

Pro Gen4 License Plate Recognition

Edge AI LPR (ANPR) for automatic parking access intelligence



All-in-One Edge Al LPR

Illustra Edge Al LPR Camera powered by Pro4 Edge Al carrier available in Bullet and Dome variance offering powerful, all-in-one and license-free Edge LPR applications



Business Intelligence

Experience seamless integration with Exacq and VideoEdge video systems alongside C•CURE access and visitor management solutions, achieve unparalleled efficiency and automation in your operations while gaining valuable business insights



Parking Access

Effectively manage gated areas, control parking access, and ensure the security of your parking facilities across diverse market sectors



Rich Integrations

Doubled sets of I/O ports available for types of parking systems integrations, access controls and toll management



Smart & Simple

Bullet comes with smart-arm and Dome offers optional sunshield ideal for outdoor installations with LPR Best Practice Guide provided



Powerful Edge Al

Built-in with industry's most comprehensive Video Al suite adding extra values for 24/7 surveillance operations in addition to license plate capturing



Edge LPR for Parking Access and Security of Parking Management

Ilustra Edge AI LPR Cameras offer powerful license plate recognition (LPR) capabilities with the familiar Pro4 AI bullet and dome cameras. The ultra-clear 5-megapixel imager delivers double the resolution for superior image quality and precise plate number capture. With built-in and customizable plate lists, these cameras can recognize, allow, or deny vehicle access to gated premises or parking areas, ensuring secure and safe access management.

Optimize business intelligence with grouped plate numbers to provide varying levels of customer service upon detection. The industry-leading Illustra Pro Al suite is embedded, adding valuable Al object intelligence to protect end-customer sites.

When integrated with ExacqVision, American Dynamics victor/VideoEdge video management systems, and Software House C•CURE 9000 access control, Illustra Pro4 LPR creates a seamless and intelligent end-to-end solution.

License Plate Capture Specifications¹

Illustra Vehicle Al suite	5MP LPR Bullet	5MP LPR Dome	
Application type	Edge LPR		
License	Does not require back-end server to	Perpetual LPR license included and pre-activated Does not require back-end server to operate LPR capturing Does not require a pre-built SD Card to load the plate database	
Vehicle type	Car, bus, truck	Car, bus, truck	
Direction range	5 ~ 15 m (15 ~ 50 ft)	5 ~ 15 m (15 ~ 50 ft)	
Vehicle speed	Free-flow traffic and automated veh	Free-flow traffic and automated vehicle access up to 56 km/h (35 mph)	
Coverage	Single lane recommended	Single lane recommended	
Smart LPR image processing	Smart auto exposure profiles: LPR (I	Smart auto exposure profiles: LPR (high, medium, low)	
Smart Video Al	Full version of Illustra Pro Al include	Full version of Illustra Pro Al included ²	
Configurations		On-site standalone operations and edge configurations supported 2,000 entries over 4 plate groups with individual event handling supported	
Multi-site interoperability	1 channel of ExacqVision or VideoEc Complement of VideoEdge VE LPR	1 channel of ExacqVision or VideoEdge VMS license included Complement of VideoEdge VE LPR	
Region/country support	Standard modern license plates ava	Standard modern license plates available in Canada, Europe and United States supported ³	

¹ Use cases and user conditions applied. Camera mounting and lighting and weathering conditions associated with have great impacts to plate number capturing and recognition effectiveness. For more information, please refer to Pro4 LPR Best Practice Guide, quick start guide and user's manual.

