D4220 | Mini Dome
2MP Outdoor IR Compact Camera

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 & IK10
- ⋅ ONVIF 2.4 & Profile S

ZAVIO D4220 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 D4220 is designed for quick and easy installation. With 3 axis angle adjustment and support of Corridor mode, D4220 is ideal for numerous indoor application such as home, office, hallways and aisles. Addition to its IP66 weatherpoof and IK08 vandal-proof housing, the ZAVIO D4220 can also be easily installed for outdoor applications.

Compatible with ZAVIO CamGraba 2.0, the most professional free NVR software that can support up to 64 IP cameras.

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

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.

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

Camera Type	2MP Outdoor IR Mini Dome
Image sensor	1/2.8" CMOS sensor
Lens	Fixed 2.8mm, F2.0
Horizontal view angle	103°
IR working distance	30m effective range with Smart IR
Min	0.005 lux @ F2.0 (color)
	0.0005 lux @ F2.0 (B/W)
WDR	120dB
Day/Night function	Mechanical IR cut filter, Light sensor

Video & Audio

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

I/O & Connector

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

Alarm & Event

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

Network

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

General

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

System Requirements

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

Software

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

Unit: mm

79.60

Ø119.16