



TRAFFIC
DIVISION



ANPR solutions for ITS applications

▼ **Since 1988 Tattile** has developed and produced Vision Systems for quality inspection on production lines and ANPR cameras for ITS applications.

A high-tech company with a strong international outlook. We have always distinguished ourselves by our sharp innovation capacity and collaborative spirit which animates the entire organization.

▼ **Today** Tattile is a completely renovated company, on sound financial basis, focused to future vision scenarios, enriched by a new management team dedicated to include state of the art technology into our products.

▼ **Strong international projection**, more than 70% of our turnover is derived from overseas (50% in Europe and 50% rest of the world), thanks to a network of top class international System Integrators and local partners.

▼ **Innovation, Customer Orientation and Flexibility** are the main values of our organization. At Tattile, we are devoted to understanding our partner's needs, in order to provide innovative solutions, shaped accordingly to each specific situation or request.

We are fully engaged in the creation of cutting edge ANPR Cameras, able to fulfil the most demanding applications in the ITS market worldwide, always in compliance with strict quality standards, ensuring reliability and operating cost efficiency.

▼ **Operations:** thanks to last generation tools in both Material Management and Production Planning (SAP BusinessOne®) and to a dedicated team of engineers, we implemented an extremely lean and responsive Supply Chain model, which allows us to achieve very short and competitive delivery times even for high volume tenders without sacrificing cost-effectiveness.



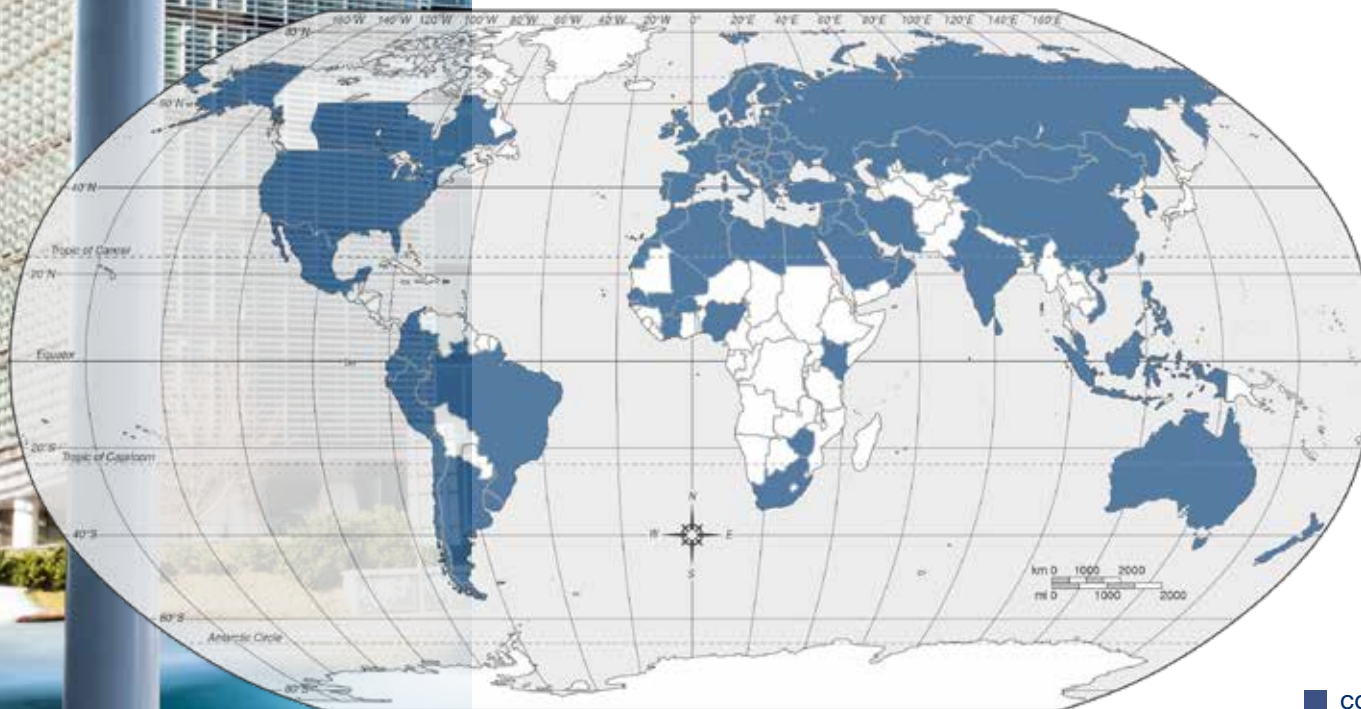
OCR

▼ On field service

- Tattile's Field Application Engineers (FAE) are fully dedicated to assist our partners during Design, Installation and After sales
- Worldwide on-field service available for partners

