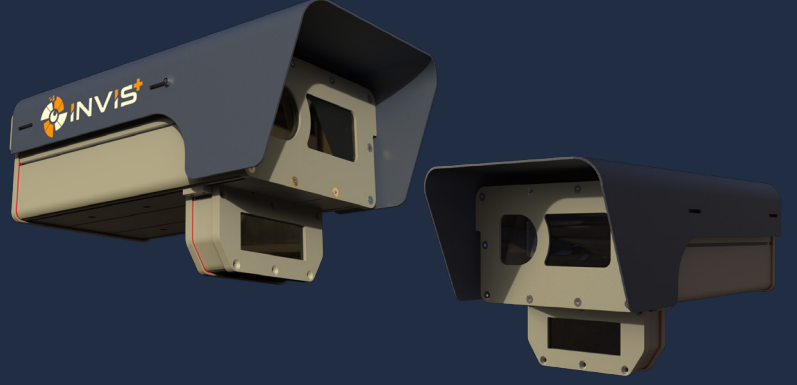




PRODUCT DATA SHEET

AEROS II GD

DUAL-VISION ADVANCED ANPR



AEROS II GD is a high-performance dual-camera ANPR and vehicle analytics platform designed for advanced tolling, enforcement and ITS applications where image quality, processing capability and operational reliability are critical. Built around a powerful 8-core processing platform with up to 100 TOPS of AI computing performance, AEROS II GD provides the processing capacity required for advanced ANPR, image analysis and intelligent edge applications directly within the camera. AEROS II GD integrates two dedicated 5 MP imaging channels within a single industrial housing. A 5 MP monochrome Global Shutter camera is optimized specifically for license plate acquisition, providing sharp, distortion-free plate images at high vehicle speeds, while a separate 5 MP color overview camera captures detailed full-color vehicle images for overview and visual analytics.

In addition to onboard ANPR, optional AI analytics enable vehicle color and vehicle model recognition, providing richer vehicle identification data when required by the application. The integrated IR illumination system provides 80 W pulsed and 6 W continuous illumination, while synchronized IR flash support enables precisely controlled image capture under demanding low-light and nighttime conditions.

Advanced monitoring functions continuously supervise camera position, image quality and system health, while configurable triggering, image-set management and secure communication interfaces simplify integration with modern tolling and enforcement platforms.

AEROS II GD — dual-camera imaging and AI-powered vehicle intelligence at the edge.

KEY SPECIFICATIONS

- Up to 100 TOPS AI Processing Performance
- 8-Core High-Performance Processing Platform
- Dual 5 MP Camera Architecture
- 5 MP Monochrome Global Shutter Camera for ANPR
- 5 MP Color Overview Camera
- Up to 60 FPS Image Capture
- Advanced Onboard ANPR Intelligence
- Optional Vehicle Color Recognition
- Optional Vehicle Model Recognition
- Integrated IR Illuminator: 80 W Pulsed / 6 W Continuous
- Synchronized IR Flash Support
- Configurable Trigger & Image Capture
- Camera Position & Image Quality Monitoring
- Secure Push/Pull Data Interface
- Industrial-Grade Design

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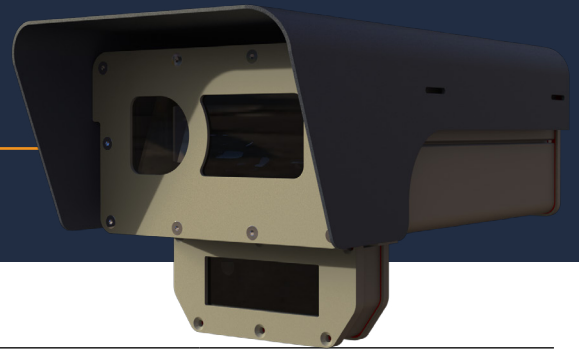
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AEROS II GD SPECIFICATION

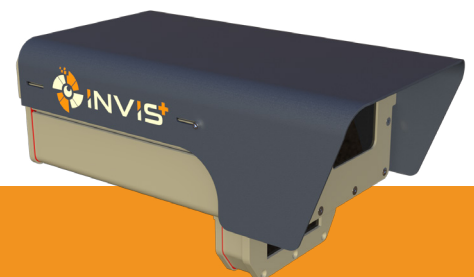
DUAL-VISION ADVANCED ANPR



Processing Platform	High-performance 8-core embedded processing platform
AI Processing Performance	Up to 100 TOPS
ANPR Engine	Embedded ANPR / ALPR engine onboard
Camera Architecture	Dual 5 MP camera architecture in a single industrial housing
ANPR Camera	5 MP monochrome Global Shutter camera, optimized for license plate capture
Overview Camera	5 MP color camera for vehicle overview imaging and visual analytics
Capture Rate	Up to 60 FPS, configurable
Vehicle Color Recognition	Optional onboard AI-based vehicle color recognition
Vehicle Model Recognition	Optional onboard AI-based vehicle model recognition
Day / Night Operation	Color overview imaging with dedicated IR-optimized monochrome ANPR imaging
Integrated Illuminator	80 W pulsed / 6 W continuous IR illumination
IR Wavelength	850 nm
Flash Synchronization	Synchronized internal / external IR flash operation
Max. Vehicle Speed	Up to 220 km/h
Working Distance	Up to 12 m
Vehicle Detection	>99%*
ANPR Reading	>98%*
Image Compression	JPEG
ANPR Output	Plate number / OCR result
Jurisdiction Recognition	State / region / issuing jurisdiction recognition
Plate Type Recognition	Standard and configurable specialty plate types
Confidence Reporting	Per-character and full-plate confidence levels
Jurisdiction Confidence	Confidence level for jurisdiction result
Plate Type Confidence	Confidence level for plate-type result
Capture Modes	Free Running / Triggered
Trigger Interface	TCP/IP and Digital I/O
Pre/Post Trigger Capture	Configurable number of pre-trigger and post-trigger images
Image Set Interface	Configurable Push or Pull image-set transfer
Remote Performance Monitoring	Capture and ALPR performance monitoring without interrupting live operation
Camera Position Monitoring	Position / motion monitoring for camera displacement detection
Image Quality Monitoring	Automatic dirty or blocked lens detection

Health Monitoring	Configurable health and maintenance reporting
Web Server	Onboard web-based installation, configuration and monitoring
TCP/IP Interface	Configuration, monitoring and data communication
Time Synchronization	NTP / IEEE 1588
FTP	FTP client for remote data transmission; multiple servers supported
Secure Communication	Selectable secure interface protocols
Security	AES-256 / SHA-2
Standard Protocols	SNMP; NTCIP; MODBUS optional
Ethernet	Gigabit Ethernet 1000/100/10
Local Storage	Up to 256 GB + internal eMMC
Wi-Fi / 4G Modem	Optional
GPS Module	Optional
Operating System	Linux
Digital I/O	2 opto-isolated inputs / 2 relay outputs
Digital Bus	RS-485 optional
Lens	Motorized zoom and focus
Connectors	IP67 industrial connectors
IP Protection	IP66
Operating Temperature	-30°C to +60°C
Operating Humidity	Up to 95%, non-condensing
Power Supply	24 VDC
Power Consumption	30 W Typical

**Accuracy values follow the current AEROS specification and should be confirmed for the final AEROS II GD production model.*



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