IPC-CD2C40M-ZS

4MP IR Dome Network Camera

· 1/3" 4Megapixel progressive CMOS
· H.265+ & H.265 dual-stream encoding
· 20fps@4MP(2560×1440) &25/30fps@3M(2304×1296)
· DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
· Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
· 2.8~12mm varifocal lens
· Max IR LEDs Length 30m
· Micro SD card memory, IP67, IK10, PoE

4Mp	H. 265+	30mIR	IP67	Vandal-proof

System Overview

The IR Megapixel Vari-focal camera delivers 2MP/4MP resolution with a 2.8mm ~ 12mm varifocal lens.The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

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

Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

Protection (IP67, wide voltage)

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) .

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer

Onvif

Technical Specification

Camera

Image Sensor	1/3" 4Megapixel progresive CMOS
Effective Pixels	2560(H)x1440(V)
RAM/ROM	256MB/16MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.05Lux/F1.8(Color,1/3s,30IRE) 0.3Lux/F1.8(Color,1/30s,30IRE) 0Lux/F1.8(IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 30m(98ft)
IR On/Off Control	Auto/ Manual
IR LEDs	2

Lens

Lens Type	Motorized
Mount Type	Board-in
Focal Length	2.8mm~12mm
Max. Aperture	F1.8
Angle of View	H:94°~33°, V:51°~19°
Optical Zoom	4x
Focus Control	Fixed
Close Focus Distance	0.2m(0.66ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	66m(216.5ft)	26.4m(86.6ft)	13.2m(43.3ft)	6.6m(21.7ft)
	T	200m(656.2ft)	80m(262.5ft)	40m(131.2ft)	20m(65.6ft)

PTZ

Pan/Tilt Range	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°

Intelligence

Event Trigger	Motion detection, Video tampering , Network disconnection , Scene change, IP address conflict, Illegal Access,Storage anomaly

Video

Compression	H.265/H.264/H.264B/MJPEG(Sub Stream)
Smart Codec	Support H.265+/H.264+
Streaming Capability	2 Streams
Resolution	4M(2560x1440)/3M(2304×1296)/1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/VGA(640×480)/D1(704×576/704×480)/CIF(352×288/352×240)
Frame Rate	Main Stream: 4M(1 ~ 20fps)
	Sub Stream: D1(1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 16K~6144K H.265: 6K~ 6144K
Day/Night	Auto(ICR) / Color / B/W

BLC Mode	BLC / HLC / DWDR
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	N/A

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP;FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP;NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TLS;SSH
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast / Multicast
Max. User Access	10 Users/20 Users
Edge Storage	NAS(Network Attached Storage) Local PC for instant recording Micro SD Card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS,DMSS
Smart Phone	IOS, Android

Certifications

Certifications	CE: (EN 60950:2000) FCC: FCC Part 15 Subpart B

Interface

Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	DC12V: 1.8W, 5.6W(IR On) PoE: 2.2W, 6.5W(IR On)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	φ122mm×88.9mm(4.80''x3.50'')
Net Weight	0.45Kg (0.99lb)
Gross Weight	0.58Kg(1.28lb)

Ordering Information

Type	Part Number	Description
	IPC-CD2C40MP-ZS	4MP WDR IR Dome Network Camera, PAL
	IPC-CD2C40MN-ZS	4MP WDR IR Dome Network Camera, NTSC
Accessories (optional)	PFA137	Junction box
	PFB203W	Wall mount
	PFA152-E	Pole mount
	PFB200C	In-celling Mount
	PFA200W	Rain shade

Accessories

Optional:

PFA137 Function Box
PFB203W Wall mount
PFA152-E Pole mount
PFB200C In-celling Box
PFA200W Rain shade

Junction Mount	Inceiling Mount
PFA137	PFB200C
Wall Mount	Pole Mount
PFB203W	PFB203W + PFA152-E
Wall Mount with Rain Shade	Pole Mount with Rain Shade
PFA137+PFA200W	PFA137+PFA152-E+PFA200W

Dimensions (mm/inch)

122.0 [4.8"] 88.9 [3.5"] ⌀122.0 [⌀4.8"] 3-⌀4.5 [⌀0.18"] ⌀110.0 [⌀4.33"]