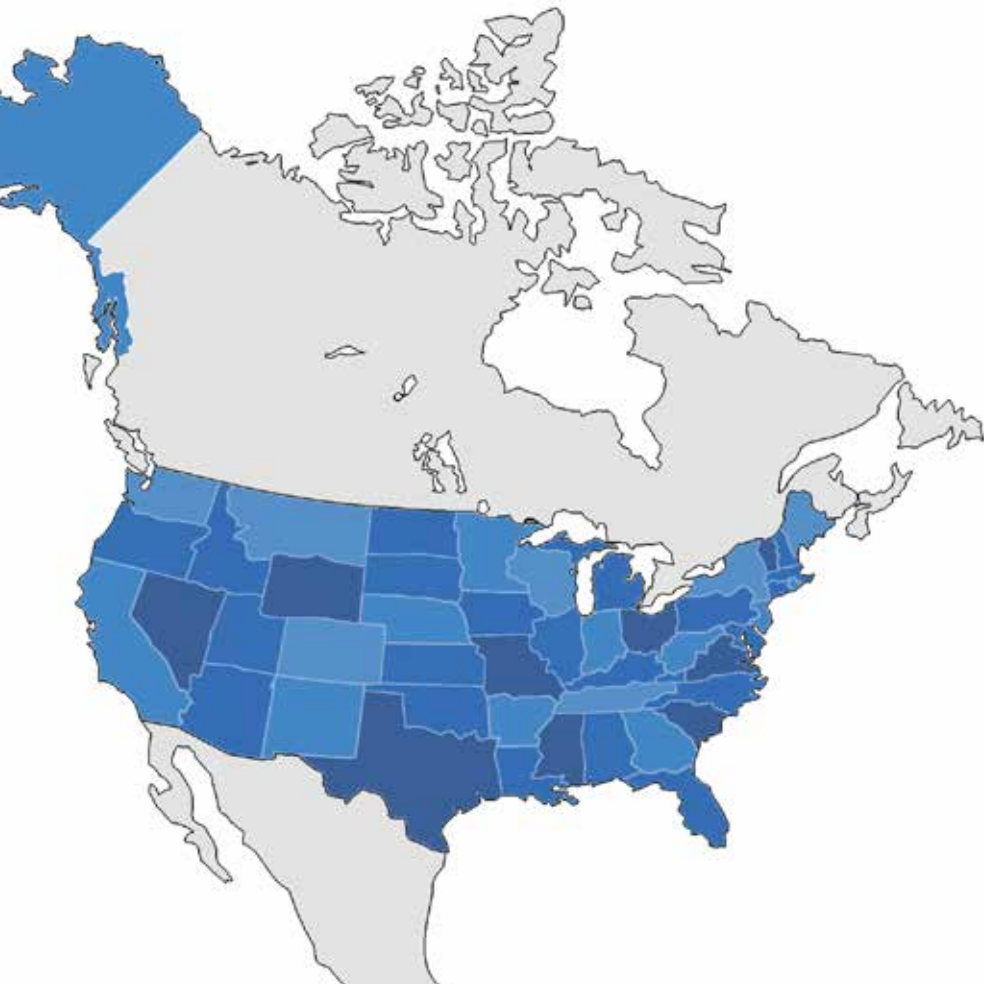
▼ One step forward

- Embedded Technology: OCR and image processing are embedded in the ANPR Camera (no need of extra PCs or software licenses)
- Multicore Processor
- Multi transit/second management capability
- Optional Features:
 - Embedded brand, color and model recognition
 - Embedded optical vehicles classification
 - HD video streaming
 - Auto trigger
 - Optical speed estimation



■ countries where Tattile's Cameras are in operation

born to be international



OCR

- Tattile's OCR is developed by our internal software team (in-house development)
- Tattile offers more than 110 in-house developed OCR libraries
- New OCR libraries can be developed and tested upon request
- Tattile can handle more than one OCR library onboard each ANPR camera; for instance, 28 European countries are embedded in one single library
- New OCR libraries available for the US market
- Third parties OCR transferable on-board (no processing on external PC required)



