

TDOBCS520L3

5MP Full-color Starlight HDCVI Bullet Camera



- · Full-color starlight
- · 20 m LED distance
- · Max. 20fps@5MP
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens
- · IP67, 12V±30% DC











System Overview

Experience 5MP full HD color video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The full-color starlight HDCVI camera presents a high quality color image with rich details even in total darkness conditions. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output. It adopts two powerful warm white LED illuminators, covering an effective range up to 20 m (65.61 ft). The LEDs switch on automatically in darkness to capture detail-packed full-color images 24/7, ensuring anthentic identification of objects. It is an ideal choice for applications such as schools, retail centers and parking lots.

Functions

Full-color Starlight

The camera adopts F1.2 large aperture lens and 1/2.7" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive lowlight performance with an exceptional balance between noise reduction and the blur of moving object.

Warm Supplemental lights

With one warm supplemental LED lights, the camera is able to provide a coloful and vivid image even in total dark. By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center. Also, the sensitivity and intensity of the LED lights can be remotely controlled by OSD menu.

Broadcast-quality Audio*

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

*This function is available for select models.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm.

*Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees long-distance and real-time transmission without any loss. It supports up to 700 m for 5MP HD video via coaxial cable, and up to 300 m via UTP cable.*

*Actual results verified by real-scene testing in Toughdog's test laboratory

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Multiple-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

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Technical Specification						Privacy Masking	Off/On (8 area, rectangle)
Camera					Certifications		
Image Sensor		1/2.7 inch CMOS				Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Effective Pixels		2592 (H) × 1944 (V), 5MP					
Scanning System		Progressive				Port	
Electronic Shutter Speed		PAL: 1/25s-: NTSC: 1/30s	1/100000s 1/100000s			Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
S/N Ratio		>65dB				Audio Interface	
Minimum Illumination		0.005Lux/F1.2, OLux White Light on					
Fill Light (White Light) Distance		Distance up to 20 m (65.61 ft)				Power	
Fill Light On/Off Control		Auto; manua	al			Power Supply	12V ±30% DC
Fill Light Number		1				Power Consumption	Max 3.0W (12V DC, White Light on)
		Pan: 0°–360°				Environment	
Pan/Tilt/Rotation Range		Tilt: 0°–180° Rotation: 0°–360°				Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
Lens						Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non- condensation)
Lens Type		Fixed-focal				Protection Grade	IP67
Mount Type		M12				Structure	
Focal Length		3.6 mm				Casing	Metal throughout the whole casing
Max. Aperture		F1.2				Camera Dimensions	174.5 mm × 70.6 mm × 72.3 mm (6.87" × 2.78" × 2.85")
Field of View		3.6 mm: 111° × 83° × 56° (diagonal × horizontal × vertical)				Net Weight	0.33 Kg (0.73 lb)
Iris Type		Fixed iris				Gross Weight	0.44 Kg (0.97 lb)
Close Focus Distance		3.6 mm: 2.1 m (6.89 ft)					
DORI Distance	Lens	Detect	Observe	Recognize	Identify		
	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)		

Video

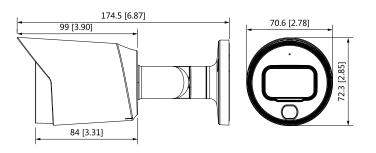
Frame Rate	CVI: PAL: 5M@20fps, 4M@25fps, 1080P@25fps; NTSC: 5M@20fps, 4M@30fps, 1080P@30fps AHD: PAL: 5M@20fps, 4M@25fps; NTSC: 5M@20fps, 4M@30fps TVI: PAL: 5M@20fps, 4M@25fps; NTSC: 5M@20fps, 4M@30fps CVBS: PAL: 960H; NTSC: 960H		
Resolution	5M (2592 × 1944); 4M (2560 × 1440); 1080P (1920 × 1080); 960H (704 × 576/704 × 480);		
BLC	BLC/HLC/WDR		
WDR	DWDR		
White Balance	Auto; manual		
Gain Control	Auto; manual		
Noise Reduction	2D NR		
Smart Light	Yes		
Mirror	Off/On		

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Ordering Information					
Туре	Description				
5MP Camera	5MP Full-color Starlight HDCVI Bullet Camera				
	Water-proof Junction Box + Pole Mount Bracket				
	Water-proof Junction Box				
Accounts	UTC Controller				
Accessories	Passive HDCVI Balun				
	Passive Video Balun				
	Integrated Mount Tester				
	12V 2A DC power adapter				

Wall Mount	Wall Mount	Pole Mount

Dimensions (mm[inch])



Accessories

Optional:







Water-proof Junction Box Water-proof Junction Box + Pole Mount Bracket

UTC Controller







Passive HDCVI Balun

Passive Video Balun

Integrated Mount Tester



12V 2A DC power adapter