2MP WDR IR Dome Network Camera

Model: PCA1-IPC-2DV-01

PlanetComm

![1080p FULL HD] ![1080P 50/60fps] ![H.265] ![Starlight] ![WDR] ![Temperature] ![IP67] ![Vandal-proof]

Highlight Features

· 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 0.006lux. 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.
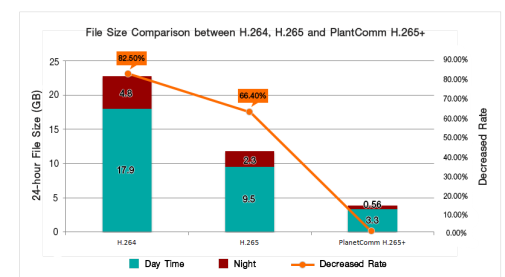
Intelligent Video System (IVS)

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 s pecific 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.

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 multi-frame 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.

File Size Comparison between H.264, H.265 and PlantComm H.265+

| | Day Time | Night | Decreased Rate |

Comparison Chart

Technical Specification

Camera

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, 1/3~1/100000s
Minimum Illumination	0.006Lux/F1.4 (Color,1/3s,30IRE), 0.05Lux/F1.4 (Color,1/30s,30IRE), 0Lux/F1.4 (IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 50m (164ft)
IR On/Off Control	Auto/ Manual
IR LEDs	3

Lens

Lens Type	Motorized/ Auto Iris(DC)
Mount Type	Board-in
Focal Length	2.7mm~13.5mm
Max. Aperture	F1.4
Angle of View	H: 101°~31°, V:54°~17°
Optical Zoom	5x
Focus Control	Motorized
Close Focus Distance	0.3m

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	44m(144ft)	18m(59ft)	9m(29ft)	4m(13ft)
	T	143m(469ft)	57m(187ft)	28m(92ft)	14m(46ft)

Pan/Tilt/Rotation

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

Intelligence

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

Audio

Compression	G.711a/ G.711Mu/ AAC/ G.726

Interface

Video Interface	1 Port(For adjustment only)
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC, 1 channel Out: 300mA 12VDC

Video

Compression	H.265+/H.265/H.264+/H.264
Streaming Capability	3 Streams
Resolution	1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)
Frame Rate	Main Stream: 1080P(1~50/60fps)
	Sub Stream: D1(1~50/60fps)
	Third Stream: 1080P(1~25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 24~9472Kbps H.265: 14~5632Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
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
Defog	N/A
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Certifications

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

Electrical

Power Supply	DC12V, AC24V, PoE+(802.3at)(Class 4)
Power Consumption	<15W

Environmental

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

Construction

Casing	Metal
Dimensions	Φ159.1mm×117.9mm (6.26"×4.64")
Net Weight	0.95kg (2.09lb)
Gross Weight	1.20kg (2.65lb)

Dimension

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ISO 9001 BUREAU VERITAS Certification

PlanetComm :