Camera Specifications

Camera	5MP LPR Bullet	5MP LPR Dome	
Image sensor	Sony 1/2.8" progressive scan ultra-lowlight CMOS sensor	Sony 1/2.8" progressive scan CMOS sensor	
Lens – Standard lens models	Motorized 2.7-13.5 mm, F1.4-2.8, P iris FOV (H): 103.8° ~ 33.8° FOV (V): 55° ~ 19°	Motorized 2.7-13.5 mm, F1.4-2.8, P iris FOV (H): 103° ~ 33° FOV (V): 74° ~ 25°	
Focus assistant	Physical AF button on camera, remote one-push AF		
Day and night	True D/N by mechanically removable IR-cut filter, thresholds adjustable		
Minimum illumination			
– Color	0.11 lux	0.12 lux	
– B/W	0.03 lux	0.05 lux	
– IR on	0 lux	0 lux	
Shutter speed	1/32,000 sec ~ 1/8 sec		
IR illumination	850 nm IR, power-efficient and durable Adaptive IR Smart IR		
– IR distance	Effective up to PoE 50 m (164 ft), PoE+ 70 m (230 ft)	Effective up to 50 m (164 ft)	



² For optimal LPR results, it is recommended to use Video Al applications on a separated camera.

³ Standard plates containing A-Z and 0-9 supported. For a list of supported countries and sub-regions, please refer to Pro4 LPR Best Practice Guide.

Video					
Video compression	H.264 HP/MP, F	H.264 HP/MP, H.265 HP, Motion JPEG			
Resolution and frame rate		Up to 2560x1440 (16:9) or 2560x1920 (4:3) at 30/25 fps, 1080p up to 60/50 fps			
Video streaming	IntelliZip smart	IntelliZip smart compression in H.264 and H.265			
	Quad streaming				
		CBR/VBR/CVBR configurable bitrate control			
Wide dynamic range	Ŭ i	Higher compression ROI True WDR 120dB technologies			
Wide dynamic range		VDR 2x, TWDR 3x			
	Smart Defog	10K 2X, 1110K 3X			
Smart image processing	Al Auto exposure: Object, person, face				
		Smart auto exposure profiles: Gaming, LPR, various others			
Image settings	S	Configurable color contour, auto exposure, AE compensation, auto white balance, auto gain			
		control, auto electronic shutter, flickerless, image orientation, text overlay Digital noise reduction 2D/3D			
	Privacy mask	duction 2D/3D			
	Corridor mode				
Image stabilization	Electronic imag	Electronic image stabilization (EIS)			
Video output	1x Micro HDMI	for outdoor preview or indo	oor PVM where waterproofing is addressed via optional		
	HDMI Cable IA-	HDM-OD-P4D			
Audio					
Audio compression	G.711 μ-law	· ·			
Audio streaming	Bi-directional, t	<u> </u>			
Audio input/output	1x Line-in, 1x li	ne-out, terminal block	Built-in Microphone 1x Line-in, 1x line-out, terminal block		
Video Content Analysis			1x Line III, 1x line out, terminal block		
Al Object classifications	Classes	Person	Person		
7 ii o sjeet elassineations	0.00000	Vehicle	Bicycle, bus, car, motorbike, train, truck		
		Retail	Cart		
		Suspicious objects	Backpack, handbag, suitcase		
	Sub-classes	Person clothing colors (upper, lower), vehicle colors		
	Rules	Rules Object detected, abandoned/removed objects, direction, linger, dwell, enter,			
		exit, crowd, queue, peri	meter		
Al Face detection		Yes			
Al Tamper detection		White out, black out, scene change			
Al Blur detection Al Metadata		Yes			
Al Smart Search		Yes Al Parson Ro ID (via Video Edga v6.1.1 or after)			
Video motion detection	Yes	Al Person Re-ID (via VideoEdge v6.1.1 or after)			
Network	163				
Ethernet	IEEE 802.3, 10/3	100 Base-T, 1x RJ45, auto s	ensing		
Cyber security	-	EC 62443-4-1 certified sec	<u> </u>		
,		UK PSTI Act Schedule 1 compliant			
	Secure boot				
		rypted firmware			
Network security		Multi-level password protections, brute force delay protection, IP address filtering, HTTPS encryption, IEEE 802.1x (PEAP, EAP-TLS, EAPOL), digest authentication, HTTPS over TLS, WS-			
			d security (one-click security hardening, user access		
		mplex credentials, disabling			
Supported protocols		TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, RTCP, RTSP, TLS,			
	Unicast, Multicast, NTP, ICMP, IGMP, SMTP, WS-Security, IEEE 802.1x, PEAP, EAP-TLS, EAPoL,				
N	· · · · · · · · · · · · · · · · · · ·	SSH, HTTPS, SOAP, WS-Addressing, CIFS, UPNP, LLDP, QoS, SIP, Hostname configuration			
Network management		SNMP v2c/v3			
Simultaneous users	10				
System Integrations Alarm	2v Lino-in 2v r	elay line-out (201/ 14) torn	ninal block		
Application program interface		2x Line-in, 2x relay line-out (30V, 1A), terminal block ONVIF Profile S, Profile G, Profile M, Profile T, test tool 23.12 or later conformant			
Application program interface		Connected Partner program			
Event triggers		Video analytics, alarm input, network loss, temperature			
Event handling		Record to SD, snapshot, SMTP email out, FTP upload, CIFS, alarm output, playback audio clip, SIP			
	call				
End-to-end compatibility	ExacqVision 24	ExacqVision 24.09, VideoEdge 6.4 or later			



