

# DH-IPC-PF83230-A180

4x8MP Multi-Sensor Panoramic Bullet Network Camera



- Four 1/2.0" 8Megapixel progressive scan CMOS
- H.265/H.264 triple-stream encoding
- Max 25fps@8640x3840
- Support 180-degree panoramic view
- Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Micro SD memory, IP67, IK10



## System Overview

The multi-sensor camera provides added flexibility for capturing wide area video surveillance. With four 8MP sensors working in tandem to create a comprehensive 180-degree overview, the camera can replace multiple single-sensor cameras providing a higher return on investment. The multi-sensor camera features contrast, backlight compensation, white balance, and resolution control to create a crystal-clear image even in the most 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 color details in low light down to 0.009lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

### HEVC(H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

### Environmental & Protection

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±25% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV 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.)

Technical Specification					
Camera					
Image Sensor	Four 1/2.0" 8Megapixel progressive scan CMOS				
Effective Pixels	8640(H)x3840(V)				
RAM/ROM	3072MB/384MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s				
Minimum Illumination	0.009Lux/F2.4( Color,1/3s,30IRE) 0.05Lux/F2.4( Color,1/30s,30IRE) 0.005Lux/F2.4( B/W,1/3s,30IRE) 0.03Lux/F2.4( B/W,1/30s,30IRE)				
S/N Ratio	More than 50dB				
IR Distance	N/A				
IR On/Off Control	N/A				
IR LEDs	N/A				

Lens					
Lens Type	Fixed				
Mount Type	Board-in				
Focal Length	4.5mm				
Max. Aperture	F2.4				
Angle of View	H: 180°, V:80°				
Optical Zoom	N/A				
Focus Control	Fixed				
Close Focus Distance	N/A				
DORI	Lens	Detect	Observe	Recognize	Identify
Distance	4.5mm	90m(295ft)	36m(118ft)	18m(59ft)	9m(30ft)

Pan/Tilt/Rotation					
Pan/Tilt/Rotation Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~355°				

Intelligence					
Event Trigger	Network disconnection , IP address conflict, Illegal Access,Storage anomaly				
IVS	N/A				
Advanced Intelligent Functions	N/A				

Video					
Compression	H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)				
Smart Codec	N/A				
Streaming Capability	3 Streams				
Resolution	8640x3840/3840x1680/2880x1264/ 1920x832/1284x560/1032X452				
Frame Rate	Main Stream: 8640x3840 (1~25fps)				
	Sub Stream: 1032X452 (1 ~ 25fps)				
	Third Stream: 1920x832 (1 ~ 25fps)				
Bit Rate Control	CBR/VBR				
Bit Rate	H.265: 3840Kbps~ 32768Kbps H.264: 10752Kbps~ 32768Kbps				

Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / DWDR
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	N/A
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization(EIS)	N/A
Smart IR	N/A
Defog	N/A
Digital Zoom	16x
Flip	N/A
Mirror	N/A
Privacy Masking	N/A

Audio	
Compression	G.711a/G.711Mu/AAC/ G.726

Network	
Ethernet	RJ-45 (100/1000Base-T)
Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
Interoperability	API
Streaming Method	Unicast / Multicast
Max. User Access	7 Users/20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Smart Phone	N/A

Certifications	
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B

Interface	
Video Interface	N/A
Audio Interface	2/1 channel In/Out
RS485	N/A
Alarm	2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC

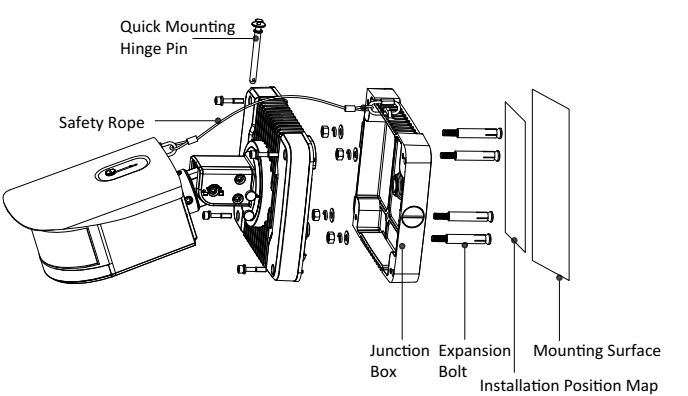
Electrical	
Power Supply	DC36V
Power Consumption	<35W

Environmental

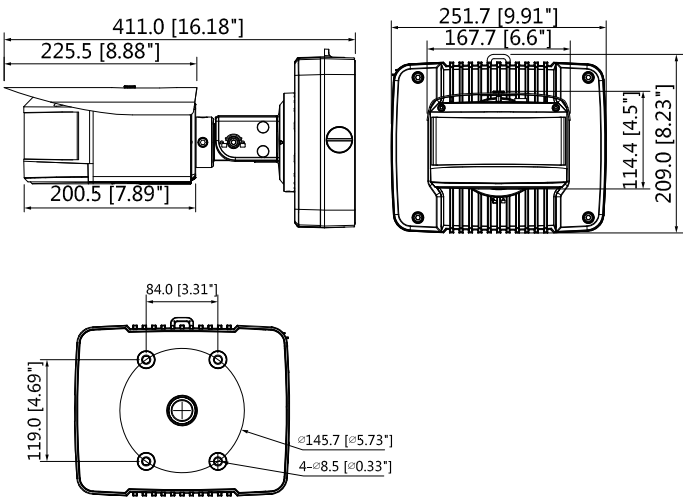
Operating Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Storage Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	411mm×251.7mm×114.4mm (16.18" ×9.91" ×4.5")
Net Weight	6.9kg(15.2lb)
Gross Weight	10kg(22lb)



Dimensions (mm/inch)



Ordering Information		
Type	Part Number	Description
4x8MP camera	DH-IPC-PF83230P-A180	4x8MP Multi-Sensor Panoramic Bullet Network Camera, PAL
	DH-IPC-PF83230N-A180	4x8MP Multi-Sensor Panoramic Bullet Network Camera, NTSC
	IPC-PF83230P-A180	4x8MP Multi-Sensor Panoramic Bullet Network Camera, PAL
	IPC-PF83230N-A180	4x8MP Multi-Sensor Panoramic Bullet Network Camera, NTSC
Accessories (Included)	DC Power	DC36V Power
Accessories (optional)	PFA150	Pole mount
	PFA151	Corner mount

