



e-con Systems India Pvt Ltd

7th Floor, RR Tower - IV,
Super A-16 & A-17, Thiru-Vi-Ka Industrial Estate,
Guindy, Chennai - 600 032.

www.e-consystems.com

e-CAM20_CUXVR



Lens Datasheet

Revision 1.1

05th June 2019



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e-CAM20_CUXVR

1 Revision History

Rev	Date	Description	Author
1.0	17-May-2019	Initial Draft	Camera Team
1.1	05-June-2019	TX2 support is added	Camera Team



2 Introduction

e-con Systems is a leading Embedded Product Design Services Company which specializes in advanced camera solutions. e-CAM20_CUXVR is a new MIPI camera board which helps to connect four IMX290 sensor based camera modules to the Jetson AGX Xavier™/TX2™ development kits launched by e-con Systems.

e-CAM20_CUXVR board interconnects one or four 2 MP custom lens camera modules and utilizes Jetson platform in-built ISP. It has 1/2.8" optical form-factor, IMX290 CMOS image sensor from SONY® with an electronic rolling Shutter. This four 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-CAM20_CUXVR.

3 Description

The lens used in e-CAM20_CUXVR 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 IMX290 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	132°(D), 113°(H), 61°(V)
Distortion	< -16 %
Chief Ray Angle	< 8°
Lens Barrel Thread	M12 x 0.5

Table 1: Optical Specifications of Lens



5 Mechanical Dimensions

The mechanical dimension of lens used in e-CAM20_CUXVR is shown below.

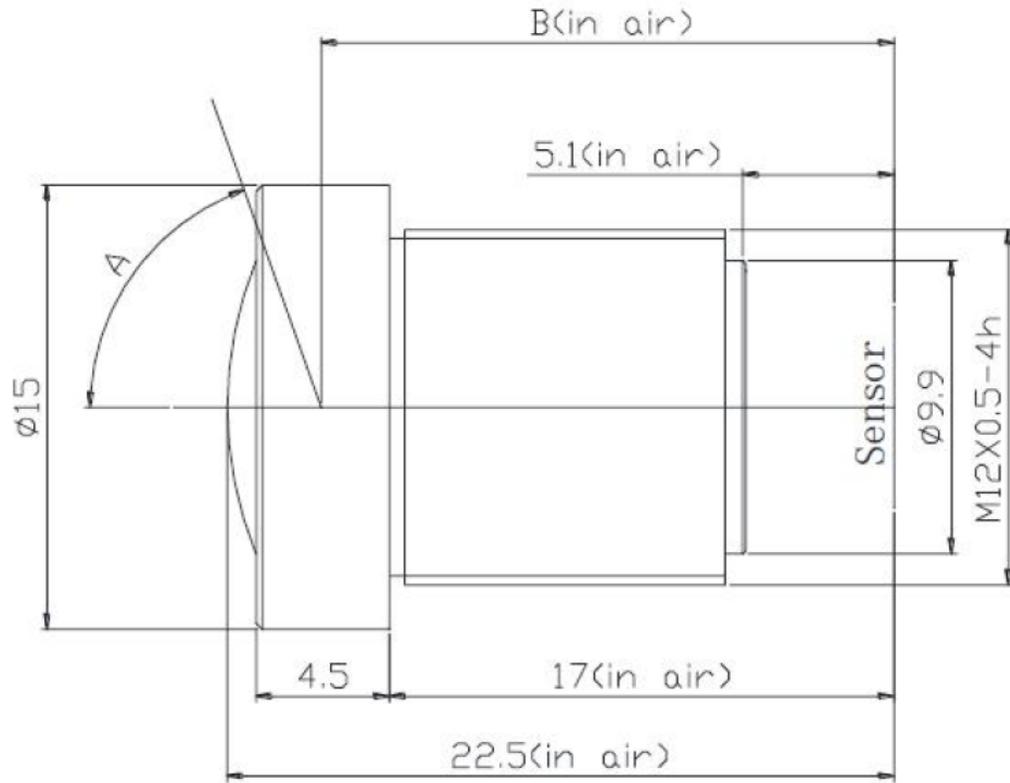


Figure 1: Lens Mechanical Dimensions

Note: All dimensions are in millimeter (mm).



Support

Contact Us

If you need any support on e-CAM20_CUXVR 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>

