

5MP Panoramic Network Fisheye Camera

Indoor Fisheye Camera with Integrated IR



System Overview

Experience the superior clarity of 5 MP video and the range of a 180° panoramic fisheye camera. The camera delivers high quality images with crisp details and accurate color rendition, even under complex lighting conditions thanks to True WDR (120~dB). The compact camera replaces multiple single-sensor cameras providing a higher return on investment for your security dollars, making it an excellent choice for small to mid-size business applications.

Functions

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

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 offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Intelligent Business Analysis

The built-in IVS features heat map functionality, an advanced analysis tool that add business intelligence to your security system. Intelligent Analysis tracks and stores daily, weekly, monthly, and yearly people flow through a defined scene and produces a configurable report. The system uses this data to produce a Heat Map, a two-dimensional representation of data that provides an immediate visual summary of activity.

- 1/2.7-in. 5MP Progressive-scan STARVIS™ CMOS Sensor
- Triple-stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codec
- 5 MP at 25 fps Maximum Resolution
- 1.4 mm Fixed Lens
- True Wide Dynamic Range (120 dB)
- Built-in Microphone
- Maximum IR LED Distance 10 m (33 ft)
- Intelligent Video System
- Five-year Warranty*













Dewarping Mode

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The camera connected to an NVR or a DVR that supports dewarping methods, offers multiple dewarping modes for different installations and configurations, either with a Dahua XVR, NVR, via the Web interface. Each dewarping mode offers options to adjust each scene.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

