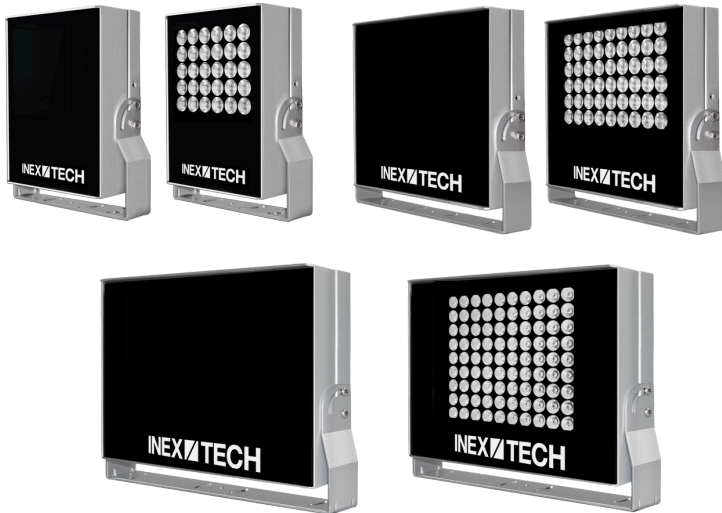# IZS Datasheet

Strobe Illuminator Series

Rev. C

Key Features and Benefits

- ✓ Designed for ITS and Tolling Applications

- ✓ Smart lighting technology - for optimum performance

- ✓ Wide temperature range - operating from -13°F to 140°F (-25°C to 60°C)

- ✓ IP66 ingress protection against extreme moisture

- ✓ NDAA Section 889 compliant for our national security

FC CE ✓RoHS

Specifications

Item		Specification
LED Illumination	Type	High power LEDs
	Flash Activation	Activated by strobe input (3.3 - 24 VDC, opto-isolated)
	Wavelength (WVLN)	- IR = Infrared - DR = Deep Red - CL = Cool White (4000K) - WL = Warm White (3000K)
	Number of LEDs (N)	1: 30 LEDs 2: 60 LEDs 3: 90 LEDs
	Beam Angle (HxV), degrees	- IZSN-WVLN-10: H10xV10 - IZSN-WVLN-20: H20xV20 - IZSN-WVLN-30: H30xV30 - IZSN-WVLN-H40: H40xV15 - IZSN-WVLN-60: H60xV60 - IZS2-IR-H120: H120xV20
Environmental	Ingress Protection	IP66
	Operating Temperature	-13°F to 140°F (-25°C to 60°C)
	Humidity	0% to 90% RH

Item		Specification
Certifications	EMC	FCC Class B/CE
	RoHS	RoHS
	Eye Safety	IEC62471: • IR wavelength models: Group 2 • DR wavelength models: Group 1 • CL wavelength models: Group 1
	NDAA	NDAA Section 889 compliant
Physical	Dimensions (W x H x D)*	• IZS1: 7.2 x 9.8 x 3.6 in (183 x 250 x 91 mm) • IZS2: 11.7 x 10.7 x 3.6 in (296 x 271 x 91 mm) • IZS3: 14.5 x 11.4 x 4.2 in (368 x 290 x 107 mm)
	Unit Weight*	• IZS1: 4.2 lbs (1.9 kg) • IZS2: 6.8 lbs (3.1 kg) • IZS3: 10.1 lbs (4.6 kg)
	Material	Anodized Aluminum
	Color	Silver
Interface	Configuration Communication Protocol	RS485
	Connectors	Power - 2-pin male connector
		Signals - 6-pin male connector
	Strobe Input	3.3 - 24VDC, opto-isolated

