

60 SERIES HC60WFCR1-V



12MP AI IR Fisheye Camera

5 YEAR
WARRANTY

ONVIF® | S G T M

The new Honeywell 60 Series 12MP AI fisheye cameras offer exceptional 360° video clarity in a single camera with 12 dewarping views to minimize blind spots for effective wide area surveillance. Delivering exceptional performance in both variable and low-light scenarios, these cameras also feature advanced video/ object analytics and meet the latest enhanced FIPS 140-3 standard, making them suitable for larger enterprise applications demanding strict compliance.

ENHANCED DETECTION AND IMAGING

- Upgraded WDR (up to 140 dB) to significantly reduce image glare
- Increased IR distance (up to 30 m (98 ft))
- The Sony STARVIS 2 IMX676 (1/1.6" Progressive CMOS) image sensor offers sharper images with advanced HDR for smoother video in variable lighting
- Improved shutter speed (1/20000 ~ 1/5) allows faster capture of moving subjects, reducing motion blur and producing sharper images
- Enhanced 3D noise reduction eliminates visual noise resulting in crisper details for identifying objects or people in video footage
- Smart IR Technology automatically adjusts to changing light conditions and object distances for better capture of details even in dimly lit or nighttime scenes

INTELLIGENT SURVEILLANCE

- Probabilistic AI video object analytics quickly detects suspicious activities and identifies attributes such as vehicles and humans
- Visible bounding boxes with MAXPRO integration
- Supported in the Milestone plugin intelligent search

INCREASED OPERATIONAL EFFICIENCY

- System security enhancements with Secure Boot and latest FIPS 140-3 chipset provide secure data integrity and privacy
- Upgraded local storage (up to 1 TB) or 4X the amount of previous models significantly boosts camera data management and retention capacity
- ONVIF Profile M allows analytics metadata and events to be securely and seamlessly integrated within video surveillance systems for better operational decision making
- Remote configuration can be performed from web client or NVR

RUGGED, FLEXIBLE, COMPLIANT

- Built for challenging environments (IP66, IP67, NEMA 4X, TS-2, IK10)
- Flexible wall or ceiling mount options
- NDAA and NIS2 compliant

POTENTIAL APPLICATIONS:

- Retail (Big Box Stores)
- Large Office Buildings (Lobbies, Open Workspaces, Large Conference Rooms)
- Manufacturing / Warehouses / Loading Docks
- Hospitals / Healthcare (Waiting Rooms, Hallways, Nursing Stations)
- Schools / Universities (Cafeterias, Libraries, Hallways)
- Transportation Hubs (Airports, Train Stations, Bus Terminals)
- Parking Lots, Garages, Access Gates
- Public Spaces (Gaming/Casinos, Event Venues, Parks, Plazas)
- Government/Military Installations

