Smart+

- Compatible with Stark, the new secure by design software architecture, provides a fully parametrizable platform, totally modular, with a multilingual and super user friendly web interface.

- With its AI neural accelerators, Smart+ achieves extraordinary performance in demanding multi-vehicle and multi-lane applications, providing additional acceleration and using, at the same time, multiple algorithms.

- Smart+ is the right product for high-end applications, like multilane free flow tolling, security, and vehicle occupancy.

- It can detect vehicles up to 320 km/h (198 mph) with a detection accuracy level >99,5%.

- Smart+ is equipped with new high-quality sensor (up to 8Mpx on the OCR channel), providing better image quality, and coverage up to 3 lanes.

- Smart+ camera can be easily integrated and connected to external devices using REST API interface, making interaction with external classifiers (laserscanner, radar, loops, etc.), RFID antenna and vehicle's axle information easier.

- The local buffering system and optional local storage let the system work even in case of disruption of data connection, providing safe temporary storage and automatic retrieval of stored data.

Smart+

	SMART+ 85	SMART+ 55
Software features and Performance		
Software platform	Stark	
AI hw accelerator	Up to 2 hardware accelerators	
Lane Detected	Up to 3 lanes	Up to 2 lanes
Working Distance	Up to 40m - *115 ft*	
Detection	>99.5%	
Reading	Up to 98%	
OCR	Up to 3 ANPR (ALPR) engines on board	
Third party OCR	Optional*	
Classification	Optional*	
Vehicle Color	Optional*	
Vehicle Maker	Optional*	
Vehicle Model	Optional*	
Video Streaming	Color video streaming via standard RTSP protocol (*)	
AES256	Yes	
SHA2	Yes	
Image Compression	JPG	
Streaming Profile	H.264, H.265	
Configuration		
Web Server	Installation and configuration with on board Web Application	
Integration	Support for HTTP REST API	
Date and Hour	Synchronization via NTP protocol or optional GPS	
Software Update	Upgrading via Web Application and integration protocols	
Data Transmission		
Output Action Types	HTTP, HTTPS, FTP, SFTP, TCP RAW, Serial Communication, Local Storage	
Message formats	Fully customizable message formats including JSON, XML, custom string	
Configuration	Configurable events/actions and metadata	
Serial Port	Yes, RS485 full duplex	
Digital output event	Yes	
FTP Server	Yes, access to storage partition	
Op. Mode		
Autotrigger	Self-triggering based on AI image analysis on multiple lanes, even without plates	
Trigger mode	Image capture and processing triggered by Ethernet or digital signal	

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System		
ANPR (ALPR) camera	8 Megapixels Grayscale	5 Megapixels Grayscale or 5 Megapixels Color (Color Version)
Context camera	5 Megapixels Color	
Illuminator	12 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	Optional, with Linux container	
Digital I/O	1 Optoisolated input - 1 Relay Output – 2 Strobe output	
IP Protection	IP68	
Ethernet	GigaBit Ethernet 10/100/1000	
Storage	uSD up to 128 GB	
Internal SSD	Optional up to 1TB	
GPS	Optional	
LTE	Optional	
WiFi	Yes	
PSE	Optional	
Technical Data		
Operating & Storage Temperature	From -40° to +60° C - *From -40° to +140° F*	
Operating & Storage Humidity	Up to 95% non-condensing	
Dimensions	290 x 127 x 235 mm - *11.4 x 5.0 x 9.3 in* (excluding antenna and connectors)	
Weight	6,5 Kg - *14.3lbs*	
Power supply voltage	24 Vdc	
Power consumption (typical)	40W (standard config), 50W (full config)	
Power consumption (maximum)	82W	

Part Numbers

Smart+		Smart+ 85	
F02310-000	SMART+ 50	F02322-000	SMART+ 55
F02311-000	SMART+ 80	F02323-000	SMART+ 85

Smart+ Color		Smart+ 55	
F02310-100	SMART+ 50 COLOR	F02322-100	SMART+ 55 COLOR