5 Megapixel Fisheye IP Cameras

HFD5PR1

Honeywell is taking quality and reliability to the next level with the new Performance Series fisheye IP cameras. The Honeywell Day/Night superior HD fisheye IP cameras offer incomparable picture clarity, an incredibly wide coverage area, hassle-free flexible system integration, and secure data transmission—and they install easily too!

Superior Image Quality

- Full HD 5 megapixel 12 fps image with a 1/3" 5 megapixel sensor

- Digital WDR (DWDR) ensures glare-free images

- Electronic Day/Night provides vivid color images by day and clear black-and-white images at night

- Excellent low-light performance with 3D noise reduction, saving storage and bandwidth together with H.264 Profile codec

Flexible Surveillance Solution

- 1.42 mm, F2.6, fixed fisheye lens

- H.264 and MJPEG codec, dual stream support

- −22°F to 104°F (−30°C to 40°C) working temperature

- Security features include individual signed certificates and data encryption

- Cameras can be retrofitted on many existing NVR installations without requiring additional storage

Easy to Install and Use

- Built-in PoE (Power over Ethernet) eliminates separate power supply and associated wiring; 12 VDC input where PoE power is unavailable

- Remote configuration through web client or from the NVR

- Included accessories: security screw driver, mounting screws, drywall anchors, mounting template, and water-proof joint for network cable

Onboard Video Storage

- Supports up to 64 GB microSDHC card for local video storage when the network is interrupted

Market Opportunities

These fully featured attractive cameras are perfect for indoor installations that require excellent picture quality at minimal bandwidth while offering multiple display and installation mode options. Boasting a sleek modern design and offering the widest angle of view possible, the cameras are suited for a wide range of applications.
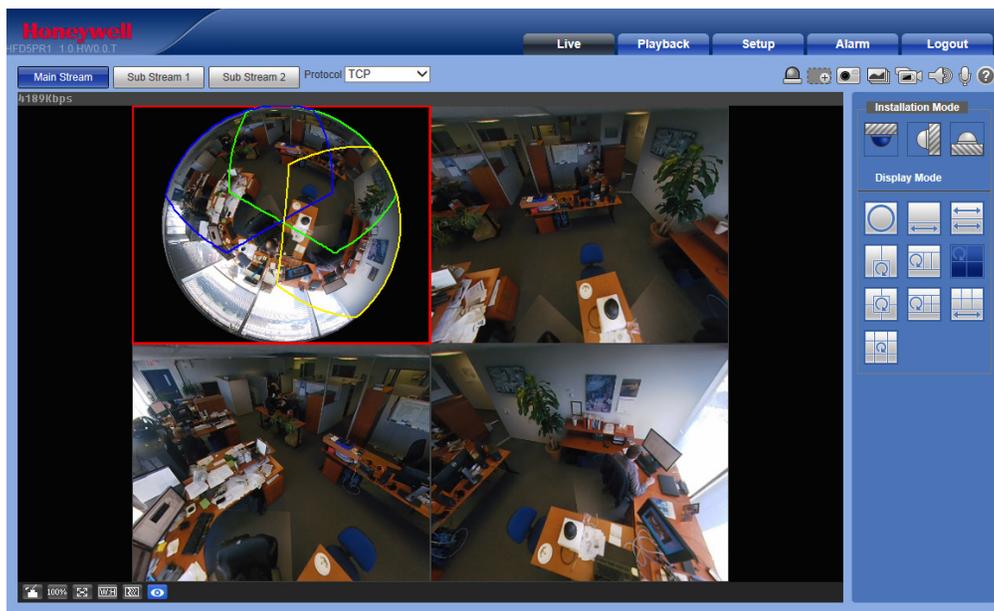
FEATURES AND BENEFITS

- Superior HD 5 MP resolution at 12 fps
- Up to dual stream support
- Widest horizontal angle of view at 185°

- 1/3" 5 MP progressive scan imager
- Excellent low light performance with down to 0.0001 lux BW
- Digital WDR

- 1.42 mm, F2.6, fixed fisheye lens
- Image dewarping and embedded PTZ controls for full monitoring of the entire 360° fisheye view

- Choice of 12 VDC or PoE (802.3af) power inputs
- On board camera storage: up to 64 GB microSD card

- 5 year warranty
- Global language support with 12 languages for all QIGs, and 2 languages for the Web GUI

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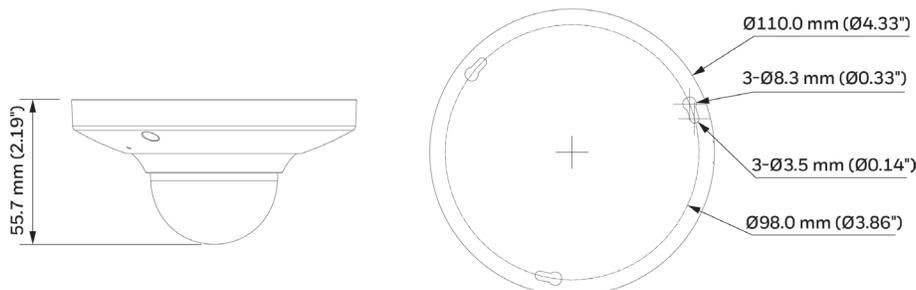
FEATURES CONTINUED

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.

