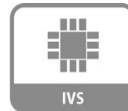


12x Mini PTZ Dome

2MP Indoor/Outdoor Network Camera



- Max 60fps@720p and 30fps@1080p
- Powerful 12x Optical Zoom
- True WDR
- Intelligent Video System (optional)
- Built-in 2/1 Alarm in/out
- Outdoor Rated IP66
- Vandal Resistant IK10
- POE+



System Overview

Featuring a True Day/Night, 2-megapixel resolution, Pan/Tilt/Zoom (PTZ) camera with a 12x optical zoom lens, this series provides an all-in-one solution for capturing long distance video surveillance for indoor/outdoor applications. The series combines a day/night mechanical IR cut filter for the highest image quality for variable lighting conditions during the day.

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.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

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 optional 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. Features only available to models ending with the letter "I".

Environmental

With a temperature range of -40°C ~ +60°C (-40°F ~ +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 IP66 rating makes it suitable for demanding outdoor applications.

Protection

Supporting ±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.

Technical Specification

Camera

Image Sensor	1/2.8" Exmor CMOS
Effective Pixels	1944 H x 1092 V
Scanning System	Progressive
Electronic Shutter Speed	1/3 ~ 1/30,000s
Minimum Illumination	Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6; 0Lux (IR on)
S/N Ratio	More than 55dB
IR LEDs	NA

Lens

Lens Type	Motorized / Auto Iris
Mount Type	Board-in
Focal Length	5.1mm~61.2mm (12x Optical zoom)
Max Aperture	F1.6 ~ F3.0
Angle of View	H: 59.3° ~ 5.2°
Focus Control	Auto / Manual
Close Focus Distance	100mm~ 1000mm

PTZ

Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~ 300° /s; Tilt: 0.1° ~ 120° /s
Preset Speed	Pan: 300° /s; Tilt: 200° /s
Presets	300 (DH-SD)
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)

Intelligence

IVS (optional)	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection
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Video

Compression	H.264 / MJPEG
Streaming Capability	3 Streams
Resolution	1080p (1920×1080) / 720p (1280×720) / D1 (704×576/704×480) / CIF (352×288/352×240)
Frame Rate	Main Stream 1080p / D1 (1 ~ 30fps), 720p (1~60fps) Sub Stream 1 D1/CIF (1 ~ 30fps) Sub Stream 2 720p /D1/ CIF (1 ~ 30fps)
Bit Rate Control	CBR / VBR
Bit Rate	H.264: 448K ~ 8192Kbps, MJPEG: 56K ~ 20480Kbps
Day/Night	Auto (ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR (120dB)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detection	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 (32kbps) / PCM (128kbps)
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	IE10....
Management Software	Smart PSS, DSS
Smart Phone	Android, ios

Certifications

Certifications	FCC (SEFD1408108-A) UL (E234884-A70-UL)
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Interface

Audio Interface	Input/Output 1 Input / 1 Output
RS485	N/A
Alarm	2/1 In/Out

Electrical

Power Supply	AC24V/1.5A (±10%), POE plus (802.3at)
Power Consumption	Max. 12W

Environmental

Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH *Start up should be done at above -35°C (-31°F)
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	IP66, IK10

Construction

Casing	Metal
Dimensions	Φ170 mm x 155 mm (Φ6.69"x6.10")
Net Weight	1.8kg (3.97lbs)
Gross Weight	3.3kg (7.28lbs)

Accessories

Included:



Power Supply

Optional:



PFB300C
Ceiling mount



PFB302S
Wall mount



PFA102
Mount Adapter



PFA151
Pole mount

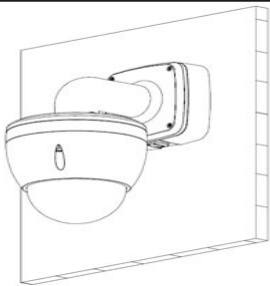
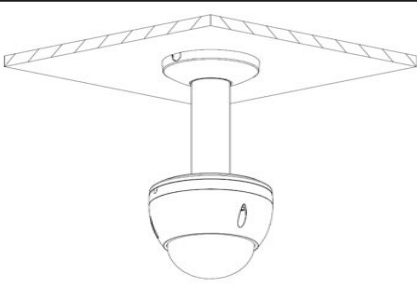




PFA152
Pole mount

Ordering Information

Type	Part Number	Description
2MP Camera	DH-SD42A212TN-HN	2MP HD PTZ 12x Zoom, WDR, IP66, IK10, POE+, Power Supply Included
	DH-SD42A212TN-HNI	2MP HD PTZ 12x Zoom, WDR, IP66, IK10, POE+, IVS, Power Supply Included
Accessories	PFA102	Mount Adapter
	PFB302S	Water-proof Wall Mount Bracket
	PFB300C	Ceiling Mount Bracket
	PFA151	Pole Mount Bracket
	PFA152	Pole Mount Bracket

Installation

Wall Mount	Ceiling Mount
PFA102+PFB302S	PFA102+PFB300C
	
Pole Mount	Junction Mount
PFA102+PFB302S+PFA152	PFA102+PFB302S+PFA151
	

Dimensions (mm/inch)

