

DH-IPC-HDB5331E

3MP WDR 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
- · 25fps@3MP(2048×1536)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 1.85mm fixed lens
- · 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.



Camero	Technical Specification						Day/Night	Auto(ICR) / Color / B/W
Trective Puels						BLC Mode	BLC / HLC / WDR(120dB)	
RAM/ROM			1/2.8" 3Megapixel progressive scan CMOS			OS	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Scanning System Progressor Progressor Monton Detection Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Region of interest Off / On it Zone, Rectangle Off / On it Zone Off / On							Gain Control	Auto/Manual
	RAM/ROM						Noise Reduction	3D DNR
Distance	Scanning Syster	n					Motion Detetion	Off / On (4 Zone, Rectangle)
Minimum Mumination Minimum Mumination Minimum Mumination Minimum Mumination Minimum Mumination Minimum	Electronic Shutt	ter Speed					Region of Interest	Off / On (4 Zone)
S/N Ratio			0.03Lux/F2.0 (Color,1/30s,30IRE)				(EIS)	N/A
Bit Distance			0.01Lux/F2.0 (B/W,1/30s,30IRE)					
Rip							-	
IR LEDS							Digital Zoom	16x
Lens Privacy Masking	,	·ol	N/A				Flip	0°/180°
Audio	IR LEDs		N/A				Mirror	Off / On
Mount Type	Lens						Privacy Masking	Off / On (4 Area, Rectangle)
Compression	Lens Type		Fixed				Audio	
Network Network	Mount Type		Board-in				Compression	G.711a/ G.711Mu/ AAC/ G.726
Compression	Focal Length		1.85mm				Network	
DDC(Inel Stotroit of Orrection) OFF: H: 166', V:121' LDC ON: H: 151', V:114' LDC SOK: H: 121', V:102' LDC 100%: H: 151', V:14' LDC SOK: H: 121', V:102' LDC 100%: H: 115', V:95'	Max. Aperture		F2.0				Ethernet	RJ-45 (10/100Base-T)
Interoperability ONVIF, PSIA, CGI	Angle of View		LDC ON: H: 151°, V:114° LDC 50%: H: 129°, V:102°					HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS;
Close Focus Distance 0.3m DORI Lens Detect Observe Recognize Identify Distance 1.85mm 30m/98t) 12m/40ft) 6m/20ft) 3m/10ft) Pan/Tilt/Rotation Pan/Tilt/Rotation Pan/Tilt/Rotation Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan:0~355'; Tilt:0~65'; Rotation:0~355' Intelligence IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Certifications Video Compression H.265+/H.265/H.264+/H.264 Streaming Capability 3 Streams Interface Main Stream: 3MP(125/30fps) Advanced Intelligent Functions Resolution Main Stream: 3MP(125/30fps) Third Stream: 1080P(125/30fps) Third Stream: 1080P(125/30fps) Third Stream: 1080P(125/30fps) Bit Rate H.264: 32~10240Kbps H.265: 12~8960Kbps Streaming Method Unicast / Multicast Max. User Access 10 Users / 20 Users NAS Local PC for instant recording Mirro SD card 1280B Max. User Access 10 Users / 20 Users 10 User	Optical Zoom		N/A					
DORN	Focus Control	Focus Control					Interoperability	ONVIF, PSIA, CGI
Distance 1.85mm 30m(98ft) 12m(40ft) 6m(20ft) 3m(10ft) Pan/Tilt/Rotation Pan/Tilt/Rotati	Close Focus Distance		0.3m				Streaming Method	Unicast / Multicast
Pan/Tilt/Rotation Pan/Tilt/Rotation					_		Max. User Access	10 Users / 20 Users
Intelligence Management Software E., Chrome, Firetox, Safari	Pan/Tilt/Rot		36111(3611)	1211(1010)	omizorty	3111(1011)	Edge Storage	Local PC for instant recording
Note	Pan/Tilt/Rotation	on Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°				Web Viewer	IE, Chrome, Firefox, Safari
Advanced Intelligent Functions Face Detection Certifications	Intelligence						Management Software	Smart PSS, DSS, Easy4ip
Video Certifications CE (EN 60950:2000) U:UL60950-1 FCC: FCC Part 15 Subpart B	IVS		Tripwire, Intr	usion, Object	Abandoned/N	Missing	Smart Phone	IOS, Android
Certifications	Advanced Intell	Advanced Intelligent Functions		on			Certifications	
Streaming Capability 3 Streams			H.265+/H.26	5/H.264+/H.2	.64		Certifications	UL:UL60950-1
Resolution x960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) Audio Interface 1/1 channel In/Out Main Stream: 3MP (1~25/30fps) RS485 N/A Frame Rate Sub Stream: D1(1~25/30fps) Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC Bit Rate Control CBR/VBR Electrical Bit Rate H.264: 32~10240Kbps H.265: 12~8960Kbps			3 Streams				Interface	
Resolution x960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) Audio Interface 1/1 channel In/Out Main Stream: 3MP (1~25/30fps) RS485 N/A Frame Rate 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)			3M(2048x1536)/ 1080P(1920x1080)/1.3M(1280 x960)/720P(1280×720)/D1(704×576/704×480)/					1 Port(For adjustment only)
Frame Rate Sub Stream: D1(1^25/30fps) Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC Electrical Bit Rate Control CBR/VBR Power Supply DC12V, AC24V, PoE(802.3af)(Class 0)							Audio Interface	1/1 channel In/Out
Alarm 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)	Frame Rate		Main Stream: 3MP (1~25/30fps)				RS485	N/A
Third Stream: 1080P(1~25/30fps) Electrical Bit Rate Control CBR/VBR Power Supply DC12V, AC24V, PoE(802.3af)(Class 0)			Sub Stream: D1(1~25/30fps)				Alarm	
Bit Rate Control CBR/VBR Power Supply DC12V, AC24V, PoE(802.3af)(Class 0) Bit Rate H.264: 32~10240Kbps H.265: 12~8960Kbps DC12V, AC24V, PoE(802.3af)(Class 0)			Third Stream: 1080P(1~25/30fps)				Electrical	T GIAITICE OUT. JOONIA 1240C
Bit Rate H.264: 32~10240Kbps H.265: 12~8960Kbps	Bit Rate Control							DC12V, AC24V, PoE(802.3af)(Class 0)
FOWER CONSTRUCTION STAN	Bit Rate		H.264: 32~10240Kbps H.265: 12~8960Kbps				Power Consumption	<7W

Eco Savvy 3.0 | DH-IPC-HDB5331E

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH	
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +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- HDB5331EP	3MP Dome NetworkCamera,WDR, PAL			
3MP camera	DH-IPC- HDB5331EN	3MP Dome Network Camera, WDR,NTSC			
SIVIP CAITIETA	IPC-HDB5331EP	3MP Dome Network Camera,WDR, PAL			
	IPC-HDB5331EN	3MP 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	
5			
Ceiling Mount	Wall Mount		
PFA101 + PFB300C	PFA101 + PFB302S		

Dimensions (mm/inch)





