ball IP Cameras

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.	
RECOMMENDED MOUNTS	
HQA-BB3	Junction Box (Off-White)
HQA-WK2	Wall Mount Bracket (Off-White)
HB34S2-CM	Corner Mount Adapter (Off-White)**
HQA-PM2	Pole Mount Adapter (Off-White)**

RECOMMENDED RECORDERS	
HEN081*4	8ch, 2 HDD, 8 PoE, 4K, H.265
HEN161*4	16ch, 2 HDD, 16 PoE, 4K, H.265
HEN321*4	32ch, 2 HDD, 16 PoE, 4K, H.265
HEN162*4	16ch, 4 HDD, 16 PoE, 4K, H.265
HEN322*4	32ch, 4 HDD, 16 PoE, 4K, H.265
HEN642*4	64ch, 4 HDD, 16 PoE, 4K, H.265
HEN163*4	16ch, 8 HDD, 16 PoE, 4K, H.265, RAID 5&6
HEN323*4	32ch, 8 HDD, 16 PoE, 4K, H.265, RAID 5&6
HEN643*4	64ch, 8 HDD, 16 PoE, 4K, H.265, RAID 5&6

* The * = hard drive capacity in TB.

** With a compatible junction box (HQA-BB3).

ORDERING

HED8PR1	Network TDN Ultra 4K HD IR Ball Camera, 1/2.5" CMOS, 8 MP, 4.0 mm Fixed Lens, PoE, H.265

For more information
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Honeywell | Performance Series IP Cameras

TDN WDR IR Ball Camera

HEW2PR1/HEW2PRW1/HEW4PR3/ HEW4PRW3

Honeywell's new Performance Series IP ball cameras are taking quality and reliability to the next level, offering outstanding picture clarity and hassle-free flexible system integration.

HEW2PRW1/HEW4PRW3

HEW2PR1/HEW4PR3

Superior Image Quality

- Full HD 1080p 25/30 fps image with a 1/2.7" 2 megapixel sensor or full HD 4 MP 20 fps image with a 1/3" 4 megapixel sensor
- Wide Dynamic Range, up to 120 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

Flexible Surveillance Solution

- 3.6 mm or 2.8 mm fixed lens at F2.0
- H.264 and MJPEG codec, triple stream support
- IR LEDs provide up to 130 ft (40 m) of illumination in dimly lit or nighttime scenes (depending on scene reflectance)
- Smart IR technology provides even distribution of IR
- Weatherproof (IP66) camera housing
- –30°C to 60°C (–22°F to 140°F) working temperature
- Plug-and-play compatible with Honeywell 4/8/16-channel Performance Series Embedded NVRs

Easy to Install and Use

- Built-in PoE (Power over Ethernet) eliminates need for separate power supply and associated wiring; 12 VDC inputs where PoE power is unavailable
- Remote configuration through web client or from the NVR

Market Opportunities

These flexible, fully featured cameras are ideal for a wide range of surveillance applications, providing excellent picture quality at minimal bandwidth while offering reliable protection against dust, dirt, and water.

