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

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Spectrum:	
Color	

General

Type:	
Color Camera	
Model Number:	
SZP123S-001	
Manufacturer:	
Lucid Vision Labs	

Camera Series:

SENSAiZ

Physical & Mechanical Properties

Dimensions (mm):

55 x 40 x 35 (excludes lens protrusion)

Weight (g):

48

Housing:

Full

Optical Properties

Focal Length FL (mm):

4.35

Sensor

Sensor Format:

1/2.3"

Resolution (Megapixels):

12.33

Pixels (H x V):

4,056 x 3,040

Pixel Size, H x V (µm):

1.55 x 1.55

Imaging Sensor:

Sony IMX500

Type of Sensor:

Progressive Scan CMOS

Shutter Type:

Rolling

Electrical

Power Consumption (W):

3 (PoE+)

Hardware & Interface Connectivity

Connector:

100BASE-T RJ45

Power Supply:

Power over Ethernet (PoE+)

Environmental & Durability Factors

Operating Temperature (°C):

-10 to +55

Storage Temperature (°C):

-30 to +60

Regulatory Compliance
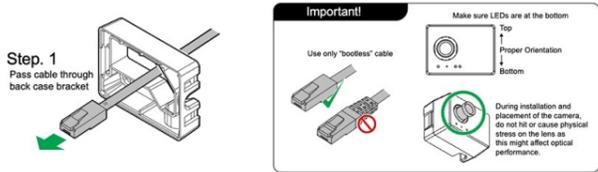
Certificate of Conformance:

View

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
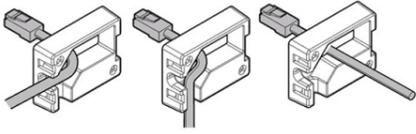- Sony AITRIOS Software is Required for Use

LUCID Vision Labs™ SENSAiZ Intelligent Vision CMOS Camera integrates Sony's IMX500 sensor and AITRIOS 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 AITROS 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 AITRIOS software platform. AITRIOS software can be purchased directly through Sony. See the Technical Images tab for mounting instructions.
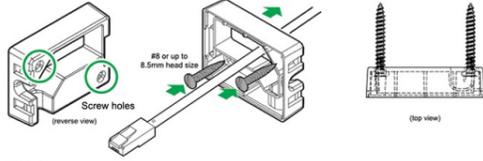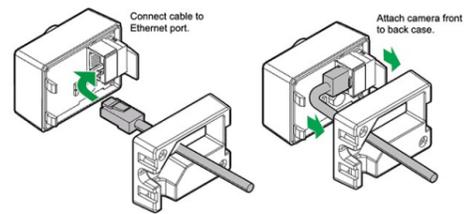
Technical Information

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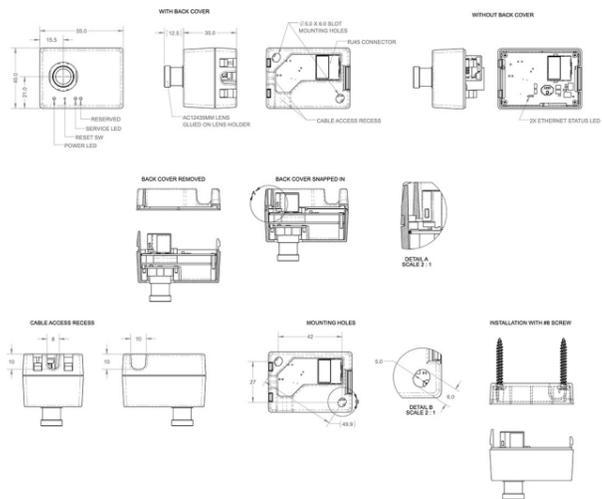
Step. 3
Mount back case bracket to surface using the screw holes.
Use #8 or similar screw, head size up to 8.5mm, mounting screws sold separately.

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

2.5 X 8.6 SLOT
MOUNTING HOLES

RJ45 CONNECTOR

AC12X08MM LENS
GLUED ON LENS HOLDER

CABLE ACCESS RECESS

GX ETHERNET STATUS LED

BACK COVER REMOVED

BACK COVER SNAPPED IN

DETAIL A
SCALE 2 : 1

CABLE ACCESS RECESS

MOUNTING HOLES

INSTALLATION WITH #8 SCREW

DETAIL B
SCALE 2 : 1

LUCID Vision Labs™ SENSAiZ Camera Dimensions