

TDIDIS510F

5MP Panoramic Network IR Fisheye Camera



System Overview

TOUGHDOG 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.

Functions

Smart Codec (H.265+ & H.264+) Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

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. TOUGHDOG 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.

- · 1/2.7" 5Megapixel progressive scan STARVIS™ CMOS
- · H.265/H.264 triple-stream encoding
- · Max 25fps@5M(2592×1944)
- · Multiple dewarped Mode
- · Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Smart detection
- · Intelligent Function
- · Max. IR LEDs length 10m
- . Micro SD memory, PoE













Wide Dynamic Range

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

Business intelligent analysis (Heatmap)

TOUGHDOG fisheye camera also supports advanced intelligent feature like heat map besides basic IVS functions. The heatmap 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).



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Technical Specification						Day/Night	Auto(ICR) / Color / B/W
Camera						BLC Mode	BLC / HLC / WDR(120dB)
Image Sensor	1/2.7" 5Megapixel progressive scan CMOS					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels	2592(H)x1944(V)					Gain Control	Auto/Manual
RAM/ROM	512MB/32MB					Noise Reduction	3D DNR
Scanning System	Progressive					Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s					Region of Interest	Off / On (4 Zone)
Minimum Illumination	0.006Lux/F2.0(Color,1/3s,30IRE) 0.02Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)					Electronic Image Stabilization(EIS)	N/A
IR Distance	Distance up to 10m(33ft)					Smart IR	Support
IR On/Off Control	Auto/ Manual					Defog	N/A
IR LEDs	3					Digital Zoom	16x
Lens						Flip	N/A
Lens Type	Fixed					Mirror	N/A
	Fixed					Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type	Board-in					Audio	
Focal Length	1.4mm					Compression	G.711a/G.711Mu/PCM
Max. Aperture	F2.0					Network	
Angle of View	H: 180°, V:180°						DI 45 (100/1000D T)
Optical Zoom	N/A	N/A				Ethernet	RJ-45 (100/1000Base-T)
Aperture type	Fixed					Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; RTMP
Close Focus Distance	N/A					Interoperability	ONVIF, CGI, API
DORI Distance	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
	28m(92ft)	11m(36ft)	6m(19ft)	3m(9ft)		Max. User Access	10 Users/20 Users
Pan/Tilt/Rotation							NAS
Pan/Tilt/Rotation Range N/A						Edge Storage	Local PC for instant recording Mirco SD card 128GB
Intelligence						Web Viewer	IE, Chrome, Firefox, Safari
IVS	Tripwire, Int	rusion				Management Software	Smart PSS, DSS, DMSS
Advanced Intelligent Functions	Heat Map					Smart Phone	IOS, Android
Video						Certifications	
Compression	H.265/H.26	H.265/H.264/H.264H/MJPEG(Sub Stream)					CE (EN 60950:2000)
Smart Code	Support H.265+/H.264+					Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability	3 Streams					Interface	
Resolution		944)/ 3M(204 x1200)/ 1.3M				Video Interface	N/A
Resolution	1080P(1920×1080)/ 720P(1280X720)/ D1(704×576/ VGA(640X480)/ CIF(352×288)					Audio Interface	1/1 channel In/Out, 1 Built-in Mic
	Main Stream: 5M(1~25fps)					RS485	N/A
Frame Rate	Sub Stream: D1(1 ~ 25/30fps)					Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
	Third Stream: D1(1 ~ 10/17fps)					Electrical	
Bit Rate Control	CBR/VBR					Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate	H.265: 3Kbps~ 40960Kbps H.264: 3Kbps~ 40960Kbps					. 5 50ppry	
						Power Consumption	DC12V: 2.7W 8.2W(IR on) PoE: 3.3W 10.1W(IR on)

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Environmental

Operating Conditions	-10° C ~ +50° C (14° F ~ +122° F) / Less than 95% RH
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Ingress Protection	N/A
Vandal Resistance	N/A

Construction

Casing	Metal+Plastic
Dimensions	Φ126.2mm×44.7mm(Φ4.9"×1.8")
Net Weight	0.28kg(0.6lb)
Gross Weight	0.41kg(0.9lb)

Ordering Information					
Туре	Description				
	5MP Panoramic Network IR Fisheye Camera, PAL				
FMD company	5MP Panoramic Network IR Fisheye Camera,NTSC				
5MP camera	5MP Panoramic Network IR Fisheye Camera, PAL				
	5MP Panoramic Network IR Fisheye Camera,NTSC				
	Wall Mount				
Accessories (optional)	Pole Mount				
	Ceiling Mount				

Accessories







Pole Mount

1ount Wall Mount

ll Mount Ceiling Mount

Pole Mount	Wall Mount	
Junction Mount	Ceiling Mount	

Dimensions (mm/inch)

