

6MP Panoramic Network IR Fisheye Camera



System Overview

The IPC-FE863-IR fisheye camera is an expert at panoramic surveillance with low-profile design. With a fisheye lens, the camera can provide a high quality 180° or 360° panoramic views without blind spots, making it ideal for wide and open areas, such as airports, shopping malls, banks, hotels, stores, offices and more. The camera can offer different views including 360° overview and dewarped views such as panorama view, double views and quad views.

- 1/1.8" 6Megapixel progressive scan STARVIS™ CMOS
- H.265/H.264 triple-stream encoding
- Max 25/30fps@6M(3072x2048)
- Multiple dewarped Mode
- Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Smart detection
- Intelligent Function
- Max. IR LEDs length 10m
- Micro SD memory, IP67, IK10, PoE



IPC-FE863-IR

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Functions

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.

Panoramic

Panoramic cameras provide 180°, 360° full range of video scene, bringing people a new sense of real live and interactive experience. BLUE|LINE provides two kinds of panoramic camera, single lens fisheye camera and multi-lens camera, both of them can offer 180-degree & 360-degree panoramic image. Through working together with PTZ camera which offer whole scene and region details at same time. It provided new surveillance experience to end user and improved the surveillance quality.

Business intelligent analysis (Heat-map)

The IPC-FE863-IR fisheye camera also supports advanced intelligent feature like heat map besides basic IVS functions. The heat-map function can be applied to business intelligence and bring extra values to customers. The heat map function based on a moving object in time of space movement for analysis, find the most active area and output the report, which is to provide valuable data support for commercial applications.

Smart IR

With IR illumination, detailed images can be captured in low light or

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

HEVC(H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality, and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity, etc

Protection (IP67, IK10, wide voltage)

Supporting ±25% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. IP67 is supported by the camera, which makes it suitable for both indoor and outdoor environments. IK10 compliance enables the camera to sustain the equivalent of 55 kg (120lbs) force.

Technical Specification

Camera

| | |
|--------------------------|--|
| Image Sensor | 1/1.8" 6Megapixel progressive scan CMOS |
| Effective Pixels | 3072(H)x2048(V) |
| RAM/ROM | 1024MB/128MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual, 1/3~1/100000s |
| Minimum Illumination | 0.002Lux/F2.0(Color,1/3s,30IRE) 0.02Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on) |
| S/N Ratio | More than 50dB |
| IR Distance | Distance up to 10m(33ft) |
| IR On/Off Control | Auto/ Manual |
| IR LEDs | 3 |

Lens

| | | | | |
|----------------------|-----------------|-----------|-----------|----------|
| Lens Type | Fixed | | | |
| Mount Type | Board-in | | | |
| Focal Length | 1.7mm | | | |
| Max. Aperture | F2.0 | | | |
| Angle of View | H: 180°, V:180° | | | |
| Optical Zoom | N/A | | | |
| Focus Control | Fixed | | | |
| Close Focus Distance | N/A | | | |
| DORI Distance | Detect | Observe | Recognize | Identify |
| | 28m(92ft) | 11m(36ft) | 6m(19ft) | 3m(9ft) |

Pan/Tilt/Rotation

| | |
|-------------------------|-----|
| Pan/Tilt/Rotation Range | N/A |
|-------------------------|-----|

Intelligence

| | |
|--------------------------------|---------------------|
| IVS | Tripwire, Intrusion |
| Advanced Intelligent Functions | Heat Map |

Video

| | |
|----------------------|---|
| Compression | H.265/H.264 |
| Streaming Capability | 3 Streams |
| Resolution | 6M(3072x2048)/ 4M(2048x2048)/ 3M(2048x1536)/ UXGA(1600x1200)/ 1.3M(1280x960)/ D1(704x576/704x480)/ CIF(352x288/352x240) |
| Frame Rate | Main Stream: 6M(1~25/30fps) |
| | Sub Stream: D1(1 ~ 25/30fps) |
| | Third Stream: 1.3M(1 ~ 25/30fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.265: 3Kbps~ 9984Kbps H.264: 8Kbps~ 16384Kbps |

| | |
|-------------------------------------|---|
| Day/Night | Auto(ICR) / Color / B/W |
| BLC Mode | BLC / HLC / DWDR |
| White Balance | Auto/Natural/Street Lamp/Outdoor/Manual |
| Gain Control | Auto/Manual |
| Noise Reduction | 3D DNR |
| Motion Detetion | Off / On (4 Zone, Rectangle) |
| Region of Interest | Off / On (4 Zone) |
| Electronic Image Stabilization(EIS) | N/A |
| Smart IR | Support |
| Defog | Support |
| Digital Zoom | 16x |
| Flip | N/A |
| Mirror | N/A |
| Privacy Masking | Off / On (4 Area, Rectangle) |

Audio

| | |
|-------------|---------------------------|
| Compression | G.711a/G.711Mu/AAC/ G.726 |
|-------------|---------------------------|

Network

| | |
|---------------------|--|
| Ethernet | RJ-45 (100/1000Base-T) |
| Protocol | HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;DHCP; DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;Bonjour; ;802.1x;Multicast;ICMP;IGMP;SNMP |
| Interoperability | ONVIF, PSIA, CGI |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 10 Users/20 Users |
| Edge Storage | NAS Local PC for instant recording Mirco SD card 128GB |
| Web Viewer | IE, Chrome, Firefox, Safari |
| Management Software | Smart PSS, DSS, Easy4ip |
| Smart Phone | IOS, Android |

Certifications

| | |
|----------------|--|
| Certifications | CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B |
|----------------|--|

Interface

| | |
|-----------------|--|
| Video Interface | N/A |
| Audio Interface | 1/1 channel In/Out, 1 Built-in Mic |
| RS485 | N/A |
| Alarm | 2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC |

Electrical

| | |
|-------------------|-------------------------------|
| Power Supply | DC12V, PoE (802.3af)(Class 0) |
| Power Consumption | <12W |

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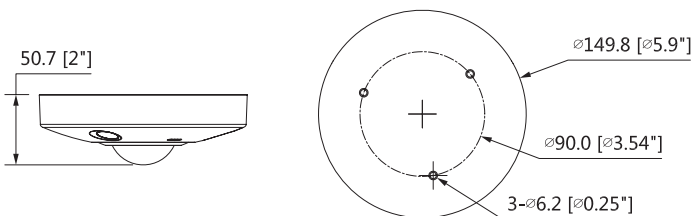
Environmental

| | |
|----------------------|---|
| Operating Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH |
| Storage Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH |
| Ingress Protection | IP67 |
| Vandal Resistance | IK10 |

Construction

| | |
|--------------|---------------------------|
| Casing | Metal |
| Dimensions | Φ149.8mm×50.7mm(Φ5.9"×2") |
| Net Weight | 0.58kg(1.28lb) |
| Gross Weight | 1.0kg(2.2lb) |

Dimensions (mm/inch)



Accessories

Optional:



PFA100
Mount Adapter



PFB302S
Wall Mount



PFA152
Pole Mount



PFA105
Mount Adapter



PFA110
Mount Adapter



PFB300C
Ceiling Mount

| Wall Mount | Pole Mount |
|-----------------------|-----------------------|
| PFA100+PFB302S | PFA100+PFB302S+PFA152 |
| | |
| Ceiling Mount | |
| PFA105+PFA110+PFB300C | |
| | |