FISHEYE DISPLAY OPTIONS AND INSTALLATION MODES

Ceiling Installation Mode	Single Panorama Image Display Mode (360° view in a panoramic layout) with Sub Image(s) focusing on one or more areas of the 360° area	Two Vertical Panorama Images with Original 360° Image Inset or Side by Side Display Modes (Ceiling mode only)
Wall Installation Mode	Double Panorama Image Display Mode (two 180° views in panoramic layouts)	180° Expanded Rectangular Panorama Display Mode (Wall mode only)
Floor Installation Mode	Original 360° Image with three Sub Images Display Mode with 3 sub images of different regions in the display	180° Expanded Rectangular Panorama with three Sub Images Display Mode (Wall mode only)
Original 360° Image Display Mode	Four Sub Images with Original 360° Image Inset or Side by Side Display Modes, with 4 sub images of different regions in the display	180° Expanded Rectangular Panorama Inset or Side by Side with four Sub Images Display Mode (Wall mode only)
	Original 360° Image with eight Sub Images Display Mode with 8 sub images of different regions in the display	180° Expanded Rectangular Panorama with eight Sub Images Display Mode (Wall mode only)

DIMENSIONS

55.7 mm (2.19")

Ø110.0 mm (Ø4.33")

3-Ø8.3 mm (Ø0.33")

3-Ø3.5 mm (Ø0.14")

Ø98.0 mm (Ø3.86")

5 Megapixel Fisheye IP Cameras Technical Specifications

OPERATIONAL	
VIDEO STANDARD	NTSC/PAL
SCANNING SYSTEM	Progressive scan
IMAGE SENSOR	1/3" 5 MP Progressive CMOS
NUMBER OF PIXELS (H × V)	2592 × 1944
MINIMUM ILLUMINATION	0.01 lux (color)/0.001 lux (B/W) @ F2.6
S/N RATIO	> 50 dB
ELECTRONIC SHUTTER SPEED	Auto, Manual, 1/3(4) – 1/100,000 sec
DAY/NIGHT	Auto (Electronic)/Color/BW
BACKLIGHT COMPENSATION	BLC/HLC/DWDR
WIDE DYNAMIC RANGE	Digital WDR (DWDR)
WHITE BALANCE	Auto/Manual
GAIN CONTROL	Auto/Manual
NOISE REDUCTION	3DNR
PRIVACY MASKING	Up to 4 areas
LENS	1.42 mm, Fixed fisheye lens, F2.6
ANGLE OF VIEW	Horizontal: 185°
AUDIO/TWO-WAY	1/1 Channel In/Out, Built-in Mic
ALARM INPUT/OUTPUT	1/1 Channel In/Out
ETHERNET	RJ-45 (10/100Base-T)

IP SPECIFICATIONS		
VIDEO COMPRESSION		H.264/MJPEG Bit rate control (CBR and VBR)
RESOLUTION	4:3	5M (2560×1920) / 3M (2048×1520) / UXGA (1600×1200) / 1.3M (1280×960)
	OTHER	720p (1280×720) / D1 (704×576/704×480) / CIF (352×288/352×240)
FRAME RATE	MAIN STREAM	5M (3072×2048) at 1-12 fps UXGA (1600×1200) at up to 25/30 fps
	SECOND STREAM	D1/CIF up to 25/30 fps
AUDIO COMPRESSION		G.711a/G.711u

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
MAXIMUM USERS ACCESS	20 users
SUPPORTED WEB BROWSERS	Internet Explorer® (11.0+)
SUPPORTED OS	Windows® 7 32-bit/64-bit
MICRO SD	Up to 64 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	6.0 W max.

MECHANICAL	
DIMENSIONS	Ø4.3" × 2.1" (Ø110.0 mm × 54.0 mm)
PRODUCT WEIGHT	0.55 lb. (0.25 kg)
CONSTRUCTION COLOR	White (RAL CODE 9003)

ENVIRONMENTAL	
OPERATING TEMPERATURE	−22°F to 104°F (−30°C to 40°C)
RELATIVE HUMIDITY	Less than 95%, non-condensing

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.

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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.	

RECOMMENDED MOUNTS	
HQA-BB2	Junction Box (Off-White)
HQA-WK	Wall Mount Bracket (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-BB2).

ORDERING

HFD5PR1	Network DN Superior HD Fisheye Camera, 1/3" CMOS, 5 MP, 1.42 mm Fixed Fisheye Lens, PoE, H.264

For more information

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