Honeywell

60 SERIES 12MP AI IR FISHEYE CAMERA

OPERATIONAL								
RAM	2 x 16 Gigabits							
Flash	4 Gigabits							
Video Standard	NTSC / PAL							
Scanning System	Progressive							
Image Sensor	Sony STARVIS 2 IMX676, 1/1.6" CMOS							
Sensor Size (H x V)	7.104 mm x 7.104 mm							
Number Of Pixels (H x V)	12 MP (3552 x 3552)							
Minimum Illumination (Color/BW)	Color: 0.01 Lux@30IRE F2.0, B/W: 0Lux @F2.0(IR on)							
S/N Ratio	55 dB							
Electronic Shutter Speed	1/5 to 1/20,000 s							
IR Distance	Up to 30 m (98 ft)							
IR Light Control	Smart IR (Auto / Manual) / OFF							
IR Light Number	5							
Day/Night	Auto / Day Mode / Night Mode / Timing							
Backlight Compensation	WDR, BLC, HLC							
White Balance	Auto / Tungsten / Fluorescent / Daylight / Shadow / Manual							
Gain Control	0 - 100 %							
Wide Dynamic Range	Up to 140 dB							
Noise Reduction	2D / 3D DNR							
Lens	1.7 mm, fixed focal, fixed-iris, F2.0							
Angle Of View (H x V x D)	Up to 185°							
Privacy Masking	Off / On (4 Areas)							
Defog	Supported							
Encryption Chipset	Built-In FIPS 140-3 Encryption Chipset							
Local Storage	Micro SD / SDHC / SDXC card slot (up to 1TB)							
Alarm Inputs / Outputs	2ch Input, 2ch Output							
Dewarping Modes	Double Panorama(1:1), Double Panorama(4:3), Double Panorama(16:9), Single Panorama(4:3), Single Panorama(16:9), Single Panorama(4:1), Single Panorama(16:3), 4PTZ(1:1), 4PTZ(4:3), 4PTZ(16:9), Fisheye + 3PTZ, Fisheye + 6PTZ							
VIDEO								
Video Compression	H.265/H.264/MJPEG, Smart Codec							
Resolution	<table border="1"> <thead> <tr> <th>One-Channel</th> <th>PAL</th> <th>NTSC</th> </tr> </thead> <tbody> <tr> <td>Fisheye View</td> <td> Stream 1 3552 x 3552, 2560 x 2560, 1520 x 1520 x 1280 x 1280 @25fps, 1280 x 1280(MJPEG)@12fps Stream 2 640x640, 480x480 @25fps, 480x480(MJPEG)@12fps Stream 3 640x640, 480x480@25fps, 480x480(MJPEG)@12fps </td> <td> Stream 1 3552 x 3552, 2560 x 2560, 1520 x 1280 x 1280 @30fps, 1280 x 1280(MJPEG)@12fps Stream 2 640x640, 480x480 @30fps, 480x480(MJPEG)@12fps Stream 3 640x640, 480x480@30fps, 480x480(MJPEG)@12fps </td> </tr> </tbody> </table>	One-Channel	PAL	NTSC	Fisheye View	Stream 1 3552 x 3552, 2560 x 2560, 1520 x 1520 x 1280 x 1280 @25fps, 1280 x 1280(MJPEG)@12fps Stream 2 640x640, 480x480 @25fps, 480x480(MJPEG)@12fps Stream 3 640x640, 480x480@25fps, 480x480(MJPEG)@12fps	Stream 1 3552 x 3552, 2560 x 2560, 1520 x 1280 x 1280 @30fps, 1280 x 1280(MJPEG)@12fps Stream 2 640x640, 480x480 @30fps, 480x480(MJPEG)@12fps Stream 3 640x640, 480x480@30fps, 480x480(MJPEG)@12fps	
