



LEOPARD
IMAGING

LI-S5K1H1SB-VS775S-xxxH



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INTRODUCTION

The LI-S5K1H1SB-VS775S-xxxH is equipped with Samsung automotive 1/1.7" 8.3MP CMOS RGGB image sensor S5K1H1SB which has On-Chip HDR and LFM. Its serializer is Microchip serializer VS775S. This camera outputs RAW image data.

SPECIFICATIONS

Maximum Frame Rate	36 fps (intra-scene) @ 8.3MP with HDR4_NEW or HDR4_VS
	45 fps @ all operation mode
Output Format	20-bit / 16-bit / 14-bit / 12-bit RAW
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
EEPROM Memory Size	64 Kbit
Sensor	Samsung Automotive 1/1.7" 8.3MP CMOS RGGB Image Sensor S5K1H1SB
Optical Format	1/1.7"
Resolution	3856 (H) x 2176 (V) (active pixels)
Pixel Size	2.1 x 2.1 μ m
Color / Mono	Color sensor
Serializer	Microchip VS775S
Power Supply Range	8 ~ 17 VDC
Connector	FAKRA Z TYPE
Power Consumption	TBD
Operating Temp	TBD
Storage Temp	TBD
Lens	FOV H 30° / 97°
IP Rating	TBD
Weight	~46 g

APPLICATIONS

- Automotive
 - ◆ Autonomous Driving
 - ◆ High Performance ADAS
 - ◆ Front Forwarding Camera
 - ◆ Surround Sensing / Viewing Camera



