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e-CAM22_CUNX

Lens Datasheet

Revision 1.0

21st April 2021

Contents

1   Revision History

Rev	Date	Description	Author
1.0	21-April-2022	Initial Draft	Product Marketing Team

2   Introduction

e-CAM22_CUNX is a new MIPI camera board from e-con Systems, a company with over two decades of experience in designing, developing, and manufacturing OEM cameras. This MIPI camera helps to connect IMX462 sensor based camera modules to the Jetson Xavier NX development kits launched by e-con Systems.

e-CAM22_CUNX board interconnects 2 MP custom lens camera modules and utilizes Jetson platform's in-built ISP. It has 1/2.8" optical form-factor, IMX462 CMOS image sensor from SONY® with an electronic rolling 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-CAM22_CUNX.

3   Description

The lens used in e-CAM22_CUNX is a high resolution, 1/2.7" format, and wide-angle lens. It provides a maximum field of view (FOV) of 132 degrees with 1/2.8" format IMX462 CMOS image sensor.

4   Optical Specifications

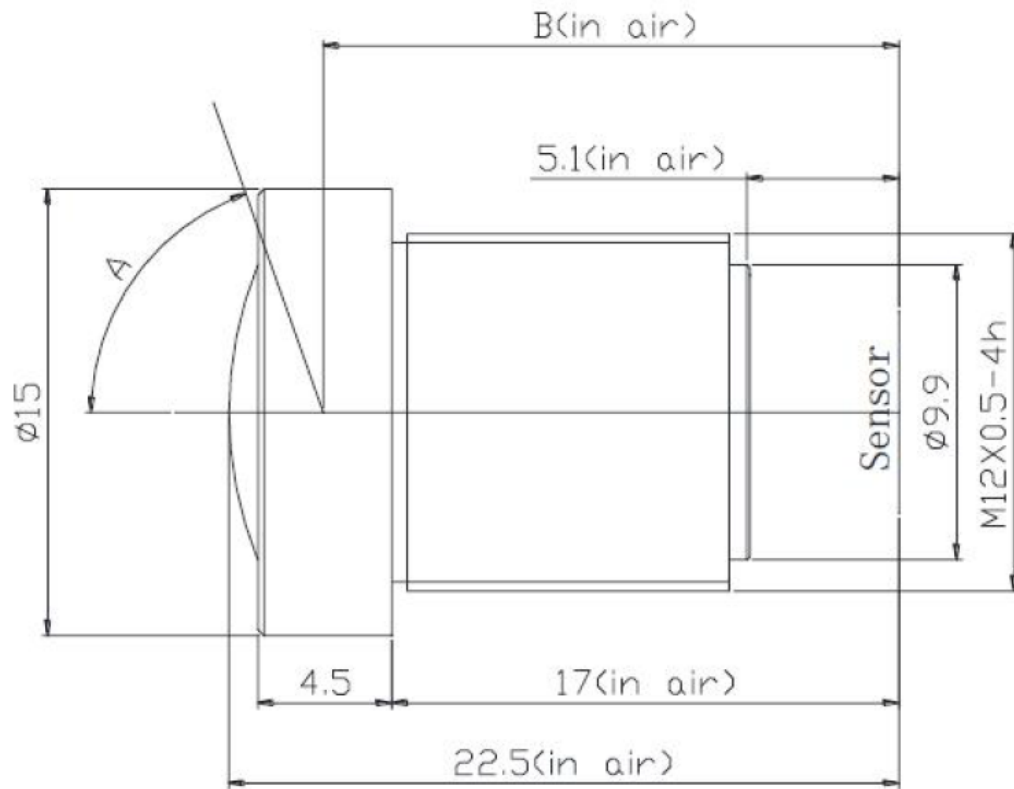The optical specification of lens is listed in below table.

Description	Specification
Imager Format	1/2.7"
Focal Length (mm)	2.8 mm (+/-5%)
Aperture (F/#)	1.2 (+/-5%)
FOV	132º(D), 113º(H), 61º(V)
Distortion	< -16 %
Chief Ray Angle	< 8^0
Lens Barrel Thread	M12 x 0.5

Table 1: Optical Specifications of Lens

5   Mechanical Dimensions

The mechanical dimension of lens used in e-CAM22_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-CAM22_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