



Custom ANPR Solutions

TRAFFIC
DIVISION



ANPR solutions for ITS applications



▼ **Since 1988 Tattile** develops and produces 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, thanks to our sharp innovation capacity and to the collaborative spirit, which animates the entire organization.

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

▼ **Strong international projection**, more than 70% of our turnover is realised outside Italy (of which 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. In Tattile, we are fully devoted to understand 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 enables us to achieve very short and competitive delivery times even for high volume tenders, without sacrificing cost-effectiveness.



R&D

Synergy and innovation for cutting-edge ITS applications

▼ R&D

Tattile's R&D Department employs a team of over thirty dynamic engineers with expertise in hardware-software design and in optics and mechanical integration.

Thanks to the synergy between these skills, to the constant attention, to the innovation spirit and to the active collaboration with leading European universities, we are able to develop cutting-edge ANPR Cameras for ITS applications.

Powerful and reliable hardware, easy to use software, maximum integration and flexibility are the strengths of our systems; cameras designed for severe settings typical of ITS (Intelligent Transportation Solutions) systems.

The experience of Tattile R&D team enables us to collect new challenges, ensuring customer the safety of a technological partner, which is able to meet the most demanding needs in the field of ANPR Cameras and OCR software.



▼ R&D - hardware

- Flexible and Fast, thanks to the competence to design PCBA and to programming FPGA to develop product according to market new requirements
- State of the Art Performance, designing embedded systems with Multi Core CPU (ARM, x86) with High Integration with Software development to exploit every single component
- Consistent with the competence of EMC and EMI oriented design and the extended know how for Design for Testing to guarantee a High Quality Level
- Innovative with capacity to improve our knowhow and embed Edging Technologies (e.g. Hyperspectral, TOF) on our machine in an easy and quick way to give always a leading product

▼ R&D - software

- Complete and Flexible with the strong knowhow in the most important OS (Windows, Linux, Android) and the different languages (C, C++, ...) to exploit Hardware for every single application
- Open, thanks to capacity integrate in an very easy way 3rd parties Software and Open Libraries to exploit the best in class world knowledge
- Lean and Performant, thanks to our capacity to design and tailor brand new algorithms on the most powerful Hardware sets
- Innovative with the capacity to embed Academies and Start-ups know how in our open Software architecture



OCR

born to be international

▼ On field Service

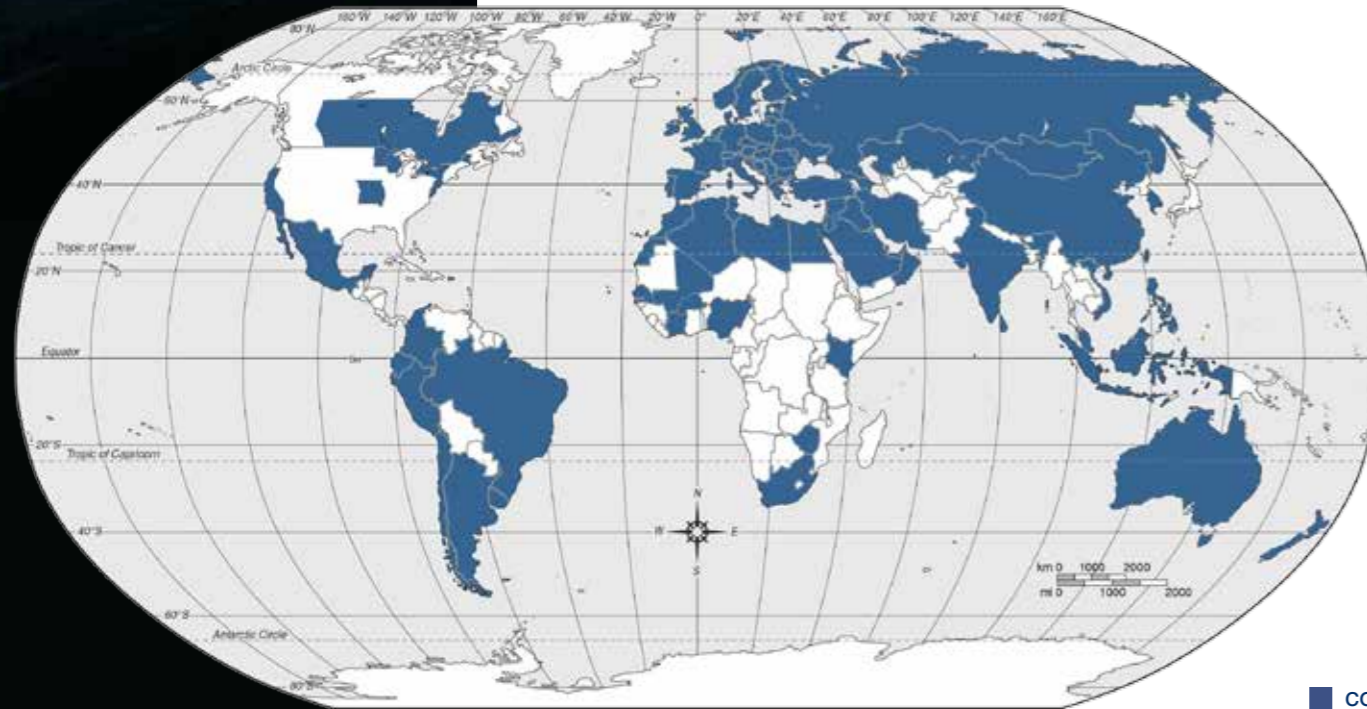
- Tattile's Field Application Engineers (FAE) are fully dedicated to assist our partners during Design, Installation and After sales
- Worldwide on-field service available for partners

