

# D4221 | Mini Dome 2MP Indoor IR Compact Camera

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**ZAVIO**  
Innovating IP since 2006



- 1/2.8" 2MP Starlight CMOS sensor
- Fixed 2.8mm, F2.0
- Smart Codec + H.265
- 1080p @ 30fps
- 120dB WDR
- 30m IR range with Smart IR
- ROI (Region Of Interest)
- Corridor mode
- Operating conditions -30~ 60°C
- Micro SD/SDHC/SDXC card slot up to 128GB
- Two-way audio, with built-in mic.
- 1 alarm in / 1 alarm out
- 12V DC & PoE (802.3af)
- IP66 & IK08
- ONVIF 2.4 & Profile S

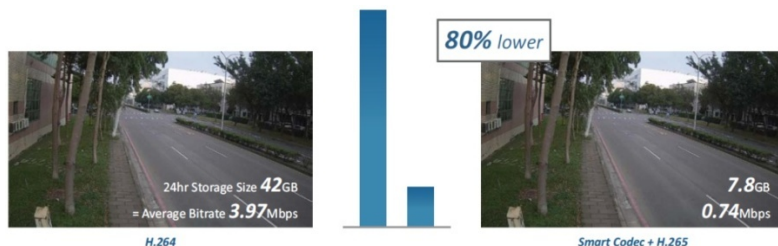
ZAVIO D4221 is a small sized camera with high performance technology. Latest H.265 compression to cut bandwidth in half, with ZAVIO's smart codec feature further lowering bandwidth and storage consumption to 80% less than normal H.264 cameras. Class-leading WDR to handle the most challenging lighting conditions.

The D4221 is designed for quick and easy installation. With 3 axis angle adjustment and support of Corridor mode, D4221 is ideal for numerous indoor application such as home, office, hallways and aisles. Addition to its IP66 weatherproof with junction box and IK08 vandal-proof housing.

## Features

### Smart Codec + H.265

ZAVIO Smart Codec + H.265 reduces bandwidth and storage requirements by a stunning 80% compared to standard H.264 camera.



WDR off



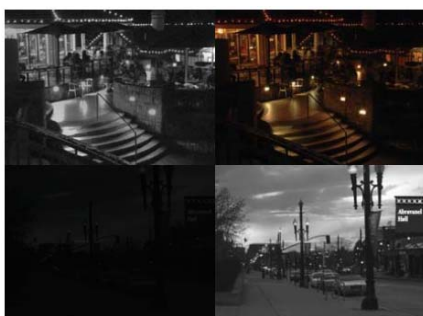
WDR on

### WDR

Cameras with WDR will take multiple exposures of the full scene and merge them together to provide an image that extends further than the human eye can perceive.

### Smart IR

Smart IR automatically adjusts brightness of the IR illuminators to the scene content, effectively avoiding overexposure of objects that are too close to the camera.



Other Cameras

ZAVIO Starlight Cameras

### Starlight

Combined with cutting-edge sensor technology, advanced noise reduction and high frame rate, Starlight cameras can capture highly detailed color images of fast moving objects even under challenging lighting conditions.

### ROI (Region Of Interest)

Defining a Region Of Interest will allow you to spend less bandwidth in areas that are less important while relocating resolution on the most relevant areas.



## Technical Specifications

### Camera

<b>Camera Type</b>	2MP Indoor IR Mini Dome
<b>Image sensor</b>	1/2.8" CMOS sensor
<b>Lens</b>	Fixed 2.8mm, F2.0
<b>Horizontal view angle</b>	100°
<b>IR working distance</b>	30m effective range with Smart IR
<b>Min</b>	0.005 lux @ F2.0 (color) 0.0005 lux @ F2.0 (B/W)
<b>WDR</b>	120dB
<b>Day/Night function</b>	Mechanical IR cut filter, Light sensor

### Video & Audio

<b>Resolutions</b>	Motion JPEG/H.264/H.265: 2 Profile from 1920 x 1080 to 320 x 240 (total 5 resolutions) 2 Profile from 640 x 480 to 320 x 240 (total 3 resolutions)
<b>Video compression</b>	Motion JPEG H.264 baseline/ main profile/high profile H.265
<b>Frame rate</b>	H.265/H.264: up to 30 fps at 1920 x 1080 Motion JPEG : up to 30 fps at 1920 x 1080
<b>Video</b>	Simultaneous Motion JPEG, H.264, H.265 Controllable frame rate and bandwidth Support unicast and multicast (RTSP)
<b>Image settings</b>	Rotation: mirror, flip, mirror flip, corridor mode Brightness, contrast, saturation, sharpness Overlay capabilities: time, date, text and privacy Image ROI, White balance (auto/manual) 3D DNR -
<b>Audio support</b>	Two-way (full duplex) with built-in microphone
<b>Audio compression</b>	G.711 u law, a law, G.726, AMR

