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e-CAM81_CUONX



Lens Datasheet

Revision 1.0

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1 Revision History

Rev	Date	Description	Author
1.0	06-June-2023	Initial draft	Camera Team



2 Introduction

e-CAM81_CUONX is an HDR, 8 MP custom lens camera module based on 1/1.7" AR0821 CMOS image sensor from onsemi™. It is a color camera which supports UYVY image format and provided with S-mount (also known as M12 board lens) lens holder. The S-mount is small form-factor lens mounts for board cameras. e-con Systems provides the sample applications that demonstrates the features of this camera. However, this camera can also be utilized by any V4L2 application.

This document describes the optical specification of the lens used in e-CAM81_CUONX.

3 Disclaimer

e-con Systems reserves the right to edit or modify this document without any prior intimation or whatsoever.

4 Description

The lens used in e-CAM81_CUONX is a high resolution, 1/1.8" format, and wide-angle lens. It provides a maximum Field of View (FOV) of 120°.

5 Optical Specifications

The optical specifications of lens are listed in following table.

Description	Specification
Imager Format	1/1.8" (1/1.7" for AR0821 CMOS image sensor)
Focal Length	4.4 mm
Aperture (F/#)	2.7
FOV	120°(D), 104.8°(H), 58.7°(V) (with 1/1.7" AR0821)
Distortion	< 14 %
Lens Barrel Thread	M12 x 0.5

Table 1: Optical Specifications of Lens



6 Mechanical Dimensions

The mechanical dimensions of lens used in e-CAM81_CUONX are shown in following figure.

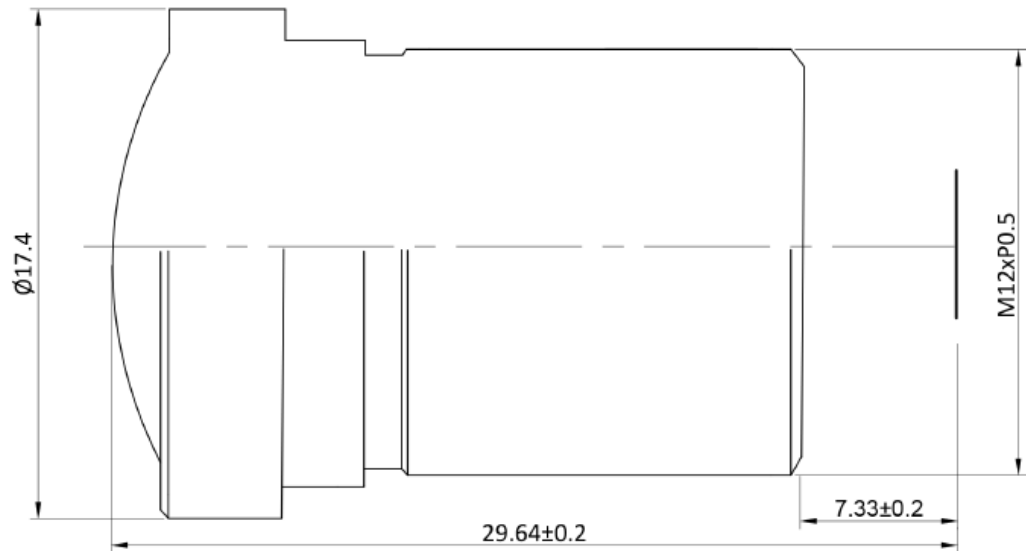


Figure 1: Lens Mechanical Dimensions

Note: All dimensions are in mm.



Support

Contact Us

If you need any support on e-CAM81_CUONX 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>