Top Performance Hardware

▼ Embedded multicore processors

▼ High sensitivity sensors

▼ Scalable device

▼ Embedded FPGA

▼ LTE and GPS available as
optionals

▼ SSD from 128GB up to 1TB
according to customer needs

▼ Smart design

▼ IP68 protection grade

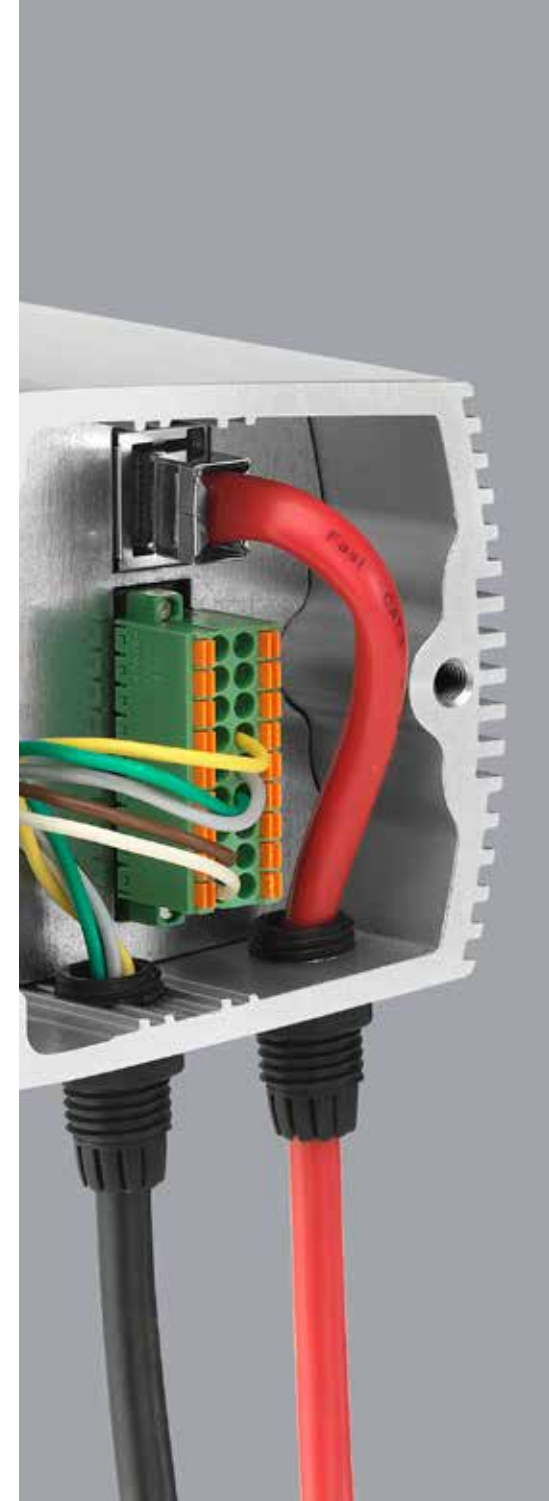
▼ Extended temperature range
(-40°C / + 60°C external
temperature)



HW Scalability

Scalable hardware architecture to meet increasing workloads

- ▶ The hardware system has been designed using a modular approach able to receive different processors ensuring future CPU evolutions for state of the art performances.
- ▶ Modular Platform designed to include various sensors in order to match all the applications required by the most challenging scenarios.
- ▶ Scalable HW architecture to include different FPGA modules and to ensure high-speed image processing in extreme situations.
- ▶ Use of FPGA grants a huge processing capability for real time image processing and ANPR analysis.
- ▶ SSD from 128 GB up to 1TB (Smart family).
- ▶ Modular architecture allows an easy customization of the HW platform according to the complexity of the application.
- ▶ Devices able to detect and read non-reflective licence plate, without any external illuminator.
- ▶ Extra sensitive sensor mounted on Smart 2HD's context camera ensures quality images also in low light conditions (from 25 Lux).



Top Performance Software

- ▼ Linux OS platform
- ▼ Proprietary high performance plate reader algorithm
- ▼ Camera software can be fully upgraded from a remote connection
- ▼ Easy to use and configure with an integrated web interface
- ▼ SDK available for easy integration
- ▼ Optional integration with third-party software running on-board to extend device capabilities



- ▼ Standardized interface allows future system upgrades without significant reworks
- ▼ Automatic grabbing parameter selection to adjust image acquisition according to external light conditions
- ▼ Transit notification with customizable metadata, encryption and signature algorithms
- ▼ High performances software and scalability

Add-on software

Tattile's add-on software libraries allow transforming a simple ANPR camera into a big data collector, providing a wide range of information for different purposes such as security, traffic analysis, smart cities, data classification, pollution estimation and traffic statistics.

All add-on software can be uploaded even if the camera is already installed.

