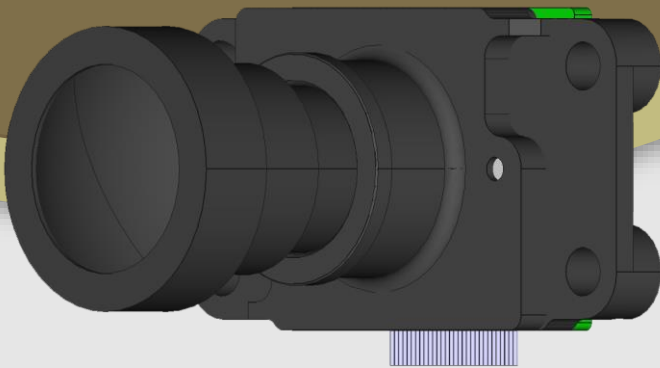# LI-OS08A20-MIPI-120H

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INTRODUCTION

The LI-OS08A20-MIPI-120H is equipped with OmniVision high resolution 8-megapixel PureCel® sensor OS08A20 which could capture ultra-high definition (UHD) 4K2K video and images that are bright and crisp in all lighting conditions. This camera outputs 10-bit / 12-bit RAW data.

SPECIFICATIONS

Sensor	OmniVision 8-Megapixel PureCel® Sensor OS08A20
Optical Format	1/1.8"
Maximum Resolution	3840 (H) x 2160 (V)
Pixel Size	2.0 x 2.0 μm
Output Format	10-bit / 12-bit RAW RGB
Maximum Frame Rate	60 fps @ 3840 x 2160
ISP	Not included
Color / Mono	Color
Interface	4-lane MIPI
Power Consumption	240 mA @ 3.3 VDC
Operating Temp	-20℃ ~ +70℃
Storage Temp	-20℃ ~ +80℃
Weight	TBD
Part#	LI-OS08A20-MIPI-120H

APPLICATIONS

- IoT
- Drone
- Robots

LENS SPECIFICATIONS

Focal Length	3.939 mm
Aperture, F/#	2.20 ± 5%
Field of View (FOV)	143.6° (D) @ IH 4.406
	120.2° (H) @ IH 3.84
	64.2° (V) @ IH 2.16
TV Distortion	-19.21%
Relative Illumination	41.0% @ 1.0 F
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5
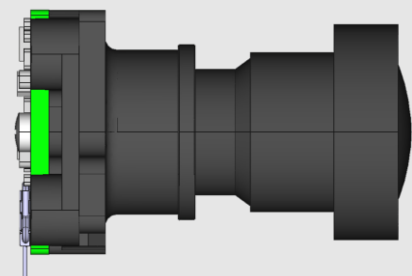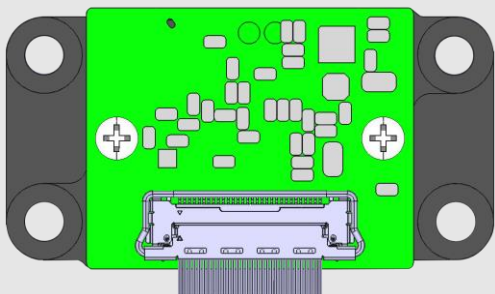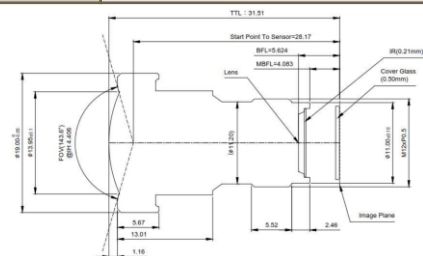
SYSTEM AND POWER BLOCK DIAGRAM

DIMENSIONS

Note: ⊗ marked are important sizes.