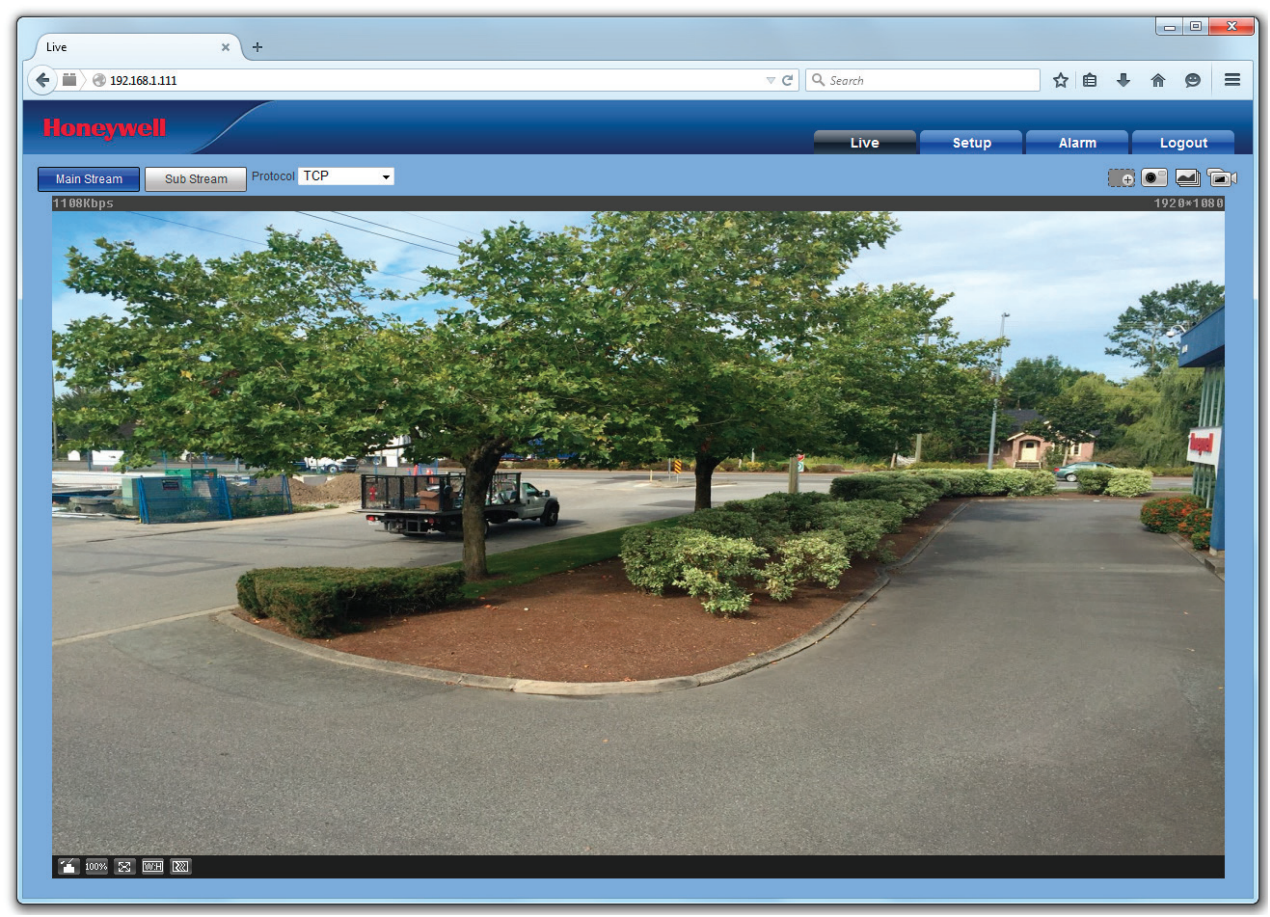
FEATURES AND BENEFITS

- 1/2.7" 2 MP or 1/3" 4 MP progressive scan imager
- 3.6 mm or 2.8 mm fixed lens
- True day/night (IR-cut filter)
- Wide dynamic range up to 120 dB
- Low-light performance down to 0.01 lux (color) or 0 lux with IR LEDs on
- Up to 130 ft (40 m) IR illumination, depending on scene reflectance
- H.264 Main Profile compression
- Triple stream support
- Supports up to 20 connections
- Corridor mode
- PoE, 12 VDC support
- Plug-and-play compatible with Honeywell Performance Series Embedded NVRs
- Weatherproof housing with IP66 ingress protection rating

TDN WDR IR Ball Camera

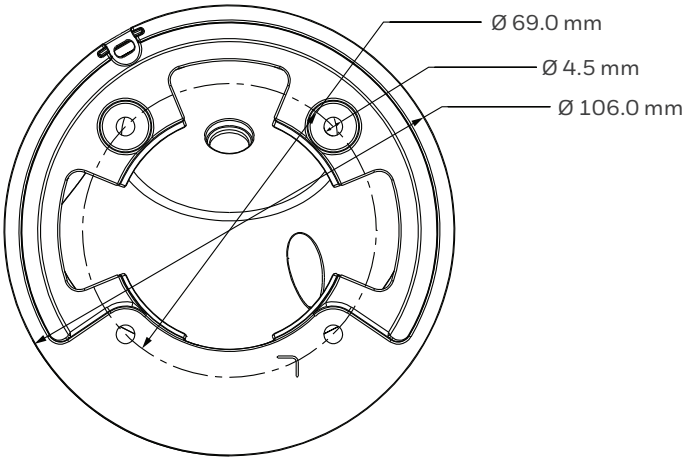
Security Features

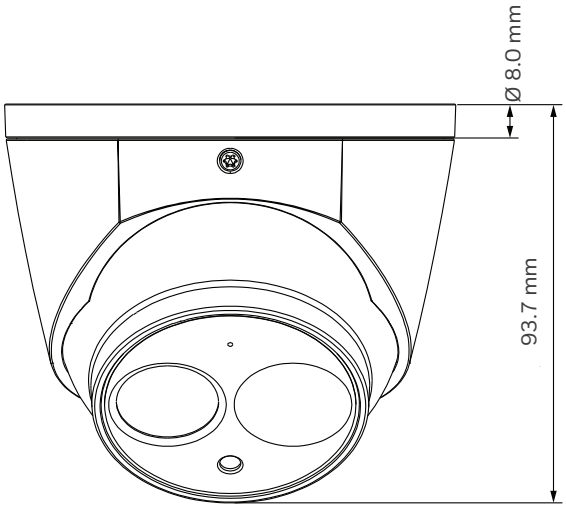
The camera can be configured to automatically detect and respond to events such as motion in the scene and/or camera tampering. Automated responses include sending a notification through email, FTP, and/or HTTP, and sending a still image of the event through email and/or FTP. Setup can be done using the web client or from an NVR.