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60 SERIES 12MP AI IR FISHEYE CAMERA

VIDEO		
Multi-Channel	PAL	NTSC
4PTZ View	Stream 1 1776 x 1776, 1520 x 1520, 1280 x 1280, 1280 x 960, 720 x 720, 2048 x 1536, 2304 x 1296, 1280 x 720 @25fps, 1776 x 1776, 1520 x 1520, 1280 x 1280, 1280 x 960, 1280 x 720, 720 x 720(MJPEG)@12fps Stream 2 640x640, 704x576, 352x288, 320x240, 640x480, 640x360@25fps, 640x640, 640x360, 704x576, 352x288, 320x240(MJPEG)@12fps Stream 3 1520x1520, 1280x1280, 640x640, 704x576, 352x288, 640x480, 320x240, 640x360 @25fps, 1520x1520, 1280x1280, 640x640, 640x360, 704x576, 320x240 (MJPEG)@12fps	Stream 1 1776 x 1776, 1520 x 1520, 1280 x 1280, 1280 x 960, 720 x 720, 2048 x 1536, 2304 x 1296, 1280 x 720 @30fps, 1776 x 1776, 1520 x 1520, 1280 x 1280, 1280 x 960, 1280 x 720, 720 x 720(MJPEG)@12fps Stream 2 640x640, 704x480, 352x240, 320x240, 640x480, 640x360@30fps, 640x640, 640x360, 704x480, 352x240, 320x240(MJPEG)@12fps Stream 3 1520x1520, 1280x1280, 640x640, 704x480, 320x240, 640x360 @30fps, 1520x1520, 1280x1280, 640x640, 640x360, 704x480, 320x240 (MJPEG)@12fps
Resolution	Fisheye+3PTZ/6PTZ Stream 1 3552 x 3552(ch1), 1776 x 1776, 1520 x 1520, 1280 x 1280, 1280 x 960, 720 x 720 @25fps, 3552 x 3552(ch1), 1776 x 1776, 1520 x 1520, 1280 x 1280, 1280 x 960, 720 x 720 (MJPEG)@12fps Stream 2 640x640, 704x576, 352x288, 320x240@25fps, 640x640, 704x576, 352x288, 320x240(MJPEG)@12fps Stream 3 Fisheye+3PTZ, 1520x1520, 1280x1280, 640x640, 704x576, 352x288 @25fps, 1520x1520, 1280x1280, 640x640, 704x576, 352x288 (MJPEG)@12fps	Stream 1 3552 x 3552(ch1), 1776 x 1776, 1520 x 1520, 1280 x 1280, 1280 x 960, 720 x 720 @30fps, 3552 x 3552(ch1), 1776 x 1776, 1520 x 1520, 1280 x 1280, 1280 x 960, 720 x 720 (MJPEG)@12fps Stream 2 640x640, 704x480, 352x240, 320x240@30fps, 640x640, 704x480, 352x240, 320x240(MJPEG)@12fps Stream 3 Fisheye+3PTZ, 1520x1520, 1280x1280, 640x640, 704x480, 352x240 @30fps, 1520x1520, 1280x1280, 640x640, 704x480, 352x240(MJPEG)@12fps
Number Of Video Streams	3	
Frame Rate	Main Stream: MAX 25/30 fps (WDR on) MAX 20 fps (WDR on) Second Stream: MAX 25/30 fps (WDR on) MAX 20 fps (WDR on) Third Stream: MAX 25/30 fps (WDR on) MAX 20 fps (WDR on)	

