tyco | **Illustra**

Pro Gen4
2MP, 4MP, 8MP Mini-Dome

Key Benefits

- Built in AI delivers accurate object classification, powerful situational awareness and security automation.

- Integrated recess mount, backbox, a range of IO options including Micro HDMI plus WiFi configuration via the Illustra Tools App

- Exposure profile settings allow the mini-dome to adapt to scenarios such as license plate recognition, gaming, and more

- Ultra low light capabilities to maintain color image quality without IR

Edge Intelligence Including AI

Illustra Pro Gen 4 cameras are ready for the rise of intelligence at the edge. With built-in AI based object classification, events can be narrowed to classes such as person, car, bus, motorcycle and more. Forensic searches becomes more accurate and situational awareness more automated with fewer missed incidences and false alarms. Choose from a variety of analytic rules to customize the solution that will be most beneficial to your business and begin gathering transformative data instantly.

Smart Design, Configuration and Operation

With an integrated recess mount, WIFI configuration and application profiles that automatically adjust the camera's settings based on the environment, Illustra Pro Gen 4 cameras are designed with simplicity and ease of use in mind. Smart Wide Dynamic Range further adds to this simplicity. By reading the scene, the Mini-Dome can adjust contrasting and overall scene balance without operator intervention or maintenance. Greatly improving the quality of the video stream in varying lighting environments.

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Safeguard Against Cyber Attacks Across Devices

Illustra Pro IP cameras have been designed to be resilient against cyber-threats. This solution includes "secure boot" which ensures the camera will not start if software has been tampered with in any way. Additional safeguard controls include an enhanced security mode which forces the use of complex, non-default passwords and encrypted communications. Our products are gated, analyzed, tested and required to meet or exceed the rigorous standards of the Johnson Controls Cyber Solutions Product Security Program for every consecutive release. This holistic approach is aimed at providing peace of mind to our customers. Our security mindset begins at initial design concept and is supported through deployment, including a rapid incident response to meet the comprehensive and evolving cybersecurity environments.

Specifications

Operational	2MP		4MP		8MP	
Video Compression	H.264 / H.265 / MJPEG / IntelliZip					
Max Frame Rate	2MP @ 60fps		4MP @ 60fps		8MP @ 30fps	
Resolution & Aspect Ratio	1920x1080 (1080p) 16:9 1664x936 (HD+) 16:9 1280x720 (720p) 16:9 1024x576 (PAL+) 16:9 960x544 (qHD) 16:9 816x464 16:9 640x360 (nHD) 16:9 480x272 16:9		2560x1920 2560x1444 1920x1080 (1080p) 16:9 1664x936 (HD+) 16:9 1280x960 4:3 1280x720 (720p) 16:9 800x600 (SVGA) 4:3 640x480 (VGA) 4:3 480x360 4:3 384x288 4:3		3840x2160 (4K) 16:9 3264x1840 16:9 2688x1520 16:9 2560 x 1440 16:9 1920x1080 (1080p) 16:9 1664x936 (HD+) 16:9 1280x720 (720p) 16:9 1024x576 (PAL+) 16:9 960x544 (qHD) 16:9 816x464 16:9 640x360 (nHD) 16:9 480x272 16:9	
Imager	Sony IMX327		Sony IMX335		Sony IMX334	
Image Orientation Settings	None, Mirror, Flip, Flip and Mirror, Corridor (rotate 90° right or left)					
Video Streams	Quad Streaming					
Lens Type	Motorized Varifocal and Focus, P-Iris					
Focus Control	One-Touch Auto Focus or Remote Adjustment					
Focal Length	**2.7-13.5mm**	**7-22mm**	**2.7-13.5mm**	**6-22mm**	**3.6-10mm**	**6-22mm**
Field of View Wide (H/V)	112°/58°	40°/21°	103°/74°	40°/30°	95°/53°	50°/28°
Field of View Telephoto (H/V)	35°/20°	18°/10°	33°/25°	18°/13°	49°/28°	24°/14°
Aperture	f/1.4 (W) f/2.8 (T)	f/1.7 (W) f/2.8 (T)	f/1.4 (W) f/2.8 (T)	f/1.6 (W) f/2.4 (T)	f/1.5 (W) f/2.8 (T)	f/1.6 (W f/2.4 (T)
Minimum Illumination						
Color, 1/4s, 30 IRE, AGC	0.01 Lux	0.02 Lux	0.03 Lux	0.02 Lux	0.03 Lux	0.02 Lux
B/W, 1/4s, 30 IRE, AGC	0.0001 Lux	0.0002 Lux	0.0002 Lux	0.0002 Lux	0.0004 Lux	0.0005 Lux
W/IR	0.0 Lux	0.0 Lux	0.0 Lux	0.0 Lux	0.0 Lux	0.0 Lux
IR Distance	50m					
Dynamic Range	True WDR 120 dB Technologies		True WDR 110 dB Technologies		True WDR 120 dB Technologies	
Day/Night	True Day/Night CF Removal					
Shutter Speed	≥ 1/10,000 to 1/4 s					
ONVIF-Compliant	Profiles S					
Video Intelligence Analytics	Linger, Exit, Direction, Abandoned/Removed objects, Queue, Dwell, Enter, Object detection, Crowd, Perimeter					
Object Classification	Classes: Person, Bicycle, Bus, Car, Motorbike Rules: Object Detected, Perimeter, Linger, Dwell					

