



System Overview

With upgraded H.265 encoding technology, Eco-savvy 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

ePoE technology

The ePoE technology of , designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Starlight Technology

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.006lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Model: N5231E-ZE

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE















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.

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.



Technical S	pecification					
Camera						
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS				
fective Pixels		1/2.6 Ziviegapixei progressive scan CiviOS 1920(H) x 1080(V)				
		256MB/32MB				
RAM/ROM		Progressive				
Scanning Syste		Auto/Manual, 1/3(4)~1/100000s				
Electronic Shut	ter Speed	0.006Lux/F1.4 (Color, 1/3s, 30IRE)				
Minimum Illum	ination	0.05Lux/F1.4 (Color,1/30s,30IRE) 0.05Lux/F1.4 (IR on)				
S/N Ratio		More than 50dB				
IR Distance		Distance up to 50m (164ft)				
IR On/Off Cont	rol	Auto/ Manual				
IR LEDs		4				
Lens						
		Managina d / Assaulti (DC)				
Lens Type		Motorized/ Auto Iris(DC)				
Mount Type		Board-in				
Max Aperture		2.7mm~13.5mm				
Max. Aperture		F1.4				
Angle of View		H: 101°~31°, V:54°~17°				
Optical Zoom Focus Control		5x Motorized				
Close Focus Dis	stance	0.3m				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	44m(144ft)	18m(59ft)	9m(29ft)	4m(13ft)	
	Т	143m(469ft)	57m(187ft)	28m(92ft)	14m(46ft)	
Pan/Tilt/Ro	tation					
Pan/Tilt/Rotat	ion Range	Pan:0°~360°;	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°			
Intelligence	2					
IVS		Tripwire, Intrusion, Object Abandoned/Missing				
Advanced Intel	ligent Functions	Face Detection				
Video						
Compression		H.265+/H.265/H.264+/H.264				
Streaming Capa	ability	3 Streams				
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)				
		Main Stream: 1080P(1~50/60fps)				
Frame Rate		Sub Stream: D1(1~50/60fps)				
		Third Stream: 1080P(1~25/30fps)				
Bit Rate Control						
)I	CBR/VBR				
Bit Rate		H.264: 24~9472Kbps				

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	273.2mm×95.0mm×95.0mm (10.76"×3.74"×3.74")
Net Weight	1.11Kg (2.44lb)
Gross Weight	1.51Kg (3.33lb)

Accessories

Optional:







PFA121 Junction box

PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152