▼ One step forward

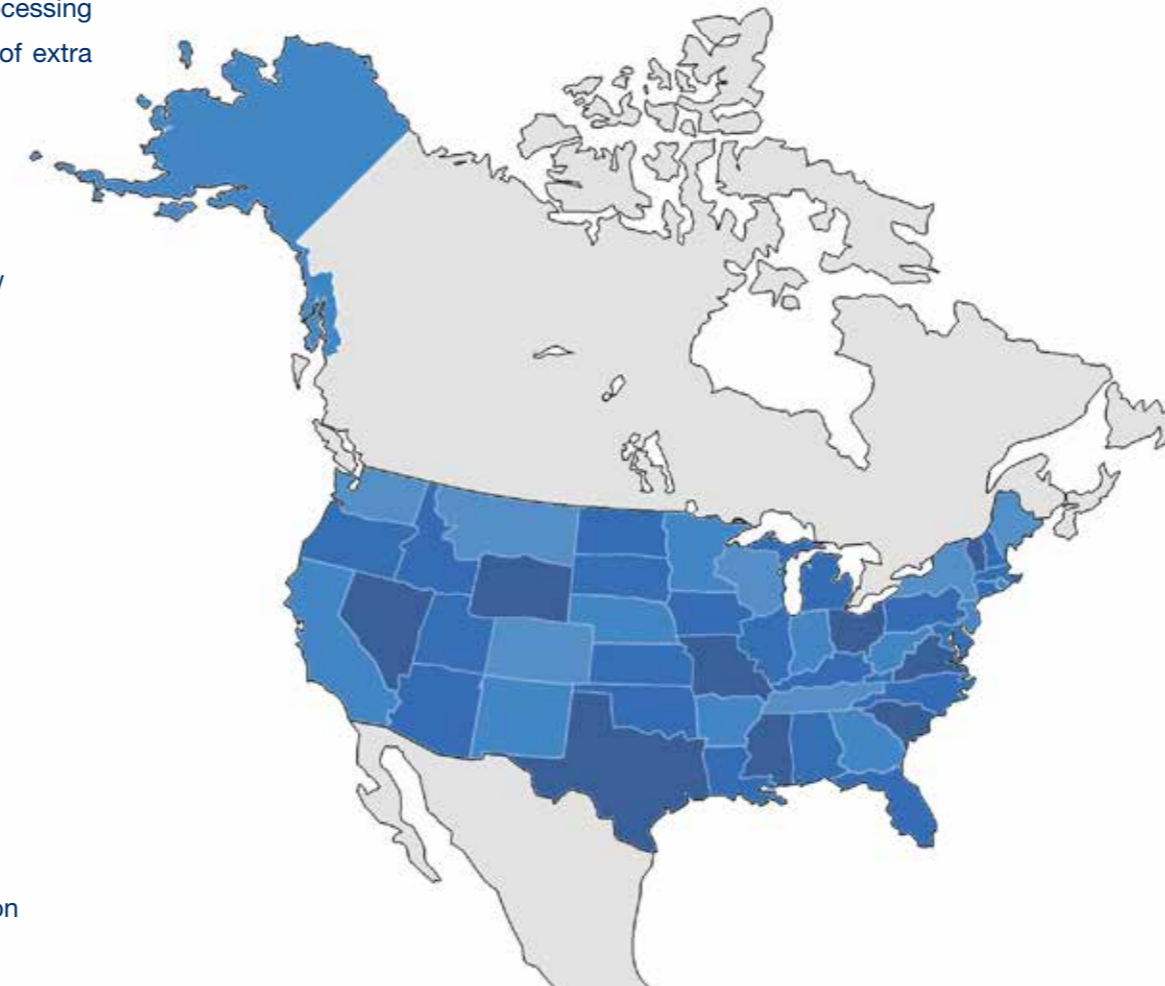
- Embedded Technology: OCR and image processing are embedded in the ANPR Camera (no need of extra PCs or software licenses)
- Multicore Processors
- Multi transit/second management capability
- Optional Features:
 - Two on-board Licence plate recognition sw
 - Embedded brand and color recognition
 - Embedded optical vehicles classification
 - Hd video streaming
 - Auto trigger
 - Optical speed estimation

▼ OCR

- Tattile's OCR is fully 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 by request
- Tattile can handle more than one OCR country on 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 requested)



■ countries where Tattile's OCR Cameras are in operation



Top Performance Hardware

HW Scalability

▼ 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 / + 55°C external temperature)

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 welcome various sensors in order to match all the applications requested by the most challenging scenarios.

