



Features

- High resolution sensor optimized for License Plate Recognition
- integrated pulsed infrared illumination system
- Provides up to 60 progressive scan images per second
- Continuous day/night operation, with high contrast images even in direct sunlight
- Anodized aluminum construction, rated IP66 (NEMA4) and certified eye safe

The HY190 is designed to provide high quality license plate images for use with Automated License Plate Recognition (ALPR) systems. High accuracy ALPR requires dependable images; the HY190 offers many built-in features to meet and exceed the required levels of performance.

Each unit provides an integral infrared LED light source eliminating the need for supplemental lighting and ensuring consistent image quality regardless of the time of day, oncoming headlights or weather conditions. The provided illumination is pulsed, enabling an effective range of up to 100 feet while also improving the life of the LEDs. The pulsed LED array is coupled with a variable table, multi-shutter arrangement allowing for a stream of images with each different contrast characteristics.

The HY 190, with its ability to provide up to 60 images per second, is the perfect choice for high speed applications. These devices are successfully deployed in open road tolling and travel time applications around the world. These camera/illuminators are also used in low-speed applications, such as access control and parking revenue management, and can be configured for triggered or non-triggered operation.

A solution using the HY 190 with INEX/ZAMIR InSignia ALPR software suite will provide high-performance license plate recognition meeting the demands presented by any requirement for real-time license plate recognition.

Model Number

HY190..... Base model

General

Maximum operating range.....100 feet (30 meters)
 Vehicle speed range..... >120 mph (190 kmh)
 Distance from HY to DPU.....1,500 ft (450 m) with proper coaxial cable

Operational

Illumination..... Pulsed array of 190 IR LEDs.
 Minimum Operating Luminance..... 0 Lux
 Shutter..... User selectable mutli-shutter, up to 4 settings
 Shutter range.....1/2000 to 1/100,000 seconds
 Synchronization..... Internal
 Video Output Level.....1.0Vp-p, 75 Ohms
 Trigger Input..... Dry contact closure on camera
 Communication Output..... RS422

Imager

Scanning System..... EIA: 525 TV lines (H), up to
 60 images/sec
 CCIR: 625 TV lines (H), up to
 50 images/sec

Image Device..... Interline transfer CCD
 Image Sensor..... 1/3"

Electrical

DC Voltage.....24 VDC +/- 10%, Class 2 low-voltage
 Power Consumption.....45 Watts RMS

Mechanical

Lens Mount..... CS Mount (varifocal lens provided)
 Dimensions (W x H x D).....8.3in x 5.5in x 19.1in
 (210mm x 140mm x 460 mm)
 Unit Weight.....8 lbs (3.6 Kg)
 Housing Construction and Finish..... Anodized 6063T5 aluminum
 Cover Construction and Finish..... Black Polyamide 12 with extra
 UV protection (Front and Back)
 Cable Entry..... Underside of camera
 Mounting Surface Mount..... 1/4" - 20 UNC hole pattern to match
 IRAM and most standard CCTV mounts

Environmental

Operating Temperature..... -4 F to 122 F (-20 C to 50 C)
 Storage Temperature..... -40 F to 152 F (-40 C to 70 C)
 Humidity..... 0% to 85% non-condensing
 Protection Level..... IP66

Regulatory

Emissions..... FCC Part 15 Class B, CE, Class B
 Certification..... CE
 Safety..... Class 1 LED Product

Connectors

Video..... BNC
 Input Power / Trigger / Comms..... Quick connect screw on connector
 Water tight glands available upon request

Data subject to change without notice.

