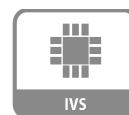
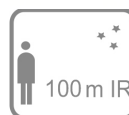


# IR Network PTZ Dome

## 2 MP 30x Network IR PTZ Dome Camera



- Maximum 720p at 60 fps and 1080p at 30 fps
- Powerful 30x Optical Zoom
- Smart IR distance up to 100 m (328 ft)
- Intelligent Video System
- Built-in 2/1 Alarm in/out
- Outdoor Rated IP66, 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 +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 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" Exmor CMOS
Effective Pixels	1944 H x 1092 V
Scanning System	Progressive
Electronic Shutter Speed	1/1 to 1/30,000s
Minimum Illumination	Color: 0.05Lux atF1.6; B/W: 0.005Lux at F1.6; 0Lux (IR on)
S/N Ratio	More than 55 dB
IR Distance	100 m (328 ft)
IR On/Off Control	Auto, Manual
IR LEDs	6

**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: -15° to 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° to 300° /s; Tilt: 0.1° to 200° /s
Preset Speed	Pan: 400° /s; Tilt: 300° /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: 448K to 8192 Kbps, MJPEG: 5120 K 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)
Smart IR	Support
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 (SEFV1408109-A) UL (E234884-A54-UL)
----------------	--

## Interface

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

## Electrical

Power Supply	24 VAC, PoE + (802.3at)
Power Consumption	Max. 13 W, 23 W with IR on

## Environmental

Operating Conditions	-40°C to +70°C (-40°F to +158°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	IP66

## Construction

Casing	Metal+Plastic
Dimensions	Φ186.0 mm x 309.0 mm (Φ7.32 in. x 12.17 in.)
Net Weight	3.7 kg (8.16 lbs)
Gross Weight	6.8kg (15.00lbs)

## Intelligence

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

<b>Standard Features</b>	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.
<b>Premium Features</b>	
<b>Motion</b>	An object moves through any part of the scene.
<b>Tripwire</b>	A target crosses a user-defined line.
<b>Intrusion</b>	A target enters or exits a defined perimeter.
<b>Abandoned/Missing Object</b>	A target leaves an object in designated area, or a target removes an object from the same designated area.
<b>Advanced Features</b>	
<b>Facial Detection</b>	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

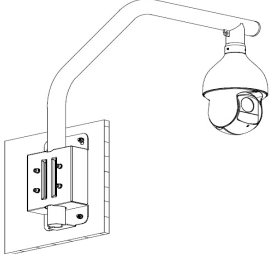
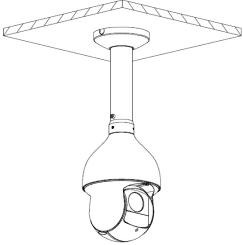
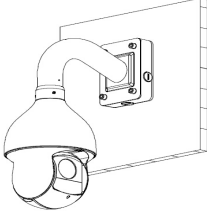
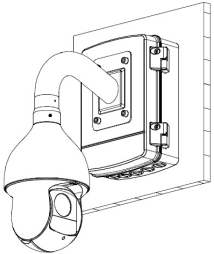
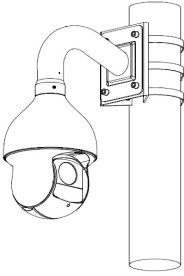
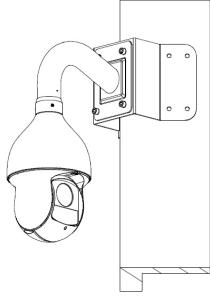


PFA151  
Pole mount

## Ordering Information

Type	Part Number	Description
2 MP Camera	DH-SD59A230TN-HNI	2MP HD PTZ 30x Zoom, DWDR, IP66,IR: up to 100m (328ft), 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

<b>Ceiling Mount</b>	<b>Ceiling Mount</b>	<b>Wall Mount</b>
<b>PFA110+PFB303S</b>	<b>PFA110+PFB300C</b>	<b>PFA110+PFB300S+PFA120</b>
		
<b>Pole Mount</b>	<b>Junction Mount</b>	<b>Corner Pole Mount</b>
<b>PFA110+PFB300S+PFA140</b>	<b>PFA110+PFB300S+PFA150</b>	<b>PFA110+PFB300S+PFA151</b>
		

Dimensions (mm/inch)