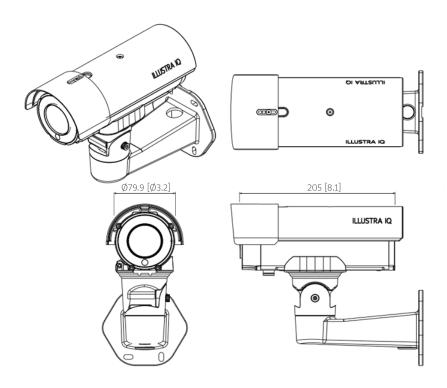
Peripherals			
Wireless configuration	1x Micro USB for use with Illustra Tools app vi	a optional USB Wi-Fi Dongle IA-KIT-WD-UUA	
Onboard storage	1x Micro USB for use with Illustra Tools app via optional USB Wi-Fi Dongle IA-KIT-WD-UUA 1x microSDXC slot, Class 10 or higher, up to 2TB capacity, card not included 1~10 sec pre/post-event buffering Encrypted storage and streaming TrickleStor offline recording and backfilling via VideoEdge and ExacqVision NVR		
Mechanical			
Casing	Die casting aluminum body and bracket Polycarbonate front window and sunshield	Die casting aluminum dome base Encapsulated electronics Polycarbonate clear bubble	
Mounting	Smart mounting bracket	Surface mount Built-in recessed mounting kit 3-axis adjustable lens holder Outdoor weather hood (optional)	
Mandal nasistanas	Versatile mounting options available, see Opti	onal Accessories	
Vandal resistance	IK10 impact-resistant rated	IDCZICC III FO T 4Vtifd	
Weathering resistance	IP67/66 rated, NEMA 250 Type 4X certified	IP67/66 rated, UL 50 Type 4X certified	
Color	RAL 9003 signal white		
Reset buttons	1x Reboot, 1x factory reset	(4120 425	
Dimension (WxL)	Ø79.9 x 205 mm (Ø3.2 x 8.1 in)	Ø138 x 135 mm (Ø5.4 x 5.3 in)	
Weight	Net 1.2 kg (2.7 lbs), gross 3.2 kg (7.1 lbs)	Net 1.2 kg (2.7 lbs), gross 1.7 kg (3.7 lbs)	
Electrical	D 5 1555 222 2 2 2 2 2 2 2 5 5 5 5 5 5 5	D 5 1555 222 2 1 7 1 1 1 1	
Power source	PoE IEEE 802.3af Type 1 Class 4, PoE+ IEEE 802.3at Type 2 Class 4 24 VAC, 1.27A, terminal block	PoE IEEE 802.3af Type 1 Class 3 24 VAC, 0.8A, terminal block	
Power consumption (max)	PoE 12.95 W, PoE+ 18.72 W, 24 VAC 21 W	PoE 12.95 W, 24 VAC 16.5W	
Dual power redundancy	Supported		
Environmental			
Operating conditions	-50 °C ~ 60 °C (-58 °F ~ 140 °F)	-50 °C ~ 60 °C (-58 °F ~ 140 °F)	
	Maximum temperature (intermittence): 65 °C (165 °F) Up to 0 ~ 95% RH non-condensing		
Cold start temperature	-40 °C (-40 °F)		
Storage conditions	-40 °C \sim 65 °C (-40 °F \sim 165 °F) Up to 0 \sim 95% RH non-condensing		
Regulatory			
EMC	BS/EN 55032 Class A, IEC/BS/EN 61000-3-2/3, BS/EN 50130-4, IEC/EN 61000-4-2/3/4/5/6/8/1 FCC Part 15 Subpart B Class A, ICES-003/NMB 003, Class A, IEC/BS/EN 61000-6-4, BS/EN 50121-1, BS/EN 50121-4	11, EN 50130-4, IEC 61000-4-2/3/4/5/6/8/11, IEC/EN	
Safety	IEC/UL/CB 62368-1, CAN/CSA-C22.2 No. 62368-1 IEC/UL/CB 60950-1, CAN/CSA-C22.2 No. 60950-1		
Environment	NEMA 250 Type 4X IEC/EN 62262 (IK10), IEC/EN 60529 (IP67/66) RoHS, WEEE, REACH		
General			
Web browser support	Edge, Firefox, Safari, Chrome		
Device configuration	ONVIF, Web browser, Illustra Connect (Windows), Illustra Tools (iOS, Android)		
Language	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, English (default), French, German, Hungarian, Italian, Japanese, Korean, Netherlands, Polish, Portuguese, Russian, Spanish, Swedish, Turkish		
NDAA compliant	Yes		
TAA compliant	Yes		
Warranty	5 years		