Motion Detection Zones	3
Face Detection	Yes
Blur Detection	Yes
Privacy Zones	8
Alarm Input/Output	2 input, 2 output
Video Output	HDMI
Audio	Bi-directional; 1 input, 1 output. Built in Microphone
Simultaneous Users	10
Supported Languages	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, English (default), French, German, Hungarian, Italian, Japanese, Korean, Netherlands, Polish, Portuguese, Russian, Spanish, Swedish, Turkish

Network

Ethernet Interface	10/100/1000 BaseT, RJ-45, Auto-Negotiation
Supported Protocols	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, TLS, RTSP, ICMP, Unicast, Multicast, NTP, SMTP, WS-Security, SNMP, CIDS, FSTP, UPnP™, SIP

Configuration Management

Web Browsers	IE 9 and above, Firefox, Safari, Chrome
Security	Secure Boot, Enhanced Security Mode (forces complex passwords, HTTPS and disables discovery); TLS 1.2 (256 bit cipher minimum); Security Overview Page (status and configuration); RTSP Authentication; IEEE 802.1X Client; Remote Accessible Audit logs; Role-Based Access Control, Video Encryption for local storage and streaming.

Onboard Storage

Card Support	micro SDXC up to 1TB
Pre-Alarm Recording	Yes
Recording Format	MP4 File Format
Recording Trigger	Dry Contact Alarms, Motion Detection, Face Detection, Video Intelligence, AI Object Classification, Periodic Events
TrickleStor	Yes, encrypted storage

Electrical

Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3; 24 VAC Max Draw: PoE 12.95W, 24 VAC 16.5W

Physical

Dimensions (RxH)	Ø138 x 135mm
Weight	1.5KG, 3.31 lbs
Housing Color	Signal White - RAL 9003
Operating Temperature	-50° to +65°C
Humidity	Up to 90% Non-Condensing
Vandal Resistant	IK10
Outdoor Rating	IP66/IP67

Regulatory

Safety	EN60950-1; UL60950-1; IEC 60950-1; CSA 22.2 No. 60950
Emissions	FCC Part 15 Class A; EN55032 Class A; AS/NZS CISPR 32 Class A; ICES-003/NMB-003 Class A
Immunity	EN55024; EN50130-3
Enviorment	RoHS; WEEE

Accessories

Accessory Type	Image	Model Number	Description	Dimensions	Color
Wall Mount		IPSMDWALL3	Wall Mount Kit: Indoor/Outdoor, White	6.3 x 3.3 x 9.1 in (160.5 x 83 x 230.5 mm)	RAL 9003
Pendant Cap		ADCi6DPCAPIW	Pendant Cap: Outdoor, White	Ø5.16 x 2.17 in (Ø141 x 55 mm)	RAL 9003
Gooseneck Arm		ADLOMARM	For use with Pendant Cap	4.4 x 8.78 x 4.4 in (112.5 x 222.9 x 112.5 mm)	RAL 9003
Pole Mount Adapter		ADCDMPOLE	For use with Pendant Cap and Gooseneck Arm, or directly to the camera back plate	Wraps around pole	RAL 9003
Outside Corner Mount Adapter		ADCDMCRNRO	For use with Pendant Cap and Gooseneck Arm, or directly to the camera back plate.	5.18 x 7.58 in (131.5 x 192.5 mm)	RAL 9003
Flush Mount		IPSMDFLUSHOW3	Recessed mount for walls or ceilings, indoor/outdoor use, white trim ring.	Ø10.236 x 2.459 in (Ø260 x 62.46 mm)	RAL 9003
Bubble Assembly		IA-BBL-CV-P4D	Vandal Clear Bubble Assembly		RAL 9003
Bubble Assembly		IA-BBL-SV-P4D	Vandal Smoked Bubble Assembly		RAL 9003

Ordering Information

Model Numbers	Description
IPS02-D12-OI04	Illustra Pro Gen4 2MP MiniDome, 2.7-13.5mm, Indoor/Outdoor, IP67, IK10, TDN w/IR, TWDR
IPS02-D17-OI04	Illustra Pro Gen4 2MP MiniDome, 7-22mm, Indoor/Outdoor, IP67, IK10, TDN w/IR, TWDR
IPS04-D12-OI04	Illustra Pro Gen4 4MP MiniDome, 2.7-13.5mm, Indoor/Outdoor, IP67, IK10, TDN w/IR, TWDR
IPS04-D14-OI04	Illustra Pro Gen4 4MP MiniDome, 6-22mm, Indoor/Outdoor, IP67, IK10, TDN w/IR, TWDR
IPS08-D13-OI04	Illustra Pro Gen4 8MP MiniDome, 3.6-10mm, Indoor/Outdoor, IP67, IK10, TDN w/IR, TWDR
IPS08-D14-OI04	Illustra Pro Gen4 8MP MiniDome, 6-22mm, Indoor/Outdoor, IP67, IK10, TDN w/IR, TWDR

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit www.illustracameras.com or follow Illustra on LinkedIn, Twitter, and Facebook.