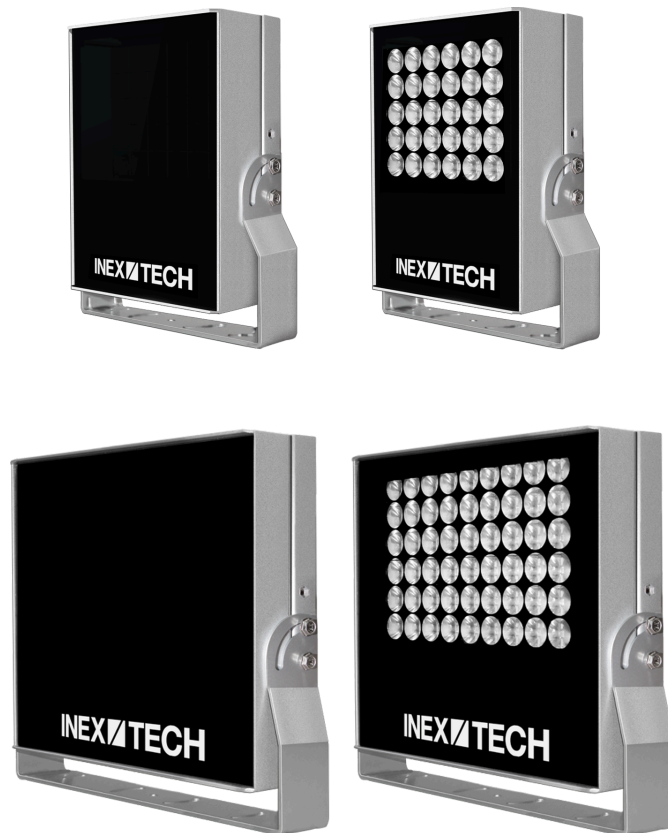# IZSVES Datasheet

Strobe Illuminator Series

Rev. F

Key Features and Benefits

✓ Designed for ITS and Tolling Applications

✓ Smart lighting technology - for optimum performance

✓ Works with VES All-in-one AI Camera Systems

✓ Single-cable and one power supply for easy installation and minimum infrastructure

✓ 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
	Beam Angle (HxV), degrees	- IZSVESN-WVLN-10: H10xV10 - IZSVESN-WVLN-20: H20xV20 - IZSVESN-WVLN-30: H30xV30 - IZSVESN-WVLN-H40: H40xV15 - IZSVESN-WVLN-60: H60xV60 - IZSVES2-IR-H120: H120xV20
Environmental	Ingress Protection	IP66
	Operating Temperature	-13°F to 140°F (-25°C to 60°C)
	Humidity	0% to 90% RH
Certifications	EMC	FCC Class B/CE
	RoHS	RoHS
	Eye Safety	IEC62471: - IR wavelength models: Group 2 - DR/CL wavelength models: Group 1
	NDAA	NDAA Section 889 compliant

Item		Specification
Physical	Dimensions (W x H x D)*	• IZSVES1: 7.2 x 9.8 x 3.6 in (183 x 250 x 91 mm) • IZSVES2: 11.7 x 10.7 x 3.6 in (296 x 271 x 91 mm)
	Unit Weight*	• IZSVES1: 4.2 lbs (1.9 kg) • IZSVES2: 6.8 lbs (3.1 kg)
	Material	Anodized Aluminum
	Color	Silver
Interface	Connector	Power/Strobe/Configuration: Waterproof outdoor 6+PE-pin male connector
	Configuration Communication Protocol	RS485
	Strobe Input	3.3 - 24VDC, opto-isolated
Power	Input Voltage	24 VDC**
	Power Consumption (measured with 0.5 ms pulse width; 24 VDC input)	See table below

Model	Frequency (Hz)	Power (Watts)
SVES1	60	25W
SVES1	30	13W
SVES2	60	50W
SVES2	30	25W

Accessories Included	
	2-axis outer pan/tilt adjustment bracket
	Illuminator cable, 15 ft (4.6 m)

Item		Specification
Accessories Available (depending on site requirements)	Illuminator Cable	Illuminator Cable for IZSVES Illuminator (<u>IZCAB-SVES</u>) - 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

Ordering Information

Product***	Available Part Numbers****	Product Description
• IZSVES1 • IZSVES2	• IZSVESN-WVLN-10 • IZSVESN-WVLN-20 • IZSVESN-WVLN-30 • IZSVESN-WVLN-H40 • IZSVESN-WVLN-60 • IZSVES2-IR-H120	IZSVES Strobe Illuminator

