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LUCID Vision Labs™ SENSaIZ SZP123S-001, Sony IMX500, 12.33MP, Color Camera

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SPECIFICATIONS

Spectrum:

Color

General

Type:

Color Camera

SZP123S-001	Model Number:
Lucid Vision Labs	Manufacturer:
SENSAIZ	Camera Series:
Physical & Mechanical Properties	
55 x 40 x 35 (excludes lens protrusion)	Dimensions (mm):
48	Weight (g):
Full	Housing:
Optical Properties	
4.35	Focal Length FL (mm):
Sensor	
1/2.3"	Sensor Format:
12.33	Resolution (Megapixels):
4,056 x 3,040	Pixels (H x V):
1.55 x 1.55	Pixel Size, H x V (µm):
Sony IMX500	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Rolling	Shutter Type:
Electrical	
3 (PoE+)	Power Consumption (W):
Hardware & Interface Connectivity	
100BASE-T RJ45	Connector:
Power over Ethernet (PoE+)	Power Supply:
Environmental & Durability Factors	
-10 to +55	Operating Temperature (°C):
-30 to +60	Storage Temperature (°C):
Regulatory Compliance	
View	Certificate of Conformance:

PRODUCT DETAILS

- 12.33 Megapixel Sony IMX500 Intelligent Vision CMOS Sensor
- Power Over Ethernet (PoE) for Easy Integration
- Compact 55 x 40 x 35 mm Form Factor
- Sony **ATRIOS** Software is Required for Use

LUCID Vision Labs™ SENSAIZ Intelligent Vision CMOS Camera integrates Sony's IMX500 sensor and ATRIOS software platform to migrate image processing and AI image analysis directly to the camera without the need for external processing or memory. Sony's IMX500 CMOS sensor is designed with a stacked pixel chip and logic chip to place AI capabilities directly on the sensor, greatly reducing processing time and increasing security. This intelligent vision sensor shifts many of the standard image processing steps from a cloud-based system onto the camera itself, capturing the information and meaning of an image and allowing for only the necessary data to be output. This provides lower latency, offline image processing, increased security, reduced power requirements, and lower cost. Sony's ATRIOS software platform provides an all-in-one place for device management, AI development, and system and cloud integration. LUCID Vision Labs™ SENSAIZ Intelligent Vision CMOS Camera features a built-in camera lens, lightweight and compact housing, and Ethernet PoE connection for simple system integration. This camera is ideal for a wide range of applications from security and manufacturing to automation and robotics.

NOTE: SENSAIZ cameras can only be used with Sony's **ATRIOS** software platform. ATRIOS software can be purchased directly through Sony. See the Technical Images tab for mounting instructions.

TECHNICAL INFORMATION

Step. 1
Pass cable through back case bracket

Important!

Use only "bootless" cable

Make sure LEDs are at the bottom

Top
↑
Proper Orientation
↓
Bottom

During installation and placement of the camera, do not hit or cause physical stress on the lens as this might affect optical performance.

Step. 2
Adjust the cable orientation to fit into the one of the case's grooves or straight through, depending on your mounting surface.

Step. 3
Mount back case bracket to surface using the screw holes.
Use #8 or similar screw, head size up to 8.5mm, mounting screws sold separately.

Screw holes (reverse view)

#8 or up to 8.5mm head size

(top view)

Step. 4
Connect the cable and camera together.

Connect cable to Ethernet port.

Attach camera front to back case.

LUCID Vision Labs™ SENSaIZ Camera Mounting Guide

WITH BACK COVER

WITHOUT BACK COVER

RESERVED SERVICE LED
RESET SW
POWER LED

AC12435MM LENS GLUED ON LENS HOLDER

Ø 6.0 X 6.0 SLOT MOUNTING HOLES

RJ45 CONNECTOR

CABLE ACCESS RECESS

2X ETHERNET STATUS LED

BACK COVER REMOVED

BACK COVER SNAPPED IN

DETAIL A SCALE 2:1

CABLE ACCESS RECESS

MOUNTING HOLES

DETAIL B SCALE 2:1

INSTALLATION WITH #8 SCREW

LUCID Vision Labs™ SENSaIZ Camera Dimensions