- ▼ **A** - BCC - Brand Class and Color recognition
- ▼ **B** - Rigel - Traffic analysis and incident detection
- ▼ **C** - Inspector - Traffic data management system
- ▼ **D** - Easinstall App - for remote camera configuration and performance check

		SMART			BASIC			ANPR Mobile
		2HD	Speed	Traffic Light	Short Range	Long Range	Vega1	
BCC	Brand Recognition	✓	✓	✓			✓	
	Model Recognition	✓	✓	✓			✓	
	Vehicle Classification	✓	✓	✓			✓	
	Vehicle Color	✓	✓	✓			✓	
Rigel Traffic analysis and incident detection	Stopped vehicle	✓					✓	
	Slowdown and queue	✓					✓	
	Wrong way	✓					✓	
	Pedestrian detection	✓					✓	
	Smoke, low visibility	✓					✓	
	Lost cargo	✓					✓	
	Traffic density	✓					✓	
	Vehicle counting	✓					✓	
	Traffic statistics	✓					✓	
Inspector Traffic data management system	Average speed enforcement	✓	✓	✓	✓	✓	✓	✓
	Vehicles research	✓	✓	✓	✓	✓	✓	✓
	Origin destination	✓	✓	✓	✓	✓	✓	✓
	Geo-referenced map	✓	✓	✓	✓	✓	✓	✓
	Transit movements and traffic statistics	✓	✓	✓	✓	✓	✓	✓
	Access control	✓	✓	✓	✓	✓	✓	✓
Easinstall	Easy to Install	✓	✓	✓	✓	✓	✓	✓
Others	Self triggering based on image analysis	✓						
	Optical speed estimation	✓	✓	✓	✓	✓	✓	✓





BCCM

A Brand, Class, Color and Model recognition

- Vehicle brand, class, color and model recognition algorithm running inside the camera
- All information provided by a single source
- License plate, brand, class, color and model create the so-called vehicle «fingerprint» in a single report
- No extra cost for external software, processing server and integration time

Applications:

- Security
- Crime enforcement
- Tolling
- Smart City



Rigel

Traffic Monitoring & Incident Detection

B

▶ Rigel plugin is an extension of Tattile's double head solutions.

It enables the traffic analysis features providing an all-in-one solution for both reading plates and traffic monitoring.

▶ Rigel system is a real time traffic analyser able to manage alarms and notification; reporting plate numbers and a number of traffic events directly to the aggregating software running on a remote server.

▶ The aggregating software works as a forwarder of all the collected events to all 3rd party systems like VMS or SCADA platforms, supporting standard protocols.

▶ The integration with the most commonly used video management systems and alerting systems allows the control room to have a quick overview of all traffic events and take actions accordingly.

▶ The software is able to work in different scenarios, either in approaching and receding traffic, day and night and on multiple lanes.

▶ Available analysis:

- Stopped vehicle
- Slowdown and queue
- Wrong way
- Pedestrian detection
- Smoke, low visibility
- Lost cargo
- Traffic density
- Vehicle counting

▶ Applications:

- Traffic monitoring
- Automatic incident detection
- Traffic data collection
- Smart City





Inspector

Traffic Data Manager



- Inspector is a scalable platform able to centralize the data acquired from different cameras distributed on the field.
- The system is scalable and extensible to perform average speed enforcement control, security applications, traffic statistics and access control.
- Inspector can analyse collected data according to configurable rules and undertake a number of actions based on the results: opening gates, sending emails, posting messages on variable message panels.
- Inspector generates reliable reports; various research queries can be done.
- Inspector does not need to be installed on client machines, the SW can easily be accessed with any browser; the multi-user software manages multiple connections and queries at the same time.
- Safe login to the system using credentials (username and password), leaving the Possibility to set up different user profiles.
- Possibility to embed the software in the user's apps (or third parties) thanks to Web Service calls.

Applications:

- Average speed enforcement
- Vehicles Research; transit movements control (reported vehicles) based on a configurable internal database or connecting to a database
- Origin destination
- Geo-referenced map indicating devices position
- Transit movements and traffic statistics generation, possibility to personalise statistics
- Access control

Easinstall

Quick and fast camera configuration



Tattile proprietary App for a quick and fast installation, the essential time-saving tool for any installer

Main functionalities:

- Discover available cameras via Wifi
- Connection to a camera via SSID (Service Set Identifier) / Hidden SSID
- Take a screenshot of the ANPR camera
- Remote update / Clear of the camera's public keys
- Send email directly to technical support
- Create Hotspot connection
- Web view support
- QR Code scan

