



# Vega Smart Enforce

Automatic Number Plate Reader

## Extremely low light vehicle recognition and classification

No need for external illuminators or sensors: reduced installation and maintenance costs.

High performances classification software and OCR algorithms.

All in one LPR and classifier  
System is able to run under heavy traffic conditions and manage different kind of installations and configuration options.

High onboard security and encryption standards to secure all the information stored and sent.

Local data storage to compensate connection loss.

Video streaming from overview camera.



## All transit plates are analysed and available for:

- Video based tolling
- Night and day classification

## Application

- Tolling enforcement
- Selective and dynamic tolling

# Enforcement and Tolling

SMART ENFORCE	
<b>Software features and Performance</b>	
Lane Detected	2
Max Vehicle Speed [km/h]	250
Working Distance [m]	up to 25
Detection	99%
Reading	>95%
OCR	ANPR engine on board
2nd Lever OCR	optional
Grabbing	75 fps
Classification	Yes
Vehicle Brand	optional
Vehicle Model	optional
Vehicle Color	NA
AES256	Yes
SHA2	Yes
Compression	JPG
Streaming	Video streaming via standard RTSP protocol
<b>Configuration</b>	
Web Server	Installation and configuration with on board Web Server
TCP/IP Server	Configuration and monitoring through TCP/IP protocol. (SDK provided)
Date and Hour	Synchronization via NTP protocol, IEEE1588, GPS
Software Update	Upgrading via Web Interface and SDK
<b>Data Transmission</b>	
FTP	FTP Client to FTP Server mode for remote data transmission; Multiple IP servers addressable
TCP/IP	Tattile TCP/IP open protocol; (SDK provided)
Standard protocols	XML; SNMP; NTCIP; DATEX2; UTMIC; ONVIF; MODBUS
Serial Port	Insulated RS485

SMART ENFORCE	
<b>Op. Mode</b>	
Free Run	Continuous processing with automatic vehicle detection, even without plate
Triggered	Image capture and processing triggered by Ethernet command or digital signal
<b>System</b>	
ANPR camera	5 Megapixel grayscale CMOS sensor
Context camera	2.3 Megapixel grayscale CMOS sensor
Illuminator	High power LEDs
Lenses	C-Mount. Many focal lengths available.
Operating System	Linux Operating System
Digital i/o	6 Optoisolated input - 4 Relay Output – 1 Strobe output
Connectors	Waterproof circular connector
IP Protection	Waterproof IP68
Ethernet	GigaBit Ethernet 10/100/1000
Storage	uSD up to 128 GB
	HD/SSD up to 1 TB
GPS	Optional
LTE	Optional
WiFi (Easinstall)	Yes
<b>Technical Datas</b>	
Operating & Storage Temperature	From -40° to +55° C
Operating & Storage Humidity	From 10% to 90% non condensing
Power supply voltage	24 Vdc
Power consumption	70 W (max)