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

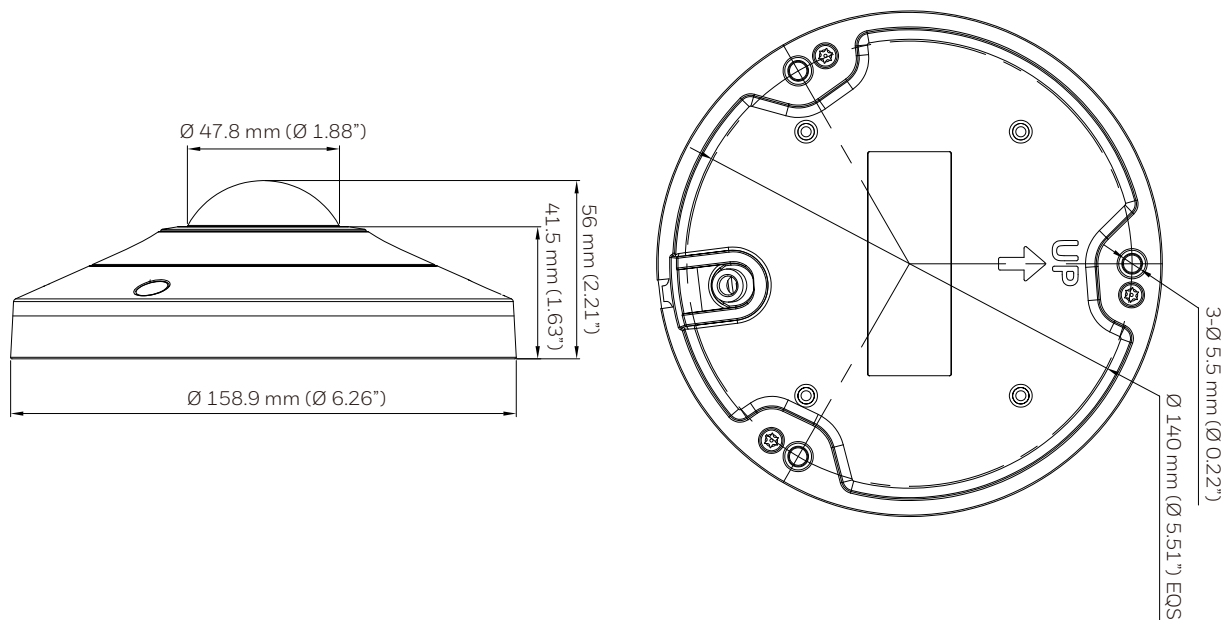
VIDEO	
Stream1:	1-25fps/30fps (H.264/H.265) 3552x3552, 4000x3000, 3552x2664, 3840x2160 500kbps-16000kbps 4096x1024, 4096x768, 2592x1944, 2560x2560, 1520x1520, 2880x1620, 2560x640, 2560x1440, 2560x480, 1920x480, 1920x360, 2048x1536, 2304x1296, 1776x1776, 1280x1280 500kbps-12000kbps 1280x960, 720x720, 1280x720 200kbps-8000kbps 12fps (MJPEG) 1776x1776, 1520x1520, 1280x1280, 1920x480, 1920x360 (MJPEG) 500kbps-12000kbps 720x720, 1280x960, 1280x720(MJPEG) 200kbps-8000kbps Stream2: 1-25fps/30fps (H.264/H.265) 1920x480, 1920x360, 1280x240 500kbps-12000kbps 640x640 200kbps-8000kbps 704x576(PAL)/704x480(NTSC), 480x480, 960x240, 640x320 100kbps-6000kbps 640x480 100kbps-3000kbps 352x288(PAL)/352x240(NTSC), 320x240, 640x360 100kbps-1500kbps 1-12fps (MJPEG) 1920x480, 1920x360 (MJPEG) 500kbps-12000kbps 640x640 (MJPEG) 200kbps-8000kbps 704x576(PAL)/704x480(NTSC) (MJPEG) 100kbps-6000kbps 480x480, 960x240, 640x320 (MJPEG) 100kbps-6000kbps 640x360 (MJPEG) 100kbps-3000kbps 352x288(PAL)/352x240(NTSC), 320x240 (MJPEG) 500kbps-1500kbps Stream3: 1-30fps (H.264/H.265) NTSC: 1920x480, 1520x1520, 1920x360, 1280x1280, 1280x240, 500kbps-12000kbps 640x640 200kbps-8000kbps 704x480, 480x480, 960x240 100kbps-6000kbps 640x480 100kbps-3000kbps 640x360, 352x240, 320x240 100kbps-1500kbps 1-25fps (H.264/H.265) PAL: 1920x480, 1520x1520, 1920x360, 1280x1280, 1280x240, 500kbps-12000kbps 640x640 200kbps-8000kbps 704x576, 480x480, 960x240 100kbps-6000kbps 640x480 100kbps-3000kbps 640x360, 352x288, 320x240 100kbps-1500kbps 1-12fps (MJPEG) NTSC: 1920x480, 1520x1520, 1920x360, 1280x1280 (MJPEG) 500kbps-12000kbps 640x640 (MJPEG) 200kbps-8000kbps 704x480 (MJPEG) 100kbps-6000kbps 480x480 100kbps-6000kbps 640x360 100kbps-3000kbps 352x288(PAL)/352x240(NTSC), 320x240 500kbps-1500kbps 1-12fps (MJPEG) PAL: 1920x480, 1520x1520, 1920x360, 1280x1280 (MJPEG) 500kbps-12000kbps 640x640 (MJPEG) 200kbps-8000kbps 704x576 (MJPEG) 100kbps-6000kbps 480x480 100kbps-6000kbps 640x360 100kbps-3000kbps 352x288(PAL)/352x240(NTSC), 320x240 500kbps-1500kbps
Bit Rate	
AUDIO	
Audio Compression	G.711a / G.711u / G726
Audio Stream	2-Way, Full duplex
Audio Interface	1ch Input, 1ch Output, Built-in Mic
NETWORK	
Ethernet	10 Base-T / 100 Base-TX Ethernet (RJ-45)
Supported Web Browsers	Microsoft Edge, Chrome
Supported OS	Microsoft Windows 10, Windows 11
Protocols*	IPv4, IPv6, TCP / IP, HTTP, HTTPS, RTSP / RTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS, FTP/SFTP, DDNS
Interoperability	ONVIF Profile S, G, T, M
Maximum Users Access	10 Users
Security	User account and password protection, HTTPS, IP Filter, Digest authentication, TLS1.2&TLS1.3, Stream encryption, AES128 / 256, SSH / Telnet closed, PCI-DSS compliance, Built-In encryption chipset
Secure Boot	Supported
Languages Supported	Arabic, Czech, Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Spanish, Turkish, Traditional Chinese