The App is available on Android market and on Apple store



Application & Solution

APPLICATION		SMART			BASIC			ANPR Mobile
		2HD	Speed	Traffic Light	Short	Long	Vega1	
Tolling System	Free flow	✓						
	Stop & Go				✓			
	LTZ 1 lane					✓	✓	
	LTZ 2 lanes	✓						
Vehicle Tracking	Security & Tracking 1 lane					✓	✓	✓
	Security & Tracking 2 lanes	✓						
	Mobile ANPR							✓
	Parking & Access control				✓			
Enforcement System	Red Light			✓				
	Speed		✓					
	Priority lanes					✓	✓	
	Tolling	✓						

ANPR solutions



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The Vega Smart Family

Automatic Number Plate Reader

- ▶ The camera has two multicore processors on board with Linux operating system

- ▶ The Vega Smart line is built on a high performance base allowing a high scalability, for high-end, multivehicle per second applications

- ▶ With embedded licence plate recognition, image analysis software, high resolution sensors, low power consumption and a web server on-board, the Vega Smart camera allows performing innovative applications

- ▶ The camera can be integrated/connected to external devices and can receive vehicle's class data from external classifier (laser-scanner, radar, loops, etc.), tag identifier from RFID antenna and vehicle's axels number data from external device



- ▶ Stand alone: thanks to the local buffering of information, the system is able to work also in case of disruption of data connection

- ▶ Camera designed to detect and recognise reflective and non-reflective licence plate

- ▶ New context camera color sensor capable of providing good quality images even in low light conditions (from 25 Lux)

► Vega Smart Family Applications

- Multilane Free Flow
- Police enforcement
- Vehicle tracking and monitoring
- Border control
- Tax and insurance control
- Congestion charge, access control to limited traffic areas

► Included Features and Optionals

	Vega Smart HD		Vega Smart 2HD		Vega Smart Speed		Vega Smart Traffic Light	
	Incl.	Opt.	Incl.	Opt.	Incl.	Opt.	Incl.	Opt.
Double Processor	X		X		X		X	
FPGA	X		X		X		X	
OCR 5Mp Sensor	X		X		X		X	
Color Sensor			X		X		X	
Micro Sd	X		X		X		X	
Embedded Illuminator	X		X		X		X	
Radar					X			
GPS		X		X	X		X	
LTE		X		X		X		X
SSD		X		X		X		X
Linux Os	X		X		X		X	
Traffic Light Violation SW							X	
Rigel Traffic Analysis				X				
OCR	X		X		X		X	
Kemler/ADR recognition	X		X		X		X	
Autoiris	X		X		X		X	
Easinstall App	X		X		X		X	
Brand Recognition				X		X		X
Color Recognition				X		X		X
Model Recognition				X		X		X
Optical Classification				X		X		X
Third party OCR		X		X		X		X
Speed Estimation	X		X		X		X	
HD Video			X		X			X

Incl. = Included / Opt. = Optional



Vega Smart HD - Vega Smart 2HD

Automatic Number Plate Reader

▼ *The Vega Smart Line*

It is built over a highly performing base allowing outstanding scalability.

Optionals can be installed upon request.

Impressive capability to keep the device always updated.



▼ *Application*

- Toll collection
- Free Flow
- Traffic monitoring
- Security

Free-Flow Tolling - Security

	SMART HD	SMART 2HD
Software features and Performance		
Lane Detected	2	
Max Vehicle Speed [km/h]	250	
Working Distance [m]	Up to 35	
Detection	99%	
Reading	>95%	
OCR	ANPR engine on board	
Third party OCR	optional	
Capture rate	75 fps	
Classification	NA	optional
Vehicle Color	NA	optional
Vehicle Brand	NA	optional
Vehicle Model	NA	optional
AES256	Yes	
SHA2	Yes	
Compression	JPG	
Streaming	NA	Video streaming via standard RTSP protocol
Configuration		
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	
Data Transmission		
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; UTM; ONVIF; MODBUS	
Serial Port	Insulated RS485	

	SMART HD	SMART 2HD
Op. Mode		
Free Run	Continuous processing with automatic vehicle detection, even without plate.	
Triggered	Image capture and processing triggered by Ethernet command or digital signal	
System		
ANPR camera	5 MPX BW	
	5 MPx Color (Color Version)	
Context camera	NA	2.3 Megapixel color CMOS sensor
Illuminator	12 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	
	Optional HD/SSD	
GPS	Optional	
LTE	Optional	
WiFi (Easinstall)	Yes	
Technical Datas		
Operating & Storage Temperature	From -40° to +60° C	
Operating & Storage Humidity	Up to 95% non condensing	
Dimensions	290 x 127 x 235 mm (WxHxL)	
Weight [kg]	5.5	
Power supply voltage	24 Vdc	
Power consumption	50 W (max)	

