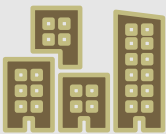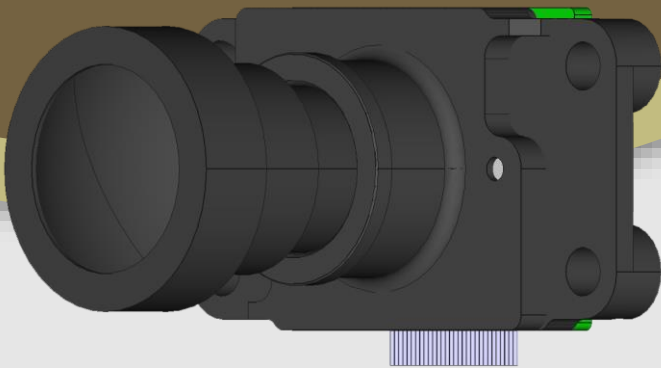# LI-OS08A20-MIPI-120H

Address:

48820 Kato Road
Suite 100B
Fremont, CA 94538
USA

Phone:

+1 (408)263-0988

Fax:

+1 (408)217-1960

Sales:

sales@leopardimaging.com

Support:

support@leopardimaging.com

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
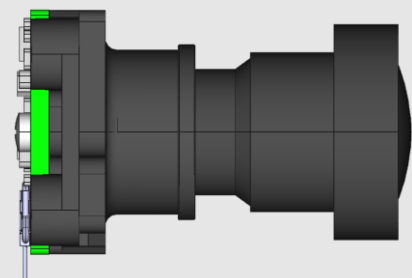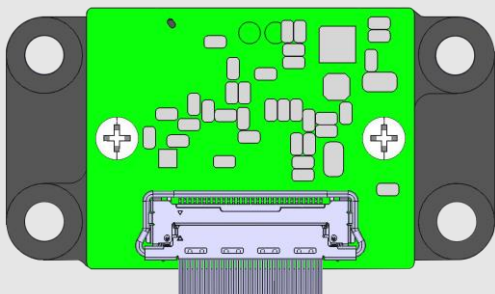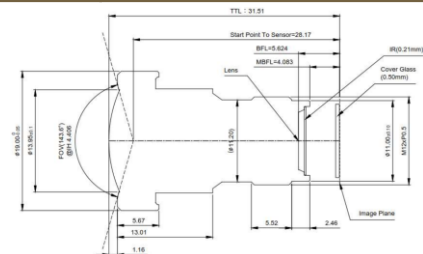
SYSTEM AND POWER BLOCK DIAGRAM

DIMENSIONS

Note: ⊗ marked are important sizes.

