FLTT-850-5W-2000m-CAP
IR LASER ILLUMINATOR 850nm 5W 2000m

The IR laser illuminator FLTT-850-5W-2000m-CAP is a high-performance product with integrated high quality VCSEL chip and excellent optic design. It has a big dynamic beam angle zooming range, which can match the field view angle of cameras. It also has customer friendly interfaces for e.g. operating voltage, communication protocol and installation schematic. It can be widely used in video security surveillances, machining vision, gesture recognition, display control, laser medicine and military applications.

This illuminator is compatible with major lens and cameras, integrated with the protocols of Pelco D. It is easy for users to implement the illuminator. Simultaneously, position can be pre-set via serial port, and users can call the instruction to operate conveniently in use. Due to uniform power intensity of beam, users can obtain high quality video and easily recognize the features inside.

Features

- Electrical Beam Angle Zooming
- Illumination Range up to 2000m
- High Reliability, Lifetime up to 50000 hours
- Compact and Easy to Integrate
- RS232, RS485, TTL Interface
- Negligible Off-axis Divergence, Easy to Collimate with Camera Lens
- Uniform Beam Intensity, Speckle Free
- Operating State Memory
- CE Certified
- Predefined Position
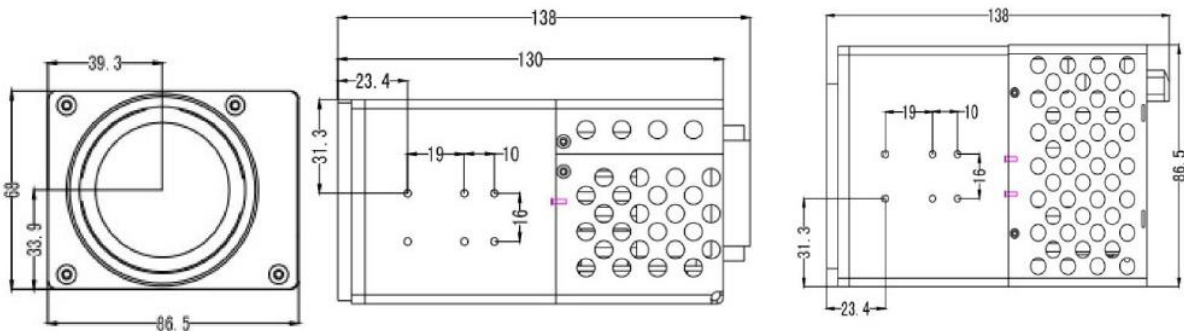- Low Heat Production, High Efficiency

Applications

- Security Surveillance
- Automobile Night Vision (ADAS)
- Machine Vision
- Gesture Recognition
- Display
- Medical Applications
- Military Applications

Specifications

Parameters	Min	Typ	Max	Unit
Wavelength	840	850	860	nm
Optical Power (cw) (@ exit)	-	5	-	W
Laser Mode	Multimode			
Illumination Distance	-	-	2000	m
Spot Shape	Circular (uniform)			
Fan Angle (Auto-zoom)	1.0	-	52	degree
Operating Voltage	-	12	-	V
Operating Current	-	1.9	-	A
Power Consumption	-	-	35	W
Operating / Storage Temperature	-40	-	+85	degree
Lifetime	50,000	-	-	hours
Dimensions	138 x 86 x 68 (LxWxH)			mm
Weight	-	700	-	g
Material	Aluminum Alloy (Black anodized)			
Laser Classification	Laser Class 2			
Interface Protocol	RS232; RS485; TTL (Pelco D Protocol)			
Cooling Method	Air Cooling			

PACKAGE SPECIFICATION

INTERFACES

Connection of Power Supply Line (6 PIN)
- Power Anode (+)
- Power Anode (+)
- Power Anode (+)
- Power Anode (-)
- Power Anode (-)
- Power Anode (-)

Connection of Control Line (12 PIN)
- Manual Zoom (-)
- Manual Zoom (+)
- (NC)
- (NC)
- Photosensor anode
- Photosensor cathode
- TTL-TXD
- TTL-RXD
- Forced laser switch anode
- Forced laser switch GND (RS232-GND)
- (RS485-B) (RS232-RX)
- (RS485-A) (RS232-TX)