*** All models come with a 15 ft cable; different IZCAB-SVES cable lengths can be ordered

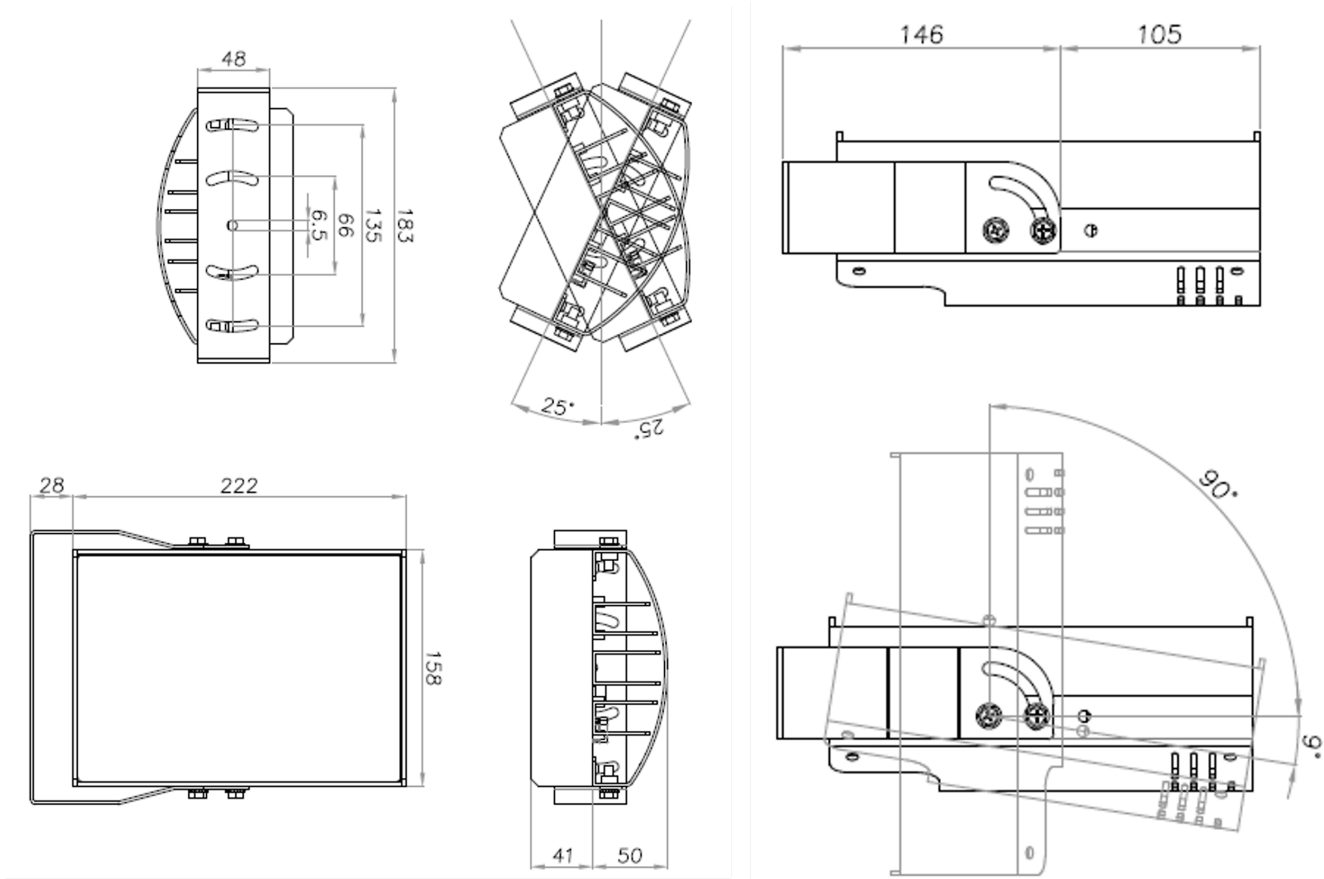**** IZSVES[1/2]- (IR/DR/CL/WL)-10/20/30/H40/60/H120, where:

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

- IZSVES Strobe Illuminator with outer pan/tilt adjustment bracket
- Illuminator cable

