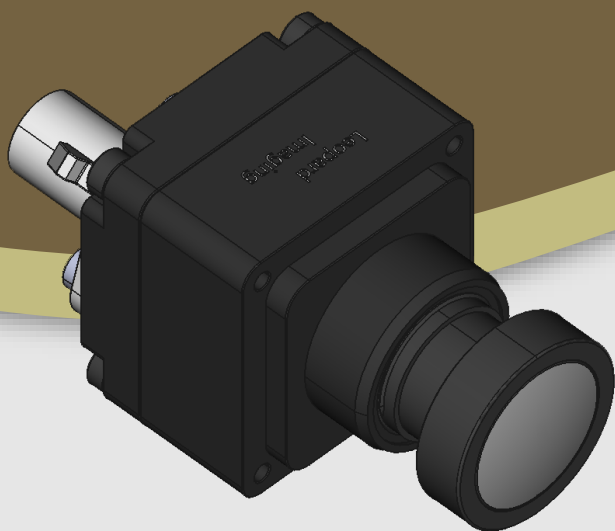




LI-VENUS-IMX623-FP3-118H-R1



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INTRODUCTION

The LI-VENUS-IMX623-FP3-118H-R1 is equipped with Sony diagonal 7.45 mm (Type 1/2.42) CMOS solid-state RGGB image sensor IMX623 and FPD-Link III serializer TI953. This camera outputs RAW data.

SPECIFICATIONS

Sensor	Sony Diagonal 7.45 mm CMOS Solid-State RGGB Sensor IMX623
Optical Format	1/2.42"
Resolution	1937 (H) x 1553 (V) (active pixels)
Pixel Size	3.0 x 3.0 μm
Output Format	12-bit / 14-bit / 16-bit / 20-bit / 24-bit RAW
Color / Mono	Color sensor
Maximum Frame Rate	60 fps @ 1936 x 1556
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	TI953 FPD-Link III (DS90UB953-Q1)
Power Supply Range	8 ~ 17 VDC
Connector	FAKRA Z TYPE
IP Rating	IP67
Power Consumption	Approx. 77 mA @ 12 VDC (1936 x 1552 @ 30 fps)
Operating Temp	TBD
Storage Temp	TBD
Weight	TBD
Part#	LI-VENUS-IMX623-FP3-118H-R1



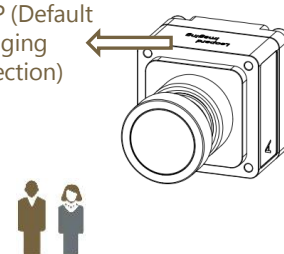
APPLICATIONS

- Automotive
 - ◆ Autonomous Driving
 - ◆ Assisted Driving
 - ◆ Digital Video Recording
 - ◆ Machine Vision

DEFAULT IMAGING DIRECTION

- The logo "Leopard Imaging" is on the TOP.

TOP (Default Imaging Direction)



LENS SPECIFICATIONS

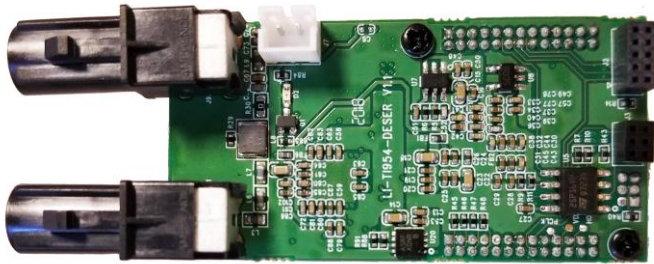
Effective Focal Length	3.021 mm $\pm$ 5%
Aperture, F/#	2.0 $\pm$ 5%
Field of View (FOV)	118° horizontal
Optical Distortion	-91.83% $\pm$ 5.0% (f-tan θ)
Relative Illumination	$\geq$ 40%
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5





USB3.0 CAMERA KIT

LI-FPDLINKIII-USB



Top View



Bottom View

LI-VENUS-IMX623-FP3-118H-R1 can connect to LI-FPDLINKIII-USB as a USB 3.0 camera.

Part#: **LI-USB30-VENUS-IMX623-FP3-118H-R1**

SPECIFICATIONS

- USB 3.0 Super Speed support
- UVC compliant
- Allows customization
- 12 VDC power supply for camera
- Weight: TBD
- Single Coax Cable transmits up to 12 meters PoC (Power over Cable)
- Resolution: 1936 x 1552 @ 30 fps
- Power consumption: Approx. 77 mA @ 12 VDC
- Compatible with Windows, Linux OS and other OS which have UVC drivers

BOM

#	Items	QTY
1	LI-VENUS-IMX623-FP3-118H-R1	1
2	LI-FPDLINKIII-USB	1
3	3-Meter Fakra Cable	1
4	12 VDC Power Supply	1
5	USB3.0 Cable	1



SDK SUPPORTED

- Camera Tool Source Code in C#
- Capture & Display
- Register Access Function

● REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	22 Aug 2023
0.2	1. Changed Part# from LI-VENUS-IMX623-FP3-118H to LI-VENUS-IMX623-FP3-118H-R1. 2. Updated 3D images and IP rating.	04 Sep 2023

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