▼ Scalable HW architecture to welcome different FPGA modules and to ensure high-speed image processing in harsh situation.

▼ 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 complexity of the application.

▼ Device able to detect and read NO 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

SW Scalability

- ▶ Linux OS
- ▶ Optional App-like software available to enhance device performances
- ▶ Camera SW can be upgraded from remote
- ▶ Our Linux platform welcomes third-party algorithms to be embedded directly on-board
- ▶ Standardized interface allows future system upgrades without significant reworks
- ▶ Plug-and-play interfaces make the new HW fully compatible with Tattile's previous ANPR cameras
- ▶ Proprietary OCR SW
- ▶ Auto iris SW to adjust camera image acquisition according to external light conditions
- ▶ SDK available for easy integration
- ▶ Proprietary App for remote configuration

	BASIC SHORT RANGE	BASIC LONG RANGE	SMART FAMILY
OCR			
	Double OCR		■
Included Features	Non reflecting plate	■	■
	Speed estimation	■	■
	Colored Plate	■	■
	Easy to Install	■	■
	Brand Recognition	■	■
Optional Features	Model Recognition	■	■
	Vehicle Classification	■	■
	Vehicle Color	■	■
	Hd Video		■
	Context Camera		■
	SSD		■
	GPS / Wi-Fi / LTE Communication		■
	Autotrigger 2.0		■

Additional functional (App-like) packages, enlarge the camera features

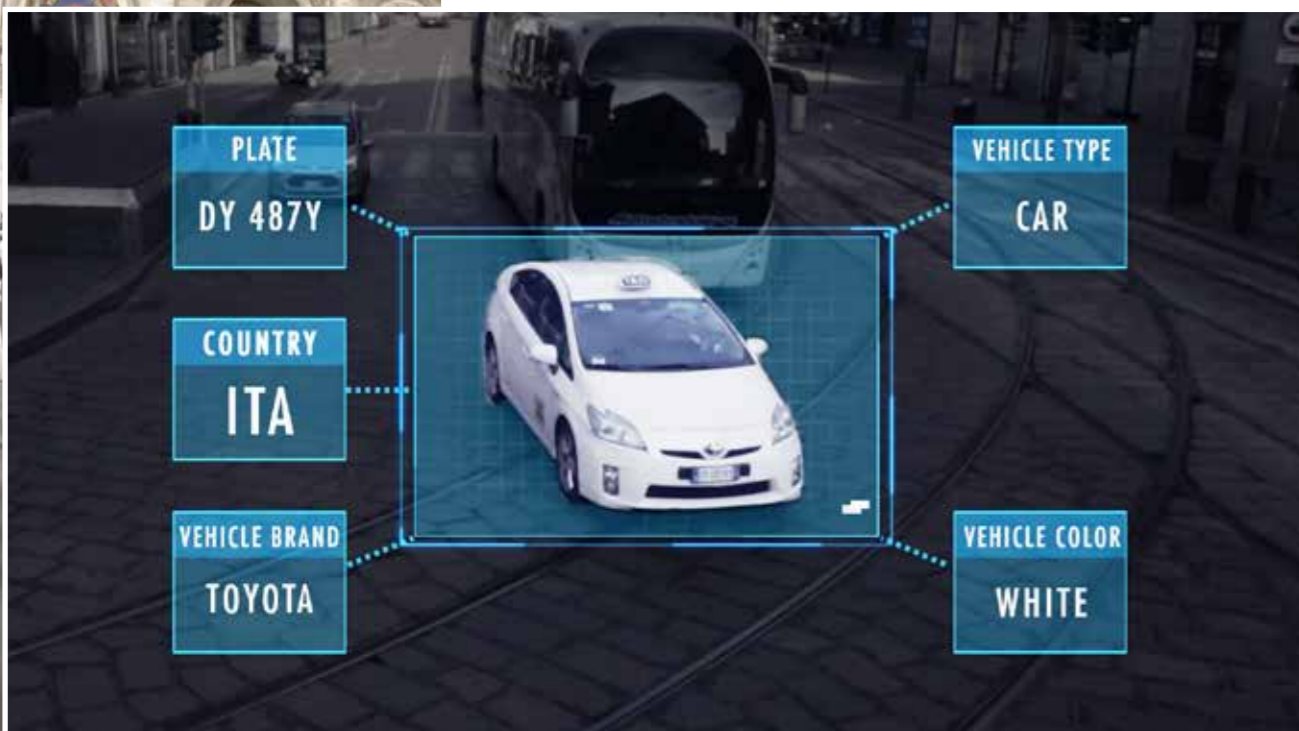
- ▶ **A** - Vehicle Brand, Class and Color recognition
- ▶ **B** - Two different OCRs on board
- ▶ **C** - Auto trigger software 2.0
- ▶ **D** - Speed estimation using image analysis
- ▶ **E** - HD Streaming for video surveillance
- ▶ **F** - Easinstall App for remote cameras configuration