Unit: mm
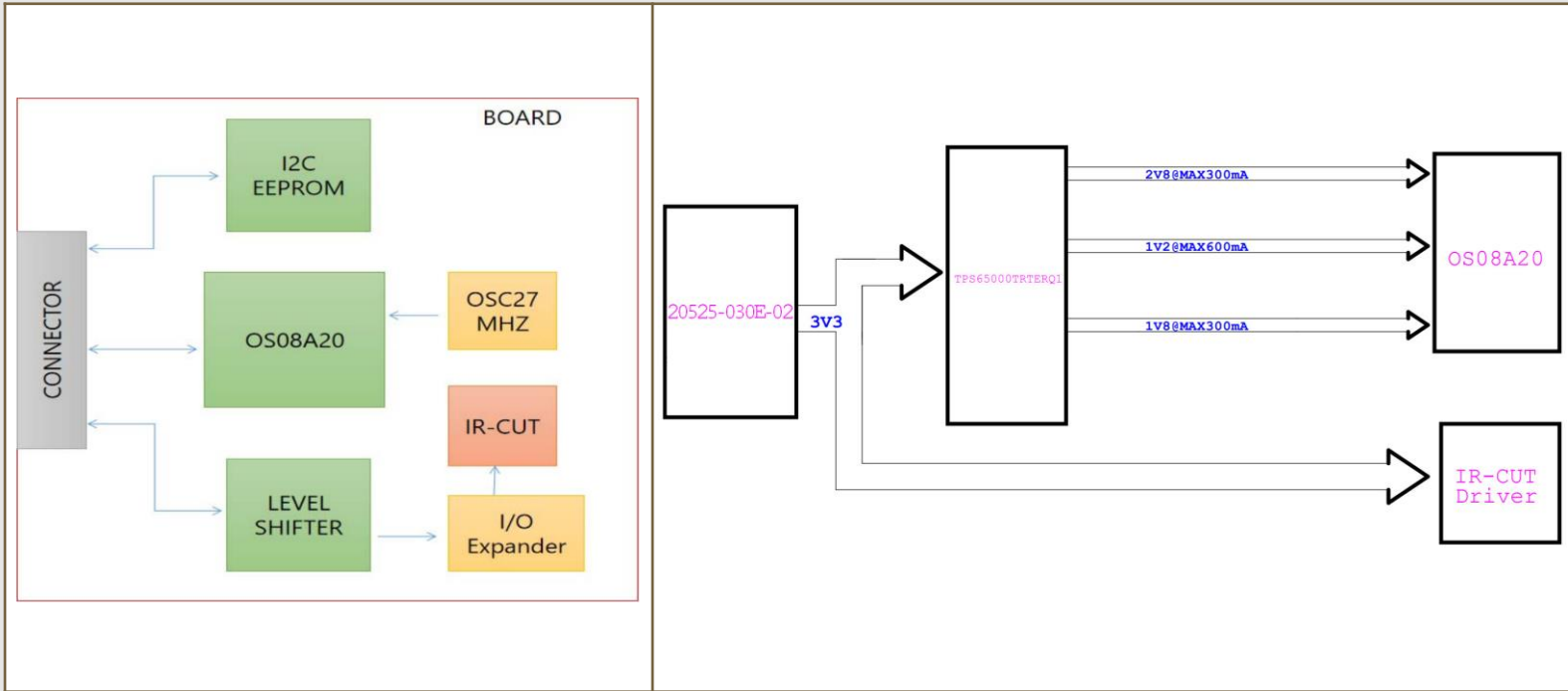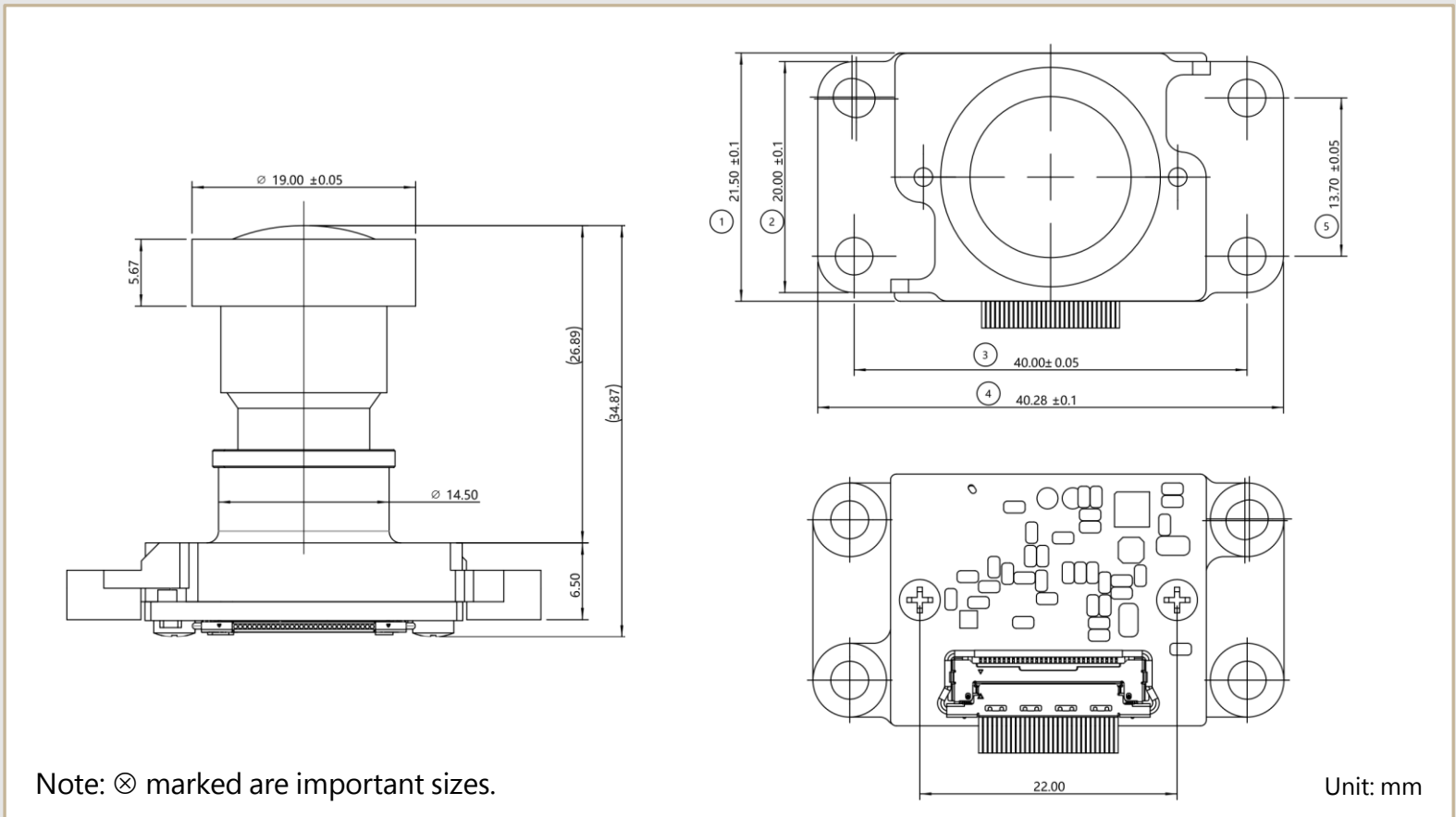
SOFTWARE SUPPORT

Platforms	Latest Drivers
NVIDIA Jetson Platforms	Please check detailed Jetson driver information: **https://www.leopardimaging.com/driver-support/**
Leopard USB3.0 Tester	The latest firmware will be pre-installed into the USB3.0 Camera Kit

REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	29 June 2021
1.1	Deleted info quoted from sensor spec.	27 May 2022