

# 5MP TiOC HDCVI Eyeball Camera

Active Alarm and Dual Illuminators when Paired with an XVR







- 1/2.7-in. 5MP Progressive-scan CMOS Sensor
- Max 25 fps@5MP (16:9 video output), 2.8 mm Fixed Lens
- 120 dB true WDR, 3D NR, 40 m illumination distance
- Dual Smart Illumination IR and White Light
- Active Alarm with Red/Blue Lights and Siren or Voice Prompt
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- CVI/CVBS/AHD/TVI Switchable
- Super Adapt, Built-in Microphone
- IP67 Ingress Protection
- Five-year Warranty\*













\*In order to use the 5MP TiOC HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.220402 or later version.

### **System Overview**

The Dahua Three-in-One Camera (TiOC) offers multiple features working in tandem to assist with deterrence and low-light detection while delivering high-resolution video images. The camera also offers a multi-dimensional system that links surveillance videos to alarms, audio prompts and various types of information to assist with verifying potential risks. The camera is ideal for a host of diverse applications — True Wide Dynamic Range, and Smart Dual illuminators allow the camera to operate in any lighting condition and the IP67 rating makes the camera suitable for the harshest environments.

#### **Functions**

#### **Smart Dual Illuminators**

The camera offers both IR and white-light illuminators and intelligently employs each depending on the situation. Typically, the camera enters the IR mode as ambient light decreases. When the camera detects a person entering the monitoring area, it activates the white-light illuminator to capture full-color details. Once the person leaves the area, the camera switches back to IR illumination.

#### **Active Alarm**

The camera features active deterrence functionality to respond automatically to a triggered alarm. The configurable automatic responses include activation of red and blue lights and the broadcast of a built-in message or siren to stop an incident before it happens.

#### **True 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.

# **Super Adapt**

Super Adapt technology monitors external lighting conditions and automatically adjusts the camera settings to provide optimal video images, whether indoors or outdoors. Plus, with this technology installers no longer have to take time to set the optical parameters

manually, the camera automatically adjusts to the optimal settings, saving time and money.

#### **Advanced 3D NR**

3D NR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3D NR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3D NR effectively decreases the band width and saves the storage space.

#### **Broadcast-quality Audio**

Audio information is used as supplementary evidence in video surveillance applications. This HDCVI camera transmits audio signals over the coaxial cable, eliminating the need for separate audio wiring. In addition, the camera uses unique audio processing and transmission technology that eliminates noise to best duplicate source audio, guaranteeing high-quality and highly effective audio information.

#### Image Light-interference

With the camera's red and blue flashing lights, anyone at the scene can visually see the lights. However, the flashing lights are unnoticable by the operator or during a post forensic review as it helps avoid interference or distraction for a better on-screen image.

#### Protection

The camera is subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating making it suitable for demanding outdoor applications. The camera allows for  $\pm 30\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications.

Technical :	Specification	1				Day/Night	Auto (ICR), Color, B/W	
Camera						BLC	BLC, HLC, WDR, HLC-Pro	
Image Sensor		1/2.7-in. 5MP CMOS Sensor				WDR	120 dB	
Effective Pixel		2880 (H) × 1620 (V)				White Balance	Auto; Area WB	
Scanning System		Progressive				Gain Control	Auto; Manual	
Electronic Shutter Speed		1/3 s-1/100,000 s				Noise Reduction	3D DNR	
S/N Ratio		Greater than 65 dB				Illumination Mode	Smart IR and WL; WL Mode; IR Mode	
Minimum Illumination		Color: 0.001 lux at F1.0 (30 IRE) B/W: 0.0001 lux at F1.0 (30 IRE) 0 lux at F1.0 (with illuminators on)				Mirror Privacy Masking	Off, On Off, On (8 Areas, Rectangle)	
						Active Alarm		
Illumination Distance		IR: 40.0 m (131.23 ft) White Light: 40.0 m (131.23 ft)					Audio 1: Alarm Audio 2: No parking here	
Illuminator O	n/Off Control	Auto, Manual				Sound Warning	Audio3: Private land no entry Audio4: Warning zone keep off	
Illuminators		IR: Two (2) LE White Light:					Audio5: Welcome Volume: High/medium/low; duration: 5s–60s; 110 dB	
Pan/Tilt/Rota	tion Range	Pan: 0°-360° Tilt: 0°-78°				Red/Blue Light Warning	Flash: 5s–60s; frequency: high/medium/low	
		Rotation: 0°–360°				Certifications		
Lens Type						CE	EN55032, EN61000-3, EN55024, EN50130-4, EN55035, EN62368-1	
Mount Type		Fixed-focal M12				Safety	UL62368-1+CAN CSA C22.2 No.62368-1-14	
Focal Length		2.8 mm				Electromagnetic	CFR 47 FCC Part 15 SubpartB,	
Max. Aperture		F1.0				Compatibility (EMC)	ANSI C63.4-2014	
Angle of View		Horizontal: 111°  Vertical: 57°  Diagonal: 421°				Interface Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Iris Type		Diagonal: 131°  Fixed				Audio Input	One (1) Channel (RCA), built-in mic	
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft)				Alarm Output	One (1) Channel (300 mA, 12 VDC)	
	Lens	Detect	Observe	Recognize	Identify	Power		
DORI Distance	2.8 mm	66.0 m	26.4 m	13.2 m	6.6 m	Power Supply	12 V ± 30% DC	
		(216.54 ft)	(86.61 ft)	(43.31 ft)	(21.65 ft)	Power Consumption	Maximum 10.5W (12 VDC with illuminator on)	
Installation	i Angle	Pan: 0° to 36	O°			Environment		
Range		Tilt: 0° to 78° Rotation: 0° t	Operating Conditions  -40 °C to +60 °C (-40 °F to +140 °F)  Less than 95% RH (non-condensation)		· · · · · · · · · · · · · · · · · · ·			
Video						Storage Conditions	-40 °C to $+60$ °C ( $-40$ °F to $+140$ °F) Less than 95% RH (non-condensation)	
Resolution		5MP (2880 × 1620); 4MP (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)				Ingress Protection	IP67	
				0 fps; 1080p@	30 fps	Construction		
Frame Rate		AHD: 4MP@	30 fps	ps, 1000pe	100	Casing	Metal	
			O fps			Dimensions	Φ122.0 mm × 110.9 mm (Φ4.8" × 4.37")	
						Net Weight	0.70 kg (1.54 lb)	
						Cross Woight	0.00 kg (2.12 lb)	

The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.

Gross Weight

0.96 kg (2.12 lb)

# Pro Series | A52CJC2

Ordering I	nformation	
Туре	Part Number	Description
5MP HDCVI Camera	A52CJC2	5MP TiOC HDCVI 2.8 mm Fixed Lens Eyeball Camera
	PFA130-E	Junction box
	PFB203W	Wall Mount Bracket (use alone or with PFA152-E)
Accessories	PFA152-E	Pole Mount Bracket (use with PFB203W)
(Optional)	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester
	PFM800-4K	Passive HDCVI Balun

Junction Box PFA130-E	Wall Mount PFB203W	Ceiling Mount
Pole Mount PFA152-E + PFW203W		

# Accessories

## Optional:



PFA130-E Water-proof Junction Box



PFB203W Wall Mount Bracket



PFA152-E+PFB205W Pole Mount Bracket + Wall Mount Bracket



Passive HDCVI Balun



12 V 1A Power Adapter



PFM904 Integrated Mount Tester

# Dimensions (mm[inch])

mm [inch]





