

## 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.

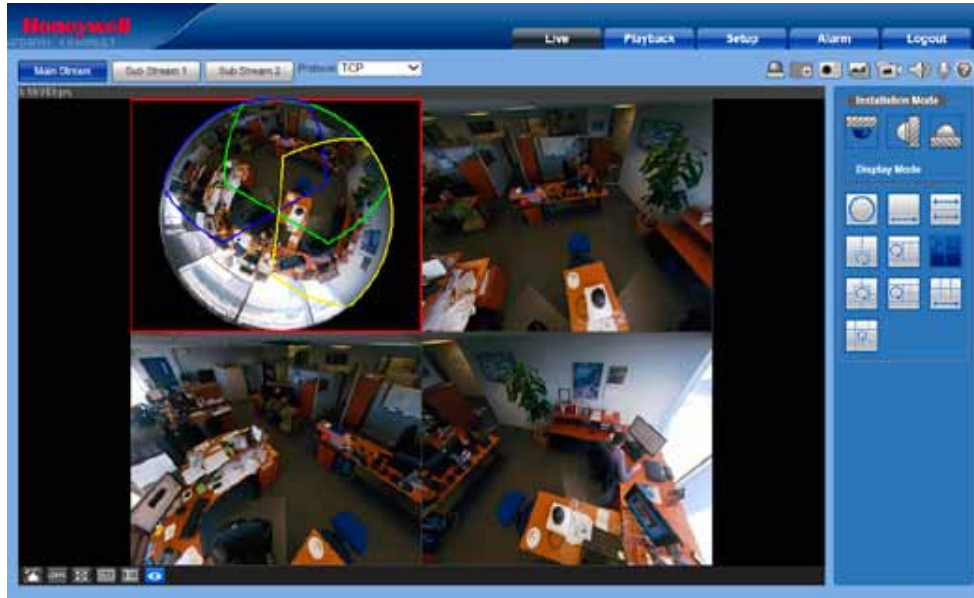
## FEATURES AND BENEFITS

- Superior HD 5 MP resolution at 12 fps
- Widest horizontal angle of view at 185°
- Excellent low light performance with down to 0.0001 lux BW
- 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
- Up to dual stream support
- 1/3" 5 MP progressive scan imager
- Digital WDR
- On board camera storage: up to 64 GB microSD card
- 1.42 mm, F2.6, fixed fisheye lens

# 5 Megapixel Fisheye IP Cameras

## FEATURES CONTINUED

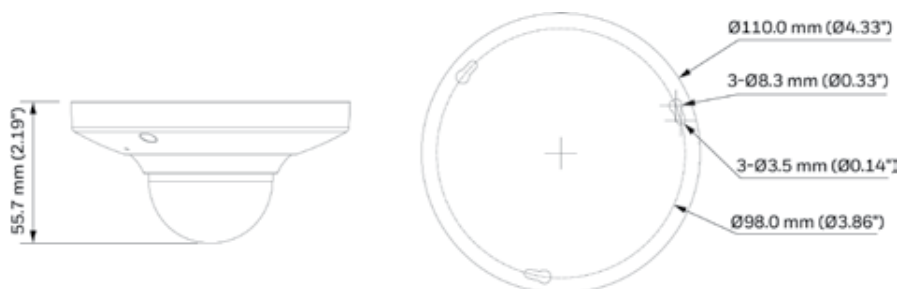
The camera can be configured to automatically detect and respond to events such as motion in the scene, alarm inputs, network failure, and/or camera tampering. Automated responses include: sending a notification through email, FTP, and/or HTTP; sending a still image of the event through email and/or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



# 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 x V)	2592 x 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 (2560x1920) / 3M (2048x1520) / UXGA (1600x1200) / 1.3M (1280x960)
	OTHER 720p (1280x720) / D1 (704x576/704x480) / CIF (352x288/352x240)
FRAME RATE	MAIN STREAM 5M (3072x2048) at 1-12 fps UXGA (1600x1200) 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
ELECTRICAL	
POWER SUPPLY	PoE (802.3af) Class 0/12 VDC
POWER CONSUMPTION	6.0 W max.
MECHANICAL	
DIMENSIONS	Ø4.3" x 2.1" (Ø110.0 mm x 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](http://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

HEN08104	8ch, 2 HDD, 8 PoE, 4K, H.265
HEN16104	16ch, 2 HDD, 16 PoE, 4K, H.265
HEN32104	32ch, 2 HDD, 16 PoE, 4K, H.265
HEN16204	16ch, 4 HDD, 16 PoE, 4K, H.265
HEN32204	32ch, 4 HDD, 16 PoE, 4K, H.265
HEN64204	64ch, 4 HDD, 16 PoE, 4K, H.265
HEN16304	16ch, 8 HDD, 16 PoE, 4K, H.265, RAID 5&6
HEN32304	32ch, 8 HDD, 16 PoE, 4K, H.265, RAID 5&6
HEN64304	64ch, 8 HDD, 16 PoE, 4K, H.265, RAID 5&6

\*\* With a compatible junction box (HQA-BB2).

## ORDERING

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

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