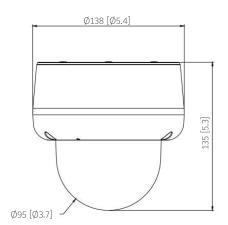
Dimensions

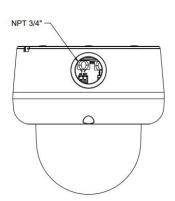
Unit: mm [in]

Bullet



Dome





Ordering Information

Camera Type	Part Number	Product Name	Description
Bullet	IPS05-B12-LPR4	Pro4 LPR Bullet 5MP	Illustra Pro Gen4 5MP LPR Bullet, 2.7-13.5mm, TDN, w/IR, Indoor/Outdoor
Dome	IPS05-D12-LPR4	Pro4 LPR Dome 5MP	Illustra Pro Gen4 5MP LPR Dome, 2.7-13.5mm, TDN, w/IR, Indoor/Outdoor

Optional Accessories

Bullet



Dome



Part Number	Description
ADCDMCRNRO	Corner Mount
ADCDMPOLE	Pole Mount
ADCi6DPCAPIW	Pendant Cap
ADLOMARM	Gooseneck Wall Mount
IA-BBL-CV-P4D	Pro4 Dome Bubble Assembly, Clear
IA-BBL-SV-P4D	Pro4 Dome Bubble Assembly, Smoked
IA-CAP-WH-P4D	Pro4 Dome Weather Hood (Sunshield)
IA-HDM-OD-P4D	HDMI Cable, Micro HDMI male to Type A male, 3 m (9.8 ft)
IA-KIT-WD-UUA	USB Wi-Fi Dongle
IA-LIG-WH-P4D	Pro4 Dome Anti-Ligature Base
IA-USB-OD-P4D	USB Cable, Micro-B male to Type A female, 5 m (16.4 ft)
IFBMNTBOX	Junction Box
IPSMDEBPLATE	Adapter Plate
IPSMDWALL3	Wall Mount

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