

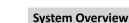
# 2 MP PTZ Network Camera

30x Starlight IR PTZ Network Camera



#### 1/2.8-in. 2 MP STARVIS<sup>™</sup> CMOS Sensor

- Powerful 30x Optical Zoom
- Starlight Technology for Ultra-low Light Sensitivity
- Triple-stream Encoding
- Smart H.265+ and H.264 Dual Codecs
- 1080p at 60 fps Maximum Resolution
- True Wide Dynamic Range (120 dB)
- Maximum IR Distance up to 200 m (656 ft)
- Intelligent Video System (IVS) Analytics with Auto-tracking
- IP67 Ingress Protection and IK10 Vandal Resistance
- Designed for Extreme Temperature Environments
- Five-year Warranty\*



The 2 MP IR PTZ Dome camera features a 1/2.8-in. STARVIS™ CMOS imager with a 30x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for outdoor applications. The camera uses the Smart H.265+ video compression standard to improve encoding efficiency while preserving high-quality video. The PTZ camera a day/night mechanical IR cut filter and True Wide Dynamic Range to deliver crystal clear images in challenging lighting conditions.

#### Functions

#### Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

#### 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.

#### Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.



#### Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera detects and captures a snapshot of human face in a defined area within a scene, and offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

#### Smart H.265+

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

#### Interoperability

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

#### Environmental

With a built-in heater and a temperature range of -40° C to +70° C (-40° F to 158° F), the camera is designed for extreme temperature environments. The camera complies with the IK10 Vandal Resistance 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.). Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.



# Pro Series | 6CE230UNI

#### **Technical Specification**

Camera				
Image Sensor		1/2.8-in. STARVIS™ CMOS Sensor		
Effective Pixels		1920(H) x 1080(V), 2 MP		
RAM/ROM		512 MB / 128 MB		
Scanning System		Progressive		
Electronic Shutter Speed		1/1 s to 1/30,00 s		
Minimum Illumination		Color: 0.005 lux at F1.6 0 lux at F1.6 (IR on)		
S/N Ratio		More than 55 dB		
IR Distance		Distance up to 200 m (656.17 ft)		
IR On/Off Control		Auto, Manual		
IR LEDs		Six (6)		
Lens				
Focal Length		4.5 mm to 135 mm		
Max. Aperture		F1.6 to F4.4		
Angle of View		Horizontal: 67.8°to 2.4°		
Optical Zoom		30x		
Focus Control		Auto, Manual		
Close Focus Distance		100 mm to 1000 mm		
DORI Distance <sup>1</sup>				
Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	
1862 m (6109 ft)	744 m (2441 ft)	372 m (1220 ft)	186 m (610 ft)	
PTZ				
Pan/Tilt Range		Pan: 0° to 360° endle: Tilt: –20° to 90°, Auto		
Manual Control Speed		Pan: 0.1° to 200° /s Tilt: 0.1° to 120° /s		
Preset Speed		Pan: 300° /s Tilt: 200° /s		
Presets		300		
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan		
Speed Setup		Proportional Pan/Tilt	Speed to Zoom Ratio	
Power up Action		Auto restore to previous PTZ and lens status after power failure		
Idle Motion		Activate Preset, Scan, Tour, or Pattern if there is no command in the specified period		
Protocol		DH-SD, Pelco-P/D (au	to recognition)	
Video				
Compression		Smart H.265+, H.265,	Smart H.264+, H.264	
Streaming Capability		Three (3) Streams		
Resolution		1080p (1920 x 1080), 720p (1280 x 720), D2 CIF (352 x 240)		
Frame Rate	Main Stream	1080p, 1.3 MP or 720p at 60 fps		
	Sub Stream 1	D1 or CIF at 30 fps		
	Sub Stream 2	1080p, 1.3 MP, 720p, D1 or CIF at 30 fps		