60 SERIES 12MP AI IR FISHEYE CAMERA

EVENTS/ANALYTICS	
Video Analytics	Video analysis is supported under single channel fisheye mode only: Motion Detection, Smart Motion, Scene Change, Intrusion, Multi-Loitering, People Counter, Face Detection, Line Crossing Detection, Unattended Object Detection, Missing Object Detection
Object Analytics	Object Classes: Humans, Vehicles
Event Type	Alarm Input, SD Card Alarm, Abnormal Sound Alarm, Illegal Access Alarm
Event Linkage	Event notification using digital output, FTP/SFTP, Email, Micro SD card recording and audio output
Region Of Interest	8
ELECTRICAL	
Power Supply	DC12V \pm 2A; or PoE 50-57V \pm , 720 mA (IEEE 802.3at)
Power Consumption	Max 17 W
MECHANICAL	
Dimensions (Ø x H)	Ø 158.9 x 56 mm (6.26" x 2.21")
Package Dimensions (D x D x H)	200 x 200 x 105 mm (7.87" X 7.87" X 4.13")
Dome Diameter	Ø 47.8 mm (1.88")
Product Weight	0.71 kg (1.57 lb)
Package Weight	1.11 kg (2.45 lb)
Body Material	Metal and Plastic
Color	RAL 9003, Black

ENVIRONMENTAL	
Operating Temperature	Starting Temperature: -40°C ~ 60°C (-40°F ~ 140°F) Working Temperature: -40°C ~ 60°C (-40°F ~ 140°F) (65° for 4 hours when IR off) Maximum temperature according to NEMA TS2 (para 2.8-2.9): 74 °C (165 °F)
Relative Humidity	Less than 95%, non-condensing
Ingress Protection	IP66, IP67, NEMA 4X
Impact Resistance	IK10
REGULATORY	
Emissions	FCC PART 15, ICES, CE (EN 55032), Complies with UKCA and RCM
Immunity	CE(EN 50130-4, EN55035), Complies with UKCA and RCM
Safety	UL LISTED TO UL/CSA 62368-1, CE(EN 62368-1), Complies with UKCA and RCM
RoHS	CE(EN 63000),JAE(Cabinet Decree No.10 of 2017)
Country of Origin	Vietnam
Warranty	5 years
DORI (EN62676-4 STANDARD)	
Detect	32 m (104.99 ft)
Observe	12.8 m (41.99 ft)
Recognize	6.4 m (21 ft)
Identify	3.2 m (10.5 ft)

DIMENSIONS



60 SERIES 12MP AI IR FISHEYE CAMERA

SYSTEM COMPATIBILITY & RECOMMENDED ACCESSORIES

SYSTEM COMPATIBILITY		OPTIONAL MOUNTS AND ACCESSORIES**	
MAXPRO NVR	Supported with MAXPRO R795	HA60JCBH2	60S dome junction box
ADPRO NVR iFT-E*	Up to 32 IP channels with up to 32 VA channels NVRs	HA35PLM01	35S pole mount bracket
ADPRO NVR iFT*	Up to 32 IP channels or 16 IP channels with up to 16 VA channels NVRs	HA35CNM01	35S corner mount bracket
ADPRO NVR eFT-S*	Up to 16 IP channels or 8 IP channels with up to 8 VA channels NVRs	HA60PMC4FI	60S outdoor dome fisheye cap 3/4NPT female
Honeywell DVM*	Supported with Honeywell DVM R800	HA60PMC4FO	60S outdoor dome fisheye cap 1.5NPT male
35 Series NVR	4/8/16/32/64-channel 35 series NVRs	HA35CLM01	35S ceiling mount base with adapter
Third Party Systems	Supported with Milestone 2025 R1	HA35CLM02	35S ceiling mount pendent extension, 252 mm

* Limited features are supported for compatibility. Please refer to the Integration Matrix for detailed information.

** Mounting accessories, unless otherwise noted, are not included with camera and must be ordered separately. Please refer to the cross reference matrix or accessories datasheet for detailed information.

HA60JCBH2 - coming in 2026

ORDERING

PART NUMBER	DESCRIPTION
HC60WFCR1-V	60 Series 12 MP AI IR Fisheye Camera, WDR up to 140 dB, 1.7 mm, PoE, IP66/IP67/NEMA 4X/IK10

For More Information

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