

# 2MP IR Mini Dome Network Camera

Model: PCA1-IPC-2DF-01







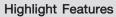












- · 1/2.8" 2 Megapixel progressive scan STARVIS™ CMOS
- · H.265 & H.264 triple-stream encoding
- · 50/60fps@1080P (1920×1080)
- · Smart Detection supported
- · WDR (120dB), Day/Night (ICR), 3DNR, AWB, AC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6mm, 6mm optional)
- · 1/1 Alarm In/Out, 1/1 Audio In/Out
- · Max. IR LEDs Length 30m
- · Micro SD memory, IP67, IK10, PoE

## System Overview

With upgraded H.265 encoding technology, the series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

### **Functions**

## Starlight Technology

For challenging low-light applications, PlanetComm's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.002lux. Clearing images in dark environments.

### Wide Dynamic Range(WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. True WDR (120 dB) optimizes both the bright and dark.

## Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

#### Environmental

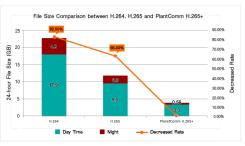
PlanetComm cameras operate in extreme temperature environments, rated for use in temperatures from -40° C to +60° C ( -40° F to +140° F ) with 95% humidity. An optional heater module extends the multi-sensor camera's temperature range to -40° C to +60° C (-40° F to +140° F), allowing the camera to operate in the harshest environments.

## Protection(IP67, IK10, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

### Smart H.265+

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



Comparison Chart



# **Technical Specification**

Carriera	
Image Sensor	1/2.8" 2Megapixel progressive scan CMOS
Effective Pixels	1920(H)x1080(V)
RAM/ROM	256MB/32MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s
Minimum Illumination	0.007Lux/F1.6( Color,1/3s,30IRE) 0.06Lux/F1.6( Color,1/30s,30IRE) 0Lux/F1.6(IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 30m (98ft)
IR On/Off Control	Auto/ Manual
IR LEDs	18
Lens	
Lens Type	Fixed

Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm (3.6mm,	6mm optional)		
Max. Aperture		F1.6 (F1.6, F1.6	)		
Angle of View		H: 110° (87°, 52	?°), V:58° (46°, 30°	°)	
Optical Zoom		N/A			
Focus Control		Fixed			
Close Focus Distance		0.7m(1.2m, 2.4m)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	43m(141ft)	17m(56ft)	9m(30ft)	4m(13ft)
DOM Distance	3.6 mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)
	6.0 mm	83m(289ft)	33m(108ft)	17m(56ft)	8m(26ft)

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Video					
Compression		H.265+/H.265/H	.264+/H.264		
Streaming Capability		3 Streams			
Resolution			80)/1.3M(1280x960 ×480)/ VGA(640×		
		Main Stream: 10	80P(1~50/60fps)		
Frame Rate		Sub Stream: D1	(1~50/60fps)		
		Third Stream: 10	080P(1~25/30fps)		
Bit Rate Control		CBR/VBR			
Bit Rate		H.264: 24K ~ 10 H.265: 14K ~ 99			
Day/Night		Auto(ICR) / Cold	or / B/W		
White Balance		Auto/Natural/Str	eet Lamp/Outdoo	r/Manual	
Gain Control		Auto/Manual			
Noise Reduction		3D DNR			
Motion Detetion		Off / On (4 Zone	e, Rectangle)		
Region of Interest		Off / On (4 Zone	e)		
Electronic Image Stabil	ization (EIS)	N/A			
Smart IR		Support			
Defog		N/A			
Digital Zoom		16x			
Flip		0°/90°/180°/270	۰		
Mirror		Off / On			
Privacy Masking		Off / On (4 Area	, Rectangle)		

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### Audio

Compression	G.711a/ G.711Mu/ AAC/ G.726
Interface	
Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

### Pan/Tilt/Rotation

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Pan/Tilt/Rotation Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°

### Intelligence

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IVS	Tripwire, Intrusion, Object Abandoned/Missing
Advanced Intelligent Functions	Face Detection

#### Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users /20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, Easy4ip
Smart Phone	IOS, Android

### Certifications

	CE (EN 60950:2000)
Certifications	UL: UL60950-1
	FCC: FCC Part 15 Subpart B

## Electrical

Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	<5W

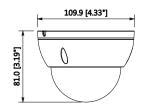
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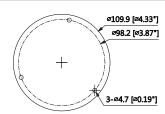
Operating Conditions	-30° C $\sim$ +60° C (-22° F $\sim$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C $\sim$ +60° C (-22° F $\sim$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

## Construction

Casing	Metal
Dimensions	Ф109.9mm×81mm (4.33"×3.19")
Net Weight	0.41kg (0.91lb)
Gross Weight	0.53kg (1.17lb)

# Dimension





Planet Communications Asia PLC.