Item		Specification
Power	Input Voltage	24 VDC**
	Power Consumption (measured with 0.5 ms pulse width; 24 VDC input)	<table><tr><th>Model</th><th>Frequency (Hz)</th><th>Power (Watts)</th></tr><tr><td>S1</td><td>60</td><td>25W</td></tr><tr><td>S1</td><td>30</td><td>13W</td></tr><tr><td>S2</td><td>60</td><td>50W</td></tr><tr><td>S2</td><td>30</td><td>25W</td></tr><tr><td>S3</td><td>60</td><td>72W</td></tr><tr><td>S3</td><td>30</td><td>36W</td></tr></table>
Accessories Included		2-axis outer pan/tilt adjustment bracket
		Power cable, 15 ft (4.6 m)
		Signals cable, 15 ft (4.6 m)
Accessories Available (depending on site requirements)	Power Cable	Power Cable for IZS Illuminator (IZCAB-SPWR) - different lengths
	Signals Cable	Signals Cable for IZS Illuminator (IZCAB-SSIG) - different lengths
	Mounting hardware (in package)	• Slotted steel bands with worm drive fasteners for 4" and 12" circular gantry mounting, 2 of each size • Gantry mounting bracket and screws
	Mounting hardware (packed separately)	Wall/pole/gantry mounting options
	Power Supply	Power Supply 24 VDC**

* Including outer pan/tilt adjustment bracket

** It is recommended to use an illuminator power supply separate from the camera's supply.

Ordering Information

Product***	Available Part Numbers****	Product Description
• IZS1 • IZS2 • IZS3	• IZSN-WVLN-10 • IZSN-WVLN-20 • IZSN-WVLN-30 • IZSN-WVLN-H40 • IZSN-WVLN-60 • IZS2-IR-H120	IZS Strobe Illuminator

*** All models come with a 15 ft cable set; different IZCAB-SPWR and IZCAB-SSIG cable lengths can be ordered
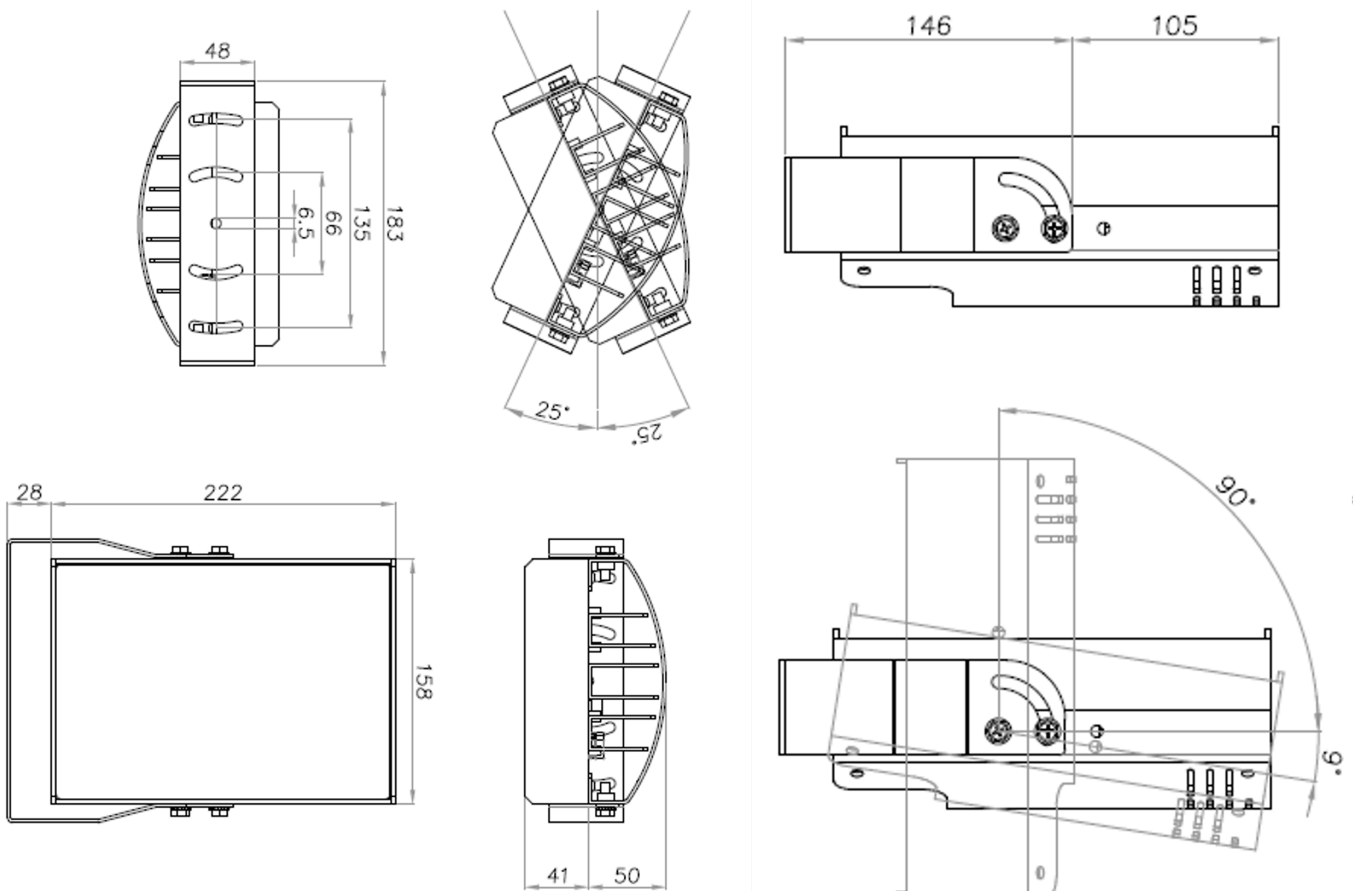
**** IZS[1/2/3]- (IR/DR/CL/WL)-10/20/30/H40/60/H120, where:

- N = 1/2/3 - number of LEDs: 1=30, 2=60, 3=90

- WVLN = Wavelength/type of LEDs:

  - IR - Infrared

  - DR - Deep Red

  - CL - Cool White (4000K)

  - WL - Warm White (3000K)

- 10/20/30/H40/60/H120 - LED beam angle, in degrees:

  - 10 = 10x10

  - 20 = 20x20

  - 30 = 30x30

  - H40 = H40xV15

  - 60 = 60x60

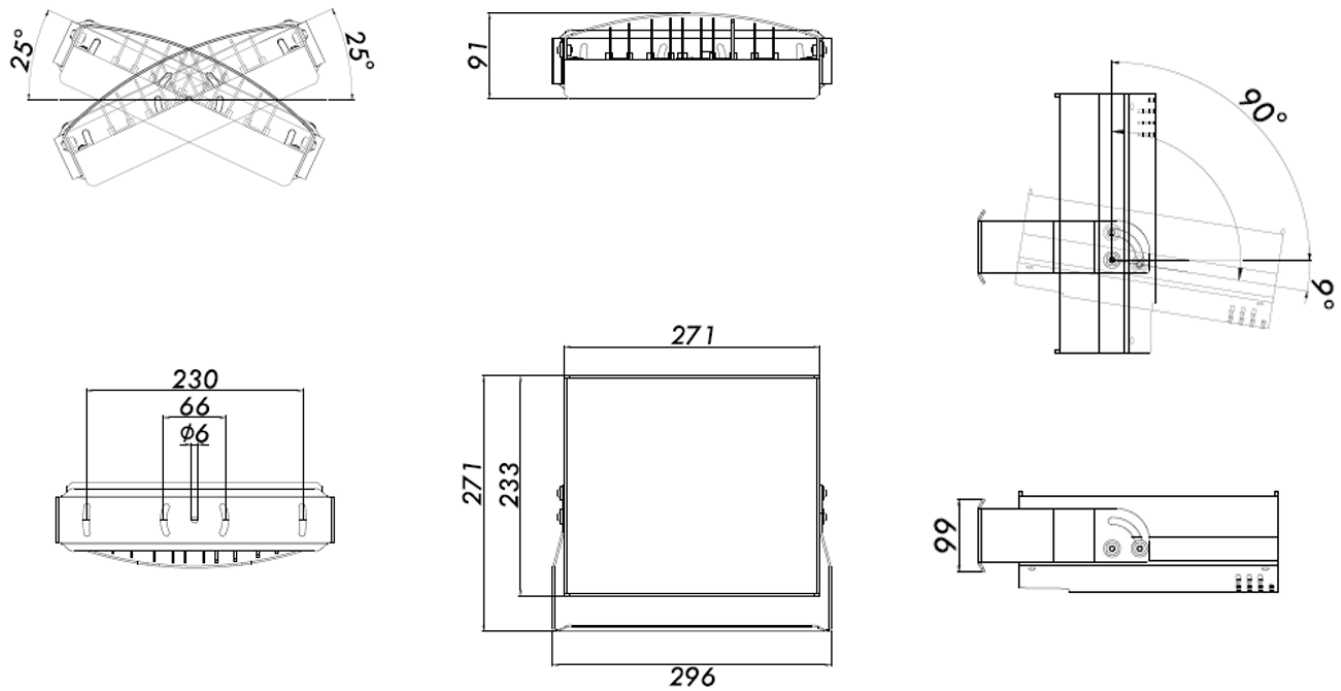 - H120 = H120xV20 (available as IZS2-IR-H120)

