DAHUA TECHNOLOGY

IR Fisheye Camera
6 MP HD Vandal-proof Network IR-Fisheye Camera

- ImmerVision Enables® Panamorph Technology
- H.264 and MJPEG Dual Encoding
- Max. 25/30 fps at 6 MP (3072 x 2048)
- Multiple Dewarp Modes
- Digital WDR and Day/Night (ICR) Imager
- Max.IR LED Length 10 m (33 ft)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Five-year Warranty

System Overview

The 6 MP Megapixel Fisheye camera delivers superior optics and viewing functionality for optimal 360° image quality. The compact camera replaces multiple single-sensor cameras providing a higher return on investment for your security dollars. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications.

Functions

Panamorph Technology

The fisheye camera incorporates Panamorph Technology from ImmerVision Enables®, an industry leader in 360° solutions and applications. Panomorph technology is comprised of patented panomorph optics and viewing functionality for optimal 360° image quality. The panomorph optic includes magnified zones of interest based on an innovative distortion control concept. The viewing functionality removes all added distortion and enables 360° immersive navigation within live or recorded 360° video.

ImmerVision Enables® is the only universally-accepted 360° dewarping standard; all major VMS platforms and camera vendors support this technology. This support gives you the freedom to choose the VMS platform of your video surveillance system that best meet your requirements.

Smart IR

The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR prevents IR LEDS from whiting out images as they come closer to the camera. The camera's integrated IR illumination provides high performance in extreme low-light environments up to 10m (33ft).

Regions of Interest

Regions of Interest (ROI) is a user-defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas.

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Protection

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 8KV lightningrating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact test (IK10), the camera is the choice for installation in even the most unforgiving environments.

Streaming

With a choice of unicast or multicast streaming and multiple, concurrent streams the camera offers bandwidth-efficient viewing and recording. Depending on the resolution and frame rate selected on the first stream, the second and third stream provides a copy at a lower resolution.

ONVIF ❖PSIA

Technical Specification

Camera

Image Sensor	1/1.8-in. Exmor R CMOS
Effective Pixels	3072(H) x 2048(V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3(4) s to 1/100000 s
Minimum Illumination	Color: 0.01 lux at F2.8; B/W: 0 lux (with IR on)
S/N Ratio	More than 50 dB
IR Distance	10 m (33 ft)
IR On/Off Control	Auto, Manual

Lens

Lens Type	Fixed Lens
Mount Type	Board-in
Focal Length	1.3 mm
Maximum Aperture	F2.8
Angle of View	180°/360°
Focus Control	Manual

Auto-tracking

Auto Tracking	Single-scene, multiple-scene, panorama-scene
Tracking Trigger Mode	Manual, Auto (alarm triggered)
Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot, Alarm

Video

Compression	H.264H, H.264B, H.264, MJPEG
Streaming Capability	Three (3) Streams
Resolution	6 MP (3072 × 2048) 4 MP (2048 × 2048) 3 MP (2048 × 1536) UVGA (1600 × 1200) 1.3 MP (1280 x 960) D1 (704 x 480) CIF (342 x 240)
Frame Rate	Main Stream: 6 MP at 25/30 fps Sub Stream 1: D1/CIF at 25/30 fps Sub Stream 2: 1.3 MP/D1 at 25/30 fps
Bit Rate Control	CBR / VBR
Bit Rate	8 to 12288 Kbps
De-warp Modes	Original, Panoramic, Double panoramic, 1+3, E-PTZ, 4 pictures
Day/Night	Auto (ICR), Color, B/W
BLC Mode	BLC, HLC, DWDR
White Balance	Auto, Manual
Gain Control	Auto, Manual
Noise Reduction	3D
Privacy Masking	Up to 4 areas

Audio

Compression	G.711a, G.711Mu, G.726, AAC
Interface	In: One (1) Channel Out: One (1) Channel Built-in Microphone

Network

Ethernet	RJ-45 (10/1000 Base-T)
Protocol	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, ARP
Interoperability	ONVIF, PSIA, CGI
Max. User Access	20
Web Viewer	IE 10, Firefox, Safari
Mobile Operating Systems	Android, IOS

Certifications

Certifications	FCC (SEFV1505157-A) UL (E234884-A125-UL)

Interface

Memory Slot	Micro SD, up to 64 GB
Alarm	In: Two (2) Out: One (1)

Eelectrical

Power Supply	12 VDC, PoE (802.3af)
Power Consumption	Max. 13 W

Environmental

Operating Conditions	-30°C to +60°C (-22°F to +140°F), Less than 90% RH
Storage Conditions	-30°C to +60°C (-22°F to +140°F), Less than 90% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Dimensions	Φ150.0 mm x 50.70 mm (Φ 5.91 in. x 1.99 in.)
Net Weight	0.58 kg (1.28 lbs)
Gross Weight	0.86 kg (1.90 lbs)

Intelligence

IVS triggers an alarm and takes a defined action for the following events:

Standard Features	Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera.

Premium Features

Motion	An object moves through any part of the scene.
Tripwire	A target crosses a user-defined line.
Intrusion	A target enters or exits a defined perimeter.
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.
Loitering Detection	A target enters a scene and remains within the scene for a specified amount of time.
Illegal Parking	A target is situated within a boundary and does not move for a specified amount of time.
Fast Motion Detection	A target moves rapidly through a scene.

Advanced Features

Facial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.
Auto-tracking	Controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene.

Ordering Information

Type	Part Number	Description
Fisheye Camera	DH-IPC-EBW8600N-IVC	6 MP Vandal-proof Network IR Fisheye camera, True WDR, IP67
Accessories	PFA100	Wall Mount
	PFB302S	Wall Mount
	PFA132	Junction Box
	PFA152	Pole Mount
	PFA151	Corner Mount

Dimensions (mm)