

# HFD 8GR 1 12 MEGAPIXEL RUGGED FISHEYE IR IP CAMERAS

- 1/1.7" 12 megapixel progressive scan imager
- 16x digital zoom
- Digital WDR
- 25 ft (8 m) IR distance, depending on scene reflectance
- Wide horizontal angle of view at 185°
- Built-in cybersecurity hardware chipset
- Excellent low-light performance down to 0 lux BW (with IR LEDs on)
- Up to triple stream support
- 12 megapixel (4K) resolution at 25 fps
- 1.98 mm, F2.8, fixed fisheye lens
- Global language support with 15 languages for all QIGs, Web GUI, and online help
- Analytics event: audio detection
- Rugged outdoor housing with IP67 ingress protection rating and IK10 impact resistance rating
- ONVIF profile S and G compliant
- Onboard camera storage up to 128 GB microSD card (not included)
- Image dewarping and embedded PTZ controls for full monitoring of entire 360° fisheye view



## SYSTEM OVERVIEW

Honeywell is taking quality and reliability to the next level with the new equiP® line of fisheye IP cameras. The Honeywell TDN ultra HD IR fisheye cameras offer incomparable picture clarity, an incredibly wide coverage area, hassle-free flexible system integration, and secure data transmission—and they install easily too!

## ONBOARD VIDEO STORAGE

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

## 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 the widest angle of view possible, the cameras are suited for a wide range of applications.

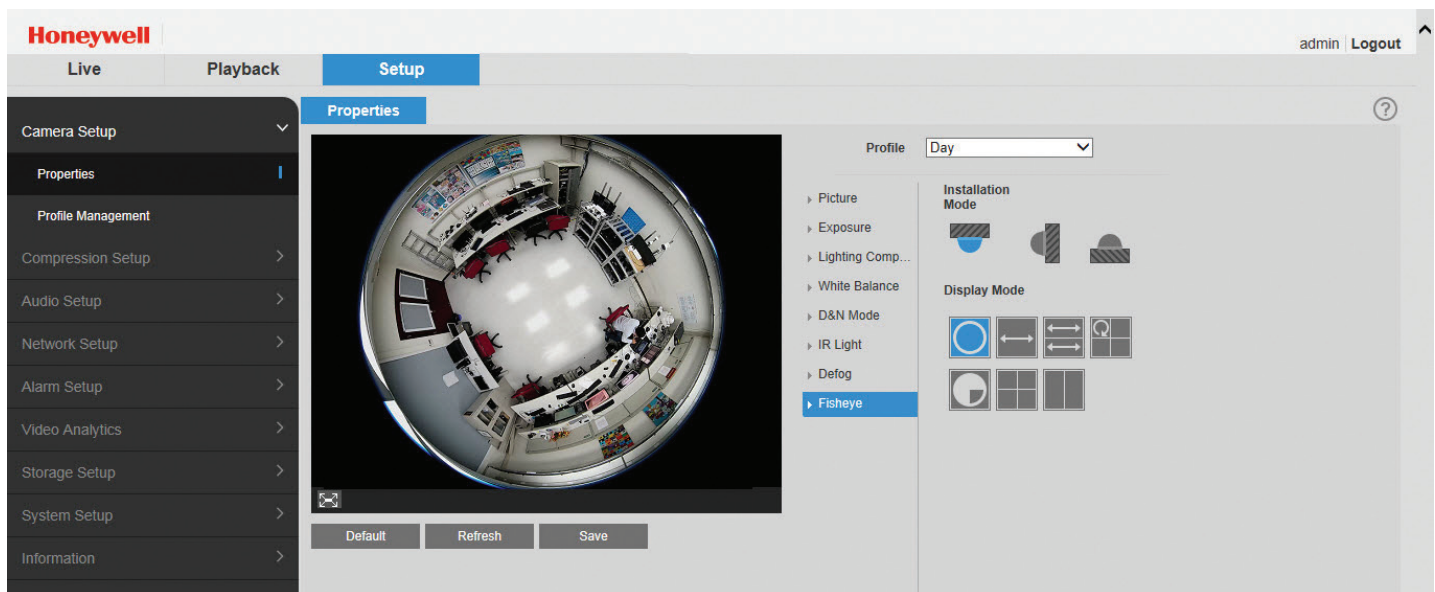
Supports up to 128 GB microSDHC (Class 10) card for local video storage when network is interrupted. Card not included.