DIMENSIONS

HEW2PR1/HEW2PRW1/HEW4PR3/HEW4PRW3





TDN WDR IR Ball Camera

SPECIFICATIONS

OPERATIONAL		
VIDEO STANDARD		NTSC/PAL
SCANNING SYSTEM		Progressive scan
IMAGE SENSOR		**HEW2PR(W)1:** 1/2.7" 2 MP CMOS **HEW4PR(W)3:** 1/3" 4 MP CMOS
NUMBER OF PIXELS (H×V)		**HEW2PR(W)1:** 1920×1080 **HEW4PR(W)3:** 2688×1520
MINIMUM ILLUMINATION		0.01 lux, F2.0 (color) 0 lux (with IR LEDs on)
S/N RATIO		50 dB or more
ELECTRONIC SHUTTER SPEED		Auto, Manual, 1/3–1/100 000 s
IR DISTANCE		Up to 130 ft (40 m), depending on scene reflectance
DAY/NIGHT		Auto(ICR)/Color/BW
BACKLIGHT COMPENSATION		BLC/HLC/WDR (120 dB)
WHITE BALANCE		Auto/Sunny/Night/Outdoor/ Customized
GAIN CONTROL		Auto/Manual
NOISE REDUCTION		3DNR
PRIVACY MASKING		Up to 4 areas
LENS		**HEW2PR(W)1:** 3.6 mm, F2.0 **HEW4PR(W)3:** 2.8 mm, F2.0
HORIZONTAL ANGLE OF VIEW		**HEW2PR(W)1:** 91° **HEW4PR(W)3:** 110°
CORRIDOR MODE		Yes
VIDEO		
VIDEO COMPRESSION		H.264/H.264H/H.264B/MJPEG
RESOLUTION		**HEW2PR(W)1:** 1080p (1920×1080)/720p (1280×720)/D1 (704×576/704×480)/ CIF (352×288/352×240) **HEW4PR(W)3:** 4 MP (2688×1520/2560×1440)/3 MP (2304×1296)/1080p (1920×1080)/720p (1280×720)/D1 (704×576/704×480)/ CIF (352×288/352×240)
FRAME RATE	MAIN STREAM	**HEW2PR(W)1:** 1080p/720p (1–25/30 fps) **HEW4PR(W)3:** 4 MP (1–20 fps)/ 3 MP (1–25/30 fps)
	SUB STREAM	**HEW2PR(W)1:** D1/CIF (1–25/30 fps) **HEW4PR(W)3:** D1/CIF (1–20 fps)
	TRIPLE STREAM	**HEW2PR(W)1:** 720p (1–13/4 fps) **HEW4PR(W)3:** 720p (1–20 fps)
BIT RATE (H.264)		32 Kbps–10 Mbps

NETWORK	
ETHERNET	RJ-45 (10/100Base-T)
PROTOCOLS*	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1X
COMPATIBILITY	ONVIF Profile S*
MAX. USER ACCESS	20 users
MOBILE DEVICES	iPhone, iPad, Android
ELECTRICAL	
POWER SUPPLY	PoE IEEE 802.3af Class 0, 12 VDC
POWER CONSUMPTION	**HEW2PR(W)1:** 4.0 W max. **HEW4PR(W)3:** 3.7 W max.
MECHANICAL	
DIMENSIONS	106.0 × 93.7 mm (4.17 × 3.69 in.)
PRODUCT WEIGHT	1.04 lb (0.47 kg)
PACKAGE WEIGHT	1.43 lb (0.65 kg)
CONSTRUCTION	Die-cast aluminum housing with powder coat
CONSTRUCTION COLOR	**HEW2PR1:** RAL7022 (Gray) **HEW2PRW1:** RAL 9003 (White) **HEW4PR3:** RAL 7022 (Gray) **HEW4PRW3:** RAL 9003 (White)
ENVIRONMENTAL	
TEMPERATURE	–30°C to 60°C (–22°F to 140°F)
RELATIVE HUMIDITY	0–95%, non-condensing
INGRESS PROTECTION	IP66
REGULATORY	
EMISSIONS	FCC Part 15, CE (EN 55032)
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)

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

TDN WDR IR Ball Camera

SPECIFICATIONS

SYSTEM INTEGRATION
OPEN IP 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.

ORDERING

ACCESSORIES	
MOUNTS	
HQA-BB3	Junction box
HQA-WK2	Wall mount
HQA-PM	Pole mount (requires HQA-WK2)
HB34S2-CM	Corner mount (requires HQA-BB3)

CAMERAS	
HEW2PR1	Network TDN WDR IR Ball Camera, 1/2.7" CMOS, 2 MP, 3.6 mm Fixed, 1 High Power IR LED, PoE, H.264, Gray
HEW2PRW1	Network TDN WDR IR Ball Camera, 1/2.7" CMOS, 2 MP, 3.6 mm Fixed, 1 High Power IR LED, PoE, H.264, White
HEW4PR3	Network TDN WDR IR Ball Camera, 1/3" CMOS, 4 MP, 2.8 mm Fixed, 1 High Power IR LED, PoE, H.264, Gray
HEW4PRW3	Network TDN WDR IR Ball Camera, 1/3" CMOS, 4 MP, 2.8 mm Fixed, 1 High Power IR LED, PoE, H.264, White

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