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 the camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and to the PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specificat	ion					Main Stream: 5 MP at 25 fps
Camera					Frame Rate	Sub Stream 1: D1 at 30 fps
	1/2.7 in F AAD Drogressive coop CTADVICIN CNACC					Sub Stream 2: D1 at 30 fps
Image Sensor	1/2.7-in. 5 MP Progressive-scan STARVIS™ CMOS				Bit Rate Control	CBR/VBR
Effective Pixels RAM/ROM	2592(H) x 1944(V) 512 MB / 32 MB				Bit Rate	H.264: 3 Kbps to 40960 Kbps H.265: 3 Kbps to 40960 Kbps
	Progressive				Day/Night	Auto ICR, Color, B/W
Scanning System		/2 / / 20 00			BLC Mode	BLC, HLC, True WDR (120 dB)
Electronic Shutter Speed	Electronic Shutter Speed Auto, Manual; 1/3 s to 1/100,000 s				White Balance	Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom
Color: 0.006 lux at F2.0 (1/3 s, 30 IRE) Minimum Illumination Color: 0.02 lux at F2.0 (1/30 s, 30 IRE) O lux at F2.0 (IR on)				Gain Control	Auto, Manual, Gain Priority, Shutter Priority	
IR Distance					Noise Reduction	3D DNR
		Up to 10 m (32.81 ft)			Motion Detection	Off, On (4 Zone, Rectangle)
IR On/Off Control	Auto, Manual				Region of Interest	Off, On (4 Zone)
IR LEDs	Three (3)				Digital Zoom	16x
Lens					Mirror	Off, On
	- 1				Privacy Masking	Off, On (4 Area, Rectangle)
Lens Type		Fixed			Audio	
Mount Type	Board-in				Compression	G.711a, G.711Mu, PCM
Focal Length	1.4 mm				Network	
Max. Aperture	F2.0				Ethernet	RJ-45 (100/1000 Base-T)
Angle of View	Horizontal: 180° Vertical: 180°				Protocol	IPv4/IPv6, HTTP, TCP/IP, UDP, UPnP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP,
Focus Control	Fixed					QoS
popul pr	Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	ldentify (76 ppf)	Interoperability	ONVIF, CGI, API
DORI ¹ Distance		L1 m (36 ft)	6 m (20 ft)		Streaming Method	Unicast, Multicast
	20 111 (32 11)	11111 (3011)	0111 (2011)	3 111 (10 10)	Maximum User Access	10 Users / 20 Users
Video Compression Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)				Edge Storage	NAS (Network Attached Storage) Local PC for Instant Recording Micro SD Card Slot, maximum 128 GB	
Streaming Capability	·	• •			Web Viewer	IE, Firefox, Safari
Streaming Capability	bility Three (3) Streams				Management Software	Smart PSS, DSS, DMSS
	5 MP (2582 x 19 UXGA (1600 x 12				Mobile Operating System	IOS, Android
Resolution UXGA (1600 x 1200), 1.3 MP (1280 x 960), 1080p (1920 x 1080), 720p (1280 x 720),			Certifications			
D1 (704 x 480), CIF (352 x 240) Effective Maximum Resolution (at 5 MP), based on Dewarping Method ²		nd^2	Safety	EN 60950:2000		
Dewarping Method	Ceiling	Ground		Wall	Electromagnetic Compatibility	FCC CFR 47 Part 15 Subpart B
Original	2592 x 1944	2592 x 19		2592 x 1944	(EMC)	recent 47 fult 13 subpart B
Original + 2 Regions	2760 x 2064 2752 x 1168	_		_	Interface	Input: One (1) Channel, Built-in Microphone
Original + 3 Regions	2760 x 2064	2760 x 20	064	_	Audio	Output: One (1) Channel
Original + 4 Regions	2760 x 2064 2760 x 1168	2760 x 20 2760 x 11		_	Alarm	Input: One (1) Channel, 5 mA, 5 VDC Output: One (1) Channel, 300 mA, 12 VDC
Original + 8 Regions	2760 x 2064			_	Electrical	
1 Panoramic	_	_		2760 x 2064	Power Supply	12 VDC or PoE (802.3af Class 0)
1 Panoramic + 1 Region	2760 x 2064	2760 x 20)64	-		12 VDC: 2.7 W, 8.2 W with IR On
1 Panoramic + 3 Regions	-				Power Consumption	PoE: 3.3 W, 10.1 W with IR On
1 Panoramic + 4 Regions	-	_		2760 x 2064 2760 x 1168		
1 Panoramic + 6 Regions	2760 x 1832	2760 x 18	332	- 2700 X 1108	1. The DODI distance in the Column Co	
1 Panoramic + 8 Regions	-	2760 x 20			the right camera for your needs. The DO	eneral proximity for a specific classification to help pinpoint IRI distance is calculated based on sensor specifications and lab
2 Panoramic	2760 x 1840	2760 x 18		-	Recognize and Identify classifications.	e standard that defines the criteria for the Detect, Observe, DVR that supports the specific dewarping method, the camera

Dewarping is performed on a NVR or a DVR that supports the specific dewarping method, the camera does not perform on-board dewarping.

Panoramic | N55BT5

Environmental

Operating Temperature	-10° C to +50° C (14° F to +122° F) Less than 95% RH
Storage Temperature	-10° C to +50° C (14° F to +122° F) Less than 95% RH

Construction

Casing	Metal and Plastic
Dimensions	ø126.20 mm x 44.70 mm (ø4.97 in. x 1.76 in.)
Net Weight	0.28 kg (0.62 lb)
Gross Weight	0.41 kg (0.90 lb)

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		
Tripwire	A target crosses a user-defined line.	
Intrusion	A target enters or exits a defined perimeter.	
Advanced Feature		
Heat Map	Generates a visual representation of data.	

	_
Ordering	Information
Orucing	IIIIOI IIIauoii

Туре	Part Number	Description
5 MP Camera	N55BT5	5 MP Panoramic Indoor Network IR Fisheye Camera, IVS
Accessories, optional	PFB110W	Ceiling Mount
	PFA152-E	Pole Mount (use with PFB203W Wall Mount)
	PFB203W	Wall Mount

Accessories

Optional:







PFB110W Ceiling Mount

PFA152-E Pole Mount

PFB203W Wall Mount

Pole Mount	Wall Mount
PFB203W+PFA152-E	PFB203W
Ceiling Mount	Ceiling Mount
	PFB110W

Dimensions (mm/in.)