- Mounting hardware may be included in your package, or packed separately, depending on your site's requirements.
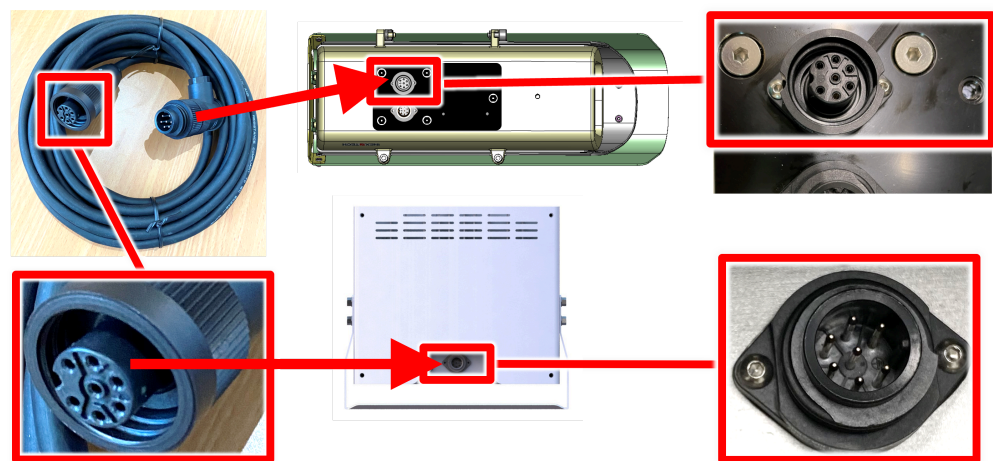
IZSVES1 Dimensions (mm)

IZSVES2 Dimensions (mm)
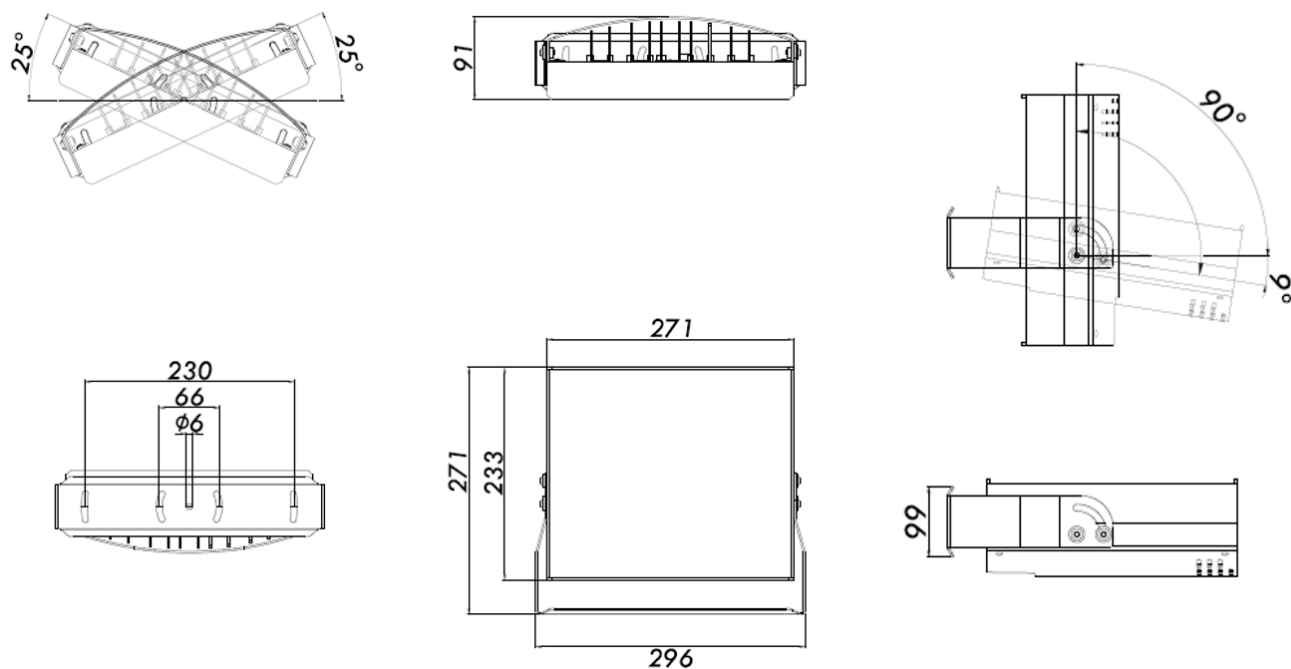
Cable Connections and Pinouts

Pin	Power/Signal	Wire Color
1	GND	Black
2	+V (24 VDC)	Red
3	RS485 (B-)	White/Orange
4	RS485 (A+)	Orange
5	Strobe (-)	White/Green
6	Strobe (+)	Green
⏚	Drain	Silver

To Illuminator (Female)   To Camera (Male)

Internal Wiring   Internal Wiring

Doc. No. IZSVES-REV-F-TDSHEET

This page was built using the Antora default UI.