



# Vega Family

An advanced modular platform born to host AI applications, being performant and flexible



- ❖ The hardware platform is designed with the scalability needed to adapt to multiple applications; it supports different computing needs, even the most challenging, thanks to internal extensibility.
- ❖ The new STARK Software architecture creates a solid foundation for Vega, providing high stability, software modularity, intuitive and responsive web interface.

- ❖ Vega family comes with easy-to-integrate protocols for seamless and cost-effective adoption.
- ❖ Simple installation and connection with cable glands and PoE+ for selected devices

- ❖ Internal sensors for anti-tampering and advanced camera diagnostic management
- ❖ Highly sensitive imaging sensors and high-quality components to maximize performances lifecycle and reduce downtime to zero

- ❖ Pre-configured multiple lens options to provide the best image quality and no additional installation efforts
- ❖ Extended temperature range and weather-proof housing (-40°/+ 60°C | -40°/+140°F external temperature, IP-68)
- ❖ Additional optional internal SSD storage from 128GB up to 1TB according to customer needs
- ❖ Precise positioning with optional integrated GPS module
- ❖ Optional LTE module for continuous connectivity and operating in remote locations



CON CARTE E BANCHE  
PAGHI IL PEDAGGIO  
SENZA COMMISSIONI



# Hardware

SINGLE LANE TRACKING | CONGESTION CHARGE

## Vega11 Vega33

Newborn Vega family, expressly developed to host Artificial Intelligence (AI) algorithms for very demanding applications

### 🔗 The new generation of AI-based ANPR cameras

With full onboard image capture and processing, Vega camera provides outstanding performances and flexibility for all ANPR and vehicle identification tasks.

The device automatically detects vehicles thanks to its internal advanced image processing algorithms.

The camera has a high-power integrated infrared illuminator to support demanding performances such as multiple countries plate recognition with optimal reading performances even in high complexity scenarios (reflective, non-reflective, colored plates with multiple charset support).

Thanks to its design, together with the IP68-rating, high-temperature range, optional LTE, and expandable local storage, the camera can operate in remote and harsh environmental conditions.

Integration in Back-office Software and Video Management Systems can be easily achieved with REST API interfacing, multiple configurable protocols, metadata, and image options.

- 🔗 Built-in self-triggering based on image processing
- 🔗 Low energy consumption with PoE+ on selected models for an easy installation
- 🔗 Easy integration with REST API interface
- 🔗 Optional Brand Class Color and Model recognition
- 🔗 Internal buffering and optional storage for off-line operations
- 🔗 Optional high-quality video streaming

	VEGA 10	VEGA 11	VEGA 30	VEGA 33
<b>Software features and Performance</b>				
Lane Detected	1		Up to 2, depending on layout	
Max Vehicle Speed	180 km/h - 112 mph		200 km/h - 125 mph	
Working Distance	Up to 25m - 83 ft		Up to 35m - 115 ft	
Detection	99%			
Reading	>95%			
OCR	ANPR (ALPR) engine on board			
Third party OCR	Optional			
Classification	No	Optional	No	Optional
Vehicle Color	No	Optional	No	Optional
Vehicle Marker	No	Optional	No	Optional
Vehicle Model	No	Optional	No	Optional
Video Streaming	No	Color video streaming via standard RTSP protocol	No	Color video streaming via standard RTSP protocol
AES256	Yes			
SHA2	Yes			
Compression	JPG			
Configuration				
Web Server	Installation and configuration with on board Web Application			
Integration	REST and binary protocol available			
Date and Hour	Synchronization via NTP protocol		Synchronization via NTP protocol or optional internal GPS	
Software Update	Upgrading via Web Application and integration protocols			
Data Transmission				
FTP	FTP Client mode for remote data transmission			
Standard protocols	REST and binary protocol, XML, SNMP, NTCIP, Customizable message format			
Configuration	Configurable events/actions and metadata			
Wiegand	Optional		No	
Serial Port	Insulated RS485 / RS422			
Operating Mode				
Free Run	Self triggering based on image analysis, even without plates			
Trigger mode	Image capture and processing triggered by Ethernet or digital signal			

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<b>System</b>				
ANPR (ALPR) camera	2 Megapixels Grayscale		3 Megapixels Grayscale 3 Megapixels Color (Color Version)	
Context camera	No	2 Megapixels Color	No	3 Megapixels Color
Illuminator	8 high power LEDs, InfraRed @ 850 nm		12 high power LEDs, InfraRed @ 850 nm or white	
Lenses	Fixed lens configuration			
Operating System	Linux Operating System			
Custom software	No		Optional	
Digital i/o	2 Optoisolated input - 2 Relay Output - 1 Strobe output			
IP Protection	IP68			
Ethernet	GigaBit Ethernet 10/100/1000			
Storage	uSD up to 128 GB			
Vandal proof Connector	Yes			
Antitamper sensor	Yes			
Internal SSD	No		Optional up to 1TB	
GPS	No		Optional	
LTE	no		Optional	
WiFi	Optional			
<b>Technical Data</b>				
Operating & Storage Temperature	From -40° to +60° C - From -40° to +140° F			
Operating & Storage Humidity	Up to 95% non condensing			
Dimensions	225 x 244 x 132 mm - 8.6 x 9.6 x 5.2 in			
Weight	3,6 kg - 8 lbs			
Power supply voltage	24 Vdc, PoE+		24Vdc	
Power consumption	25W		30W	

### Part Numbers

Vega 10-11		Vega 30-33	
F02010	Vega 10	F02001	Vega 30
F02011	Vega 11	F02000	Vega 33