Part Numbers

Vega Smart HD	
F01760	Smart HD
F01767	Smart HD Non Reflective Plates

Vega Smart 2HD	
F01761	Smart 2HD
F01768	Smart 2HD Non Reflective Plates

Vega Smart Color HD	
F01762	Smart Color HD

Vega Smart Color 2HD	
F01765	Smart Color 2HD

Tattile

Custom ANPR Solutions



Vega Smart Speed

Automatic Number Plate Reader

▼ *Real time detection of infringements with OCR on board*

Embedded multi tracking radar

No post-processing required

Detection of vehicles exceeding average speed or punctual speed limits

Ability to recognise every plate passing under the camera and not only violators.

This is very useful for security or statistical purposes

All transit plates are recorded and available for:

- Speed enforcement (spot/average)
- Tax and insurance control
- Vehicle tracking
- Traffic monitoring



▼ *Application*

- Enforcement
- Traffic monitoring
- Security

Speed Enforcement

	SMART SPEED
Software features and Performance	
Lane Detected	2
Max Vehicle Speed [km/h]	250
Working Distance [m]	Up to 35
Detection	99%
Reading	>95%
OCR	ANPR engine on board
Third party OCR	optional
Capture rate	75 fps
Classification	optional
Vehicle Color	optional
Vehicle Brand	optional
Vehicle Model	optional
AES256	Yes
SHA2	Yes
Compression	JPG
Streaming	Video streaming via standard RTSP protocol
Configuration	
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
Data Transmission	
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; UTMCI; ONVIF; MODBUS
Serial Port	Insulated RS485

	SMART SPEED
Op. Mode	
Free Run	Continuous processing with automatic vehicle detection, even without plate
Triggered	Image capture and processing triggered by Ethernet command or digital signal
System	
ANPR camera	5 MPX BW
	5 MPx Color (color version)
Context camera	2.3 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
	Optional HD/SSD
GPS	Yes
LTE	Optional
WiFi (Easinstall)	Yes
Technical Data	
Operating & Storage Temperature	From -40° to +60° C
Operating & Storage Humidity	Up to 95% non condensing
Dimensions	404 x 127 x 235 mm (WxHxL)
Power supply voltage	24 Vdc
Power consumption	50 W (max)

Part Numbers

Vega Smart Speed	
F01766	Smart Speed





Vega Smart Traffic Light

Automatic Number Plate Reader

▼ *The new concept to safeguard the intersections*

Smart Traffic Light allows the red light status identification through image analysis.

Red light violation detected by image

analysis (without external sensors), no external device required 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).



▼ Ability to recognise every plate passing under the camera and not only violators. This is very useful for security or statistical 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
Software features and Performance	
Lane Detected	2
Max Vehicle Speed [km/h]	250
Working Distance [m]	Up to 25
Detection	99%
Reading	>95%
OCR	ANPR engine on board
Third party OCR	optional
Capture rate	75 fps
Classification	optional
Vehicle Color	optional
Vehicle Brand	optional
Vehicle Model	optional
AES256	Yes
SHA2	Yes
Compression	JPG
Streaming	Video streaming via standard RTSP protocol
Configuration	
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
Data Transmission	
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 TRAFFIC LIGHT
Op. Mode	
Free Run	Continuous image capture and processing
Triggered	Image capture and processing triggered by Ethernet command or digital signal
System	
ANPR camera	5 MPX BW 5 MPx Color (color version)
Context camera	2.3 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 Optional HD/SSD
GPS	Yes
LTE	Optional
WiFi (Easinstall)	Yes
Technical Data	
Operating & Storage Temperature	From -40° to +60° C
Operating & Storage Humidity	Up to 95% non condensing
Dimensions	290 x 127 x 235 mm (WxHxL)
Weight [kg]	5.5
Power supply voltage	24 Vdc
Power consumption	50 W (max)

Part Numbers

Vega Smart Traffic Light	
F01764	Smart Traffic Light
F01769	Smart Traffic Light Non Reflective Plates

Tattile

Custom ANPR Solutions



Vega Basic Family

Automatic Number Plate Reader

- ▶ A multicore processor on board with Linux operating system

- ▶ Mainly targeted to stop & go tolling, parking and access control systems, with a maximum input power of 13W,

the Vega Basic line features a Power-over-Ethernet (POE) interface for minimizing the installation and maintenance time