- The additional Apps transform the camera from a standard plate reader to a smart vehicles analyser and a security system
- The optional Apps can be uploaded on demand, including once the camera is already in operation
- Install pack uploadable via remote connection



SW Scalability

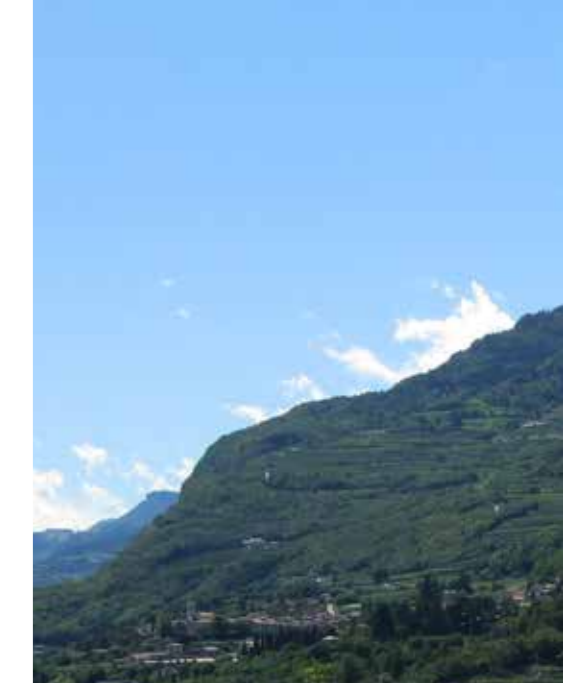
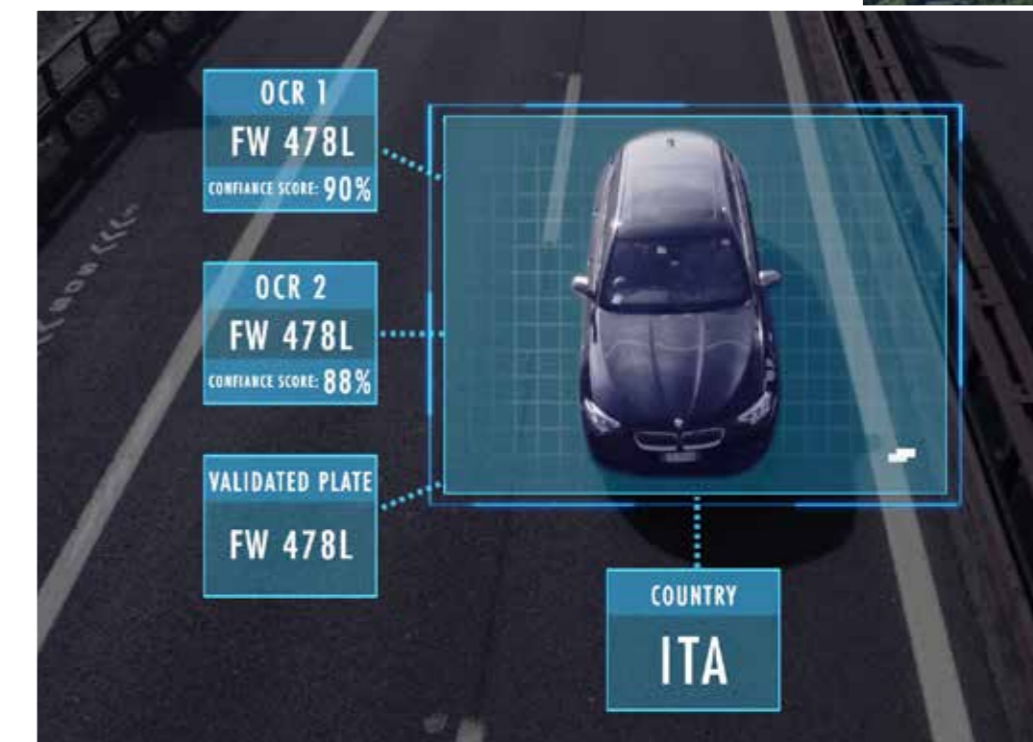
A Brand, Class and Color recognition New frontier in vehicles identification



- ▶ Vehicle Brand, Class and Color recognition algorithm running inside the camera
- ▶ Licence plate, Brand & Color and class create the so-called vehicle «fingerprint» in a single report
- ▶ All the information provided by a single source
- ▶ No extra cost for external software, processing server and integration time

B Double OCR Accuracy - Accuracy - Accuracy

- ▶ The Smart camera can simultaneously run two different OCRs on-board
- ▶ Real-time licence plate identification done by two different software
- ▶ A sophisticated algorithm matches the two results selecting the correct one
- ▶ Validated licence plate data output directly from the camera



