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e-CAM200_CUOAGX



Lens Datasheet

Revision 1.0

6th Nov 2023



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1 Introduction

e-CAM200_CUOAGX is custom lens camera module from e-con Systems, a company with over two decades of experience in designing, developing, and manufacturing OEM cameras. The multi-camera board can be directly interface with NVIDIA® Jetson AGX Orin™ development kit.

e-CAM200_CUOAGX is a 20 MP camera module. It has 1/1.8" AR2020 CMOS image sensor from onsemi®. The AR2020 sensor is a color image sensor which supports GRBG image format. These cameras are provided with small form factor S-mount lens holder, also known as M12 board lens.

This document describes the features of e-CAM200_CUOAGX board and the pin-outs of the connectors including the mechanical diagram.

2 Disclaimer

The specifications and features of the e-CAM200_CUOAGX camera module board are provided here as reference only and e-con Systems reserves the right to edit/modify this document without any prior intimation of whatsoever.

3 Description

The lens used in e-CAM200_CUOAGX is a high resolution, 1/1.8" format, and wide-angle lens. It provides a maximum field of view (FOV) of 118.81 degrees with AR2020X CMOS image sensor.

4 Optical Specifications

The optical specification of lens used in e-CAM200_CUOAGX is listed in below table.

Description	Specification
Imager Format	1/1.8" for AR2020
Effective Focal Length	4.4 mm
Aperture (F/#)	2.3
FOV	118.81° (D), 90.28° (H), 65.98° (V)
Distortion	-6%
Lens Barrel Thread	M12 x 0.5

Table 1: Optical Specifications of Lens



5 Mechanical Dimensions

The mechanical dimensions of lens used in e-CAM200_CUOAGX are shown below.

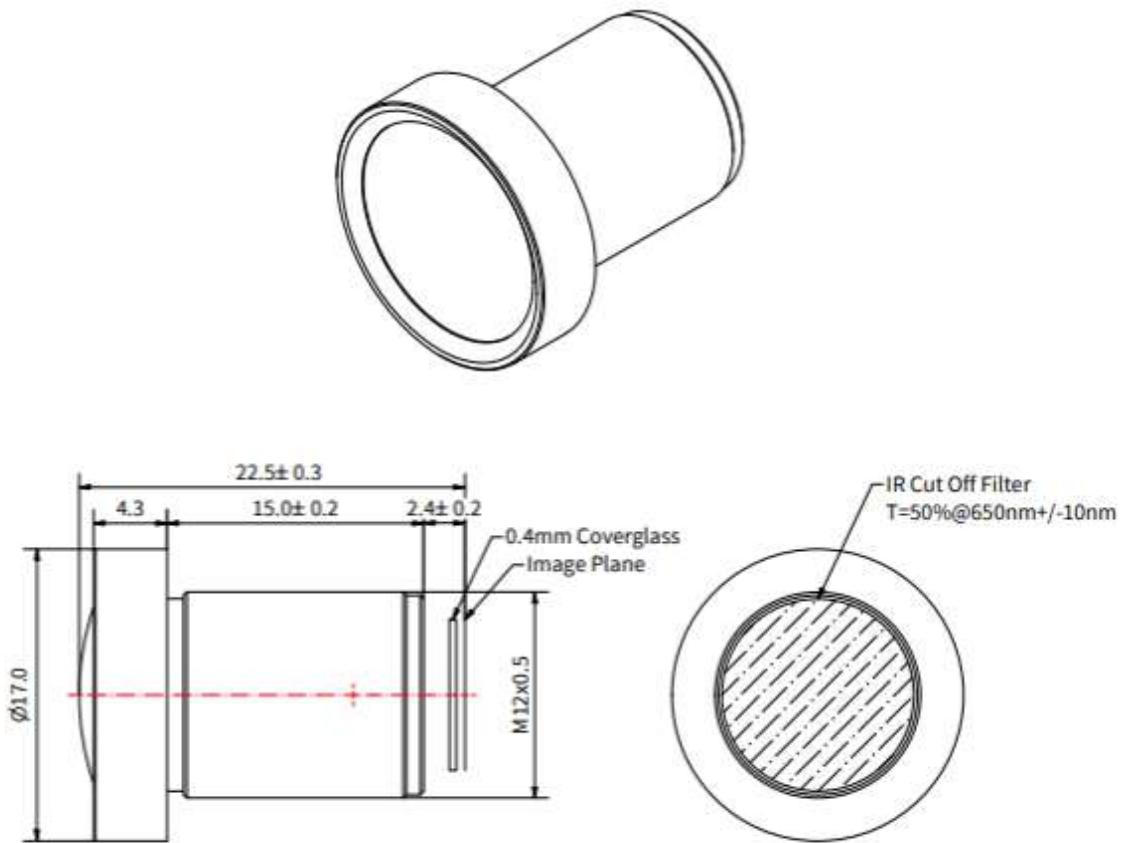


Figure 1: Lens Mechanical Dimensions

Note: All dimensions are in mm.



Revision History

Rev	Date	Description	Author
1.0	06-Nov-2023	Initial Draft	Camera Dev Team



Support

Contact Us

If you need any support on e-CAM200_CUOAGX product, please contact us using the Live Chat option available on our website - <https://www.e-consystems.com/>

Creating a Ticket

If you need to create a ticket for any type of issue, please visit the ticketing page on our website - <https://www.e-consystems.com/create-ticket.asp>

RMA

To know about our Return Material Authorization (RMA) policy, please visit the RMA Policy page on our website - <https://www.e-consystems.com/RMA-Policy.asp>

General Product Warranty Terms

To know about our General Product Warranty Terms, please visit the General Warranty Terms page on our website - <https://www.e-consystems.com/warranty.asp>

