Geolux LPRCam

ALPR Camera

PRODUCT DESCRIPTION

The ALPR camera can capture vehicle and recognize vehicle number plate of various countries and regions (Mid-East, Africa, Asia-Pacific, America, Europe, Russian-speaking Countries). Camera is designed for ALPR (Automatic License Plate Recognition) for many different applications: border control, car park management, access management, toll enforcement… Processor engine and OCR software integrated in camera enable automatic real time recognition of vehicle license plates with automatic trigger upon vehicle passing control point in a way of taking an image of vehicle and recognizing license plates (auto-trigger), without additional sensors and loops. ALPR system enables country ID recognition based on the vehicle registration plate. Camera supports capture and recognition of vehicles both approaching and leaving. ALPR camera supports many security features: user authentication management (three level), user and password authorization, IP address filtering and HTTPS.

DETAILED SPECIFICATION

GENERAL

Camera type:	ALPR (Automatic License Plate Recognition) camera
Processing:	On board engine with integrated operating system and OCR software, designed for ALPR
Warranty:	1 year

CAMERA

Image Sensor:	1/1.8" Progressive Scan CMOS
Minimal Illumination:	Color: 0.0027 Lux @ (F1.4, AGC ON), 0 Lux with IR
Shutter Speed:	1 s to 1/100,000 s, software adjustable
Lens:	Varifocal: 3.8 mm to 13 mm, F1.4, horizontal field of view: 92° to 32°, motorized Iris/ Focus/ Zoom: Automatic; IR Optical filter
Recognition range:	3m to 15m
Day & Night mode:	Support
WDR:	120dB
Video Compression (output format-compressed video stream):	H.264/MPEG4/H.265
Video Bit Rate:	32Kbps to16 Mbps

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IMAGE PARAMETERS

Maximal Resolution:	1920 x 1080
Maximum Frame Rate:	50Hz: 50fps (1920 ×1080, 1280 × 960,1280 × 720)
Image Enhancement:	Back Light Compensation (BLC)/ Dynamic Noise Reduction (DNR)/ Defog/ Electronic Image Stabilization (EIS)
Image Setting:	Rotate mode, Saturation, Brightness, Contrast, Sharpness

ALPR PROCESSING

Accuracy:	Recognition rate > 95%
Vehicle Speed:	Support vehicle speed under 80km/h
Direction:	Support capture and recognition of vehicles both approaching and leaving
Trigger mode:	By video: Continuous video analysis with automatic vehicle detection By external interfaces: I/O, RS-485, API

INTERFACE

Communication Interface:	1x RJ45 10Mbs/100Mbs Ethernet port
Alarm IO:	1x input, 1x output
Serial Port:	2x RS -485 ports, 1x RS-232 port
Video Output:	1Vp-p composite output (75 Ω/BNC)
Network Storage:	Network: Support microSD/SDHC/ SDXC card
Protocols:	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6
Standard:	ONVIF (Profile S, Profile G), ISAPI

ELECTRICAL & MECHANICAL

Power Supply:	12 VDC ± 10%, terminal block; PoE (802.3at, class 4)
Illuminator:	Integrated IR LED illuminator, 850 nm IR wavelength, up to 50 meters, configurable mode
Heater:	Support
Protection (IP rating):	IP67
Impact protection:	Vandal proof IK10
Operating temperature:	-30°C to 60°C
Bracket:	Included, corrosion free metal-based material, bracket with internal cable channel, 3-axis adjustable
Pole mounting bracket adapter:	Included, 10kg load, diameter Ø130-170 mm, corrosion free metal-based material

CERTIFICATIONS

EN61000-3-2:2014
EN61000-3-3:2013
EN55032:2015
EN50130-4:2011+A1:2014

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