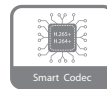**Dahua**
TECHNOLOGY

DH-IPC-HDBW1230E-S5

2MP Entry IR Fixed-Focal Dome Network Camera

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in efficient IR illuminator, and the max. illumination distance is 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, illegal access
- 12V DC/PoE power supply
- IP67, IK10 protection

2Mp	Smart Codec	Motion Detection	Smart Illumination	IP67	IK10

Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Motion Detection

When moving objects appear in the monitoring image, Dahua Motion Detection (General) technology triggers alarm or records.

Smart Illumination

Dahua Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts Illuminations intensity automatically to display the details of the moving target.

Image Flip

For narrow and long scenes, Dahua image flip technology flips the image by 90°/180°/270° to realize better surveillance in rotation mode.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.
IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).
Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Min. Illumination	0.01 Lux @F2.0
S/N Ratio	>56 dB
Illumination Distance	30 m (98.4 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	3 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–355° Tilt: 0° –65° Rotation: 0°–355°

Lens

Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	2.8 mm: F2.0 3.6 mm: F2.0
Field of View	2.8 mm: Horizontal: 102°; Vertical: 54°; Diagonal: 120° 3.6 mm: Horizontal: 84°; Vertical: 45°; Diagonal: 100°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 0.5 m (1.6 ft) 3.6 mm: 0.8 m (2.6 ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	3.6 mm	49.7 m (163.1 ft)	19.9 m (65.3 ft)	9.9 m (32.5 ft)	5.0 m (16.4 ft)

*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

Video

Video Compression	H.265; H.264; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/Smart H.264+
Video Frame Rate	Main Stream: 1920 × 1080 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)
Stream Capability	2 streams

Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6400 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

Alarm

Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; safety exception

Network

Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Security	Digest; WSSE; Account lockout; Security logs; Generation and importing of X.509 certification; HTTPS; Trusted boot; Trusted execution; Trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Genetec
User/Host	6 (Total bandwidth: 36 M)
Storage	FTP
Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	IOS; Android

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 1.6W (12V DC); 2.2W (PoE) Max. power consumption (ICR + H.265 + IR intensity): 4.4W (12V DC); 5.1W (PoE)

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67; IK10

Structure

Casing	Metal
Product Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	0.35 kg (0.7 lb)
Gross Weight	0.50 kg (1.1 lb)

Ordering Information

Type	Part Number	Description
2MP Camera	DH-IPC-HDBW1230EP-S5	2MP Entry IR Fixed Focal Dome Network Camera,PAL
	DH-IPC-HDBW1230EN-S5	2MP Entry IR Fixed Focal Dome Network Camera,NTSC
Accessories (optional)	PFA136	Junction Box
	PFB203W	Wall Mount
	PFA152-E	Pole Mount
	PFA106	Mount Adapter
	PFB220C	Ceiling Mount
	PFM321D	DC12V1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester

Accessories

Optional:

PFA136
Junction Box

PFB203W
Wall Mount

PFA152-E
Pole Mount

PFA106
Mount Adapter

PFB220C
Ceiling Mount

PFM321D
DC12V1A Power
Adapter

LR1002-1ET/1EC
Single-port Long
Reach Ethernet over
Coax Extender

PFM900-E
Integrated Mount
Tester

Junction Mount	Wall Mount	Ceiling Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

41.0 [1.61]

81.0 [3.19]

⌀109.9 [⌀4.33]

⌀98.2 [⌀3.87]

3-⌀4.7 [⌀0.19]