SYSTEM BLOCK DIAGRAM

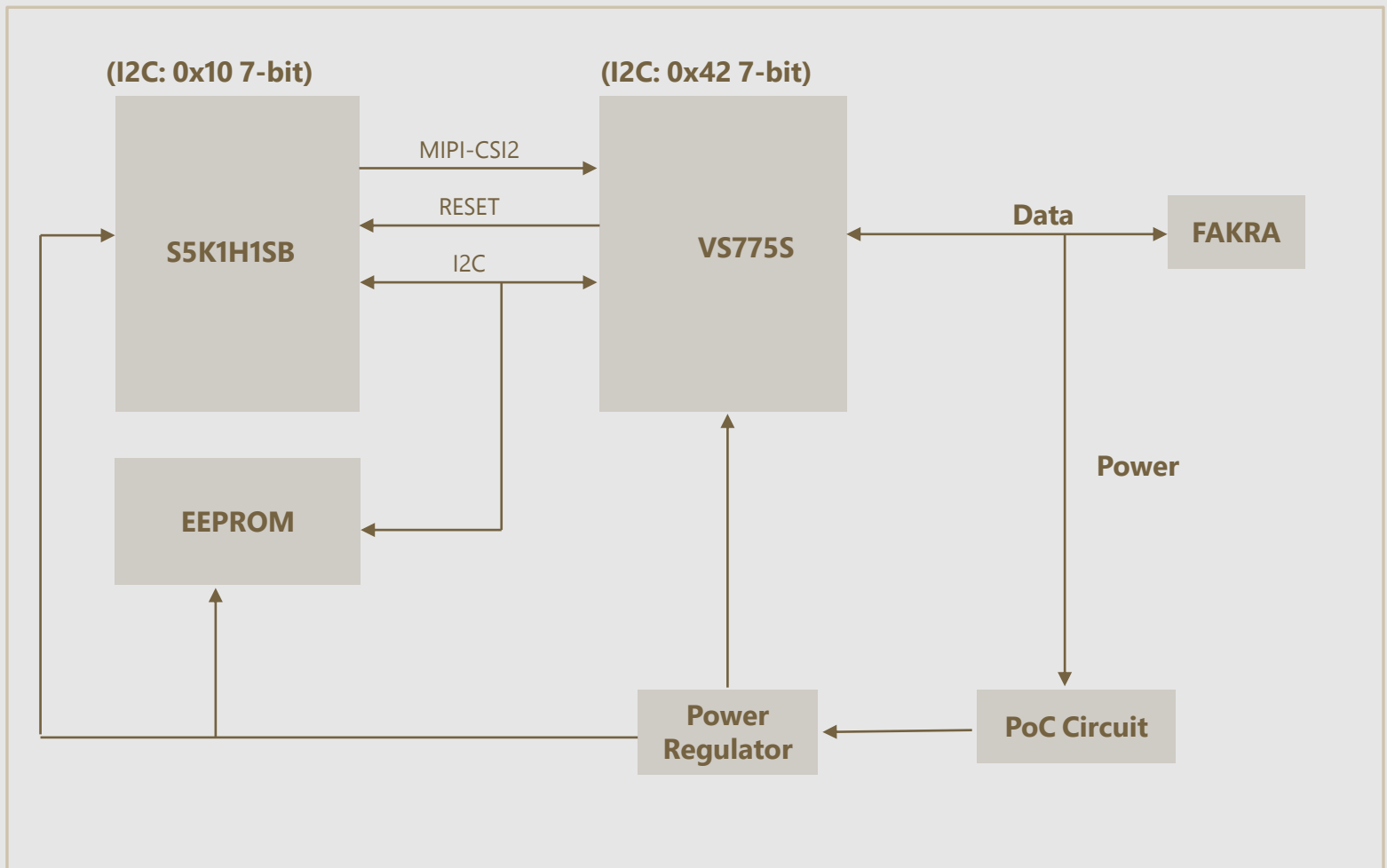
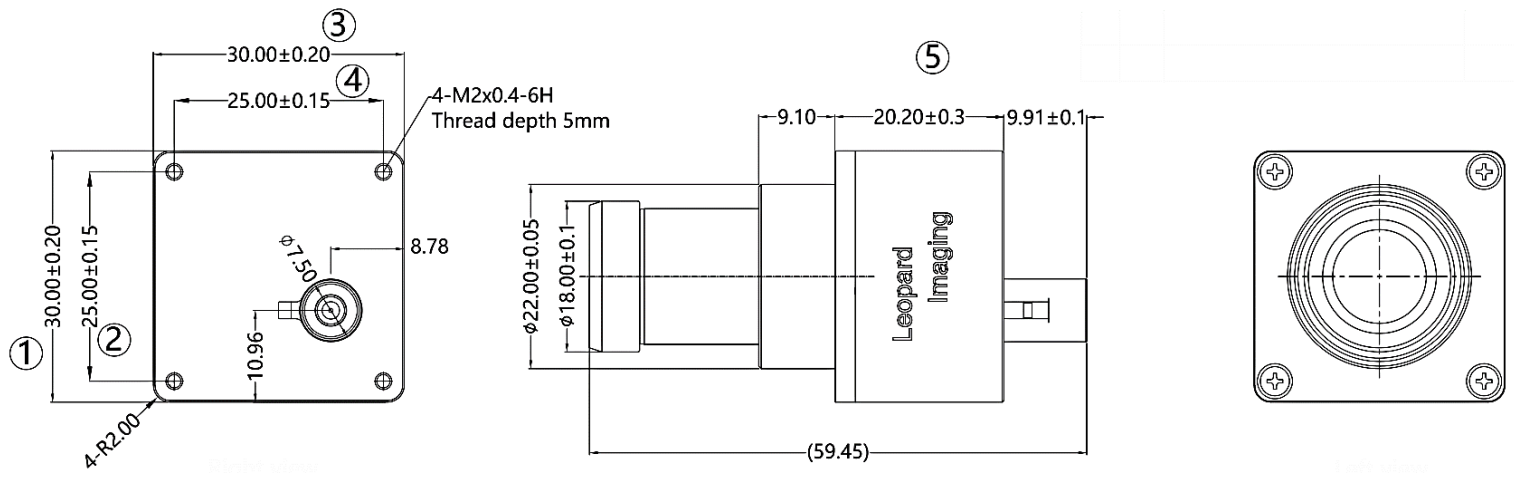