VEGA SMART

- EMBEDDED
- EMBED
- EMB
- EM
- HD
- HIG
- WEB S
- LOW POW

SECURITY AND TRAFFIC M

DATA

ERNMENT AGENCY

CITY COUNCIL

A DESTINATION

CONSULTANT

TRAFFIC MONITORING

SW Scalability

C Autotrigger 2.0 No vehicle lost

- ▶ The embedded auto trigger improves the camera detection rate
- ▶ The image analysis algorithm detects vehicles up to 250 km/h without any external trigger
- ▶ Capability to provide images of every vehicle, even without licence plate

D Speed estimation Speed by image

- ▶ Embedded proprietary algorithm able to provide a vehicle's speed Estimation (error +/-5%) using image analysis only
- ▶ The SW provide a reliable vehicles speed estimation without any external device

E Hd video from context camera Video Surveillance at a glance

- ▶ Vega Smart 2 HD can use its increased processor capability to provide a video streaming, directly taken from the context camera
- ▶ Video is RTSP and ONVIF compliant
- ▶ Camera can stream video 24/7 without interfering with the plate recognition process
- ▶ Advantages:
 - A single camera for two different applications (ANPR + CCTV)
 - Important savings on the installation and maintenance side
 - Reduced urban architectural impact (only one camera instead of two)

F Easinstall App 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, 3G/ 4G
- 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
- Support Web view
- Scan (the) QR Code

▶ App is available in Android and Apple stores





Applications

ANPR solutions

▶ Tolling System

- Free Flow tolling (Vega Smart HD/2HD)
- Stop & Go tolling (Vega Basic Short Range)
- LTZs (Limited Traffic Zones) (Vega Basic Long Range)

▶ Enforcement System

- Speed enforcement (Vega Smart Speed)
- Red light enforcement (Vega Smart Traffic Light)
- Priority lanes (Vega Basic long Range)

▶ Vehicle Tracking

- ANPR & Tracking (Vega Basic Long Range / Vega Smart HD/2HD)
- Parking & Access Control (Vega Basic Short Range)

▶ Police Enforcement

- ANPR Mobile
- Security (Vega Smart HD/2HD)



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The Vega Smart Family

Automatic Number Plate Reader

The new frontier in ITS

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

- ▶ The Vega Smart line is built over a very performing 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

▶ 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

- ▶ 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 No reflective licence plate

- ▶ New context camera color sensor capable to provide good quality image even in low light conditions (from 25 Lux)

▶ Included Features and Optionals

	Vega Smart HD & HD Color		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	
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	
Traffic Lamp Color Detection							X	
OCR	X		X		X		X	
Autoiris	X		X		X		X	
Easinstall App	X		X		X		X	
Brand Recognition		X		X		X		X
Color Recognition		X		X		X		X
Model Recognition		X		X		X		X
Optical Classification		X		X		X		X
Second Level OCR		X		X		X		X
Speed Estimation		X		X		X		X
Hd Video				X		X		X

Incl. = Included / Opt. = Optional



Tattile Custom ANPR Solutions



Vega Smart HD - Vega Smart HD Color - Vega Smart 2HD

Free-Flow Tolling - Security

Automatic Number Plate Reader

▼ The Vega Smart Line

is built over a highly performing base allowing outstanding scalability.

Optionals can be installed on demand.

Impressive capability to keep the device Always updated.

▼ Application

- Toll collection
- Free Flow
- Traffic monitoring
- Security

	SMART HD	SMART 2HD
Software features and Performance		
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	NA	optional
Vehicle Maker	optional	
Vehicle Model	optional	
AES256	Yes	
SHA2	Yes	
Compression	JPG	
Streaming	NA	Color video streaming H.264 via standard protocol RTSP
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	

Part Numbers

Vega Smart HD	
F01760	Smart HD
Vega Smart 2HD	
F01761	Smart 2HD
Vega Smart Color HD	
F01762	Smart Color HD

	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	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	
	HD/SSD up to 1 TB	
GPS	Optional	
LTE	Optional	
WiFi (Easinstall)	Yes	
Technical Datas		
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)	





Vega Smart Speed

Automatic Number Plate Reader

Real time detection of infringements with OCR on board

Embedded multi tracking radar

Detection of vehicles infringing average speed limits or punctual speed

All transit plates are recorded and available for:

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

No post-processing requested

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



Application

- Enforcement
- Traffic monitoring
- Security

SMART SPEED	
Software features and Performance	
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
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 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	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
Technical Datas	
Operating & Storage Temperature	From -40° to +55° C
Operating & Storage Humidity	From 10% to 90% non condensing
Power supply voltage	24 Vdc
Power consumption	50 W (max)

Speed Enforcement





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	
Software features and Performance	
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
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; UTMC; ONVIF; MODBUS
Serial Port	Insulated RS485

SMART TRAFFIC LIGHT	
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	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
Technical Datas	
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)