- ▶ New generation full HD sensor for reading reflective and non reflective plates

- ▶ Stand alone: thanks to local buffering of information, the system is able to function also in case of disruption in the data connection

- ▶ Extra compact size to reduce the installation impact

- ▶ The Vega Basic is easy to install and does not require an external IR lighting

- ▶ Vandal proof connectors



► Vega Basic Family Applications

- Stop & Go tolling
- Parking
- Access control
- Urban road tracking
- Congestion charge
- Access control to limited traffic areas

► Included Features and Optionals

	Vega Basic Short range	Vega Basic Long range	Vega1	
			Incl.	Opt.
Multicore Processor	X	X	X	
OCR Bw sensor	X	X	X	
OCR Color sensor (color version)	X	X		
Context color sensor			X	
Video streaming			X	
Micro Sd	X	X	X	
Linux Os	X	X	X	
OCR	X	X	X	
Kemler/ADR recognition	X	X	X	
Autoiris	X	X	X	
Easinstall App	X	X	X	
Speed Estimation	X	X	X	
Model Recognition				X
Class Recognition				X
Brand Recognition				X
Color Recognition				X

Incl. = Included / Opt. = Optional



► Vandal proof connectors



Vega1

Automatic Number Plate Reader

▼ **The Vega1** is a dual channel camera built in a compact case.

It is mainly targeted to single lane vehicle tracking, traffic limited areas and priority lanes. Its high sensitivity image sensors are available for ANPR reading, video streaming even in extreme and low light conditions.

The camera allows an easy setup to minimize the installation and maintenance time. Thanks to its local storage, it can work stand alone in case the connectivity is not available.

The Vega1 is compact, easy to install and does not require an external IR lighting. The extra compact case reduces installation impact.



▼ ANPR onboard

▼ Local storage

▼ Speed estimation

▼ Video streaming

Single Lane Track

Applications:

- Single lane road tracking
- Surveillance and access control
- Congestion charge
- Limited traffic areas, priority lanes

Optional functionalities:

- GPS
- LTE
- Vehicle brand
- Vehicle class
- Vehicle color
- Vehicle model

	VEGA1
Software features and Performance	
Lane Detected	1
Max Vehicle Speed [km/h]	200
Working Distance [m]	Up to 25
Detection	99%
Reading	>95%
OCR	ANPR engine on board
Third party OCR	optional
Capture rate	Up to 60 fps
Classification	optional
Vehicle Color	optional
Vehicle Brand	optional
Vehicle Model	optional
AES256	Yes
SHA2	Yes
Compression	JPG
Streaming	Color video streaming via standard RTSP protocol
Configuration	
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
Data Transmission	
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; UTM; ONVIF; MODBUS
Serial Port	Insulated RS485

	VEGA1
Op. Mode	
Free Run	Continuous image capture and processing
Triggered	Image capture and processing triggered by Ethernet command or digital signal
System	
ANPR camera	Up to 3 Megapixel grayscale sensor
Context camera	Up to 3 Megapixel color sensor
Illuminator	10 high power LEDs, InfraRed @ 850 nm
Lenses	C-Mount. Many focal lengths available.
Operating System	Linux Operating System
Digital i/o	2 Inputs - 2 Outputs – 1 Strobe output
Connectors	Waterproof circular connector
IP Protection	Waterproof IP67
Ethernet	GigaBit Ethernet 10/100/1000
Storage	uSD up to 128 GB
GPS	Optional
LTE	Optional, external
WiFi (Easinstall)	Yes
Technical Data	
Operating & Storage Temperature	From -40° to +60° C
Operating & Storage Humidity	Up to 95% non condensing
Dimensions	187 x 103,5 x 216 mm (WxHxL)
Power supply voltage	24 Vdc or PoE+ 802.3at Type2
Power consumption	15 W (max)

Part Numbers

Vega 1	
F01870	Vega 1 Long Range
F01872	Vega 1 Short Range



Vega Basic Short Range - Long Range

Automatic Number Plate Reader

▼ **The Vega Basic Line** is built around a small and compact case

POE allows a single wire connection

Optionals can be installed upon request

Impressive capability to keep the device always updated

Available in BW and Color version



	BASIC SHORT RANGE	BASIC LONG RANGE
Software features and Performance		
Lane Detected	1	
Max Vehicle Speed [km/h]	70	150
Working Distance [m]	up to 8	up to 25
Detection	99%	
Reading	>95%	
OCR	ANPR engine on board	
Capture rate	Up to 60 fps	
AES256	Yes	
SHA2	Yes	
Compression	JPG	
Configuration		
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	
Software Update	Upgrading via Web Interface and SDK	
Data Transmission		
FTP	FTP Client to FTP Server mode for remote data transmission; Multiple IP servers addressable	
TCP/IP	Tattile TCP/IP open protocol; (SDK provided)	
Wiegand	Yes	
Standard protocols	XML; SNMP; NTCIP; DATEX2; UTMIC; MODBUS	
Serial Port	Insulated RS485	

