



PRODUCT DATA SHEET

AEROS V1

THE POWER OF EMBEDDED INTELLIGENCE

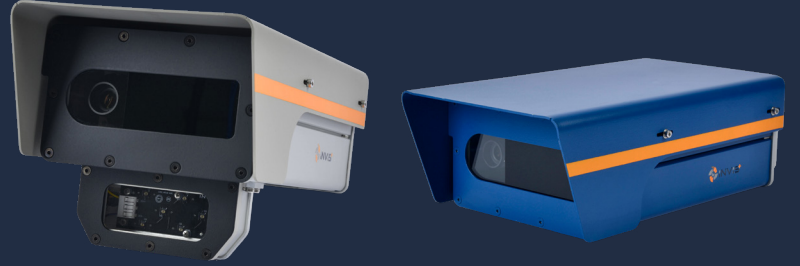
AEROS V1 is not just an ANPR camera — it is a fusion of embedded intelligence, advanced optics, and AI-powered image processing, designed specifically for modern tolling and enforcement systems.

AEROS is engineered for ETC and ITS applications where accuracy, stability, and long-term reliability are critical.

Equipped with a high-sensitivity 2 MP IR-optimized sensor and a powerful onboard processing platform, the system delivers crystal-clear images under all lighting conditions.

During daytime operation, AEROS captures rich, full-color images, while at night it produces high-contrast monochrome IR images that fully comply with global enforcement and tolling requirements. This consistent imaging quality forms the foundation for reliable, high-accuracy license plate recognition.

AEROS V1 — embedded intelligence and optical precision combined for next-generation ANPR systems.



KEY SPECIFICATIONS

- Embedded Onboard processing ANPR Intelligence
- 2 to 5 MP , IR-Optimized Image Sensor
- High-Speed Performance
- Lane Coverage Optimization
- Motorized Lens
- Day & Night Imaging Modes
- Industrial-Grade Design

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AEROS V1 SPECIFICATION

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Lane Detected	1-1.5 lane for 2MP and up to 2 lanes for 5MP model
Max Vehicle Speed	220 km/h
Working Distance	Up to 12 m
Detection	99%
Reading	>96%
OCR	ANPR (ALPR) engine on board
Capture rate	Up to 30 fps
AES256	Yes
SHA2	Yes
Compression	JPG
Web Server	Installation and configuration by Web Server on board (optional)
TCP/IP Server	Configuration and monitoring through TCP/IP protocol (SW provided)
Date and Hour	Synchronization via NTP protocol, IEEE1588
FTP	FTP Client to FTP Server mode for remote data transmission; Multiple IP servers addressable
Standard protocols	SNMP; NTCIP (coming soon); MODBUS(optional)
Mode of operation	Free Running :Continuous image capture and processing
	Triggered By TCP Protocol commands
	Triggered By Digital I/O commands
	Triggered By internal Lidar sensor
	Combination of Triggered and Free Flow ANPR
ANPR camera	2MP BW/Color (5MP optional)
Lidar Trigger sensor	include Point Laser Trigger sensor 1msecond refresh rate, 25meter detection range(optional)
Illuminator	6 high power LEDs (18W) , InfrRed @ 850 nm
Lenses	CS-Mount, D-Mount Motorized zoom and focus (8-20mm focal length)
Operating System	Linux Operating System
Digital i/o	2 Optoisolated input - 2 Relay Output
Digital bus	RS485(optional)
Connectors	IP67 Connectors
IP Protection	Waterproof IP66

Actuator	2 differents PWM heater(optional) and one high speed fan
Sensors	include 3 individual temprature sensor
Ethernet	GigaBit Ethernet 10/100/1000
Storage	USD up to 256 GB + 128GB internal emmc
WiFi or 4G modem	Yes (optional)
GPS module	Yes (optional)
Vandal proof Connector	Yes
Operating Temprature	From -30° to +60° C
Operating Humidity	Up to 95% non condensing
Weight	3 Kg
Power supply voltage	24 Vdc
Power consumption	45 W (max)



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