



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 HY Imager 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 HY 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 each with different contrast characteristics.

The HY, 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 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.

General

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

Operation

Illumination	Fixed array of 190 IR LEDs.
Min. Operating Luminance	0 Lux
Shutter	User selectable multi-shutter, up to 4 settings
Shutter range	1/2000 to 1/100,000 secs
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), 60 images/sec, CCIR: >550 TV lines (H), 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 19in (210mm x 140mm x 480mm)
Unit Weight	8 lbs (3.6 Kg)
Housing Construction and Finish	Anodized 6036T5 aluminum
Cover Construction and Finish	Black Polyamide 12 with extra UV protection (front and rear)
Cable Entry Mount	Underside of camera 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
Product Safety	CE
Eye Safety	Class 1 LED Product

Connectors and Cables

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

Data subject to change without notice

