

6 MP Vari-focal Network Camera

6 MP IR Varifocal Dome Network Camera



System Overview

The 6 MP day/night dome network camera features an advanced 1/1.8-in progressive-scan CMOS Sony imager with a motorized zoom lens. The camera uses the H.265 video compression standard to improve encoding efficiency, Digital Wide Dynamic Range for excellent image reproduction. The camera also features built-in business intelligence algorithms. The IP67 environmental protection rating and the IK10 vandal resistance ensure the camera operates in the harshest environments.

Functions

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.

Intelligent Business Analysis

The built-in IVS features people counting and heat map functionality, advanced features that add business intelligence to your security system. Intelligent Analysis tracks and stores daily, weekly, monthly, and yearly people flow through a defined scene and produces a configurable report. The system uses this data to produce a Heat Map, a two-dimensional representation of data that provides an immediate visual summary of information. People Counting and Heat Maps can identify the most active areas of a retail space providing valuable data analysis for commercial applications.

- 1/1.8-in. 6 MP Progressive Scan CMOS Sensor
- Triple-stream Encoding
- Smart H.265+ and H.264 Dual Codecs
- 6 MP at 30 fps (3072 x 2048)
- Digital WDR and True Day/Night (ICR)
- Multiple Network Monitoring: Web viewer, CMS (DSS/PSS) and DMSS
- 4.1 mm to 16.4 mm Motorized Lens
- Maximum IR LED Length 50 m (164 ft)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Intelligent Video System with Intelligent Business Analysis
- Five-year Warranty











Smart Scene Adaptive (SSA) Technology

Smart Scene Adaptive (SSA) is an intelligent image technology, developed by Dahua that automatically evaluates and compensates for changes in the luminance of a scene. SSA automatically regulates the exposure parameters to improve image quality in a backlit scene, especially in scenes with traffic lights or headlights.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

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.

Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.



Camera	Technical Specification		
Effective Pixels 3072(H) x 2048(V) RAM/ROM 1024 MB / 128 MB Scanning System Progressive Minimum Illumination Color: 0.02 Lux at F1.53 BW: 0 Lux at F1.53 (IR on) More than 50 dB IR Distance Distance up to 50.0 m (164.04 ft) IR On/Off Control Auto, Manual IR LEDs Three (3) Lens Lens Lens Type Motorized Auto Iris (HALL) Mount Type Board-in Focal Length 4.1 mm to 16.4 mm Motorized Max. Aperture F1.53 Angle of View Horizontal: 35° to 107° Optical Zoom 4x Focus Control Motorized Close Focus Distance 1.0 m (3.28 ft) Pan/Tilt/Rotation Pan: 0° to 355° Video Streaming Capability Three (3) Streams 6 MP (3072 x 2048), 5 MP (2560 x 1920), 3 MP (2048 x 1536), 3 MP(2304 x 1296), 1080 pt. 13 MP (2280 x 290), 270 pt. 1220 x 220, 1220 x 220, 1070 x 480), 13 MP (2180 x 296), 270 pt. 1220 x 220, 1220 x 220, 1070 x 420 x 420) Frame Rate Main Stream: 6 MP at 30 fps Sub Stream 1: D1 at 30 fps	Camera		
RAM/ROM 1024 MB / 128 MB Scanning System Progressive Minimum Illumination Color: 0.02 Lux at F1.53 (IR on) S/N Ratio More than 50 dB IR Distance Distance up to 50.0 m (164.04 ft) IR On/Off Control Auto, Manual IR LEDS Three (3) Lens Lens Lens Type Motorized Auto Iris (HALL) Mount Type Board-in Focal Length 4.1 mm to 16.4 mm Motorized Max. Aperture F1.53 Angle of View Horizontal: 35° to 107° Optical Zoom 4x Focus Control Motorized Close Focus Distance 1.0 m (3.28 ft) Pan/Tilt/Rotation Pan: 0° to 355° Range Titt:0° to 65° Rotation: 0° to 355° Video Compression Smart H.265+, H.264 Streaming Capability Three (3) Streams Resolution 6 MP (3072 x 2048), 5 MP (2560 x 1920), 3 MP (2304 x 1296), 1080p (1920 x 1080), 13 MP (12304 x 1296), 1080p (1920 x 1080), 13 MP (12304 x 1296), 1080p (1920 x 1080), 13 MP (12304 x 1296), 1080p (1920 x 1080), 13 MP (12304 x 1296), 1080p (1920 x 1080), 13 MP	Image Sensor	1/1.8-in. 6 MP CMOS	
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Day/Night Auto (ICR), Color, B/W		H.264: 24 to 16384 Kbps	
BLC, HLC, DWDR, SSA	Day/Night		