Bit Rate Control	CBR, VBR			
Bit Rate	H.265/H.264: 448 K to 8192 Kbps			
Day/Night	Auto (ICR), Color, B/W			
Backlight Compensation	BLC, HLC, True WDR (120 dB)			
White Balance	Auto, ATW, Indoor, Outdoor, Manual			
Gain Control Noise Reduction	Auto, Manual Ultra DNR (2D/3D)			
Advanced Features	Motion Detection, Region of Interest, Electronic Image Stabilization (EIS), Defog			
Digital Zoom	16x			
Flip	180°			
Privacy Masking	Up to 24 areas			
Audio				
Compression	G.711a, G.711Mu, PCM, AAC, G.722, G.726, G.729, MPEG2-L2			
Network				
Ethernet	RJ-45 (10 Base T/1000 Base-TX)			
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x			
Interoperability	ONVIF, PSIA, CGI			
Streaming Method	Unicast / Multicast			
Maximum User Access	20 users			
Edge Storage	NAS (Network Attached Storage) Local PC for Instant Recording Micro SD Card Slot, maximum 128 GB			
Web Viewer	IE 10, Firefox, Safari			
Management Software	Smart PSS, DSS			
Mobile Operating System	IOS, Android			
Certifications				
Safety	UL60950-1 + CAN/CSA C22.2, No.60950-1			
Electromagnetic Compatibility (EMC)	EN 55032 EN 50130-4 FCC Part 15 Subpart B ANSI C63.4-2014			
Immunity	EN 55024			
Interface				
Video	One (1) BNC (1.0 Vp-p, 75 Ω)			
Audio	Input: One (1) Channel Output: One (1) Channel			
RS485	One (1)			
Alarm	Input: Seven (7) Channels Output: Two (2) Channels			
Electrical				
Power Supply	24 VAC, 3 A (± 25%), PoE+ (802.3at Class 4)			
Power Consumption	17 W, 25 W with IR and Heater On			

 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.

# Pro Series | 6CE230UNI

#### Environmental -40° C to 70° C (-40° F to +158° F), with built-in heater **Operating Conditions** Less than 90% RH Ingress Protection IP67 Vandal Resistance IK10 Lightning Protection Rating 6 kV Construction Casing Metal Dimensions ø209.0 mm x 337.40 mm (ø8.23 in. x 13.28 in.) Net Weight 5.80 kg (12.79 lb) Gross Weight 9.10 kg (20.06 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • Tampering with the camera. Error writing to an onboard Micro SD card. Standard Features Error sending or receiving data over the network. • Unauthorized access to the camera. Premium Features Motion An object moves through any part of the scene. Tripwire A target crosses a user-defined line. A target enters or exits a defined perimeter. Intrusion A person or object moves the camera to change the scene Scene Change or covers the camera to obscure the scene. Abandoned/Missing A target leaves an object in designated area, or a target Object removes an object from the same designated area. Advanced Features Detects and captures a snapshot of a human face in a **Facial Detection** defined area within a scene. Heat Map Generates a visual representation of data. Controls the pan/tilt/zoom actions of the camera to Auto-tracking automatically track an object in motion and to keep it in the scene.

#### **Ordering Information**

Туре	Part Number	Description
2 MP PTZ Camera	6CE230UNI	2 MP 30x Starlight PTZ Network Camera, Built-in Heater, WDR, IVS
Accessories, included	PFB305W	Wall Mount
	AC24V/3A	Power Adapter
Accessories, optional	PFA111	Mount Adapter
	PFA120	Junction Box
	PFA140	Power Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB303S	Parapet Mount

# Included: PFB305W



Wall Mount

#### Optional:

PFA111

Mount Adapter

PFA151

Corner Mount

Accessories









PFA140 Power Box

PFA150 Pole Mount





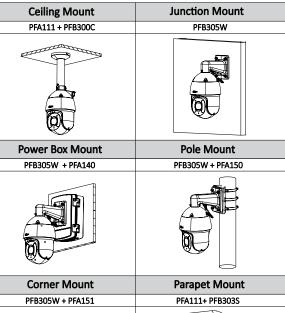
PFA120

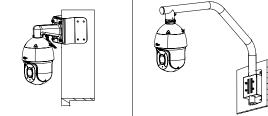
Junction Box



PFB300C Ceiling Mount

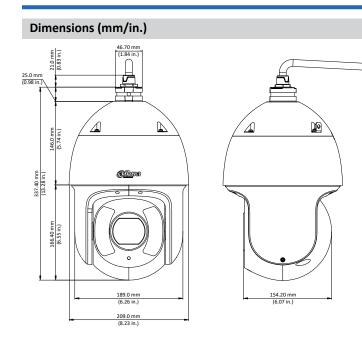
PFB303S Parapet Mount







### Pro Series | 6CE230UNI





Rev 001.002 © 2018 Dahua. All rights reserved. Design and specifications are subject to change without notice.