

DH-IPC-HDBW5331E

3MP WDR IR Dome Network Camera



System Overview

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

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 0.006lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

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 supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

- · 1/2.8" 3Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@3MP(2048×1536)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 1.85mm fixed lens
- · Max. IR LEDs Length 15m
- · LDC Function(Lens Distortion Correction)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Micro SD memory, IP67, IK10, PoE













Protection(IP67, IK10, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for 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 is the choice for installation in even the most unforgiving environments.

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.



Technical Specification							Day/Night	Auto(ICR) / Color / B/W
Camera							BLC Mode	BLC / HLC / WDR(120dB)
Image Sensor		1/2.8" 3Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Effective Pixels		2048(H) x 1536(V)					Gain Control	Auto/Manual
RAM/ROM		512MB/32MB					Noise Reduction	3D DNR
Scanning System		Progressive					Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.006 Lux/F2.0 (Color,1/3s,30IRE) 0.03 Lux/F2.0 (Color,1/30s,30IRE)					Electronic Image Stabilization (EIS)	N/A
C/N Potio		0 Lux/F2.0 (IR ON) More than 50dB					Smart IR	Support
S/N Ratio							Defog	N/A
IR Distance		Distance up to 15m (49ft) Auto/ Manual					Digital Zoom	16x
IR On/Off Cont IR LEDs	101	Auto/ Manual					Flip	0°/180°
		3					Mirror	Off / On
Lens		Fixed					Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type							Audio	
Mount Type		Board-in					Compression	G.711a/ G.711Mu/ AAC/ G.726
Focal Length		1.85mm				Network		
Max. Aperture		F2.0				Ethernet	RJ-45 (10/100Base-T)	
Angle of View		LDC(Lens Distortion Correction) OFF: H: 166°, V:121° LDC ON: H: 151°, V:114° LDC 50%: H: 129°, V:102° LDC 100%: H: 115°, V:95°					Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Optical Zoom		N/A						IGMP; SNMP
Focus Control		N/A					Interoperability	ONVIF, PSIA, CGI
Close Focus Distance		0.3m					Streaming Method	Unicast / Multicast
DORI Distance	Lens 1.85mm	Detect 30m(98ft)	Observe 12m(40ft)	Recognize 6m(20ft)	Identify 3m(10ft)		Max. User Access	10 Users / 20 Users
Pan/Tilt/Rotation						Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB	
Pan/Tilt/Rotati	Ū	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°					Web Viewer	IE, Chrome, Firefox, Safari
Intelligence	!						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Smart Phone	IOS, Android
Advanced Intelligent Functions		Face Detection					Certifications	
Video								CE (EN 60950:2000)
Compression		H.265+/H.265/H.264+/H.264					Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams					Interface	
Resolution		3M(2048x1536)/ 1080P(1920x1080)/1.3M(1280 x960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)				Video Interface	1 Port(For adjustment only)	
Resolution						Audio Interface	1/1 channel In/Out	
Frame Rate		Main Stream: 3MP (1~25/30fps)					RS485	N/A
		Sub Stream: D1(1~25/30fps)					Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
		Third Stream: 1080P(1~25/30fps)					Electrical	
Bit Rate Control		CBR/VBR					Power Supply	DC12V, AC24V, PoE(802.3af)(Class 0)
Bit Rate		H.264: 32~10240Kbps H.265: 12~8960Kbps					Power Consumption	<9W

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф159.1mm×117.9mm (6.26"×4.64")
Net Weight	0.9kg (1.98lb)
Gross Weight	1.15kg (2.53lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HDBW5331EP	3MP IR Dome Network Camera, WDR, PAL				
3MP camera	DH-IPC- HDBW5331EN	3MP IR Dome Network Camera, WDR, NTSC				
Sivir Calliela	IPC-HDBW5331EP	3MP IR Dome Network Camera, WDR, PAL				
	IPC-HDBW5331EN	3MP IR Dome Network Camera, WDR, NTSC				
	PFA138	Junction Box				
	PFB302S	Wall mount				
Accessories	PFB201C	In-ceiling mount				
(optional)	PFB300C	Ceiling mount				
	PFA152-E	Pole mount				
	PFA101	Mount adapter				

Accessories

Optional:







PFB302S Wall mount

PFA138 Juntion Box

PFB201C In-ceiling mount







PFB300C

PFA152-E

PFA101

In-ceiling Mount	Junction Mount	Pole Mount	
PFB201C	PFA138	PFA101 + PFB302S + PFA152-E	
0			
Ceiling Mount	Wall Mount		
PFA101 + PFB300C	PFA101 + PFB302S		

Dimensions (mm/inch)