White Balance	Auto, Natural, Street Lamp, Outdoor, Manual	
Gain Control	Auto, Manual	
Noise Reduction	3D DNR	
Motion Detection	Off, On (4 Zone, Rectangle)	
Region of Interest	Off, On (4 Zone)	
Electronic Image Stabilization(EIS)	Support	
Smart IR	Support	
Defog	Support	
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 (100/1000 Base-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, maximum 128 GB	
Web Viewer	IE, Firefox, Safari	
Web Viewer Management Software	IE, Firefox, Safari Smart PSS, DSS	
Management Software	Smart PSS, DSS	
Management Software Mobile Operating System	Smart PSS, DSS	
Management Software Mobile Operating System Certifications	Smart PSS, DSS IOS, Android	
Management Software Mobile Operating System Certifications Safety Electromagnetic Compatibility	Smart PSS, DSS IOS, Android UL60950-1	
Management Software Mobile Operating System Certifications Safety Electromagnetic Compatibility (EMC)	Smart PSS, DSS IOS, Android UL60950-1	
Management Software Mobile Operating System Certifications Safety Electromagnetic Compatibility (EMC) Interface	Smart PSS, DSS IOS, Android UL60950-1 FCC Part 15 Subpart B In: One (1) Channel	
Management Software Mobile Operating System Certifications Safety Electromagnetic Compatibility (EMC) Interface Audio Interface	Smart PSS, DSS IOS, Android UL60950-1 FCC Part 15 Subpart B In: One (1) Channel Out: One (1) Channel In: One (1) Channel	
Management Software Mobile Operating System Certifications Safety Electromagnetic Compatibility (EMC) Interface Audio Interface Alarm	Smart PSS, DSS IOS, Android UL60950-1 FCC Part 15 Subpart B In: One (1) Channel Out: One (1) Channel In: One (1) Channel	

Environmental

Operating Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH
Storage Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	ø159.10 mm x 117.90 mm (ø6.26 in. x 4.64 in.)
Net Weight	0.96 kg (2.12 lb)
Gross Weight	1.75 kg (3.56 lb)

Intelligence

Heat Map

IVS triggers an alarm and takes a defined action for the following events:

Standard Features	 Tampering with the camera. Camera loses or changes focus drastically. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera.
Premium Features	
Motion	An object moves through any part of the scene.
Tripwire	A target crosses a user-defined line.
Intrusion	A target enters or exits a defined perimeter.
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.
Advanced Features	
Facial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.
People Counting	Measure the number of customers, visitors or passengers in a surveillance scene.

Generates a visual representation of data.

Ordering Information		
Туре	Part Number	Description
6 MP Camera	N68BL7Z	IR Dome Network Camera,IVS
Accessories, included	PFA138	Junction Box
	PFA101	Mount Adapter
	PFA152	Pole Mount
Accessories, optional	PFB201C	In-ceiling Mount
	PFB300C	Ceiling Mount
	PFB302S	Wall Mount

Accessories

Optional:







PFB302S Wall mount

PFA138 Juntion Box

PFB201C In-ceiling mount







PFB300C Ceiling mount

PFA152 Pole mount

PFA101 Mount adapter

In-ceiling Mount	Junction Mount	Pole Mount
PFB201C	PFA138	PFA101 + PFB302S + PFA152
5		
Ceiling Mount	Wall Mount	
PFA101 + PFB300C	PFA101 + PFB302S	

Dimensions (mm/inch)