Vega Basic Family

Automatic Number Plate Reader

Small and Performant

- ▶ 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	
	Incl.	Opt.	Incl.	Opt.
Multicore Processor	X		X	
Fpga	X		X	
Bw 2Mp sensor	X		X	
Color 2Mp sensor (for color version)	X		X	
Micro Sd	X		X	
Linux Os	X		X	
OCR	X		X	
Autoiris	X		X	
Easinstall App	X		X	
Speed Estimation	X		X	
Model Recognition		X		X
Class Recognition		X		X
Brand Recognition		X		X
Color Recognition		X		X

Incl. = Included / Opt. = Optional



- ▶ Vandal proof connectors

Tattile Custom ANPR Solutions

Vega Basic Short Range - Long Range

Automatic Number Plate Reader

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

POE allow a single wire connection

Optionals can be installed on demand

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 Speed Detected [km/h]	70	150
Working Distance [m]	up to 8	up to 25
Detection	99%	
Reading	>95%	
OCR	ANPR engine on board	
2nd Lever OCR	not available	
Grabbing	60 fps	
Classification	optional	
Vehicle Color	optional (color version)	
Vehicle Maker	optional	
Vehicle Model	optional	
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	



	BASIC SHORT RANGE	BASIC LONG RANGE
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	2 MPX BW 2 MPX Color (Color Version)	
Illuminator	8 high power LEDs, InfraRed @ 850 nm	
Lenses	CS-Mount. Many focal lengths available	
Operating System	Linux Operating System	
Digital i/o	2 Optoisolated input - 2 Relay Output - 1 Strobe output	
Connectors	Safe Connector	
IP Protection	Waterproof IP67	
Ethernet	GigaBit Ethernet 10/100/1000	
Storage	uSD up to 128 GB	
WiFi (Easinstall)	Yes	
Vandal proof Connector	Yes	
Technical Datas		
Operating & Storage Temperature	From -40° to +55° C	
Operating & Storage Humidity	From 10% to 90% non condensing	
Dimensions	178 x 90 x 133 mm (WxHxL)	
Weight [kg]	1.5	
Power supply voltage	24 Vdc, PoE	
Power consumption	13 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

Parking Access Control - Stop & Go Tolling

▼ **The Vega Basic Short Range** can read up to 8 meters far at 60km/h max speed

▼ **The Vega Basic Long Range** can read up to 25 meters far at 150km/h max speed



Custom ANPR Solutions



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 a 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

Software Features

ANPR Mobile	
Licence Plate Recognition	
CPU	ANPR engine on board
Grabbing	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
Video Streaming	
H.264/MPEG4	Color video streaming H.264 or MPEG4
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	6 high power LEDs, InfraRed @ 850 nm
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 32 GB
Environment, Size, Power	
Operating & Storage Temperature	From -30° to +55° C
Operating & Storage Humidity	From 10% to 90% non condensing
Dimensions	178 x 141 x 76 mm (LxWxH)
Weight	1,650 Kg
Protection	Waterproof IP66
Power supply voltage	12 Vdc
Power consumption	15 W

