

# 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
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- $\cdot$  1.85mm fixed lens
- · LDC Function(Lens Distortion Correction)
- $\cdot$  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.



# Eco Savvy 3.0 | DH-IPC-HDB5331E

# **Technical Specification**

Camera
Cumera

Camera					
Image Sensor		1/2.8" 3Megapixel progressive scan CMOS			
Effective Pixels		2048(H) x 1536(V)			
RAM/ROM		512MB/32MB			
Scanning System		Progressive			
Electronic Shut	ter Speed	Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.03Lux/F2.0 0.001Lux/F2.	0 ( Color,1/3s ( Color,1/30s 0 ( B/W,1/3s, ( B/W,1/30s,	,30IRE) 30IRE)	
S/N Ratio		More than 50dB			
IR Distance		N/A			
IR On/Off Contr	ol	N/A			
IR LEDs		N/A			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		1.85mm			
Max. Aperture		F2.0			
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°			
Optical Zoom		N/A			
Focus Control		N/A			
Close Focus Dis	tance	0.3m			
DORI Distance	Lens 1.85mm	Detect 30m(98ft)	Observe 12m(40ft)	Recognize 6m(20ft)	Identify 3m(10ft)
Pan/Tilt/Rot		5611(5614)	12(1010)	011(2010)	5(2010)
Pan/Tilt/Rotatio	on Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°			
Intelligence					
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intell	igent Functions	Face Detection			
Video	0				
		H 265±/H 265/H 264±/H 264			
Compression	hility	H.265+/H.265/H.264+/H.264			
Streaming Capability		3 Streams			
Resolution		3M(2048x1536)/1080P(1920x1080)/1.3M(1280 x960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)			
Frame Rate		Main Stream: 3MP (1~25/30fps)			
		Sub Stream: D1(1~25/30fps)			
		Third Stream: 1080P(1~25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate	H.264: 32~10240Kbps H.265: 12~8960Kbps		OKbps		

Day/Night	Auto(ICR) / Color / B/W	
BLC Mode	BLC / HLC / WDR(120dB)	
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Gain Control	Auto/Manual	
Noise Reduction	3D DNR	
Motion Detetion	Off / On (4 Zone, Rectangle)	
Region of Interest	Off / On (4 Zone)	
Electronic Image Stabilization (EIS)	N/A	
Smart IR	N/A	
Defog	N/A	
Digital Zoom	16x	
Flip	0°/180°	
Mirror	Off / On	
Privacy Masking	Off / On (4 Area, Rectangle)	
Audio		
Compression	G.711a/ G.711Mu/ AAC/ G.726	
Network		
Ethernet	RJ-45 (10/100Base-T)	
Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	
Interoperability	ONVIF, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	10 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, Easy4ip	
Smart Phone	IOS, Android	
Certifications		
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
Interface		
Video Interface	1 Port(For adjustment only)	
Audio Interface	1/1 channel In/Out	
RS485	N/A	
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	
Electrical		
Power Supply	DC12V, AC24V, PoE(802.3af)(Class 0)	
Power Consumption	<7W	

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### Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Φ159.1mm×117.9mm (6.26"×4.64")
Net Weight	0.9kg (1.98lb)
Gross Weight	1.15kg (2.53lb)

# **Ordering Information**

Туре	Part Number	Description	
3MP camera	DH-IPC- HDB5331EP	3MP Dome NetworkCamera,WDR, PAL	
	DH-IPC- HDB5331EN	3MP Dome Network Camera, WDR,NTSC	
	IPC-HDB5331EP	3MP Dome Network Camera,WDR, PAL	
	IPC-HDB5331EN	3MP Dome Network Camera WDR,NTSC	
Accessories (optional)	PFA138	Junction Box	
	PFB302S	Wall mount	
	PFB201C	In-ceiling mount	
	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		
Ceiling Mount	Wall Mount	$  \nabla  $		
PFA101 + PFB300C	PFA101 + PFB302S			
Dimensions (mm/inch)				



