



## IP-4421D

### Four Megapixel HD WDR Network Vandal-Proof IR Mini Dome Camera



#### Key Features

- 1/3" 4 Megapixel Progressive Scan CMOS
- Support H.264&MJPEG dual codec
- Max 20fps@4M(2688x1520), 25/30fps@3M(2304x1296)
- Smart Detection supported
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 3.6mm fixed lens (2.8mm, 6mm optional)
- Max. IR LEDs Length 30m
- Micro SD memory, POE, IP66, IK10



## System Overview

The IR Megapixel Fixed MiniDome camera delivers 4MP resolution with a choice of 2.8mm or 3.6mm wide angle lens options. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provide an excellent choice for a variety of small to mid-size applications at an affordable price.

## Functions

### 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.

### Smart H.264+

Delivering high quality video without straining the network, smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

### Environmental

With a temperature range of -30°C to +60°C (-22°F to +140°F), the camera is designed for extreme temperature environments. The camera complies with 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.

### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification

Camera

Image Sensor	1/3" 4M Progressive Scan CMOS
Effective Pixels	2688(H) x 1520(V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/10000s
Minimum illumination	Color: 0.01Lux@F2.0; B/W: 0Lux@F2.0(IR on)
S/N Ratio	More than 50dB
Video Output	N/A
<b>Camera Features</b>	
Max. IR LEDs Length	30m
Day/Night	Auto(ICR)/Color/B/W
Backlight Compensation	BLC / HLC / WDR(120dB)
White Balance	Auto/Manual
Gain Control	Auto/Manual
Noises Reduction	3D
Privacy Masking	Up to 4 areas

Lens

Focal Length	3.6mm (2.8mm, 6mm optional)
Max Aperture	F2.0 (F2.0/F2.0)
Focus Control	Manual
Angle of View	H: 84°/106°/56°
Lens Type	Fixed lens
Mount Type	Board-in Type

Electrical

Power Supply	DC 12V, PoE(802.3af)
Power Consumption	Max 4W

Environmental

Operating Conditions	-30°C~60°C, Less than 90% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Video

Compression	H.264 / H.264B / H.264H / MJPEG	
Streaming Capability	3 Streams	
Resolution	4M(2688x1520)/4M(2560x1400) 3M(2304x1296)1080P(1920x1080) 720P(1280x720)/D1(704x576/704x480) CIF(352x288/352x240)	
Frame Rate	Main Stream	4M(1~20fps) / 3M(1~25/30fps)
	Sub Stream1	D1/CIF (1~25/30fps)
	Sub Stream2	720P (1 - 20fps)
Bit Rate	H.264: 32Kbps ~ 10Mbps	
Corridor Mode	Support	

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, PPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF, PSIA, CGI
Max. User Access	20 users
Smart Phone	IOS, Android
<b>Auxiliary Interface</b>	
Memory Slot	Micro SD Max 128GB

Construction

Casing	Metal
Dimensions	φ110 (mm) x 81 (mm)
Net Weight	0.33kg (0.47kg with Package)

Dimension

