

PICOPAK

The smallest all-integrated license plate recognition camera ever manufactured for embedded applications.



Front



Rear

- **ALL-INTEGRATED:** License Plate Recognition (LPR) process is performed entirely inside the camera. No need to install a server in the vehicle.

- **FLEXIBLE:** Its ultra-compact size 4x4x2 in. (10x10x4cm), low weight of less than 1.4 lbs (600 g) and low energy consumption (6 W on average) facilitate the permanent or temporary integration on all types of vehicles.

- **EASY TO SETUP:** The camera automatically adjusts its filming and lighting parameters to provide optimal performance regardless of the environmental conditions.

- **WIFI:** The data can easily be transmitted from the camera to the display terminal (smart phone, tablet, PC, ...) via Wi-Fi.

- **HIGH SPEED:** Supports vehicle speeds up to 155 mph (250 km/h).

- **VIDEO STREAM:** Provided in real time (Standard RTSP streaming).

- **FAST:** 60 fps (frames per second).

APPLICATIONS



PARKING



SMART CITIES



SECURITY

LICENSE PLATE RECOGNITION

	European plates (long)	Americas Plates (short)
Recognition distance (see part number for more details)	From 13 to 51 ft (4 to 15.5 m)	From 10 to 33 ft (3 to 10 m)
Coverage width	Up to 13 ft (4 m)	Up to 10 ft (3 m)
Recognition Engine	SURVISION REALTIME EMBEDDED AI ENGINE (SREIE)	
Recognition framerate	60 fps	
Recognition direction	Both (Rear and Front)	
Max vehicle speed	155 mph (250 km/h)	
Triggering	Free Running (no trigger)	
Confidence Ratio	Yes	
Recognition JPEG	Yes (4 different formats), settable quality	
Square plate formats supported	Yes	
Countries supported	All countries supported supplied at once (go to https://survisiongroup.com/coverage for up-to-date list)	
Other data supplied	Coordinates of the plate, Direction, Country, Jurisdiction, Type	

VIDEO AND ILLUMINATION FEATURES

Lighting	2 strong power pulsed IR (850 nm) or White Light LEDs
CMOS	HD 1.3 MPixels Black&White
Compression	H264
Transport Protocol	RTSP
Available settings	Display framerate (up to 30 fps), Bitrate

ELECTRICAL CHARACTERISTICS

Power supply	12/24 VDC +/- 3V
Power Consumption	Average 6 W, max 15 W

MECHANICAL CHARACTERISTICS

Weight (without sunshield)	1.40 lbs (600 g)
Dimension (LxWxH)	4.22 x 3.86 x 1.57 in (107 x 98 x 40 mm)
Material	Aluminium
Coating	Epoxy painting RAL 7031
Water&Dust protection	IP67 - IK07
Connectors	Amphenol RJ45 + Amphenol DB10 LTW
Operating and storage temperature	From -40°F to +131°F (-40°C to +55°C)

SECURITY, ENVIRONMENTAL AND TECHNICAL CERTIFICATIONS

Security	SSL (TLS 1.2), 802.1x, 802.1q
Photobiological Safety	IEC62471
Homologation	ECE R10, CISPR25, EMC EN 55032, CE Marking, FCC Part 15, CB Scheme, EN 61000
MTBF	56,000 hours minimum
Time Synchronization	NTP Protocol

DATA OUTPUT AND INPUT

TCP/IP	SURVISION Open Camera Development Kit (CDK), available for free
FTP	Embedded FTP Client
Ethernet	Gigabit Ethernet 100
Web Interface	REST webservice and Websocket (SSWS)

ACCESSORIES AND OPTIONS

Power cable	10 ft (3 m) car charger power and Ethernet cable
Power Supply	12/24 VDC 12 W
Fixation parts	Suction cup , Battery kit , Segway Mounting Kit

PART NUMBERS

	PICOPAK - 12mm	PICOPAK - 16mm	PICOPAK - 25mm
Recognition distance European plates (long)	From 13 to 26 ft (4 to 8 m)	From 20 to 33 ft (6 to 10 m)	From 29 to 51 ft (9 to 15.5 m)
Recognition distance American plates (short)	From 10 to 18 ft (3 to 5.5 m)	From 13 to 25 ft (4 to 7.5 m)	From 22 to 33 ft (7 to 10 m)
Essential (single country or state) IR (Black characters)	PPK3IRAMC12	PPK3LBAMC16	PPK3IRAMC25
Essential (single country or state) White Light (Colored characters)	PPK3LBAMC12	PPK3LBAMC16	PPK3LBAMC25
Plus (all countries) IR (Black characters)	PPK3IRAMP12	PPK3IRAMP16	PPK3IRAMP25
Plus (all countries) White Light (Colored characters)	PPK3LBAMP12	PPK3LBAMP16	PPK3LBAMP25