



# Vega Smart Traffic Light

Automatic Number Plate Reader

## ▼ *The new concept to safeguard the intersections*

SMART TL2L allows the red light status identification through image analysis. Red light violation detected by image analysis (without external sensors ), no

external device requested and reduced installation and maintenance costs

The system is able to manage different kinds of traffic installations (one or two lanes, one traffic light each lane or every two lanes)

Capability to recognise every plate (not only violators'), very useful for security purposes;

All transit plates are recorded and available for:

- Red light enforcement
- Tax and insurance control
- Vehicle tracking
- Traffic monitoring



## ▼ *Application*

- Enforcement
- Traffic monitoring
- Security

# Traffic Light Enforcement

SMART TRAFFIC LIGHT	
<b>Software features and Performance</b>	
Lane Detected	2
Max Speed Detected [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	optional
Vehicle Color	optional
Vehicle Maker	optional
Vehicle Model	optional
AES256	Yes
SHA2	Yes
compression	JPG
Streaming	Color video streaming H.264 via standard protocol RTSP
<b>Configuration</b>	
Web Server	Installation and configuration by Web Server on board
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; UTMC; ONVIF; MODBUS
Serial Port	Insulated RS485

SMART TRAFFIC LIGHT	
<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 MPX BW
	5 MPx Color (color version)
Context camera	MegaPixel Color CMOS sensor
Illuminator	12 high power LEDs, InfraRed @ 850 nm
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
Dimensions	290 x 127 x 235 mm (WxHxL)
Weight [kg]	5.5
Power supply voltage	24 Vdc
Power consumption	50 W (max)

