

# TDODIS830P

# 4x2MP Multi-Sensor Panoramic Dome Network Camera



TDODIS830P is a full portfolio of solutions composed of projectoriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, TDODIS830P provides precise, reliable and comprehensive AI solutions for verticals.

## **Series Overview**

The splicing camera supports a 180° panoramic view and 4-channel hardware splicing to realize HD panoramic surveillance. The camera supports crowd situation analysis, vehicle situation analysis, and perimeter protection. It is widely applied in various scenes such as squares, airports, and traffic.

## **Functions**

#### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

## **Panoramic Splicing**

With advanced splicing algorithm, Panoramic Splicing technology deletes overlapped area and splices multiple images to be a complete panorama. The field of view of the spliced image can be up to 360°, which largely improves surveillance efficiency and user experience. Generally, after splicing, the field of view of four-sensor camera can be 180°, and the field of view of eight-sensor camera can be 360°.

## **Crowd Density**

With deep learning algorithm, Crowd Density technology can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

- Four 2MP 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (4096 × 1800) @30 fps
- · Built-in IR LED, max. IR distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Intelligent functions: Crowd distribution map, Vehicle Density
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; 485; BNC; supports max. 256 G
   SD card
- 12V DC/24V AC/PoE power supply; easy for installation
- Supports object tracking
- · IP67,IK10 protection













## **Vehicle Density**

With deep learning algorithm, Vehicle Density technology analyses the vehicle situation in the image, such as vehicle number in selected area. You can set threshold, and when the number is larger or smaller than the threshold, it triggers linkage.

#### IVS

With advanced video algorithm, IVS technology supports intelligent functions, such as tripwire and intrusion.

#### **Cyber Security**

TDODIS830P is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

## Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification					Resolution	4096 × 1800; 3840 × 1680; 2880 × 1264; 1024 × 452; 1920 × 832; 1280 × 560
Camera					Bit Rate Control	CBR/VBR
Image Sensor	1/2.8"4x2Megapixel progressive CMOS				Video Bit Rate	H.264: 9 kbps–17664 kbps
Max. Resolution	4096 (H) × 3	1800 (V)			video bit Nate	H.265: 9 kbps–17664 kbps
ROM	4 GB				Day/Night	Auto (ICR)/Color/B/W
RAM	2 GB				BLC	Yes
Scanning System	Progressive				HLC	Yes
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s				WDR	DWDR
Min. Illumination	0.005 Lux@F1.6 (Color,30IRE) 0.0005 Lux@F1.6 (B/W,30IRE) 0 Lux (Illuminator on)				Scene Self-adaptation (SSA)	Yes  Auto/natural/street lamp/outdoor/manual/regional
S/N Ratio	>56 dB	·			White Balance	custom
Illumination Distance	30 m (98.4 ft) (IR LED)				Gain Control	Auto/Manual
Illuminator On/Off Control	Auto/Manu	al			Noise Reduction	3D NR
Illuminator Number	6 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
	Pan: 0° to 355°				Region of Interest (RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range Tilt: 0° to 75° Rotation:-20° to 20°				Smart Illumination	Yes	
Lens					Defog	Yes
Lens Type	Fixed-focal				Privacy Masking	4 areas
Mount Type	M12				Audio	
Focal Length	2.8 mm				Audio Compression	G.711A; G.711Mu; G.726; G.723
Max. Aperture	F1.6				Alarm Event	
Field of View	Horizontal :180°; Vertical 90°					No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; intensity change;
Iris Type	Fixed				Alarm Event	
Close Focus Distance	0.6 m (2.0 ft)					voltage detection; external alarm; safety exception; crowd distribution map; vehicle congestion; parking upper limit
DORI Distance	Detect	Observe	Recognize		Network	
	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7m (25.3 ft)	3.9 m (12.8 ft)	Network	RJ-45 (10/100/1000 Base-T)
Artifical Intelligence					SDK and API	Yes
Vehicle Density	Vehicle den congestion		upper limit; vel	hicle		Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation
Crowd Density	Crowd map, global people counting; people counting in area				Cyber Security	and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
General Intelligence	General Intelligence					IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP;
IVS	Tripwire; int	trusion			Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP; Bonjour
Video Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
aco compression	supported by the sub stream)				User/Host	20 (Total bandwidth: 80 M)
Smart Codec	Smart H.265+/ Smart H.264+				Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Video Frame Rate	Main stream: 4096 × 1800 (1–25/30 fps) Sub stream: 1024 × 452 (1–25/30 fps) Third stream: 1920 × 832 (1–25/30 fps)				Browser	IE: IE9 and later Chrome: 50 and later
Stream Capability	3 streams				מוטאאכו	Firefox: 48 and later

Casing

Dimensions

Net Weight

Gross Weight



Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	IOS; Android				
Certifications					
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07				
Port					
RS-485	1 (baud rate range: 1200 bps–115200 bps)				
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	2 channels in: 5mA 3V–5V DC				
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC				
Power					
Power Supply	12V DC/24V AC/PoE(802.3at)				
Power Consumption	Basic power consumption: 4.9W (12V DC); 6.4W(24V AC); 6.5W (PoE) Max. power consumption (ICR + IR LED): 12.5W (12V DC);14.3W(24V AC); 14.9W (PoE)				
Environment					
Operating Conditions	$-40^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ ( $-40^{\circ}\text{F}$ to $+140^{\circ}\text{F}$ )/Less than 95% RH				
Storage Temperature	-40°C to +60°C (-40°F to +140°F)				
Protection Grade	IP67; IK10				
Construction					

Metal + plastic

3.65 kg (8.0 lb)

4.37 kg (9.6 lb)

169.5 mm × Φ212 mm (6.7" × Φ8.3")

# Accessories

# Included:



PFA111 Mount Adapter

# Optional:







PFB300C Ceiling mount

Ce <b>ili</b> ng Mount	Wall Mount		

# Dimensions (mm [inch])



