

Vehicle Passenger Face Visualization and License Number Recognition System VPFLR

In many cases, when entering and exiting company premises, parks, properties, camps, the visual access control of the vehicle driver and, if applicable, the co-driver is required to ensure that the person designated is actually driving the vehicle. Furthermore, VPFLR systems are used in the law enforcement sector.

In order to visualize faces in a vehicle, disturbing reflections on the windshield (caused by reflections of the environment, clouds, street lighting, weather and influences of poor visibility) will be compensated.

The VPFLR system consists of a combination of IR illuminators with specific wavelengths, day/night video cameras with special lenses and filters, MULTIEYE 3 video recorder and control monitor. Cameras and illuminators are positioned as frontally as possible towards the vehicle. Driver face verification is carried out by the security guard or gatekeeper of the checkpoint by visual comparison of the stored identity card face image with the face image of the visualization system. The video system is also available with an automatic number plate recognition system (ANPR). In the case of license plate recognition, black/white lists can be stored for targeted access control.



Visualization of vehicle passengers in combination with automatic license plate recognition, at night



Driver visualization in flowing traffic without license plate recognition, during the day

A fully automatic driver face recognition can be realized with high expenditure and requires the use of pulsed laser illuminators and machine vision cameras. Due to the high investment costs, these systems are used almost exclusively in authority and military sectors.

The face visualization is done frontally through the vehicle's windshield. In vehicles with tinted windshields the visualization is limited and can be compensated by increasing the IR light. For vehicles of the luxury class with integrated IR reflection coating no face verification is possible.

VPFLR video systems are customer-specific and require planning details such as

- Number of lanes to be monitored
- Structural conditions for mounting video cameras and IR illuminators and distance to the checkpoint
- Place/country of installation (Commissioning and training is carried out on site by an artec factory technician)

Highlights

- Visualization of driver and front seat passenger through the windshield in combination with automatic recognition of the license plate (ANPR optional)
- Application areas: Driver's license for traffic offences, search measures, border controls, control of the entry/exit of commercial and industrial objects, logistics centres, airports, military, camps, endangered objects etc.
- Suppression of disturbing lights such as car headlights
- Operation in moving traffic or at checkpoints, day/night, 24/7
- Cascadable for several lanes
- Monitoring, recording, alarming and analysis functions
- Range: up to 35 m, longer ranges on request
- System consisting of D/N video cameras with special lens installed in weatherproof housing, several IR emitters, PoE switch, MULTIEYE network video recorder, monitor and accessories
- Commissioning support and instruction by artec factory technicians

Further information and prices on request: office@artec.de