IT-SS400LM-IRL

✓ *Array Zoom Laser Module*

Features

- Beam angle zooming electrically
- Illumination over 4000m range
- High reliability, lifetime up to 25000hrs
- Compact, easy to integrate
- RS232, RS422, RS485, TTL interface optional
- Negligible off-axis divergence,
- easy to collimate with camera lens
- Uniform beam intensity, speckle free
- Operating state memory
- CE certificate
- Predefining position
- Low heat, high efficiency

Applications

- Highway monitoring
- PTZ camera
- Harbor monitoring
- Forest fire prevention
- Boundary monitoring
- Traffic monitoring
- Military applications

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Description

This laser illuminator is high performance integrated with high quality fiber-coupled laser diode and excellent optics design, and outstanding circuit control with high efficiency. It has big beam angle zooming, which can match the field view angle of cameras. It also has friendly interfaces such as operating voltage, communication protocol and installation schematic. It can be widely used in high-speed dome, PTZ camera and traffic monitoring.

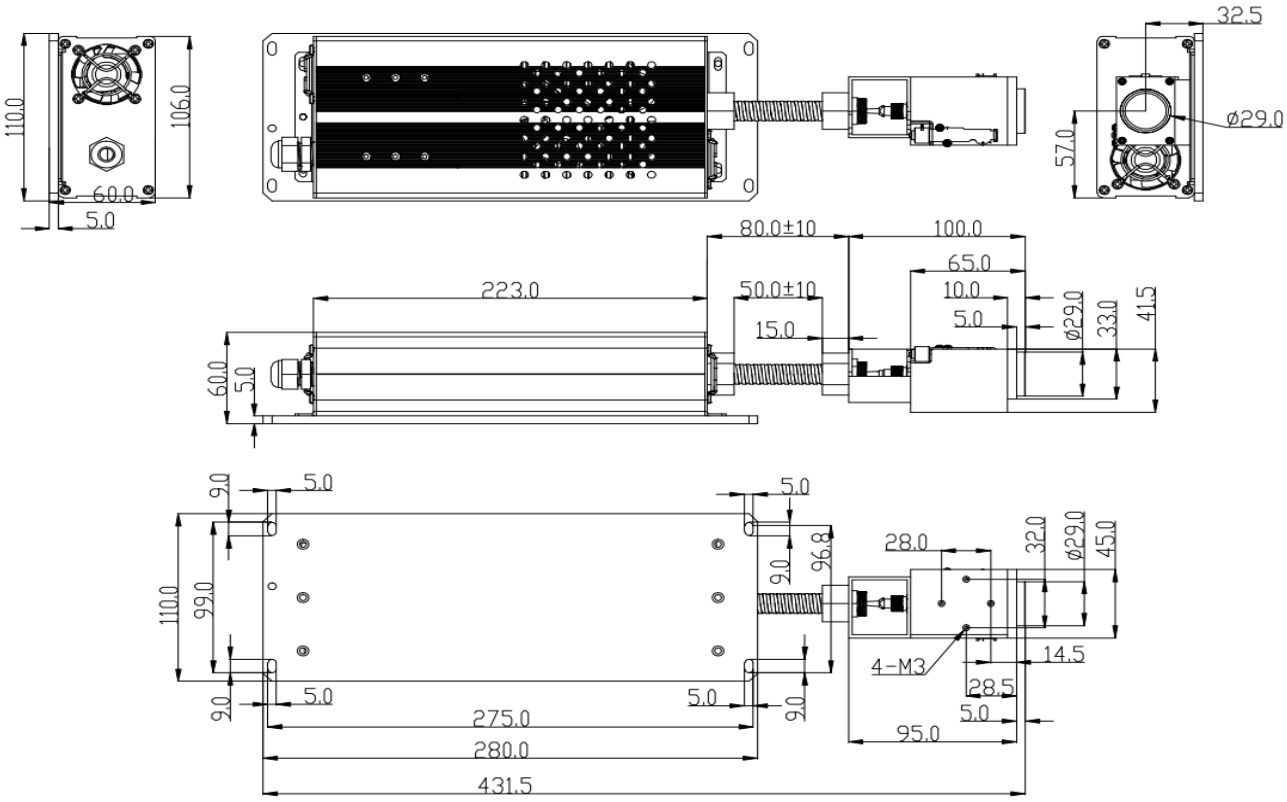
This illuminator is compatible with major lens and cameras, integrated with the protocols such as Pelco D. It is easy for users to implement the illuminator. Simultaneously, Position can be preset via serial port, users can call the instruction to operate conveniently in use.

