v-LANE A1B 2MPX@60 fps ANPR 160 Km/h

- 1 Lane coverage
- Infrared + color (bispectral) single head camera
- Plate reading up to 160 km/h in free-run
- Integrated IR illuminator with stroboscopic LEDs
- 2 Mpixel resolution (context + OCR)
- OCR library on board with 41 countries in Europe, 13 Asia, 6 Africa,
  5 South America and special plates such as Trailers, Kemler ADR,
  Kemler ADR Empty, Tram
- Transit speed estimation function
- Black & White lists
- ONVIF Profile S
- Cloud ready
- Compatible with the Vigilate v-SUITE general supervision platform
- **OCR library validated several times by UNI 10772:2016 Class A**

FEATURES:

Analysis and recognition:

v-LANE A1B is the 2Mpixels intelligent camera able to control and manage all the problems of a road gate both for safety aspects and for aspects relating to traffic control.

V-LANE A1B detects 60 images per second within which it analyzes, identifies and validates the license plates of the vehicles present. This result, obtained through the use of sophisticated software, makes it possible to read the license plate of vehicles in transit at speeds of up to 160 km/h in free-run mode (without an external trigger device).

Data:

Data and images can be stored directly locally, sent to the customer's supervision system or sent to the v-SUITE supervision platform. The device has FTP, XML-RPC (on HTTPS) and serial transmission protocols. Software Optical Character Recognition (OCR) library complete with 41 countries in Europe, 13 Asia, 6 Africa, 5 South America and special plates such as Trailers, Kemler ADR, Kemler ADR Empty, Trams (Police, Army, Ambulance, Civil Protection...).

Data security:

The storage and transmission of data generated by the product takes place using highly reliable and secure protocols, guaranteeing the highest level of inviolability and privacy. Vigilate complies with the most restrictive regulations on data security such as ISO27001:2022.

Application examples:

- Access control for public and private car parks
- Access control for residential and commercial areas
- Access lanes to ports, airports, stations, etc...

Dasa-Rägister

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DATASHEET:

Sensor (OCR + COLOR):	2 MP (1920 x 1080) CMOS COLOR + IR (bispectral) global shutter sensor
Frame rate:	Up to 60 fps
Optics:	Standard varifocal lens, 8-50 mm
Integrated IR illuminator:	n. 8 LED IR (CLASS 1M CEI EN 69825-1 ED. 4, 850 nm IR LED)
Processor:	Quad-core + HW video encoder unit
Memory:	16-32 GB NAND flash
RAM:	1 GB
S.O.:	Linux
Storage Disk:	16 GB USB flash drive (up to 128 GB)
I/O:	"N.3 input opto-isolated N.2 output relays
Ports:	N.1 USB port N.1 RS-485 port N.1 10/100/1000 Mbps Ethernet port
Operating mode:	- continuously acquisition (free-run) - on request (by SW trigger or HW trigger)
Both modes can draw on the two local lists that can be configured locally or by remote synchronization with the FTP server :	
Real-time diagnostics:	- CPU temperature - Mainboard temperature - IR illumination module operation - Lighting module current peaks - Capture status of physically connected sensors - Input current level (power port) - Input voltage level (power port) - Camera tilt angle - Internal humidity level - CPU consumption - RAM consumption - Storage disks status - Utilization of the 4 physical cores (CPU monitoring) - Check status of operational threads - Monitoring of analysis times and operating status of active algorithms
Generation of any alarms (local and possibly remote) in the face of anomalies detected:	
Supported sending protocols:	- TCP (in binary, XML, string formats) - TCP Milestone - FTP (imgs + text data in *.txt/*.csv) - RPC-XML over HTTP / HTTPS (BASIC or EXTENDED message) - Custom Protocol (message configurable via template and sendable by HTTP POST / HTTPS POST /TCP protocols) - Serial (on RS 485 port)

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Dasa-Rägister

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	- Wiegand (need to install SC20 converter)
	- Xentinel message (over HTTP)
	- v-SUITE message (over HTTP / HTTPS)
Supported communication protocols:	- TCP/IP
	- UDP
	- HTTP
	- HTTPS
	- FTP
	- FTPS
	- RTP/RTSP
	- OpenVPN
	- ONVIF (S- profile)
	- NTP
	- SNMP
Data protection:	- possibility to activate the management of the web configurator by HTTPS connection
	- FTPS encryption on TLS/SSL protocol
	- AES-256-ECB encryption for data and images saved locally and/or sent via the supported protocols
	- image hash using SHA-512 algorithm and possible encryption of the signature itself using AES-256-ECB
	- totally GDPR compliant storage management with periodic deletion of the history
	- cockpit masking function (in case of front detection of vehicles) in order to ensure respect for privacy
	- possibility to connect the camera inside an openVPN with certificate installed directly on board
	- advanced management of the firewall on the machine with the possibility of disabling access to the local servers present on the machine (FTP server, ONVIF server, SNMP server, service ports)
Supported power supply:	24VDC (1,25 A) or +12VDC (2,5 A) or UPoE 60W
Consumption:	8W typically
Dimensions:	450 x 140 x 150 mm
Weight:	2,6 Kg
Operating temperature:	- 30°; +60°
Humidity:	up to 90%
Protection:	IP67 - class IK10 (on request)
OCR library:	Certified high reliability, the library has been validated several times by UNI 10772
AID algorithm:	The instantaneous speed estimation by video analysis and consequently the AID algorithm with the various supported features are highly reliable as demonstrated by numerous field tests in the presence of approved systems for speed estimation for sanctioning purposes.
Regulations complied with:	EN 55032
EN 62368-1 (EN 62368-1:	2014+A11