

IPC-HFW5231E-Z12E

2MP WDR IR Bullet Network Camera





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.

Tunctions

ePoE technology

The ePoE technology of Shogun, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Shogun ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Starlight Technology

For challenging low-light applications, Shogun'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.

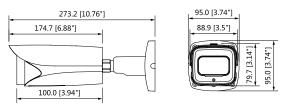
Protection(IP67, IK10, wide voltage)

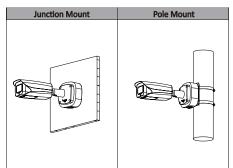
The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and 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.

Dimensions (mm/inch











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Technical Specification					
Camera					
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS			
Effective Pixels		1920(H) x 1080(V)			
RAM/ROM		256MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.006Lux/F1.4 (Color,1/3s,30IRE) 0.002Lux/F1.5 (Color,1/3s,30IRE) 0Lux/F1.4 (IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 200m (656ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		4			
Lens					
Lens Type		Motorized/ Auto Iris(DC)			
Mount Type		Board-in			
Focal Length		5.3mm~64mm			
Max. Aperture		F1.4			
Angle of View		H: 59°~5°, V:34°~3°			
Optical Zoom		12x			
Focus Control		Motorized			
Close Focus Distance		0.3m			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	73m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)
	Т	882m(2893ft)	353m(1158ft)	176m(577ft)	88m(288ft)
Pan/Tilt/Rotation					
Pan/Tilt/Rotation	on Range	Pan:0"~360"; Tilt:0"~90"; Rotation:0"~360"			
Intelligence					
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intelligent Functions		Face Image Capture			
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capability		3 Streams			
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)			
Frame Rate		Main Stream: 1080P(1~50/60fps)			
		Sub Stream: D1(1~50/60fps)			
		Third Stream: 1080P(1~25/30fps)			
Bit Rate Control		CBR/VBR			

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	Support			
Defog	N/A			
Digital Zoom	16x			
Flip	0°/90°/180°/270°			
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; RTCP			
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) UI::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	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC			
Electrical				
Power Supply	DC12V, PoE (802.3af)(Class 0)			
Power Consumption	<12.95W			



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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	273.2mm×95.0mm×95.0mm (10.76"×3.74"×3.74")			
Net Weight	1.11Kg (2.44lb)			
Gross Weight	1.51Kg (3.33lb)			

Accessories







Junction box

Pole Mount

SHOGUN TECHNOLOGY CO.,LTE