

PRODUCT DESCRIPTION

NL-GHOST OV is an all in one camera, able to process vehicle applied video analytics and to detect traffic incidents.

The solution uses one camera for video analytics with a high-resolution ultrasensitive CMOS sensor, and one ONVIF camera to record evidence for the detected infractions. It also has an internal Quad-core processor, to provide a superior performance processing up to two lanes and 150 km/h.



VEHICLE VIDEO ANALYTICS

NL-GHOST OV can process the following video analytics: license plate recognition, speed calculation, color detection, vehicle classification (motorcycle, car, SUV, truck, bus), make of the vehicle as well as direction, lane, and country.



AID - AUTOMATIC INCIDENT DETECTION

This unit can automatically detect traffic incidents performing analytics such as:

- Average speed calculation
- Red light control
- Photo Stop control
- Wrong turn control
- Opposite direction detection
- Forbidden stop in a prohibited area
- Control of restricted areas, such as pedestrian zones.
- Control of Low Emissions Zone (LEZ).
- Control of lanes only to taxis or buses.



The performance of these analytics is always supported by the images taken by the **ONVIF camera**, in order to record video evidence of the traffic incident.

NL GHOST OV processes internally both the video analytics and traffic incidents, delivering only the results, which saves bandwidth considerably. It also has an internal storage, which makes the unit tolerant to network drops.

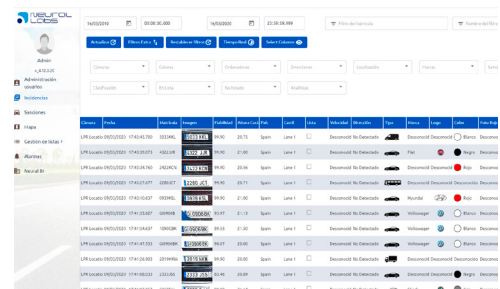
Each unit is delivered calibrated and tested, for its easy lateral or overhead installation.



BACK OFFICE

NL GHOST OV can connect to NEURAL VIEWER to:

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



SPECIFICATIONS

NL GHOST OV camera comes with a standard RJ45 socket port and 23 infra-red LED strobe lights to provide optimal illumination to the license plates at night. It has an extended temperature range from -40°C to +80°C.

The camera has an aluminum housing with a 4mm glass front. It includes a stainless-steel sun visor to protect the unit from adverse weather. Its top opening allows easy access for quickly wiring and optimize conveniently the start-up of the unit.

- Superior sensor: 1/1.8" CMOS Global Shutter 3.2 MPIX (2048x1536).
- Frame rate (fps, max): 55,6.
- Strobe lighting and electronic lighting control.
- Multiple reading of number plates from a single perspective.
- 48Vdc power supply.
- Standard 60GB Slot SD storage, expandable up to 2 TB.
- Fixed lens for viewing at a distance from 15 to 35 meters.
- Option to capture the license plate image as well as the surrounding scene with the same unit.
- 23 LEDs to illuminate up to two lanes (30 meter) at 840nm.
- Standard IP 66 assemble.
- Extended temperature range CPU.
- ONVIF color surroundings camera included.
- SDK for third party systems integration.
- Traffic incidents results sent via XML, JSON, SFTP.
- Time synchronism by NTP/SNTP or GPS.

FEATURES

Dual-use equipment	LPR camera and surrounding camera in the same housing.
Analyses	License plate recognition, classification, make, colour, speed, lane, country.
Detected countries	More than 70. Consult your sales agent.
LPR Sensor	1/1.8" CMOS Global Shutter 3.2 MPIX (2048x1536)
Surrounding camera	1/2.8" progressive CMOS (1920x1080) for the surrounding camera.
Lighting	23 LEDS IR at 850 nm.
Infra red light maximum range	Optimized up to 30 meters.
Infra red light angle	20° / 40°
Processor	Embedded Quad-core ATOM processor, with clock speed of 1.91 Ghz.
Protocols	ONVIF, GB/T28181, RTSP, TCP/IP, NTP
Power supply	48VDC
Consumption	16.8 W with peaks of 18.7 W
Protection range	IP66
Operative temperature range	-40°C - +80°C
Dimensions	364mm x 238mm x 154mm
Weight	7.5 kgs - 8.85 kgs in box with bracket.

OPTIONS

NL-GHOST-HEATER	Ghost camera heater
NL-GHOST-FUE48	48 V source for Ghost Dual
NL-GHOST-FUE24	24 V source for Ghost Standard
NL-GHOST-IREXT	Ghost External illuminator 48 LEDS
NL-GHOST-KIT-AI	AI Ghost Kit