Parking Access Control - Stop & Go Tolling

	BASIC SHORT RANGE	BASIC LONG RANGE
Op. Mode		
Free Run	Continuous image capture and processing	
Triggered	Image capture and processing triggered by Ethernet command or digital signal	
System		
ANPR camera	2 MPX BW	
	2 MPx Color (Color Version)	
Illuminator	8 high power LEDs, InfraRed @ 850 nm	
Lenses	C-Mount. Many focal lengths available	
Operating System	Linux Operating System	
Digital i/o	2 Optoisolated input - 2 Relay Output – 1 Strobe output	
IP Protection	Waterproof IP67	
Ethernet	GigaBit Ethernet 10/100/1000	
Storage	uSD up to 128 GB	
WiFi (Easinstall)	Yes	
Vandal proof Connector	Yes	
Technical Data		
Operating & Storage Temperature	From -40° to +60° C	
Operating & Storage Humidity	Up to 95% non condensing	
Dimensions	178 x 90 x 133 mm (WxHxL)	
Weight [kg]	1.5	
Power supply voltage	24 Vdc, PoE	
Power consumption	12 W (max)	

Part Numbers

Vega Basic	
F01750	Basic short range
F01752	Basic long range
Vega Basic Color	
F01751	Basic color short range
F01753	Basic color long range

▼ The Vega Basic Short Range

can read up to 8 meters far at 70km/h max speed

▼ The Vega Basic Long Range

can read up to 25 meters far at 150km/h max speed





ANPR Mobile

Automatic Number Plate Reader

ANPR Mobile

is the smart solution to prevent crime, offered as an aid to Police Forces. It is an evolved and modern license plate reading system, installed on the cars of specialized operational departments and/or intelligence services, as a support to surveillance and protection, serving as a tireless watchful eye on the road.

ANPR Mobile is the latest generation system with Megapixel sensors that can scan up to 60 license plates per second, front and rear, in any light condition. It is part of the sophisticated Tattile ANPR (Automatic Number Plate Reader) All On Board camera family, to read license plates in movement.



Wi-Fi data transmission from the unit to the pc/tablet

GPS on board

Embedded licence plate analysis (OCR on board)

Real time processing: up to 60 fps

Police Enforcement - Crime Prevention

Software Features

ANPR Mobile	
Licence Plate Recognition	
OCR	ANPR engine on board
Capture rate	Up to 60 fps
Configuration	
Web Server	Installation and configuration by Web Server on board
TCP/IP Server	Configuration and monitoring through TCP/IP protocol
Date and Hour	Synchronization via SNTP protocol or GPS
Software Update	Upgrading via Web Interface and SDK
Data Transmission	
FTP	FTP Client to FTP Server mode for remote data transmission; two IP address management
TCP/IP	Tattile TCP/IP open protocol; two IP address management
Streaming	Video streaming via standard RTSP protocol
Operating Mode	
Free Run	Continuous processing with automatic plate detection

Technical Data

ANPR Mobile	
System	
ANPR camera	1920 x 1080 Monochrome CMOS sensor
Context camera	1920 x 1080 Color CMOS sensor
Illuminator	Short range: 6 LEDs High power infrared @ 850nm
	Medium/long range: 10 LEDs High power infrared @ 850nm
Lenses	C-Mount. Many focal length available
Operating System	Linux
Connectors	Waterproof circular connector
Network	Fast Ethernet 10/100 and WiFi 802.11 b/g/n
Storage	Up to 128 GB
Environment, Size, Power	
Operating & Storage Temperature	From -30° to +60° C
Operating & Storage Humidity	Up to 95% non condensing
Dimensions	178 x 76 x 141 mm (WxHxL)
Weight	1,650 Kg
Protection	Waterproof IP66/IP67
Power supply voltage	12 Vdc
Power consumption	15 W

Part Numbers

ANPR Mobile	
F01710	ANPR MOBILE SYSTEM short range
F01845	ANPR MOBILE SYSTEM medium range
F01696	ANPR MOBILE SYSTEM long range

Tattile
Custom ANPR Solutions



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