



The DY Camera/Illuminator provides megapixel images of license plates for use with Automated License Plate Recognition (ALPR) systems in all lighting and weather conditions, day or night. High accuracy ALPR requires high quality images, and the DY offers many built-in features to *meet and exceed* the toughest performance requirements.

The DY builds on our success in providing industry-leading license plate recognition cameras and brings to market a family of digital, megapixel imagers providing wide field-of-view images suitable for the most demanding license plate recognition applications.

Features

- Megapixel GigE Vision™ image sensor optimized for License Plate Recognition
- Available in 3 models for lane width coverage greater than 12 ft (3.7 m)
- Integrated pulsed infrared LED illumination system
- Performs equally well with fast or slow moving traffic
- Provides up to 50 images per second
- Continuous day/night operation, with high contrast images even in direct sunlight

The DY incorporates an integral infrared LED light source using our proven DynaCapture™ pulsed illumination technology. The result is a consistently high quality stream of images with varying contrast characteristics, giving an effective operating range of up to 100 feet (30 m) regardless of the time of day, oncoming headlights or weather conditions. And our integrated light source eliminates the need for external supplementary lighting.

The DY, with its ability to provide over 50 images per second, is the perfect choice for high speed applications. Our technology has been successfully deployed in open road tolling and travel time applications around the world. The DY is also suitable for low speed applications, such as access control and parking revenue management.

General

Max. operating range -----	100 ft (30 m)
Vehicle speed range -----	> 120 mph (190 km/h)
Distance HY to DPU -----	300 ft (100 m) with CAT5e cable

Operation

Illumination -----	Fixed array of 180 IR LEDs
Min. Operating Luminance -----	0 Lux
Exposure / illumination -----	User selectable multi-exposure sequence up to 8 settings
Exposure / illumination range -----	20 to 1000 μ sec
Synchronization -----	Internal or external
Video Output -----	Raw BMP
Trigger Input -----	Dry contact closure on camera

Imager

Image Device -----	CCD
Image Sensor -----	1/4" 0.4MP (752x480) 1/3" 1.24MP (1280x960) 1/2" 2.0MP (1600x1220)
Frame Rate -----	User controllable, up to 50 images per second

Electrical

DC Voltage -----	24 VDC +/- 10%, Class 2 low-voltage 24VAC +/- 5%, Class 2 low-voltage
Power Consumption -----	20 Watts RMS

Mechanical

Lens Mount -----	CS Mount (varifocal lens provided with 0.4 and 1.2 MP cameras)
Dimensions (W x H x D) ----	8.3in x 5.5in x 18.1in (210mm x 140mm x 460mm)
Unit Weight -----	8 lbs (3.6 kg)
Housing Construction and Finish -----	Anodized 6036T5 aluminum
End Cap 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 -----	-30° F to 140° F (-34° C to 60° C)
Storage Temperature -----	-40° F to 152° F (-40° C to 70° C)
Humidity -----	0% to 100% 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 -----	RJ45
Input Power/ Trigger/Comms -----	Quick connect screw on connector Water tight glands available upon request

Data subject to change without notice