|                                       |  |
|---------------------------------------|--|
| <b>Superior Image Quality</b>         | <ul style="list-style-type: none"> <li>• Ultra HD 12 MP (4K) 25 fps image with a 1/1.7" 12 megapixel sensor</li> <li>• Digital WDR (DWDR) ensures glare-free images</li> <li>• True Day/Night provides vivid color images by day and clear black-and-white images at night using a removable IR cut filter</li> <li>• Image dewarping makes the fisheye output easy to view and scan for intruders</li> <li>• Embedded PTZ control within the fisheye video allows users to control the part of the 360° view to focus on</li> <li>• Excellent low-light performance with 3D noise reduction, saving storage and bandwidth together with H.265 Profile codec</li> </ul>  |
| <b>Flexible Surveillance Solution</b> | <ul style="list-style-type: none"> <li>• 1.98 mm, F2.8, fixed fisheye lens</li> <li>• H.265, H.264 and MJPEG codec, triple stream support</li> <li>• IR LEDs provide up to 25 ft (8 m) of illumination in dimly lit or nighttime scenes (depending on scene reflectance)</li> <li>• Smart IR technology provides even distribution of IR</li> <li>• Waterproof (IP67) and IK10 impact-resistant camera housing</li> <li>• -22°F to 140°F (-30°C to 60°C) working temperature</li> <li>• OnVIF Profile s and G compliant</li> <li>• security features include individual signed certificates and data encryption</li> <li>• Cameras can be retrofitted on many existing nVr installations without requiring additional storage</li> </ul> |
| <b>Easy to Install and Use</b>        | <ul style="list-style-type: none"> <li>• Built-in PoE (Power over Ethernet) eliminates separate power supply and associated wiring; 12 V DC inputs where PoE power is unavailable</li> <li>• Remote configuration through web client or from the NVR</li> <li>• Included accessories: security screw driver, mounting screws, mounting template, mount adapter, IR led cover, and waterproof joint for network cable</li> </ul>  |

## HFD8GR1

### Features

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



Wall Installation Mode



Floor Installation Mode



Original 360° Image Display Mode



Single Panorama Image Display Mode (360° view in a panoramic layout)



Double Panorama Image Display Mode (two 180° views in panoramic layouts)



Original 360° Image with Three EPTZ (virtual PTZ) Region Images Display Mode



Single Image Display Mode (displays a single view from within the 360° view)

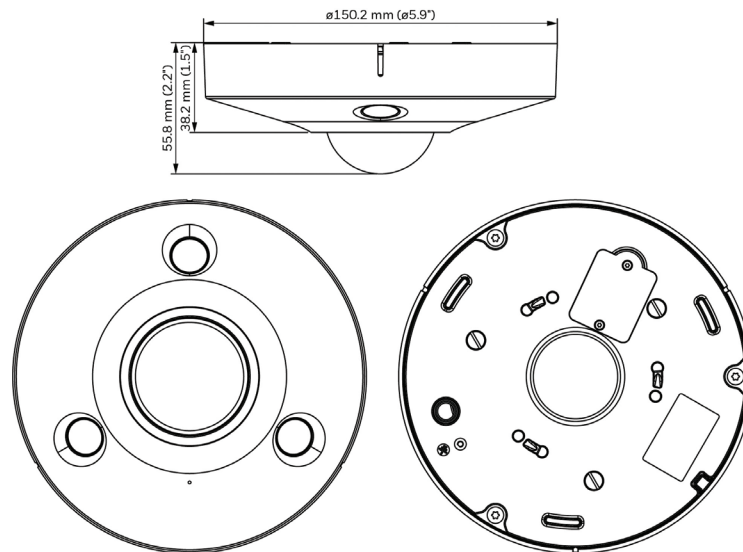


Four EPTZ Region Images Display Mode



Two Vertical Panorama Images Display Mode

## Dimensions



| Technical Specification  |   |                                   |  |
|--------------------------|---|-----------------------------------|--|
| <b>OPERATIONAL</b>       |   | <b>IP SPECIFICATIONS</b>          |  |
| VIDEO STANDARD           | NTSC/PAL  | VIDEO COMPRESSION                 | H.265/H.264/MJPEG<br>Bit rate control (CBR and VBR)  |
| SCANNING SYSTEM          | Progressive scan                                  |                                   |  |
| IMAGE SENSOR             | 1/1.7" 12 MP progressive CMOS                     | RESOLUTION                        | 4:3<br>12MP (4000×3000) / 6MP (2880×2160) / 3MP (2048×1536) / 1.3MP (1280×960)   |
| NUMBER OF PIXELS (H×V)   | 4000 x 3000                                       |                                   | OTHER<br>8MP (2880×2880) / D1 (704×576/704×480) / CIF (352×288/352×240)  |
| MINIMUM ILLUMINATION     | 0.01 lux color/0 lux BW with IR LEDs on @ F2.8    | FRAME RATE                        | MAIN STREAM<br>12MP (4000×3000) at up to 25 fps / 8MP (2880×2880) / 6MP (2880×2160) / 3MP (2048×1536) at up to 25/30 fps |
| S/N RATIO                | 50 dB   |                                   | SUB STREAM<br>D1/CIF up to 25/30 fps   |
| ELECTRONIC SHUTTER SPEED | Auto, Manual, 1/3(4)–1/100 000 s                  |                                   | TRIPLE STREAM<br>1.3MP/D1 up to 25/30 fps  |
| IR DISTANCE              | Up to 25 ft (8 m), depending on scene reflectance |                                   |  |
| IR LIGHT CONTROL         | Smart IR/Manual/Off                               | DEWARPING MODE                    |  |
| DAY/NIGHT                | Auto(ICR)/Color/BW                                | AUDIO COMPRESSION                 |  |
| BACKLIGHT COMPENSATION   | BLC/HLC/DWDR                                      | AUDIO STREAM                      |  |
| WIDE DYNAMIC RANGE       | Digital WDR (DWDR)                                | SD CARD FUNCTION                  |  |
| WHITE BALANCE            | Auto/Natural/Street Lamp/Outdoor/Customize Region | SD CARD                           |  |
| GAIN CONTROL             | Auto/Manual                                       | <b>IP SPECIFICATIONS (CONT'D)</b> |  |
| NOISE REDUCTION          | 3DNR  | PROTOCOLS*                        |  |
| PRIVACY MASKING          | Up to 4 areas                                     | COMPATIBILITY                     |  |
| CORRIDOR MODE            | Yes   | MAX. USER ACCESS                  |  |
| FOCUS MODE               | Manual  | SUPPORTED WEB BROWSERS            |  |
| LENS                     | 1.98 mm, fixed fisheye lens, F2.8                 |                                   |  |
| HORIZONTAL ANGLE OF VIEW | 185°  |                                   |  |
| AUDIO/TWO-WAY            | Line In/Out, 1 built-in mic                       |                                   |  |
| ALARM INPUT/OUTPUT       | 2/1   |                                   |  |
| ETHERNET                 | RJ-45 (10/100/1000Base-T)                         |                                   |  |