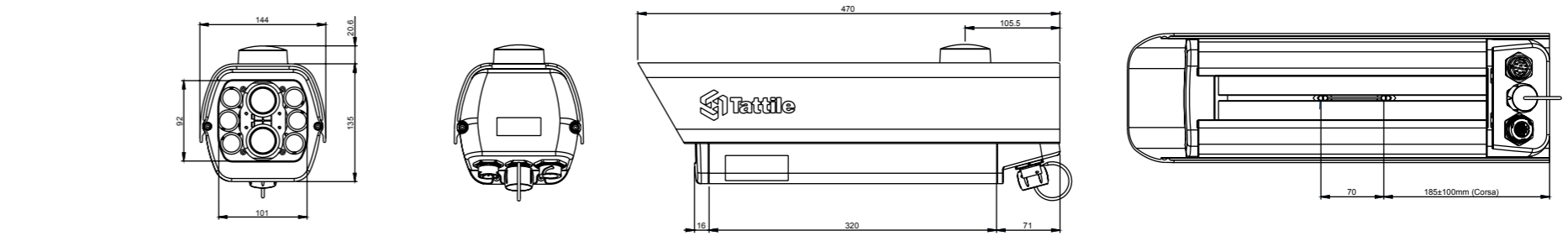
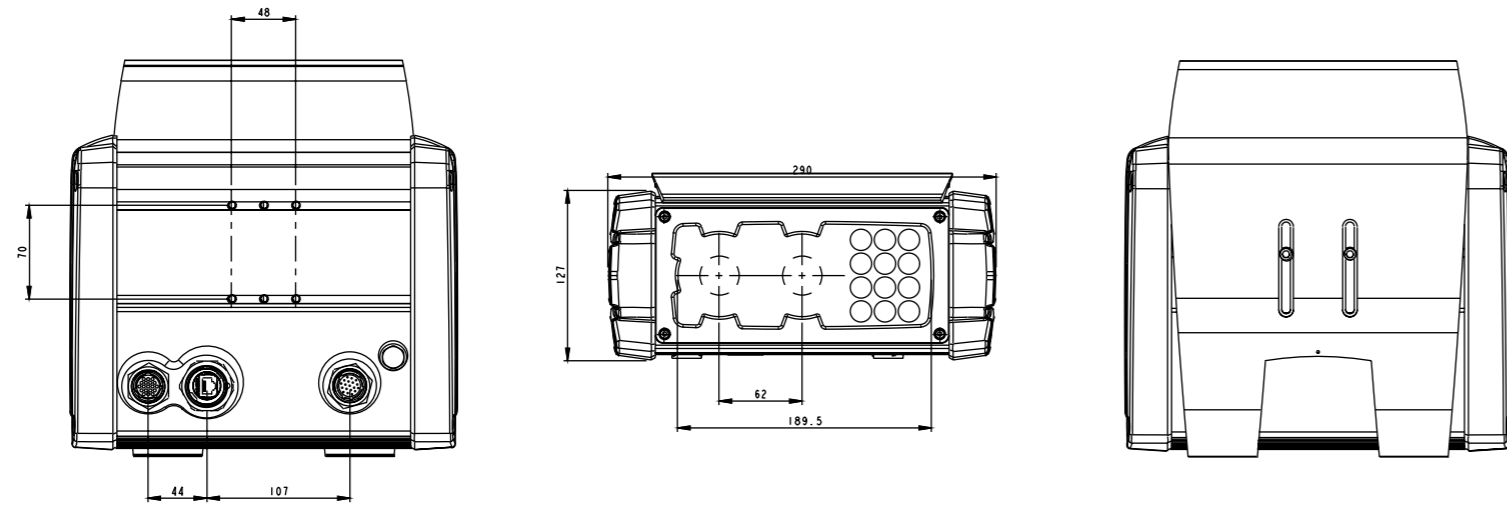
Part Numbers

ANPR Mobile	
F01589	ANPR MOBILE SYSTEM Advanced Transverse
F01590	ANPR MOBILE SYSTEM Advanced Longitudinal
F01653	ANPR MOBILE SYSTEM Advanced Longitudinal 2x16mm
F01622	ANPR MOBILE SYSTEM Advanced 2 Megapixel Longitudinal



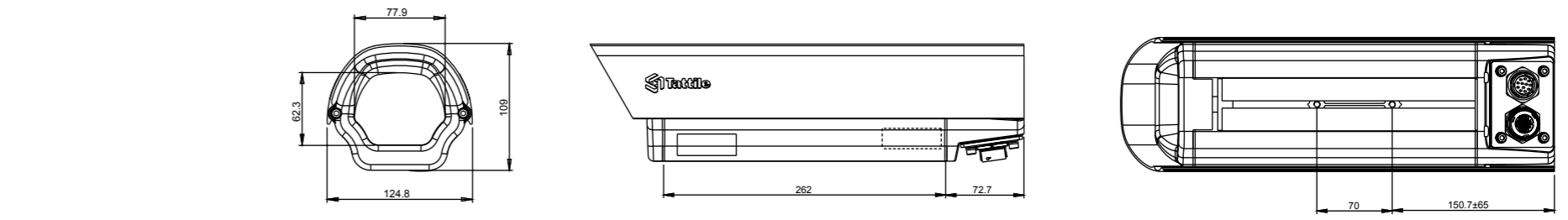
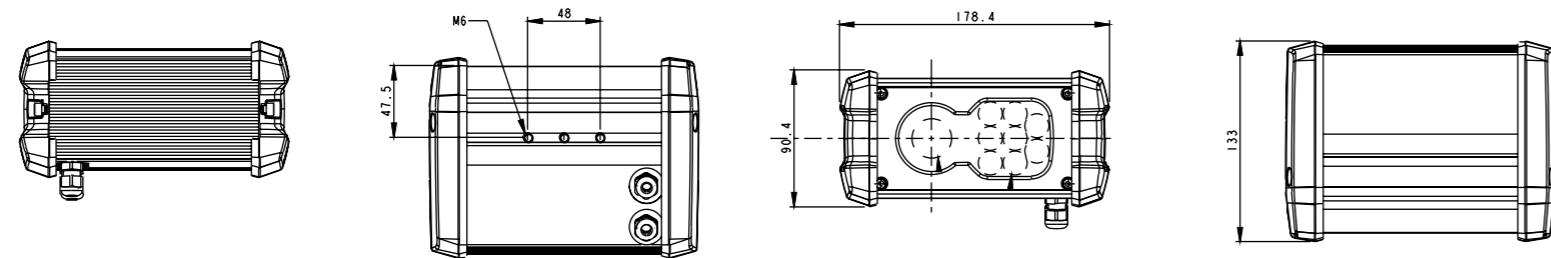
Technical Drawings

