



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



FREE FLOW | TOLLING | SECURITY

Smart+

| | SMART+ |
|--|---|
| 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 |
| Working Distance | Up to 35m - 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 |

| | SMART+ |
|---------------------------------|---|
| System | |
| ANPR (ALPR) camera | 5 or 8 Megapixels Grayscale or 5 Megapixels Color (Color Version) |
| Context camera | 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 |

Also available in single channel version (OCR)

* Functionality available only in the dual channel version (OCR + context)