Unit: mm
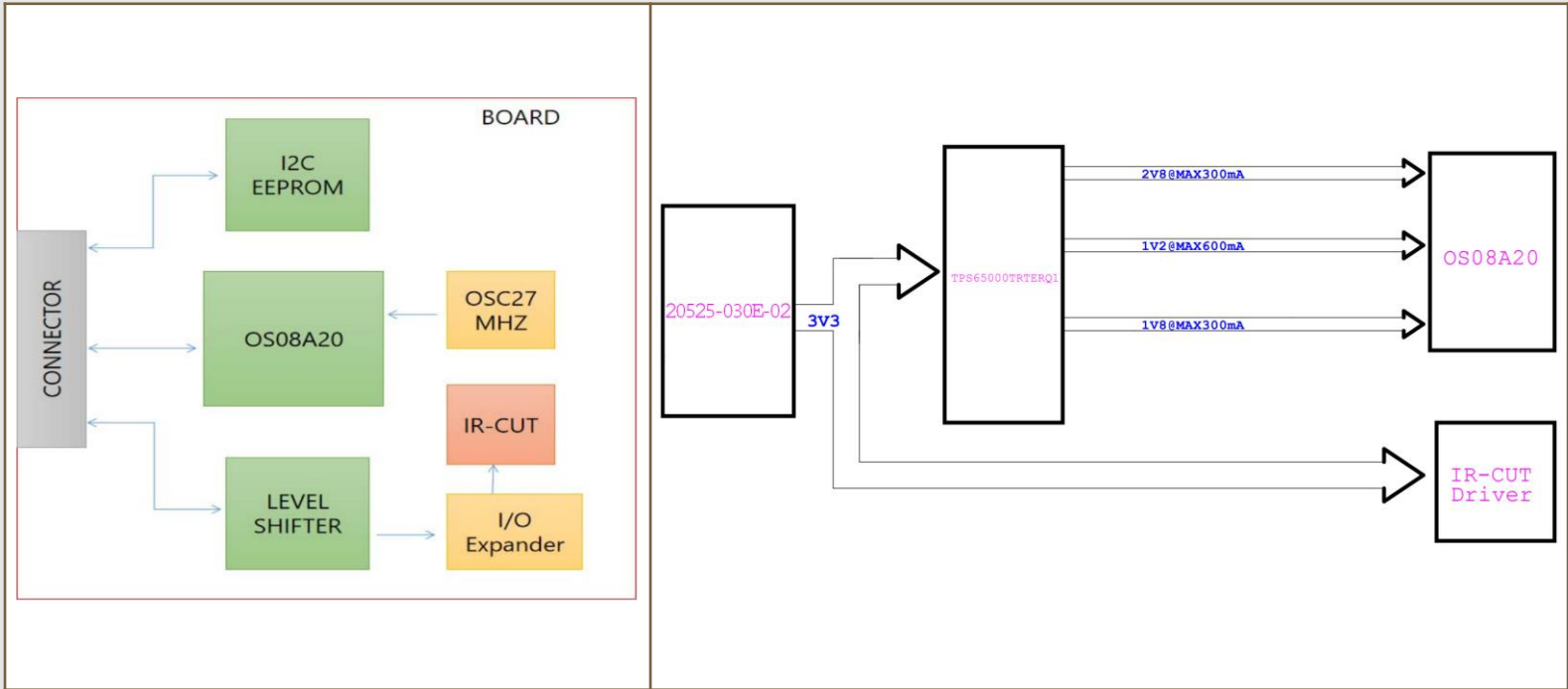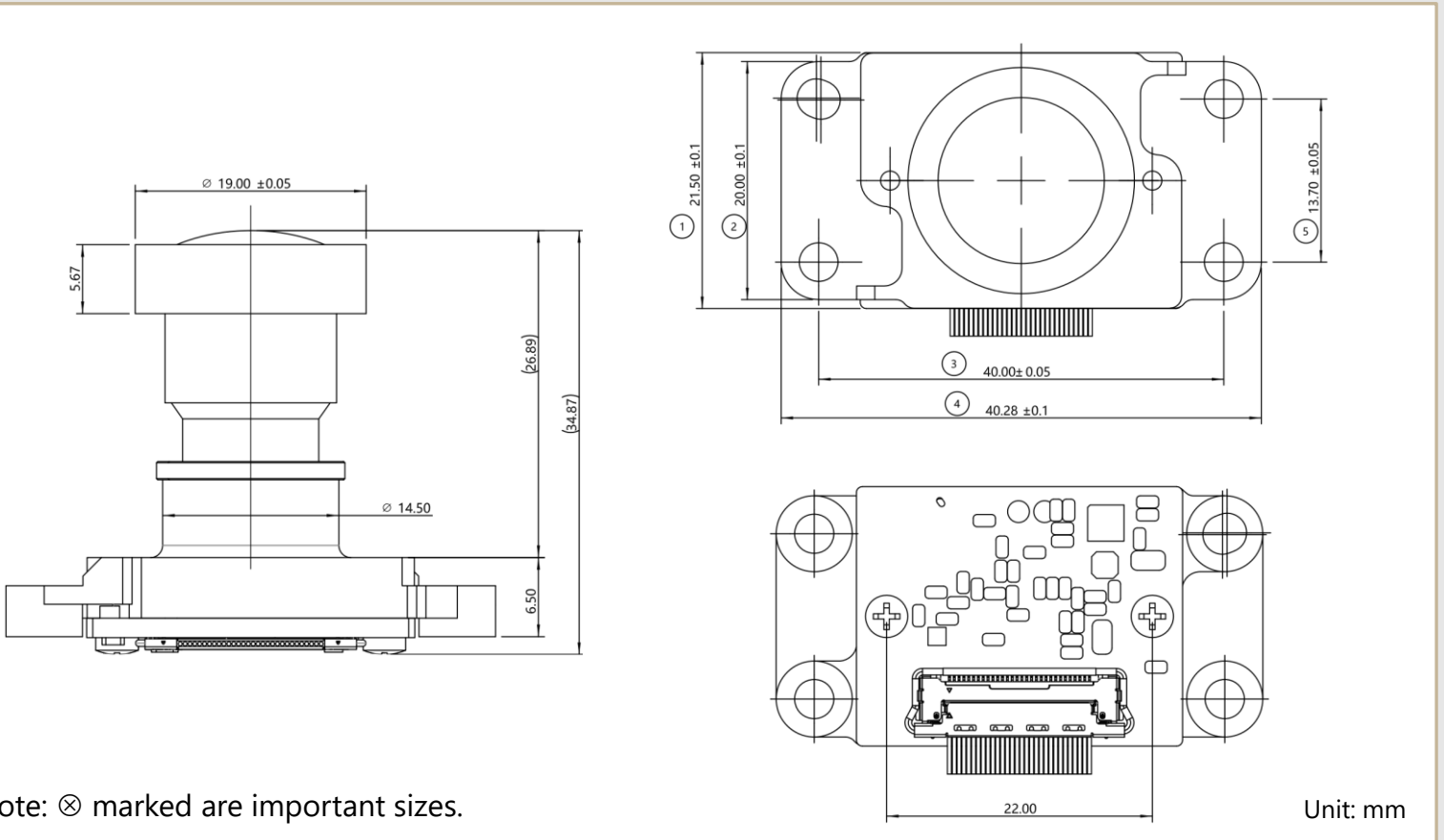
SOFTWARE SUPPORT

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

48820 Kato Rd, Suite 100B, Fremont, CA 94538, USA
Phone: +1-408-263-0988
Fax: +1-408-217-1960
Email: sales@leopardimaging.com
Website: www.leopardimaging.com

Leopard Imaging Inc.