## Technical Specification

|                                   |   |                           |  |
|-----------------------------------|---|---------------------------|--|
| <b>IP SPECIFICATIONS (CONT'D)</b> |   | <b>MECHANICAL</b>         |  |
| <b>SUPPORTED OS</b>               | Windows 7 32-bit/64-bit, Windows 10   | <b>DIMENSIONS</b>         | ø5.9 × 2.2 in. (ø150.2 × 55.8 mm)                      |
| <b>SECURITY</b>                   | 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 | <b>PRODUCT WEIGHT</b>     | 1.1 lb (0.5 kg)  |
| <b>LANGUAGES SUPPORTED</b>        | English, Arabic, Czech, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Turkish   | <b>CONSTRUCTION</b>       | Die-cast aluminum housing with powder coat             |
| <b>ELECTRICAL</b>                 |   | <b>CONSTRUCTION COLOR</b> | RAL9003 (White)  |
| <b>POWER SUPPLY</b>               | PoE (802.3af) Class 0, 12 V DC  | <b>ENVIRONMENTAL</b>      |  |
| <b>POWER CONSUMPTION</b>          | 10 W max. (IR LEDs on)  | <b>TEMPERATURE</b>        | –22°F to 140°F (–30°C to 60°C)                         |
|                                   |   | <b>RELATIVE HUMIDITY</b>  | Less than 95%, non-condensing                          |
|                                   |   | <b>INGRESS PROTECTION</b> | IP67   |
|                                   |   | <b>IMPACT RESISTANCE</b>  | IK10   |
|                                   |   | <b>REGULATORY</b>         |  |
|                                   |   | <b>EMISSIONS</b>          | EN 55032, FCC Part 15B AS/NZS CISPR 22:2009+ A1 (2010) |
|                                   |   | <b>IMMUNITY</b>           | EN50130-4  |
|                                   |   | <b>SAFETY</b>             | EN5EN 60950-1, UL Listed to UL/CSA 60950-1,            |
|                                   |   | <b>SAFETY</b>             | EN 50581   |

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

## ORDERING

### SYSTEM INTEGRATION

|  |  |
|--|--|
| <b>OPEN IP INTEGRATION</b>   |  |
| ONVIF support and open API software integration. Refer to <a href="http://www.onvif.org">www.onvif.org</a> for the ONVIF specification and the Honeywell Open Technology Alliance website ( <a href="http://www.security.honeywell.com/hota/">http://www.security.honeywell.com/hota/</a> ) to learn more about our open and integrated solutions. |  |

### ACCESSORIES

|                            |   |                       |
|----------------------------|---|-----------------------|
| <b>HOUSINGS AND MOUNTS</b> |   |                       |
| HFG-WK                     |  | Wall Mount Bracket    |
| HFG-PK                     |  | Pendant Mount Bracket |
| HB4G-PM                    |  | Pole Mount Adapter    |
| HB34G-CM                   |  | Corner Mount Adapter  |

## 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   |

## ORDERING

|         |  |
|---------|--|
| CAMERAS |  |
| HFD8GR1 | Network TDN Ultra HD IR Rugged Fisheye Camera, 1/1.7" CMOS, 12 MP, 1.98 mm Fixed Fisheye Lens, 3 IR LEDs, PoE, H.265 |

### NOTE:

Honeywell reserves the right, without notification, to make changes in product design or specifications.

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**Honeywell**