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e-CAM23_CUNX

Lens Datasheet

Revision 1.0

22nd January 2021

Contents

1 Revision History

Rev	Date	Description	Author
1.0	22-January-2021	Initial Draft	Application Engineering Team

2   Introduction

e-con Systems is a leading Embedded Product Design Services Company which specializes in advanced camera solutions. e-CAM23_CUNX is a new MIPI camera board which helps to connect two OV2311 sensor based camera modules to the Jetson Xavier NX™ development kit launched by e-con Systems.

e-CAM23_CUNX board interconnects one or two 2 MP custom lens camera modules and utilizes Jetson™ platform in-built ISP. It has 1/2.9" optical form-factor, OV2311 CMOS image sensor from OmniVision's OmniPixel® 3-GS technology with a global Shutter. This 2 MP color cameras are provided with small form factor S-mount lens holder (also known as M12 board lens).

This document describes the optical specifications of lens used in e-CAM23_CUNX.

3   Description

The lens used in e-CAM23_CUNX is a high resolution, 1/2.3" format, and wide-angle lens. It provides a maximum field of view (FOV) of 71.6° degrees with 1/2.9" format OV2311 CMOS image sensor.

4   Optical Specifications

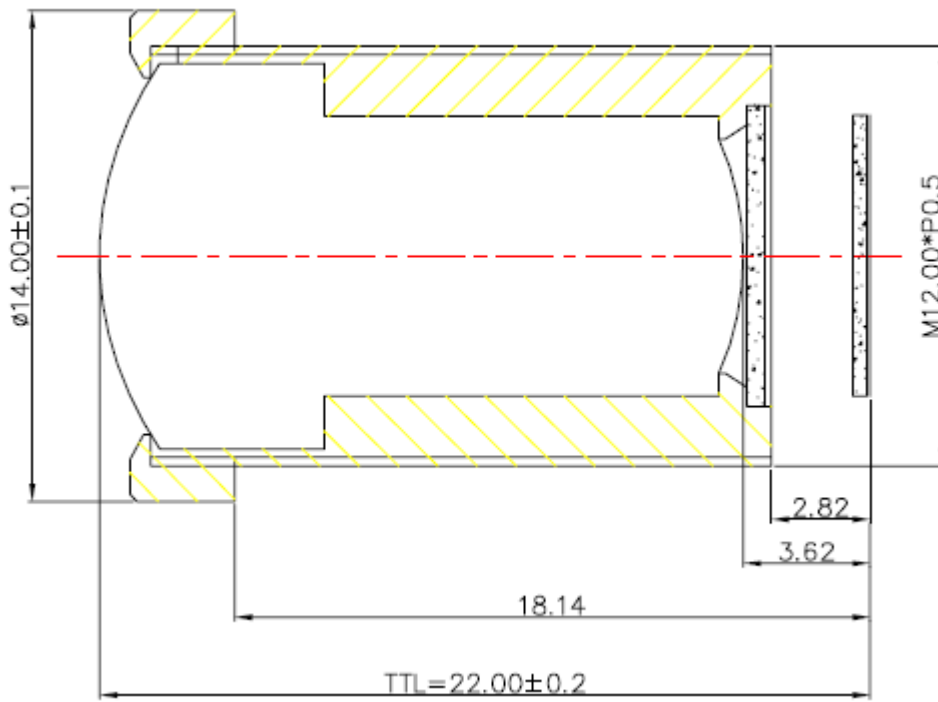The optical specification of lens is listed in below table.

Description	Specification
Imager Format	1/2.3" (1/2.9" for OV2311)
Focal Length (mm)	4.3 mm (+/-5%)
Aperture (F/#)	2.8 (+/-5%)
FOV	71.6°(D), 58.06°(H), 48.77°(V) (+/- 5°)
Distortion	< -1.2 %
Chief Ray Angle	NA
Lens Barrel Thread	M12 x 0.5

Table 1: Optical Specifications of Lens

5 Mechanical Dimensions

The mechanical dimension of lens used in e-CAM23_CUNX is shown below.

Figure 1: Lens Mechanical Dimensions

Note: All dimensions are in millimeter (mm).

Support

Contact Us

If you need any support on e-CAM23_CUNX 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