Vega Smart



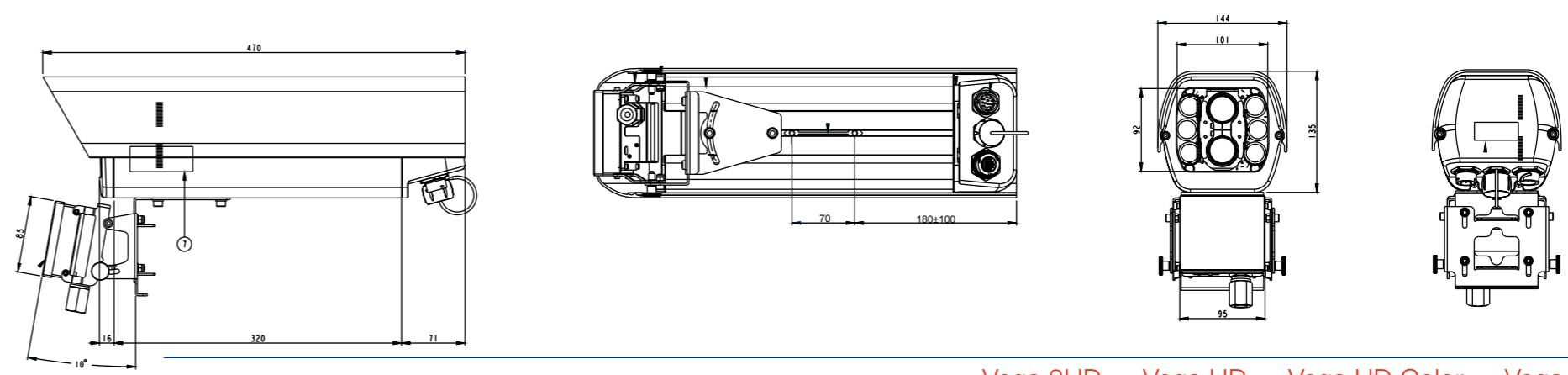
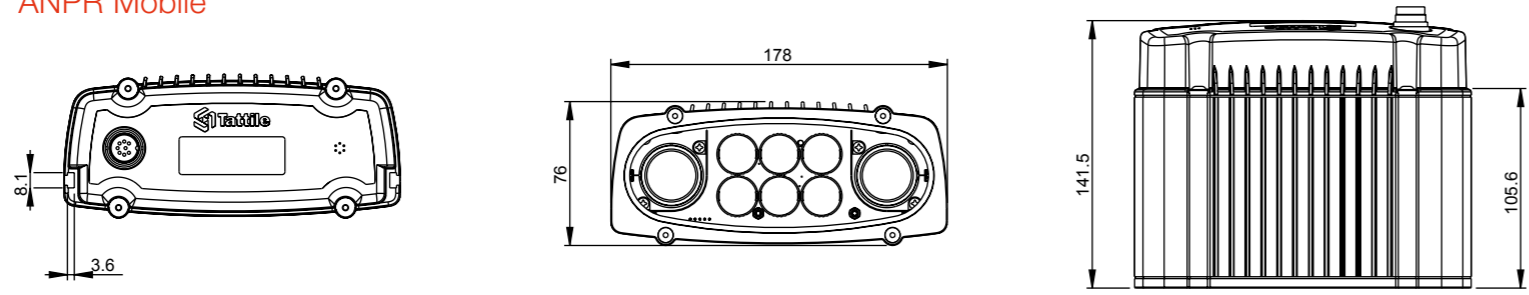
Traffic Light

Vega Basic



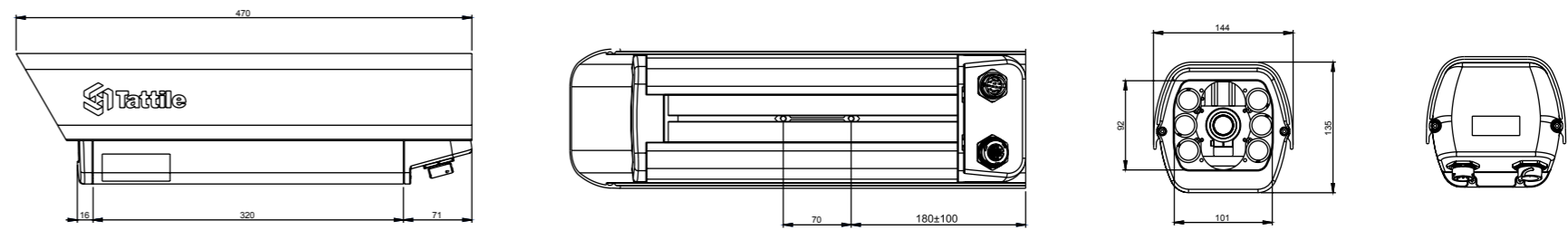
Vega Access

ANPR Mobile



Vega Speed

Vega 2HD - Vega HD - Vega HD Color - Vega Color - Vega III





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