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### See3CAM\_CU27



### Lens Datasheet

**Revision 1.0**

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## 1 Revision History

Rev	Date	Description	Author
1.0	08-10-2021	Initial Draft	Camera Team



## 2 Introduction

See3CAM\_CU27 is a 2 MP, UVC compliant, USB 3.1 Gen 1 SuperSpeed camera from e-con Systems, a leading Embedded Product Design Services Company which specializes in the advanced camera solutions. It is the latest member of the See3CAM family of USB 3.1 Gen 1 SuperSpeed camera products launched by e-con Systems.

See3CAM\_CU27 is based on the 1/2.8" IMX462LQR CMOS sensor from SONY® and the USB 3.1 Gen 1 interface. It is also backward compatible with the USB 2.0 high speed interface, albeit with fewer resolutions at lower frame rates.

See3CAM\_CU27 does not require any drivers to be installed on the PC. The native UVC drivers of Windows and Linux Operating Systems (OS) will be compatible with this camera.

This document describes the optical specifications of lens used in See3CAM\_CU27.

## 3 Description

The lens used in See3CAM\_CU27 is a high resolution and 1/2.7" format lens. The lens provides a maximum field of view (FOV) of 121.35 degrees with 1/2.8" format IMX462LQR CMOS image sensor.

## 4 Optical Specifications

The optical specification of lens is listed in below table.

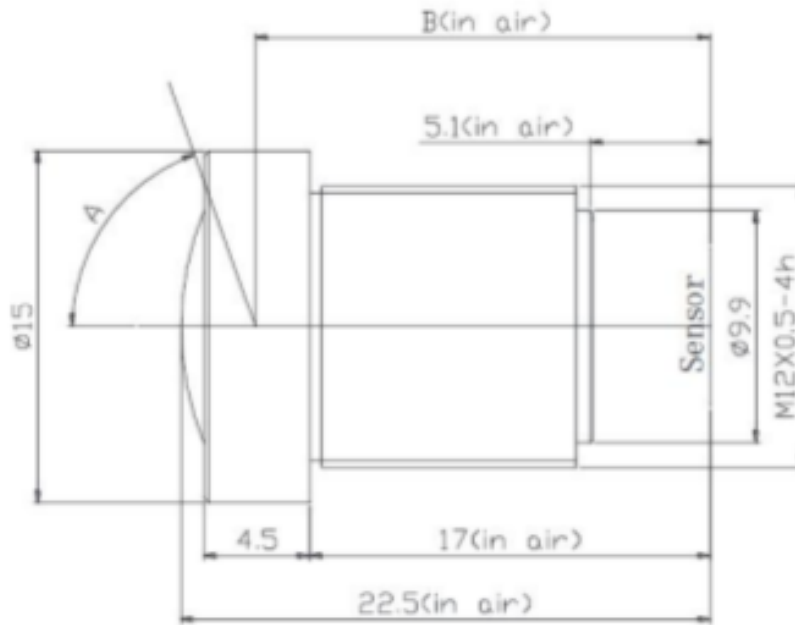
Description	Specification
Imager Format	1/2.7"
Focal Length	2.8 mm $\pm$ 5%
Aperture (F/#)	1.2 $\pm$ 5%
FOV	121.35°(D), 102.69°(H), 51.9°(V)
Distortion	Less than -16%
Chief Ray Angle	Less than 8°

**Table 1: Optical Specifications of Lens**



## 5 Mechanical Dimensions

The mechanical dimensions of lens used in See3CAM\_CU27 is shown below.



**Figure 1: Lens Mechanical Dimensions**

**Note:** All the dimensions are in mm.

The mechanical dimensions and layout details of lens used in See3CAM\_CU27 are listed in below table.

Description	CMOS	IMX290
Dimensions	A	66°
	B	19°
Layout Details	Dimension	25-50 mm
	Tolerance	±0.2

**Table 2: Mechanical Dimensions and Layout Details of Lens**



## Support

### Contact Us

If you need any support on SeeCAM\_CU27 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>

