

TDODIA5302

5MP WDR IR Mini-Dome Network Camera



System Overview

The TDODIA5302 camera delivers 5MP resolution with a 2.8mm fixed lens. 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 at an affordable price.

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.

Intelligent Video Analysis (IVS)

The camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate a warning message via detecting dramatic scene change and to guarantee effective video surveillance.

Wide Dynamic Range (WDR)

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.

Smart IR Technology

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

- · 1/2.7" 5Megapixel progressive CMOS
- · H.265& H.264 dual-stream encoding
- · 15fps@5M(2592×1944) &25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Management Software: Toughdog Viewer Professional & TD-SMS
- · 2.8 mm fixed lens
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE













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 30m (98ft).

Protection (IP67, IK10, wide voltage)

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.).

Environmental

TDODIA5302 cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

Image Flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Interoperability

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



Content	Technical Specification							Bit Rate	H.265: 12K ~ 8448Kbps
Many March Many	Camera							Day/Night	H.264: 32K ~ 10240Kbps
Minima	Image Sensor		1/2.7" 5Megapixel progresive CMOS						
Saming System	-		2592(H)x1944(V)						
Scanning bystem	RAM/ROM		512MB/32MB						
Bectronic Shutter Speed	Scanning System	า	Progressive						
Minimum Illiumination	Electronic Shutt	er Speed							
Solution		·							
Second Move than 5008 Second Se	Minimum Illumination		0.3Lux/2.0(Color,1/30s,30IRE)					_	
R Ox/Off Control Auto/ Manual	S/N Ratio		More than 50dB					_	N/A
RLEDs	IR Distance		Distance up to 30m(98ft)					Smart IR	Support
Lens Fixed Mirror Off / On	IR On/Off Contro	ol	Auto/ Manual					Digital Zoom	16x
Lens Type	IR LEDs		24					Flip	0°/90°/180°/270°
Mount Type	Lens							Mirror	Off / On
Focal Length 2.8mm	Lens Type		Fixed					Privacy Masking	Off / On (4 Area, Rectangle)
Network	Mount Type		Board-in					Audio	
Angle of View	Focal Length		2.8mm					Compression	N/A
Focus Control Fixed Fixe	Max. Aperture							Network	
Protocol Fixed Protocol Fixed Protocol Fixed Fix								Ethernet	RJ-45 (10/100Base-T)
Lens	Focus Control							Protocol	FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP;
DORI Distance 2.8 mm	Close Focus Distance		N/A					Interoperability	
Max. User Access 10 Users / 20 Users		Lens	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
PTZ Edge Storage Local PC for instant recording Pan/Tilt Range Pan:0° ~355°; Tilt:0° ~65°; Rotation:0° ~355° Web Viewer IE, Chrome, Firefox, Safari Intelligence Motion detection, Video tampering, Scene changing, Network disconnection, ip address conflict, illegal access, Storage anomaly Smart Phone IOS, Android IVS Tripwire, Intrusion Certifications CE (EN 60950:2000)	DORI Distance	2.8 mm	63(207ft)	25(82ft)	13(43ft)	6(20ft)		Max. User Access	10 Users / 20 Users
Pan/Tilt Range Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355° Intelligence	DTZ							Edge Storage	
Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, ip address conflict, Illegal access, Storage anomaly IVS Tripwire, Intrusion Certifications Certifications Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface Smart Codec Support H.265+/H.264+ Streaming Capability 2 Streams Management Software Toughdog Viewer Professional, TD-SMS Smart Phone IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Video Interface Video Interface N/A Audio Interface N/A Resolution Outport H.265+/H.264+ Audio Interface N/A Alarm N/A Alarm N/A Main Strwam: 5M(1 ~ 15fps)/3M(1 ~ 25/30fps) Electrical Power Supply DC12V, PoE(IEEE 802.3af)(Class 0)	PIZ							Web Viewer	_
Motion detection, Video tampering, Scene changing, Network disconnection, ip address conflict, Illegal access, Storage anomaly			Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355°					Management Software	Toughdog Viewer Professional, TD-SMS
Event Trigger Canaging, Network disconnection, by address conflict, Illegal access, Storage anomaly	Intelligence							_	IOS. Android
Certifications Cert	Event Trigger		changing, Network disconnection, Ip address						,
Video Certifications UL:UL60950-1 FCC: FCC Part 15 Subpart B Compression H.265/H.264H/MJPEG(Sub Stream) Interface Smart Codec Support H.265+/H.264+ Video Interface N/A Streaming Capability 2 Streams Audio Interface N/A Resolution 5M(2592×1944)/4M(2688x1520)/3M(2304×1296/2 048x1536)/1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/VGA(640×480)/CIF(352×288/352×240) RS485 N/A Alarm N/A Frame Rate Main Strwam: 5M(1 ~ 15fps)/3M(1 ~ 25/30fps) Electrical Frame Rate Sub Stream: D1(1 ~ 25/30fps) Power Supply DC12V, PoE(IEEE 802.3af)(Class 0)	IVS							Certifications	CE (EN 60950:2000)
Compression H.265/H.264H/MJPEG(Sub Stream) Interface Smart Codec Support H.265+/H.264+ Video Interface N/A Streaming Capability 2 Streams Audio Interface N/A Resolution		inposic, illu usion					Certifications	UL:UL60950-1	
Smart Codec Support H.265+/H.264+ Video Interface N/A Streaming Capability 2 Streams Audio Interface N/A Resolution 5M(2592×1944)/4M(2688x1520)/3M(2304×1296/2 048x1536)/1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/VGA(640×480)/CIF(352×288/352×240) RS485 N/A Alarm N/A Frame Rate Main Strwam: 5M(1~15fps)/3M(1~25/30fps) Electrical Sub Stream: D1(1~25/30fps) Power Supply DC12V, PoE(IEEE 802.3af)(Class 0)			H.265/H.264H/MJPEG(Sub Stream)					Interface	
Resolution	·							Video Interface	N/A
Resolution 048x1536)/1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240) RS485 N/A Alarm N/A Frame Rate Main Strwam: 5M(1~15fps)/3M(1~25/30fps) Electrical Sub Stream: D1(1~25/30fps) Power Supply DC12V, PoE(IEEE 802.3af)(Class 0)	Streaming Capability		2 Streams					Audio Interface	N/A
D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240) Alarm N/A	Resolution		048x1536)/1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/					RS485	N/A
Frame Rate Sub Stream: D1(1 ~ 25/30fps) Power Supply DC12V, PoE(IEEE 802.3af)(Class 0)								Alarm	N/A
Sub Stream: D1(1 ~ 25/30fps) Power Supply DC12V, PoE(IEEE 802.3af)(Class 0)	Frame Rate		Main Strwam: 5M(1 ~ 15fps)/3M(1 ~ 25/30fps)					Electrical	
Bit Rate Control CBR/VBR Power Consumption < 6W			Sub Stream: D1(1 ~ 25/30fps)					Power Supply	DC12V, PoE(IEEE 802.3af)(Class 0)
	Bit Rate Control		CBR/VBR					Power Consumption	<6W



Environmental

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

Construction

Casing	Metal
Dimensions	Ф109.9mm × 81mm (4.33" x 3.19")
Net Weight	0.34Kg (0.75lb)
Gross Weight	0.47Kg (1.04lb)

Accessories

Optional:









PFA136 Junction Box

PFB203W Wall mount

PFA152-E Pole mount

PFA200W Rain Shade

Junction Mount	Pole Mount	
PFA136	PFB203W + PFA152-E	
Wall Mount		
PFB203W		
	Pole Mount with Rain Shade	
	PFA136+ PFA152-E+PFA200W	
Wall Mount with Rain Shade PFA136+PFA200W		

Dimensions (mm/inch)