IMAGE ORIENTATION



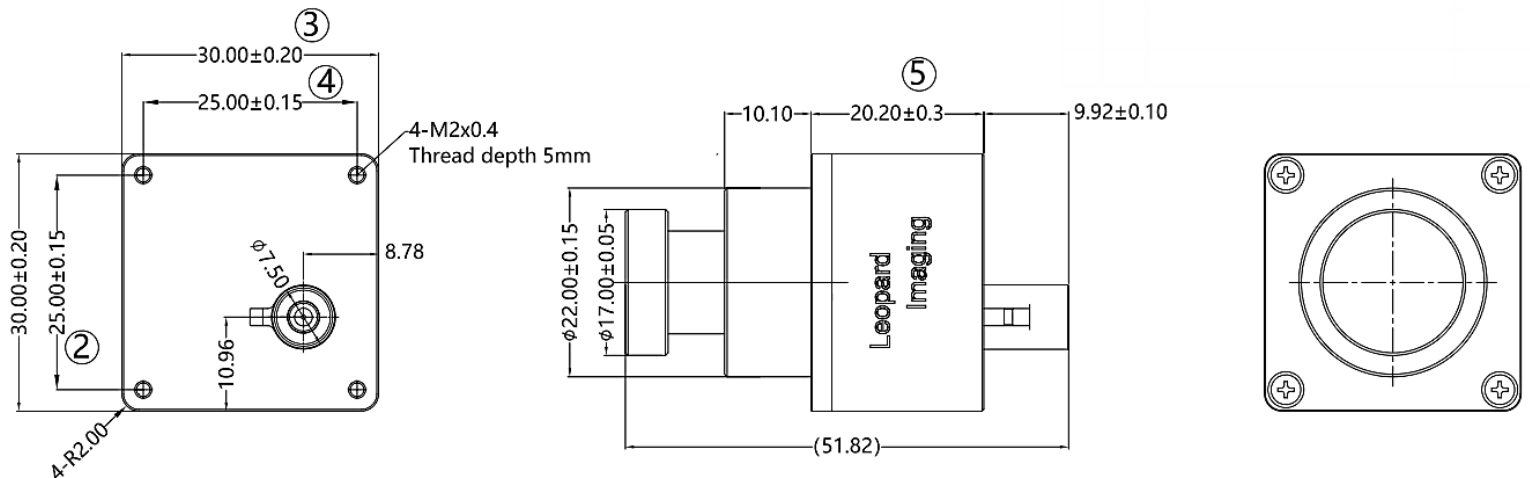
DIMENSIONS: LI-S5K1H1SB-VS775S-030H



NOTE:

- ⊗ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Tolerances for others unmarked are ± 0.3 mm.
- Unit: mm

DIMENSIONS: LI-S5K1H1SB-VS775S-097H



NOTE:

- ⊗ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Tolerances for others unmarked are ± 0.3 mm.
- Unit: mm

SKU INFORMATION

NOTE:

xxxH refers to 030H (FOV H 30°) or 097H (FOV H 97°)



Model P/N: **li-s5k1h1sb-vs775s-030h**

Lens EFL: 15.34 mm $\pm$ 5%

Aperture, F/#: 1.6 $\pm$ 5%

Field of View (FOV): 30° $\pm$ 1° horizontal

Optical Distortion: (-2.7 $\pm$ 1)%

IR Filter: 650 nm IR cut filter

Mount: M17

Model P/N: **LI-S5K1H1SB-VS775S-097H**

Lens EFL: 5.00 mm $\pm$ 5%

Aperture, F/#: 1.8

Field of View (FOV): 97° horizontal

Optical Distortion: -50%

IR Filter: 650 nm IR cut filter

Mount: M12

- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	28 Jul 2026

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