

ANPR LUMO

| license plate camera for vehicle access control

KEY FEATURES:

- automatic number plate reading
- range of action 1 - 6 meters (3 - 18 feet)
- deep learning algorithms
- world-wide countries available
- all-in-one license plate camera
- easy user configuration
- Power over Ethernet (PoE / PoE+)
- built-in Wiegand modes



**Preliminary*

The ANPR Lumo is an all-in-one license plate camera, including embedded software, analyzer and IR illuminator. With a read range of 1 - 6 meters, the robust camera ensures a smooth recognition of vehicles. Deep learning algorithms makes it possible to get high accuracy numbers in harsh conditions, and plates with different font formats.

Typical applications include vehicle access control, automatic toll collection, free flow applications at parking facilities or other situations in which it not desirable to issue RFID tags. If vehicles need to be granted access temporarily or incidentally, the license plate camera is the perfect solution.

Libraries

The ANPR Lumo camera covers a broad list of world-wide countries supporting a large range of IR-reflective license plates.

User-friendly configuration

The web based software enables easy configuration of the ANPR Lumo. It allows for configuration of the output messages for RS485, Wiegand or Ethernet. In addition, digital I/O, region of interest, network settings, etc. can be defined.

Stand-alone solution

The option to configure time-based access control lists in the web based software enables the camera to be used as a stand-alone solution.

Easy installation

A mounting bracket is standard included with the ANPR Lumo to ensure easy installation. With this bracket, the license plate camera can be mounted onto a wall or pole. It also enables adjusting of the camera at the desired angle to ensure reliable reading.

Communication interfaces

The ANPR Lumo supports the industry-standard communication interfaces: RS485, Wiegand and Ethernet. This enables seamless integration into any existing or new access control or parking system.

Wiegand interface

As most access control panels support Wiegand. The ANPR Lumo converts license plate numbers into Wiegand ID strings. The Wiegand option ensures easy and seamless integration into any existing or new access control panel.

Technical specifications	ANPR Access
Part number	9986138 ANPR Lumo
Dimensions	221 x 131 x 126 mm (8.7 x 5.2 x 5 in)
Color	RAL9006 chassis and RAL5011 cover
Weight	2.5 kg (5.5 lbs)
Protection class	IP65 (approx. NEMA4x)
Material	Cover ABS, Housing Die-casting ADC12
Operating temperature	-30... +55°C (-22... +140°F)
Storage temperature	-20 ... +55°C (-4... +131°F)
Relative humidity	10% ... 93% relative humidity, non-condensing
Power supply	24 VDC +10% linear supply recommended or POE
Power consumption	8 Watt
Read range	distance: 1 to 6 meters (3 to 19.5 ft.) width: Up to 3,5 meters (11.5 ft.)
Object speed	Freerun: Up to 30 km/h Triggered: Up to 250 km/h
Supported license plates	IR reflective number plates
CPU	Zynq® Dual Core ARM CortexTM-A9 with 2 x 866 MHz and integrated FPGA from Xilinx®
Camera optics	12 mm (½ inch)
Image sensing resolution	1/1.8" CMOS sensor, e2v, 1280 x 1024 pixel, SXGA
Camera illuminator	IR850 nm
Communication interfaces	1 line half duplex selectable baud rate, cable distance 1200 meter (3937 feet) 10/100 Mbps, TCP, UDP, FTP, HTTP, DHCP Wiegand 26 BIT sha1, Wiegand 64
Relay output	2 relay outputs
Input	2 digital inputs (opto-isolated)
Output	Read results from number plates and/or images taken by the camera
Cable specifications	Network (CAT5E) Power + IO: (LiCY) 8 x 2 x 0.14 mm ²
Cable length	Network: 5 meters (16.4 feet) Power + IO: 5 meters (16.4 feet)
Data message customization	String syntax fully configurable for integration with access control systems and third party software
Storage	10 GB
Standards	CE and UL
Included accessories	Pole/wall mounting kit included
Document version number	1.0