optima ®
www.optima.tc

SECURITY SYSTEMS
Vehicle Recognition Systems

FLUSH MOUNT UVIS-100
UNDER VEHICLE INSPECTION SYSTEM

UVIS-100 Under Vehicle Inspection System

CE TÜV CERT
ISO 9001: 2015

General Description

OPTIMA UVIS-100 systems are designed with advanced security technology to scan, inspect and record underside of all vehicles. These systems are used especially for entrances where there is a threat of suicide vehicle attack with explosives or for the entrances that have very high security requirements like army, industrial, governmental and commercial buildings, sites, complexes etc.

UVIS-100 under vehicle inspection system provides users needed safe area, thereby capturing and monitoring underside image of the vehicles with a high-resolution auto digital area scanning camera. In addition, the system specifies suspicious objects after under vehicle scan process and takes them into a frame on the monitoring screen. The system is able to handle vehicle moving at speed from 0-50 km/hr and can perform bidirectional scanning from both sides. Thanks to system's advanced electronics; many type of security systems such as road bollards, road blockers, barriers etc. or plate recognition systems can be integrated to the system. Optima Plate Recognition Systems read and store vehicle plates with undercarriage image of UVIS system which provides retrieve and search to compare with previous images.

User interface of the software is very friendly and useful for operators. Web interface allows to monitor recorded informations from anywhere in the world.

STANDARD EQUIPMENTS COME WITH THE SYSTEM
• Loop Detector
• System Processing Unit
• Giga Ethernet Switch
• Power Led Light
• Industrial Area Scanning Camera
• Web Interface Operator Console

OPTIONAL FEATURES AND ACCESSORIES

Basic Product	UVIS-100	Scan and investigate under side of the vehicle
Option 1	ALPR 100+White/Black List Software	Recognition of the vehicle plate; compare current and previous images of underside of that particular vehicle. If a vehicle is added to "Black List"; barrier, road blocker whichever is integrated to the system will not let the vehicle enter when the plate added to black list is matched with recognized plate. In addition, operator is warned both audibly and visually. If a vehicle is added to "White List"; barrier, road blocker whichever is integrated to the system will let the vehicle enter when the plate added to white list is matched with recognized plate.
Option 2	ALPR 100+Vehicle Brand, Color & Type Recognition	Compare license plate **with** the color, type & brand of the vehicle with previous images.
Option 3	ALPR 100+Alarm Software	Recognition of the vehicle plate; compares and gives an alarm(both sound alarm and red frame work) in case software detects major image differences under the vehicle
Option 4	ALPR 100+Integration of the Govermental Systems Databases	Check the vehicle's plate then the data is checked instantly with the governmental systems security data-bases and give the result of the vehicle's law abiding status.
Option 5	Driver Image Capture Camera	Captures the image of the driver's face and displays on the screen for manual comparision by the operator.
Option 6	Suspect Objects Detections	In case of suspected objects, there will be red frame marks on the image.
Option 7	Back Office	Control of at least two under vehicle inspection system in different locations with single software.
Option 8	Red/Green Traffic Light	

SYSTEM SPECIFICATIONS

1) Industrial Area Scan Camera:
- Color Camera 5Mp
- Frame Rate per second 30 fps
- Image Data Interface Gigabit Ethernet (1000 Mbit/s)
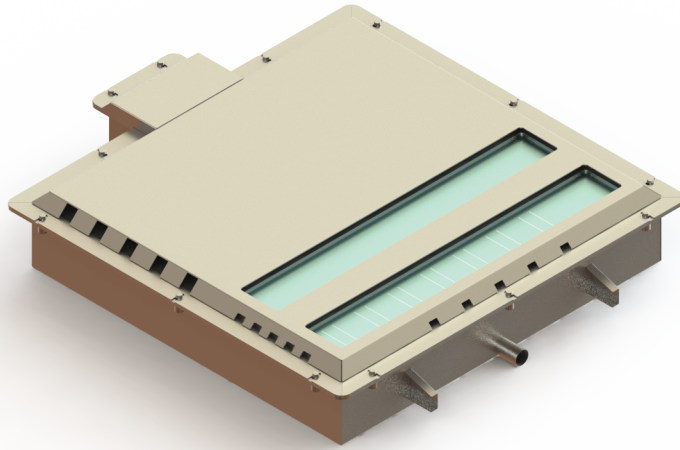
2) Camera Lens:
- Focal length f=5 mm
- Maximum diameter ratio is F= 1:2.8 ~16
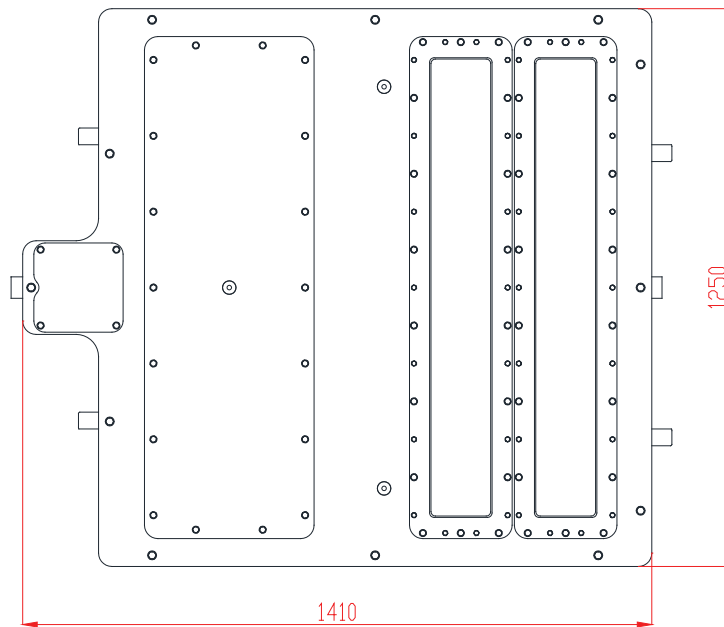
3) Sensor:
- Axis sensitivity 1.5 counts/ miligauss
- Sensing Technology is Passive 3-axis Magnetoresistive Transducer
- Remote TEACH input Impedance 12K ohms (low = < 2V dc)
- Environmental ratings Leak proof design is rated IEC IP69K; NEMA 6P
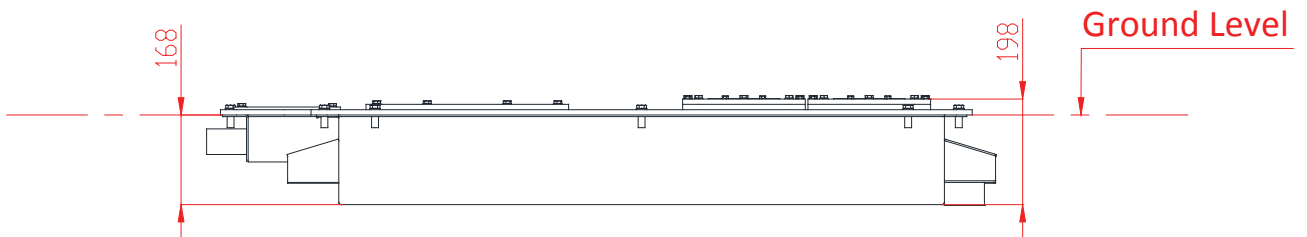
4) Processing Unit:
- CPU LGA1150 socket 4th generation Intel® Core™ i7
- System Memory 2 x 204-pin DDR3-1333/1600MHz SO-DIMM, up to 16GB
- Chipset Intel® Q87

PERSPECTIVE VIEW

TOP VIEW

1250

1410

SIDE VIEW

168

198

Ground Level