

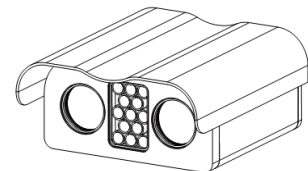
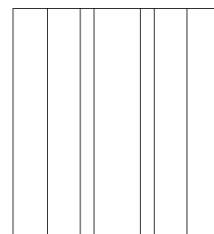
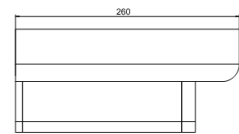
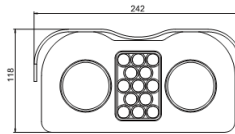
### PRODUCT DESCRIPTION

**NL GHOST AI** is an **ALL-IN-ONE** camera that processes video analytics applied to vehicles like **LPR (License Plate Recognition), make, color, speed, vehicle classification** (car, motorcycle, bus, truck and van) and, furthermore, detects **traffic infractions**.

It includes an ultrasensitive **CMOS camera** that can be 3.2, 5 or 8,9 MP for **license plate recognition** and another CMOS up to 5MP **color camera to record evidence**. Clients can select the cameras' sensor between several options according to their needs. Both cameras have motorized varifocal lenses.

**NL GHOST AI** is an Intel® RFP Ready solution that includes a several cores Intel® processor and two AI (Artificial intelligence) Intel® accelerators for deep learning- based analytics.

The housing protection is IP67 to dust and water.



### VEHICLE VIDEO ANALYTICS

**NL GHOST AI** can read license plates in **up to 2 lanes** of vehicles being driven at **up to 250km/h\***. It includes long-lasting LED strobe lights to capture vehicles at any time of the day.

It also can also estimate, for statistical purposes, the vehicle speed and detect vehicles' make, color, speed and vehicle classification: car, motorcycle, bus, truck and van, furthermore, traffic infractions. lane and direction. **NL GHOST AI** can also recognize license plates of several countries at the same time.

\*Depending on the model selected.

### 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.

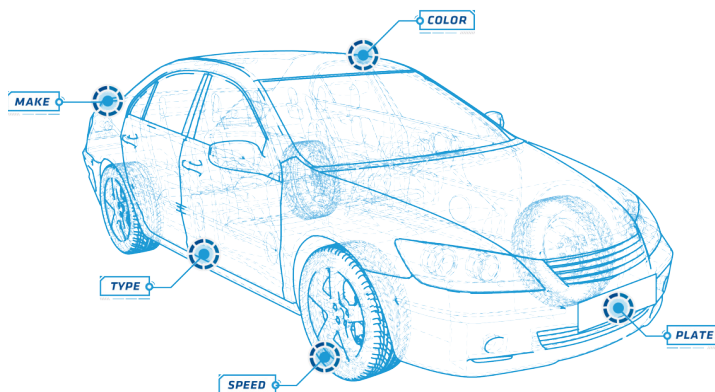


Every detected infraction is registered with videos from the environment camera that can be used as evidence.

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.

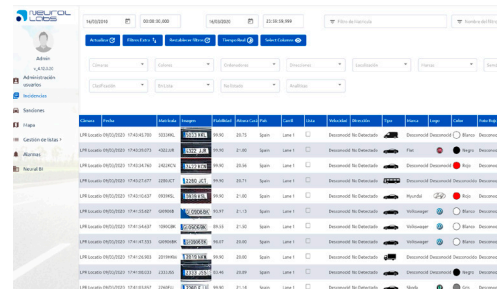
**NL GHOST AI** is delivered calibrated and tested, with an 8-meter power cable and a bracket for an easy installation at gantries or posts.



### 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 units.



### TECHNICAL SPECIFICATIONS

<b>Dual-use equipment</b>	LPR camera and evidence one in the same housing
<b>Analytics</b>	License Plate Recognition, make, color and classification detection, speed, lane, country and drive direction
<b>Detected countries</b>	More than 70. Ask your sales agent
<b>LPR Camera Sensor*</b>	<p>Option 1: 3.2MP 1/1.8" mono global shutter CMOS IMX265, with 11-50mm or 5.2-58.8mm lens (zoom, focus and iris control motorized)</p> <p>Option 2: 5MP 2/3" mono global shutter CMOS IMX264, with 11-50mm or 5.2-58.8mm lens (zoom, focus and iris control motorized)</p> <p>Option 3: 8.9MP 1" mono global shutter CMOS IMX267, with 11-50mm or 5.2-58.8mm lens (zoom, focus and iris control motorized)</p>
<b>Environment Camera Sensor*</b>	<p>Option 1: 1080p 1/2" color rolling shutter CMOS IMX385, with 11-50mm or 10-40mm lens (zoom, focus and iris control motorized)</p> <p>Option 2: 3.2 MP 1/1.8" color global shutter CMOS IMX265, with 11-50mm or 10-40mm lens (zoom, focus and iris control motorized)</p> <p>Option 3: 5 MP 2/3" color global shutter CMOS IMX264, with 11-50mm or 10-40mm lens (zoom, focus and iris control motorized)</p>

\*Clients can choose between the options according to their needs.

### FEATURES

<b>AI accelerator</b>	2 embedded Intel® Movidius™ MA2485 AI Accelerators
<b>Processor</b>	Embedded Quad-core ATOM processor
<b>Lighting</b>	Strobe IR 13 LEDS NIR at 850 nm.
<b>Infra red light maximum range</b>	Optimized up to 30 meters.
<b>Infra red light angle</b>	20°
<b>Max. recognition speed</b>	250 km/h*
<b>Protocols</b>	ONVIF, RTSP, TCP/IP, NTP
<b>Time calibration</b>	NTP/STNP or GPS
<b>Power supply</b>	22-28VDC or 40-53 VDC (48VDC recommended) 5A max.
<b>Consumption</b>	25W general, 45W max.
<b>Protection</b>	IP67
<b>Operative temperature range</b>	-40°C - +85°C
<b>Warranty</b>	3 years (extendible)
<b>Product dimensions</b>	242x118x270mm.
<b>Product weight</b>	6 kg.
<b>Packaging dimensions</b>	320x180x320mm.
<b>Packaging gross weight</b>	6.2 kg.

\*Depending on the model selected.

### ORDER INFORMATION

CODE	DESCRIPTION
NL-GHOST OV AI	Dual NL GHOST OV AI camera
H FUENTE 48V 5A LPR	48 VCD source 5A Rail