

OPT-PRO-IP- Series

IP Dome Network Camera

SYSTEM OVERVIEW

The OPTOKON PRO series is a line of surveillance cameras that utilize advanced H.265 encoding technology to improve video compression, resulting in reduced bandwidth usage and storage requirements. This technology allows for more efficient video transmission, without compromising on the quality of the video captured.

In addition to the improved encoding technology, the series also includes features such as starlight technology, which enhances low-light performance, as well as smart IR technology, which automatically adjusts the intensity of the infrared illuminator based on the distance of the subject. These features ensure that the cameras are capable of capturing high-quality video even in challenging lighting conditions.

Furthermore, the cameras in the OPTOKON Pro series are designed to be fully protected from dust and water, with an IP67 rating, and are vandal-resistant to IK10 standard. This makes them suitable for use in a wide range of environments, including outdoor settings where they may be exposed to harsh weather conditions or potential tampering.

OPTOKON supports PoE and PoC power supply technology which has greatly simplified construction and wiring. OPTOKON 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.

Environmental

OPTOKON cameras are designed to operate in extreme temperature environments, making them suitable for use in a wide range of applications, including outdoor surveillance and industrial monitoring. These cameras are rated for use in temperatures ranging from -30° C to +60° C (-22° F to +140° F), which is a wide temperature range that covers most extreme weather conditions. In addition to the wide temperature range, OPTOKON cameras also have a high level of humidity resistance, with a 95% humidity rating. This means that the cameras can operate in environments with high levels of moisture, such as near bodies of water or in areas with high humidity levels. The ability of OPTOKON cameras to operate in extreme temperature and humidity environments makes them highly durable and reliable, even in harsh conditions. This means that they can be used in a wide range of settings, including industrial plants, oil and gas facilities, and other outdoor environments where reliable surveillance and monitoring is critical.

OPTOKON cameras' support for PoE and PoC technologies provides a cost-effective and flexible solution for surveillance system installations, with simplified construction and wiring, improved reliability, and reduced long-term operating costs.



- 2,5 & 8/4K Megapixel progressive scan
- H. 265&H.264 encoding
- 15fps@4K(3840×2160),30fps@3M (2592×1944)
- ·Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- IP67, IK10, PoE
- IR Cut Filter
- Motion Detection
- Multiple network monitoring

Technical Specification

Model No.		OPT-PRO-IPN3298	OPT-PRO-IPG3295	OPT-PRO-IPG3294
Camera Type		Motorized 4X Zoom Autofocus Dome IP Camera		
System		Embedded RTOS design		
Camera	Effective Pixels	8.0 Mega Pixels	5.0 Megapixels	4.0 Megapixels
		Main 3840*2160	Main 2880*1616	Main 2560*1440
		Sub 704*576	Sub 704*576	Sub 704*576
	Frames Rates	PAL:15fps (3840*2160)	PAL:25fps (2880*1616)	PAL:20fps (2560*1440)
		NTSC: 15fps (3840*2160)	NTSC: 25fps (2880*1616)	NTSC:20fps (2560*1440)
	Image Sensor	1/2.7" CMOS Sensor	1/2.7" CMOS Sensor	1/2.7" CMOS Sensor
		8 MP (3840H*2160V)	5 MP (2880H*1616V)	4 MP (2560H*1440V)
	DSP	Dual core 32-bit DSP	Dual core 32-bit DSP	Dual core 32-bit DSP
		NT98566	GK7205V300	GK7205V200
	Min. Illumination	Color 0.001Lux@F1.2	Color 0.01Lux@F1.2	Color 0.01Lux@F1.2
B/W 0.0001 Lux@F1.2		B/W 0.001 Lux@F1.2	B/W 0.01 Lux@F1.2	
Adjust Parameters	DWDR, BLC, DNR, AE, AGC, D&N, Mirror, Flip, etc.			
Video	Compression	H.265 Main profile	H.265 Main profile	H.265 Main profile
	Stream	Support dual stream, AVI format	Support dual stream, AVI format	Support dual stream, AVI format
	Bit Rate	Support 0.1M-8Mbps bit rate adjustable	Support 0.1M-8Mbps bit rate adjustable	Support 0.1M-8Mbps bit rate adjustable
	Frame Rates	Support 1-30fps adjust	Support 1-30fps adjust	Support 1-30fps adjust
Audio	Input & output	Optional		
	Compression	G.711 compression, support two-way audio intercom, support audio and video synchronized output		
Alarm	Types	Motion Detection, Video Blind, Video Loss		
Network	WEB Browser	Support WEB remote config (IE, Safari, Google Chrome, Firefox etc.)		
	Smart Phone	mobile remote Monitoring (iPhone, Android, etc.)		
	CMS Software	Uniform CMS Software (multiple devices management system)		
	Cloud P2P	www.optoeye.net OPTOEYE platform and other program, Offer SDK		
	Network	1*RJ45, 10/100M, Support RTSP/FTP/PPPOE/DHCP/DDNS/NTP/UPnP/SMTP		
	ONVIF	Support (ONVIF 2.4)		
	POE	Support(optional)		
	WIFI	N/A		

General	Language	20 kinds of languages such as English, Finnish, French, German, Greek, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Thai, S-Chinese, T-Chinese and Turkish
	IR Cut Filter	Set of double light switch IR-CUT filter
	Lens Mount	4x Optical Motorized Zoom Autofocus Lens 2.8-12mm
	Infrared Luminary	24pcs SMD IR LED
	Infrared Wavelength	850nm
	Illuminate Distance	30m
	Waterproof Criterion	IP 67
	I/O Connector	1*DC Connector, 1*RJ45(10/100M Network)
	Supplied Voltage	DC12V/PoE(802.3af/820.3at)
	Power Consumption	IR On: 600mA max., IR Off: Less than 200mA
	Working Environment	-10 degree to +60 degree, 10%-90% (Built in Heater being optional added for environment lower than -20 degree)
	Weight	1.0kg

Environmental

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

Accessories (Optional)



Junction Box



Power injector POE 48V



CCTV IP Tester