As the optic head is separated from diode and circuit, it is very easy to collimate the laser lens and camera lens, which can make the tunable rack compact.

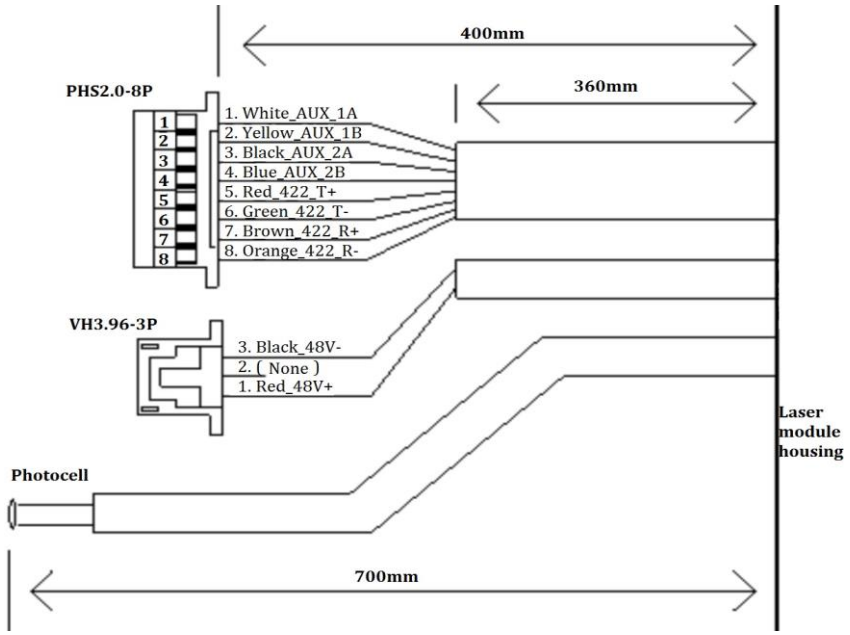
Specifications

Parameters	Typical values	Unit	Remarks
Model no.	**IT-SS400LM-IRL**		
Laser mode	Multi-mode	—	
Wavelength	808/915±10	nm	
Optical power	20	w	@exit
Spot shape	Circular		
Illuminating distance	5000	m	
Light spot	Uniform		
Fan angle	0.2-22(9xx); 0.3-22(808)	°	±0.2°
Operating voltage	DC12/24/48	V	24V AC optional
Operating current	≤7.7	A	
Operating mode	Continuous		
Lifetime	20000	hrs	
Operating temperature	-20- +50	°	
Storage temperature	-40- +85	°	
Power consumption	＜40	w	
Dimensions	280×110×70	mm	
Material	Alloy		
Surface color	Silver	-	
Laser classification	IV		
Control A/Tx	Yellow		
Control B/Rx	Blue		
Control cathode	White		
Power anode	Red		
Power cathode	Black		
Protocol interface	RS232; RS485; RS422,TTL		
Protocol	Pelco D		optional
Surface processing	Gush arenaceous silver anode oxidation		
Weight	1100	g	
Heat dissipation	Forced wind		

Mechanic Schematic



Electrical Interface (RS422)



Other Interfaces

Port	Functions		Cable serial no. and color	Length mm
PHS2.0-8P	Synchronization		1 white AUX_1A, 2 yellow AUX_1B	400
	Manual switch		3 black AUX_2A（GND）， 4 blue AUX_2B	
	1over4	TTL level	5 red, 6 green, 7 brown Representing Tx, Rx, GND in TTL, respectively	
		RS232	5 red, 6 green, 7 brown Representing Tx, Rx and GND in RS232, respectively	
		RS485	5 red, 6 green Representing A and B in RS485, respectively	
		RS422	5 red, 6 green, 7 brown, 8 orange, Representing A, B, Y,Z in RS422, respectively	
VH3.96-3P	Power supply		1 red--_DC48V anode 2 None 3 black--DC48V cathode	400
--	Photo sensor input		Separated two thin red and black wires	700

Laser Safety

The output power of this module is classified as class IV, one can refer to IEC 60825-1:1993《Laser Product Safety: Part 1:Devices classification, requirements and user's Manual》.

Applications