### I/O & Connector

<b>Ethernet</b>	RJ-45 Ethernet 10/100 Base -T
<b>Power Supply</b>	Terminal block, 12V DC, 1A Power consumption: Max 7.5W PoE(Power over Ethernet) built-in IEEE 802.3af
<b>Alarm I/O</b>	1/1
<b>Audio connector</b>	Line in & line out
<b>Analog video output</b>	-
<b>RS-485</b>	-
<b>Edge storage</b>	Micro SD/SDHC/SDXC up to 128GB
<b>Buttons</b>	Reset push button
<b>Other(s)</b>	-

### Alarm & Event

<b>Event type</b>	Alarm input, motion detection, audio detection, periodical, network link down, tampering, tripwire, people density, perimeter.
<b>Alarm action</b>	Network storage, edge storage, FTP, SMTP, HTTP event, HTTPS, alarm out pre and post event image.

### Network

<b>Users</b>	10 simultaneous users
<b>Security</b>	Multiple user access levels with password protection, HTTPS encryption
<b>Supported protocols</b>	IPv4, IPv6, Bonjour, TCP/ IP, DHCP, DNS, DynDNS, PPPoE, ARP, ICMP, FTP, SMTP, NTP, UPnP, RTSP, RTP, RTCP, HTTP, HTTPS, SSL, TCP, UDP
<b>ONVIF</b>	2.4 & Profile S

### General

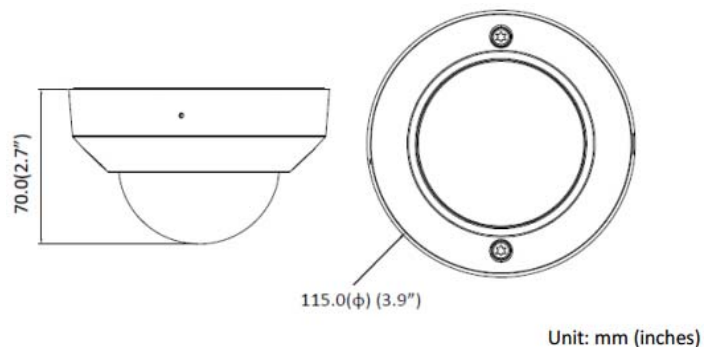
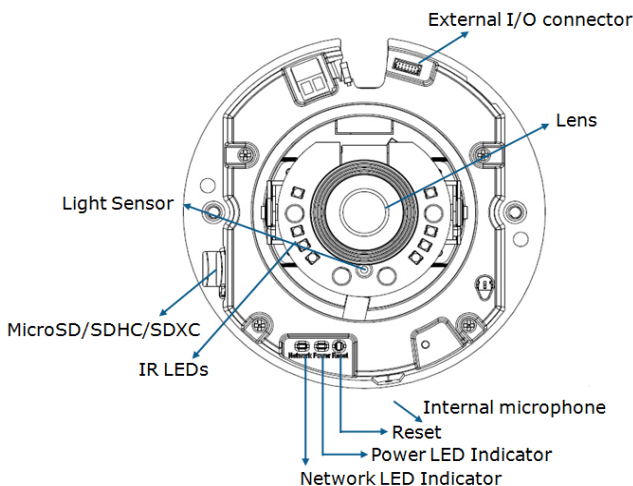
<b>Housing</b>	Aluminum Alloy
<b>Ingress Protection</b>	IP66 rated weatherproof housing
<b>Impact Protection</b>	IK08 rated vandalproof housing
<b>Other(s)</b>	Built-in microphone -
<b>Operating conditions</b>	Starting temperature: -10 ~ 60°C Humidity 10-100% RH Working temperature: -30 ~ 60°C Humidity 10-100% RH
<b>Dimensions</b>	φ119.16 x 79.6mm
<b>Weight</b>	400g excl. power supply
<b>Included accessories</b>	Quick installation guide, mounting and connector kit.
<b>Optional accessories</b>	-
<b>Certification</b>	CE, FCC, RoHS
<b>Language</b>	Chinese, Croatian, Czech, Danish, Dutch, English, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovak, Spanish, Swedish, Turkish

### System Requirements

<b>Operating system</b>	Windows XP / 7 / 8 / 8.1, MAC OS, Linux
<b>Browser</b>	Internet Explorer 9 / 10 / 11, Chrome, Firefox, Safari

### Software

<b>Video management software</b>	ZAVIO CamGraba 2.0 IP System software, for viewing, recording and archiving up to 64 cameras.
<b>Installation, management and maintenance</b>	ZAVIO Installation Tool makes camera management easier with camera image preview, firmware upgrade of multiple cameras, reset cameras to default while keeping network settings, etc.



ZAVIO Inc. | 2F., No.24-2, Gongye E. 4th Rd., East Dist., Hsinchu City 300, Taiwan  
www.zavio.com | TEL: 886-3-579-0275 | FAX: 886-3-668-6845 | E-Mail: sales@zavio.com