Citypak 5

Designed for smart city applications.

- **All Integrated:** plate reading is done directly inside the camera, no need for a processing server.
- **High Speed:** 20 ms to digitalize plates on vehicles moving at speeds up to 205 km/h (155 mph).
- **Large Coverage,** perfect for cities with low emission zones.
- **4G modem** embedded inside the camera.
- **No Trigger Needed:** the fastest option for frictionless applications.
- **Long Recognition Distance:** from 7 to 35 m (23 to 116 ft).
- **Guard Ready:** monitoring tool to validate the installation and maintain high performance over time.
- **EXA Option**: Integrated AI Accelerator Enabling Faster and More Accurate Vehicle Recognition.

Applications

SMART CITY

Citypak 5
TECHNICAL SPECIFICATIONS

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 images	JPEG (3 different 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)	
Other data supplied	Plate position, Roll Angle, Direction (front/rear) of Traffic, 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	FHD 2 MP Black & White or Color Max. frame rate 60 fps
Lighting	8 high power LEDs IR or white light

ELECTRICAL CHARACTERISTICS

	Standard version	EXA (with additional AI accelerator)
Power	24 V ± 3 V or POE+ (IEEE 802.3at) PoE is an extra option, only available when ordering some specific references)	
Consumption (with LTE modem)	Average 15 W, max. 17 W (Average 18 W, max. 20 W)	Average 18 W, max. 20 W (Average 21 W, max. 23 W)

MECHANICAL CHARACTERISTICS

Weight	3.4 kg (7.5 lb)
Dimensions (L x D x H)	94 x 256 x 202 mm (3.7 x 10.1 x 7.9 in)
Material	Aluminum, 316L stainless steel
Coating	Epoxy RAL 7031
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
Shock & motion 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)
Mechanical resistance - Vibration	EN 60068-2-64 Spectre A.2 Category 2 - Fixed installation
Mechanical resistance - Impact	IK08

DATA OUTPUT AND INPUT

Ethernet link	10/100 Mb/s
4G	LTE Cat 4 Module | LTE FDD Band 1/3/5/7/8/20 | LTE FDD 150Mbps DL/ 50Mbps UL (dependent on market area, details upon request). Nano SIM compatible.
TCP/IP bidirectional protocols	SURVISION Open 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, 2A

ACCESSORIES AND OPTIONS

Power Supply	24 VDC, 36 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)
Fixation parts	Pole adapter and 3D adjustable brackets