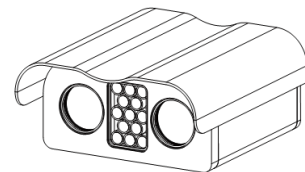
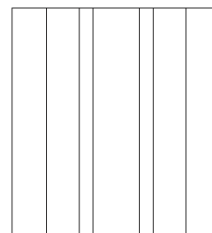
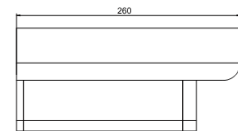
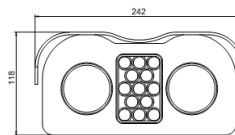


## PRODUCT DESCRIPTION

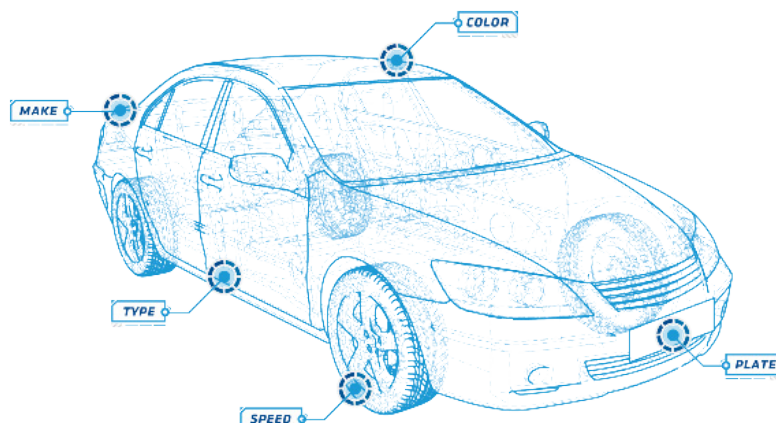
**NL GHOST AI** is an ALL-IN-ONE camera that processes **video analytics applied to vehicles** like LPR (License Plate Recognition), make, color and classification detection, and, furthermore, traffic infractions.

It includes an ultrasensitive **CMOS camera** that can be 3.2 or 5 MP for **license plate recognition** and another CMOS 1080P **color camera to record evidence**. Both have motorized varifocal lenses. **NL GHOST AI** also includes a several cores processor and an AI (Artificial intelligence) device for deep learning- based analytics. The housing protection is IP67.



## VEHICLE VIDEO ANALYTICS

**NL GHOST AI** can read license plates in **up to 2 lanes** of vehicles being driven at **until 180 Km/h**. It also can also estimate, for statistical purposes, the vehicle speed and detect vehicles' make, color, classification, lane and direction. **NL GHOST AI** can also recognize license plates of several countries at the same time.



## INFRACTION DETECTION

This unit can automatically detect traffic infractions such as:

- Vehicles running a red light.
- Vehicles that make turns in forbidden directions.
- Vehicles that are driven in buses or taxis lanes.
- Vehicles that have forbidden access to Low Emission Zones (Environmental traffic restrictions).
- Vehicles that aren't allowed to drive through a defined area like, for example, an historic city center.
- Vehicles circulating in the opposite direction to the allowed one.
- Vehicles parking in areas where they are not allowed.
- Vehicles that do not stop at a Stop sign.
- And many more.



Every detected infraction is registered with the images from the environment camera that can be used as an evidence.

The Metadata is accessible through an SDK for integration with third parties' systems or it can also be integrated to NEURAL SERVER suite for sanction proposal management.

The camera has local storage possibilities in case of connection loss with the central system.

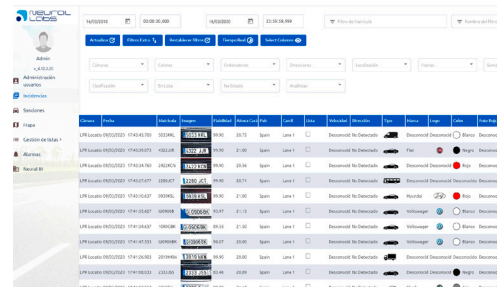
**NL GHOST AI** is delivered calibrated and tested, for its easy lateral or overhead installation.



## BACK OFFICE

NL GHOST AI can connect to NEURAL SERVER to:

- View all the recognitions.
- Perform historical searches.
- Display alarms.
- Validate and export penalties for traffic incidents.
- List management.
- User management.
- Monitoring the status of each NL GHOST OV unit.



## SPECIFICATIONS

NL GHOST AI recognizes **several license plates** in one field of vision and captures the **license plate and the surroundings** from the same unit.

- DUAL camera, one for license plate recognition and another for evidence.
- Compact design with waterproof IP67 rating.
- Open system x86 to offer a real time image analysis algorithm.
- CMOS Sensor: 3.2MP/ 5 MP Global Shutter for LPR.
- CMOS: 1080P for evidence image recording.
- Motorized iris, focus and zoom for an easy installation.
- Long life LED strobe lighting to capture vehicles at high speed and any time of the day.
- AI (Artificial intelligence) accelerator for Deep learning.
- Power supply: 20-28VDC.
- Rugged and compact full metal casing.
- SDK for third party systems integration.
- Time synchronism by NTP/SNTP or GPS.
- 2 years warranty.

## FEATURES

Dual-use equipment	LPR camera and surrounding camera in the same housing
Analyses	License plate recognition, classification, make, color, speed, lane and country
Detected countries	More than 70. Consult your sales agent
LPR Sensor	3.2MP/55.6fps mono CMOS IMX265, with 11-50mm 1/1.8" 3A lens (motorized zooming, focusing and iris control)
Surrounding camera	1080p/30fps color CMOS IMX385, with 11-50mm 1/1.8" 3A lens (motorized zooming, focusing and iris control)
AI accelerator	Embedded two Intel® Movidius™ MA2485 AI Accelerators
Lighting	13 LEDS NIR at 850 nm.
Infra red light maximum range	Optimized up to 30 meters.
Infra red light angle	20°
Processor	Embedded Quad-core ATOM processor
Protocols	RTSP, TCP/IP, NTP
Power supply	20-28VDC (24VDC recommended) / 5A max.
Consumption	25W general, 45W max.
Waterproof protection range	IP67
Operative temperature range	-40°C - +85°C
Product dimensions	242x118x270mm.
Product weight	6 kg.
Packaging dimensions	320x180x320mm.
Packaging gross weight	6.2 kg.

## ORDER INFORMATION

CODE	DESCRIPTION
NL-GHOST OV AI 256-2	Camera NL GHOST OV AI Dual E3950 3.2MP 8GB IACE
H FUENTE 24V 5A LPR	24 VCD source 5A Rail