



Smart +

- Smart+ is **STARK** compatible. 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 multiple 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+ has the best-in-class AI accelerator that can dramatically improve the AI algorithm performance, running more applications simultaneously (including up to 3 OCR on board)
- 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
- The camera can be easily integrated and connected to external devices using REST API interface, making interaction with external classifiers (laser-scanner, 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



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Smart +

	SMART+ (HD)	SMART+ (2HD)
Software features and Performance		
Software platform	Stark	
AI hw accelerator	Up to 2 hardware accelerators	
Lane Detected	Up to 2 with 5 Mpx sensor Up to 3 with 8 Mpx sensor	
Max Vehicle Speed	Up to 320 km/h - 198 mph depending on layout	
Working Distance	Up to 35m - 115 ft	
Detection	>99.5%	
Reading	Up to 95%	
OCR	Up to 3 ANPR (ALPR) engines on board	
Third party OCR	Optional	
Classification	No	Optional
Vehicle Color	No	Optional
Vehicle Maker	No	Optional
Vehicle Model	No	Optional
Video Streaming	No	Color video streaming via standard RTSP protocol
AES256	Yes	
SHA2	Yes	
Image Compression	JPG	
Streaming Profile	No	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	

	SMART+ (HD)	SMART+ (2HD)
System		
ANPR (ALPR) camera	5 or 8 Megapixels Grayscale or 5 Megapixels Color (Color Version)	
Context camera	No	3 or 5 Megapixels Color
Illuminator	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	Optional	
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 x 9.25 in	
Weight	6,5 Kg - 14.3lbs	
Power supply voltage	24 Vdc	
Power consumption (typical)	40W (standard config), 50W (full config)	
Power consumption (maximum)	85W	
Average power consumption	50 W	

Part Numbers

Smart+ HD		
F02310-000	SMART+ 50	MONO - 5Mpx
F02311-000	SMART+ 80	MONO - 8Mpx
Smart+ HD COLOR		
F02310-100	SMART+ 50 COLOR	COLOR - 5Mpx
Smart+ 2HD		
F02320-000	SMART+ 53	MONO - 5Mpx / COLOR - 3Mpx
F02322-000	SMART+ 55	MONO - 5Mpx / COLOR - 5Mpx
F02323-000	SMART+ 85	MONO - 8Mpx / COLOR - 3Mpx
Smart+ 2HD COLOR		
F02320-100	SMART+ 53 COLOR	COLOR - 5Mpx / COLOR - 3Mpx
F02322-100	SMART+ 55 COLOR	COLOR - 5Mpx / COLOR - 5Mpx