Standard Package Contents

- IZS Strobe Illuminator with outer pan/tilt adjustment bracket

- Power cable

- Signals cable

- Mounting hardware may be included in your package, or packed separately, depending on your site's requirements.
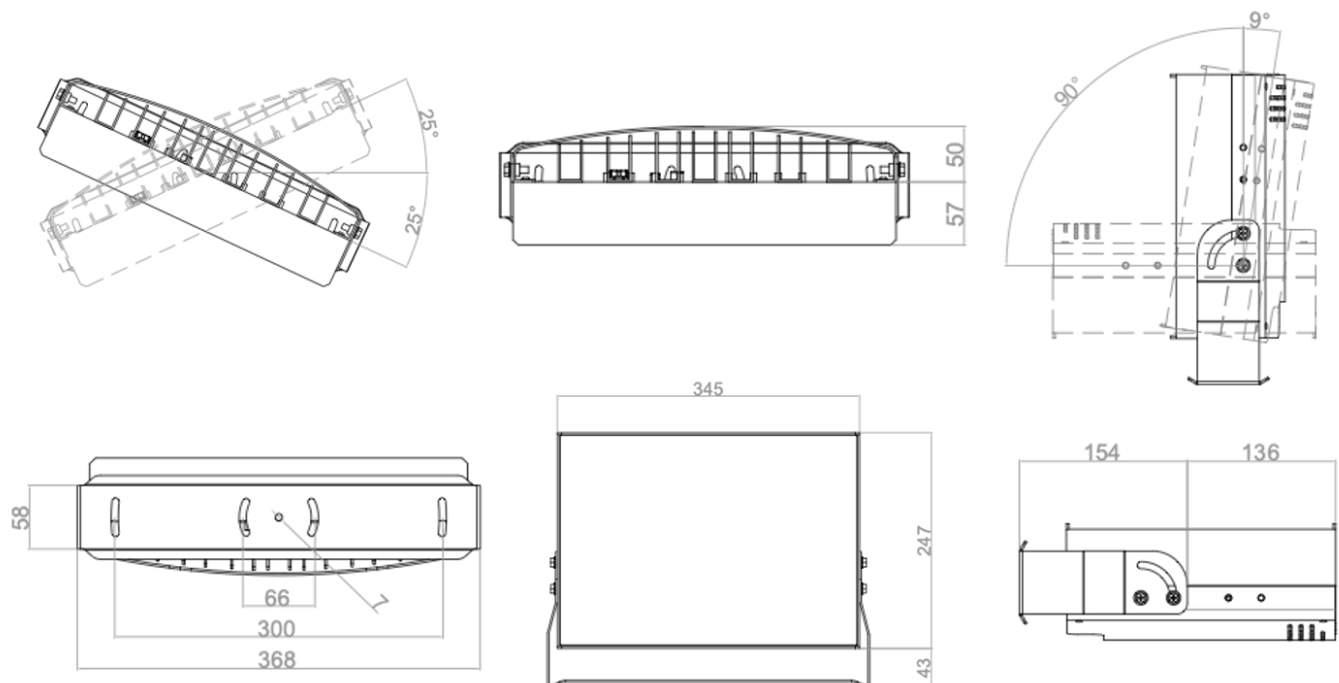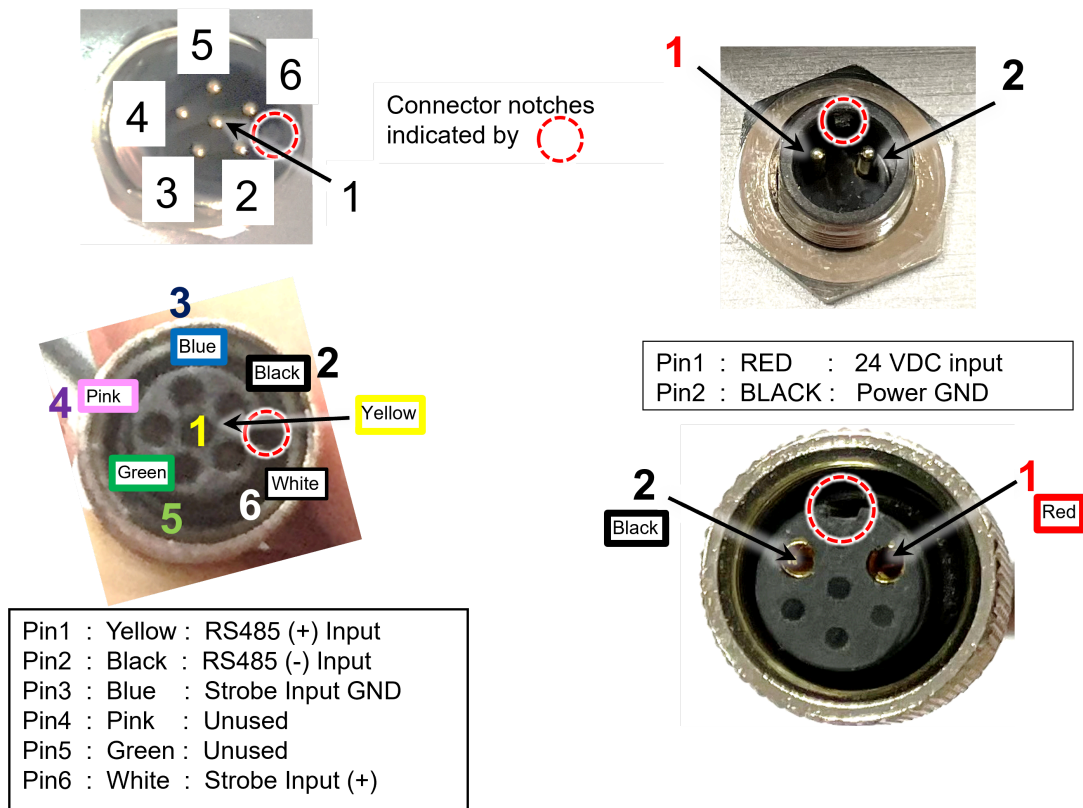
IZS1 Dimensions (mm)

IZS2 Dimensions (mm)

25°   25°

91

90°   9°

230
66
Ø6

271
271   233
296

99

IZS3 Dimensions (mm)

25°   25°

50
57

9°   90°

345

58
66   7
300
368

247
43

154   136

Connector Locations

Power/Signals Pinouts

Connector notches indicated by ⭕

Pin1 : RED : 24 VDC input
Pin2 : BLACK : Power GND

Pin1 : Yellow : RS485 (+) Input
Pin2 : Black : RS485 (-) Input
Pin3 : Blue : Strobe Input GND
Pin4 : Pink : Unused
Pin5 : Green : Unused
Pin6 : White : Strobe Input (+)

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Doc. No. IZS-REV-C-TDSHEET

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