

Visipak 5 OV

Designed for Free Flow Tolling Installations



- **All Integrated:** LPR is performed entirely inside the camera; no LPR server needed.
- **High Speed:** 20 ms to digitalize plates on vehicles moving at speeds up to 250 km/h (155 mph).
- **Long Recognition Distance:** from 7 to 35 m (23 to 116 ft).
- **ADR recognition:** it can read license plates and hazardous materials placards simultaneously.
- **Guard Ready:** monitoring tool to validate the installation and maintain high performance over time.
- **2nd Overview HD color camera:** provides high quality contextual video and images.
- **EXA Option:** Integrated AI Accelerator Enabling Faster and More Accurate Vehicle Recognition.

Applications



ITS & TOLLING

LICENSE PLATE RECOGNITION

	European Plates (long)	American Plates (short)
Recognition distance	From 7 to 35 m (23 to 116 ft)	From 7 to 28 m (23 to 92 ft)
Coverage width	Up to 7 m (23 ft)	
Recognition engine	SURVISION REAL TIME EMBEDDED AI ENGINE (SREIE)	
Recognition engine framerate	60 fps	
Max. vehicle speed	250 km/h (155 mph)	
Trigger modes	Free Running (without trigger), Software Trigger, Hardware Trigger	
Recognition reliability indicator	Yes	
Recognition and overview images	JPEG (3 resolution options), adjustable compression	
2-line license plates recognition	Yes	
Countries supported	All supported countries provided simultaneously (contact sales@survisiongroup.com for an up-to-date list)	
ADR recognition (Dangerous Goods Plate)	Optional (EU only)	
Other data supplied	Plate position, Roll angle, Direction (front/rear), Country, State, Timestamp	
Real time video flow	RTSP, up to 20 fps and adjustable bitrate. H264 compression	
Time synchronization protocol	NTP	

CAMERA AND ILLUMINATION

CMOS	2 x FHD 2 Mpixel Black & White and Color. Max. frame rate 60 fps
Lighting	16 high power LEDs IR and/or White Light

ELECTRICAL CHARACTERISTICS

	Standard version	EXA (with additional AI accelerator)
Power	24 V $\pm$ 3 V or POE++ (IEEE 802.3bt) (PoE for this model, available in 2027)	
Consumption	Average 15 W, max 17 W	Average 18 W, max 20 W

MECHANICAL CHARACTERISTICS

Weight	4.1 kg (9,03 lb)
Dimension (L x D x H)	152 x 250 x 129 mm (6 x 9.9 x 5.1 in)
Material	Aluminum, 316L stainless steel
Coating	Epoxy RAL 9010
Ingress Protection	IP67
Connectors	Amphenol RJ45 + Amphenol DB10 LTW
Operating and storage temperature	From -40 °C to +55 °C (-40 °F to +131 °F)

SECURITY, ENVIRONMENTAL AND TECHNICAL CERTIFICATIONS

Network security	SSL (TLS 1.2, TLS 1.3), 802.1x, 802.1q
Software security	User/role management, strong password enforcement
Motion and shock detection	6 Axis Inertial Measurement Unit (acceleration and gyroscope)
Photobiological Safety	IEC 62471
Homologation	EN 55032:2015, EN 55032:2015/A11:2020, EN 55035:2017, EN 55035:2017/A11:2020, EN 60950-22:2006, EN 60950-22:2006/AC:2008, EN 62368-1:2014, EN 62368-1:2014/AC:2015, EN 62471:2008
MTBF	70.000 hours (minimum)
Mecanical resistance - Vibration	EN 60068-2-64 Spectre A.2 Category 2 - Fixed installation
Mecanical resistance - Impact	IK08

DATA OUTPUT AND INPUT

Ethernet link	10/100/1000 Mb/s
TCP/IP bidirectional protocols	SURVISION Camera Development Kit (CDK), Websocket (SSWS, using JSON)
TCP/IP push protocols	HTTP Push, FTP Push
Serial protocols	RS485, OSDP, Wiegand (external card must be ordered for distances above 20 meters)
Input signal	Optocoupler. Voltage min. 15 V max. 30 V
Output signal	Relay Max. 220 VDC, 2 A

ACCESSORIES AND OPTIONS

Power supply	24 V, 60 W
Power cable	3, 10 or 30 m (10, 33 or 98 ft)
Power cable + serial	15 m (50 ft)
Power cable + Input signal + Output signal	30 m (99 ft)
Mounting brackets	Pole adapter and 3D adjustable brackets