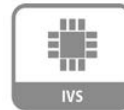


High Speed Network PTZ

2-MP Ultra-high Speed 30x PTZ Dome Camera



- Maximum 720p at 60 fps and 1080p at 30 fps
- Powerful 30x Optical Zoom
- Intelligent Video System
- Built-in 2/1 Alarm in/out
- Outdoor Rated IP67
- Vandal Resistant IK10
- POE+
- Five-year Warranty



System Overview

Featuring a True Day/Night, 2 MP resolution, Pan/Tilt/Zoom (PTZ) camera with a 30x optical zoom lens, this series provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. The series combines a day/night mechanical IR cut filter for the highest image quality for variable lighting conditions during the day.

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 to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Functions

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, and Facial Detection, for searching or identification of individuals.

Technical Specification

Camera

Image Sensor	1/2.8 –in. Exmor CMOS
Effective Pixels	1944 (H) x 1092 (V)
Scanning System	Progressive
Electronic Shutter Speed	1/1 s to 1/30,000 s
Minimum Illumination	Color: 0.05Lux at F1.6; B/W: 0.005 Lux at F1.6; 0Lux (IR on)
S/N Ratio	More than 55 dB

Lens

Lens Type	Motorized, Auto Iris
Mount Type	Board-in
Focal Length	4.5 mm to 135 mm (30x Optical zoom)
Max Aperture	F1.6 to F2.6
Angle of View	H: 67.8° to 2.4°
Focus Control	Auto, Manual
Close Focus Distance	100 mm to 1000 mm

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: -0° to 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° to 350° /s; Tilt: 0.1° to 250° /s
Preset Speed	Pan: 400° /s; Tilt: 500° /s
Presets	300
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
Speed Setup	Human-oriented focal length, speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset, Scan, Tour Pattern if there is no command in the specified period
Time Task	Auto activation of Preset, Pan, Scan, Tour, Pattern by preset-time
Protocol	DH-SD, Pelco-P/D (Auto recognition)

Video

Compression	H.264, MJPEG
Streaming Capability	3 Streams
Resolution	1080p (1920 × 1080), 720p (1280 × 720), D1 (704 × 480), CIF (352 × 240)
Frame Rate	Main Stream: 1080p/D1 at 30 fps, 720p at 60 fps Sub Stream 1: D1/CIF at 30 fps Sub Stream 2: 720p/D1/CIF at 30 fps
Bit Rate Control	CBR, VBR
Bit Rate	H.264: 448 K to 8192 Kbps, MJPEG: 5120K to 10240 Kbps
Day/Night	Auto (ICR), Color, B/W
BLC Mode	BLC, HLC, DWDR
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto, Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detetion	Off, On (4 Zone, Rectangle)
Region of Interest	Off, On (4 Zone)
Digital Zoom	16x
Flip	0°/180°
Privacy Masking	Up to 24 areas

Audio

Compression	G.711a, G.711Mu (32 kbps), PCM (128 kbps)
Interface	1/1 channel In/Out

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF, PSIA, CGI
Streaming method	Unicast / Multicast
Max. User Access	20
Edge Storage	Micro SD (128GB) Memory Status Display (Normal, Error, Active, Formatting, Lock), NAS (Network Attached Storage), Local PC for Instant Recording, Micro SD, Max 128GB
Web Viewer	IE 10, Firefox, Safari
Management Software	Smart PSS, DSS
Mobile Operating System	Android, IOS

Certifications

Certifications	FCC (SEFD1506051-A) UL (E234884-A71-UL)
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Interface

Audio Interface	1 Input / 1 Output
Alarm	2 Inputs / 1 Output

Electrical

Power Supply	24 VAC, 1.5 A (±10%), POE + (802.3at)
Power Consumption	13 W, 23 W (Heater on)

Environmental

Operating Conditions	-40°C to +60°C (-40°F to +140°F) Less than 90% RH *Start up should be done at above -35°C (-31°F)
Storage Conditions	-30°C to +60°C (-22°F to +140°F), Less than 90% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ186.0 mm x 309.0 mm (Φ7.32 in. x 12.17 in.)
Net Weight	2.50 kg (5.51 lbs)
Gross Weight	4.50 kg (9.92 lbs)

Intelligence

IVS triggers an alarm and takes a defined action for the following events:	
Standard Features	Tampering with the camera. 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.
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.

Accessories

Included:



PFB300S
Wall mount



PFA110
Mount adapter



Power Supply

Optional:



PFB300C
Ceiling mount



PFB303S
Parapet mount



PFA140
Junction box



PFA120
Junction box



PFA150
Pole mount

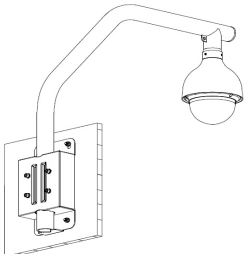
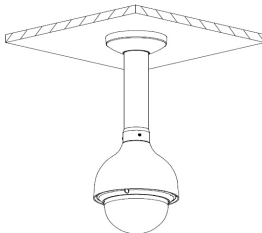
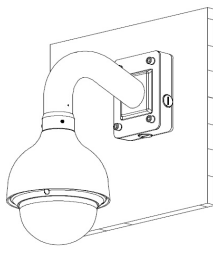
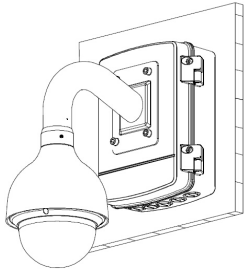
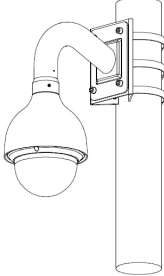
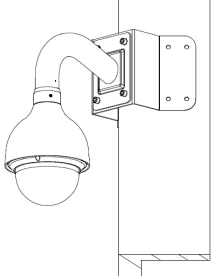


PFA151
Pole mount

Ordering Information

Type	Part Number	Description
2 MP Camera	DH-SD50A230TN-HNI	2MP HD PTZ 30x Zoom, DWDR, IP67, IK10, IVS
Accessories	PFB300S	Wall Mount Bracket (Included)
	PFA110	Mount Adapter (Included)
	Power Supply	Power Supply (Included)
	PFB300C	Ceiling Mount Bracket
	PFB303S	Parapet Mount Bracket
	PFA140	Junction box
	PFA120	Water-proof Junction Box
	PFA150	Pole Mount Bracket
PFA151	Pole Mount Bracket	

Installation

Ceiling Mount	Ceiling Mount	Wall Mount
PFA110+PFB303S	PFA110+PFB300C	PFA110+PFB300S+PFA120
		
Pole Mount	Junction Mount	Corner Pole Mount
PFA110+PFB300S+PFA140	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151
		

Dimensions (mm/inch)

