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See3CAM_CU135



Lens Datasheet

Revision 1.4

18-May-2021



Contents

1	Revision History	3
2	Introduction.....	4
3	Description	4
4	Optical Specifications.....	5
5	Mechanical Dimensions	6
	Support.....	7



1 Revision History

Rev	Date	Description	Author
1.0	18-August-2017	Initial Draft	Camera Team
1.1	30-December-2019	Reviewed and updated changes	Camera Team
1.2	22-June-2020	Updated the product image	Camera Team
1.3	24-February-2021	Added changes	Camera Team
1.4	18-May-2021	Lens diagram updated	Camera Team



2 Introduction

See3CAM_CU135 is a 13.0 MP, color, UVC compliant, USB 3.0 SuperSpeed camera with Type-C connector from e-con Systems, a leading Embedded Product Design Services Company which specializes in the advanced camera solutions. It is a USB 3.0 SuperSpeed camera product.

See3CAM_CU135 is a 13.0 MP color camera with the S-mount (also known as M12 board lens) lens holder. The S-mount is one of the most commonly used small form factor lens mounts for board cameras. See3CAM_CU135 is a two-board solution containing the camera sensor module board with 1/3.2" AR1335 CMOS image sensor from ON Semiconductor® along with USB 3.0 interface which is connected to the host PC, through Type-A to Type-C legacy cable with reversible cable detection. It is also backward compatible with the USB 2.0 high speed interface, albeit at lower frame rates.

See3CAM_CU135 is a UVC compliant camera and it does not require any drivers to be installed on the PC. The native UVC drivers of Windows and Linux Operating Systems will be compatible with this camera. e-con Systems also provides the sample application that demonstrates some of the features of this camera. However, this camera can utilize any DirectShow application such as Skype and so on.

This document describes the optical specification of lens used in See3CAM_CU135.

3 Description

The lens used in See3CAM_CU135 is a high resolution and 1/2.3" format lens. The lens provides a maximum Field of View (FOV) of 67 degrees with 1/3.2" format AR1335 sensor.

Note: See3CAM_CU135 is available in two variants, which are, without casing (See3CAM_CU135_CHL_TC) and with casing (See3CAM_CU135_CHL_TC_BX).

The top view of See3CAM_CU135 without casing (See3CAM_CU135_CHL_TC) and with casing (See3CAM_CU135_CHL_TC_BX) are shown in below figures.



Figure 1: Top View of See3CAM_CU135 without Casing





Figure 2: Top View of See3CAM_CU135 with Casing

4 Optical Specifications

The optical specification of lens is listed in following table.

Description	Specification
Imager Format	1/2.3" (1/3.2" for AR1335)
Focal Length (mm)	4.3
Aperture (F/#)	2.8
FOV	67°(D), 56°(H), 43°(V) (with 1/3.2" AR1335)
Distortion	< -1.2 %
Chief Ray Angle	N/A
Lens Barrel Thread	M12x0.5

Table 1: Optical Specifications of Lens



5 Mechanical Dimensions

The mechanical dimension of lens used in See3CAM_CU135 is shown below.

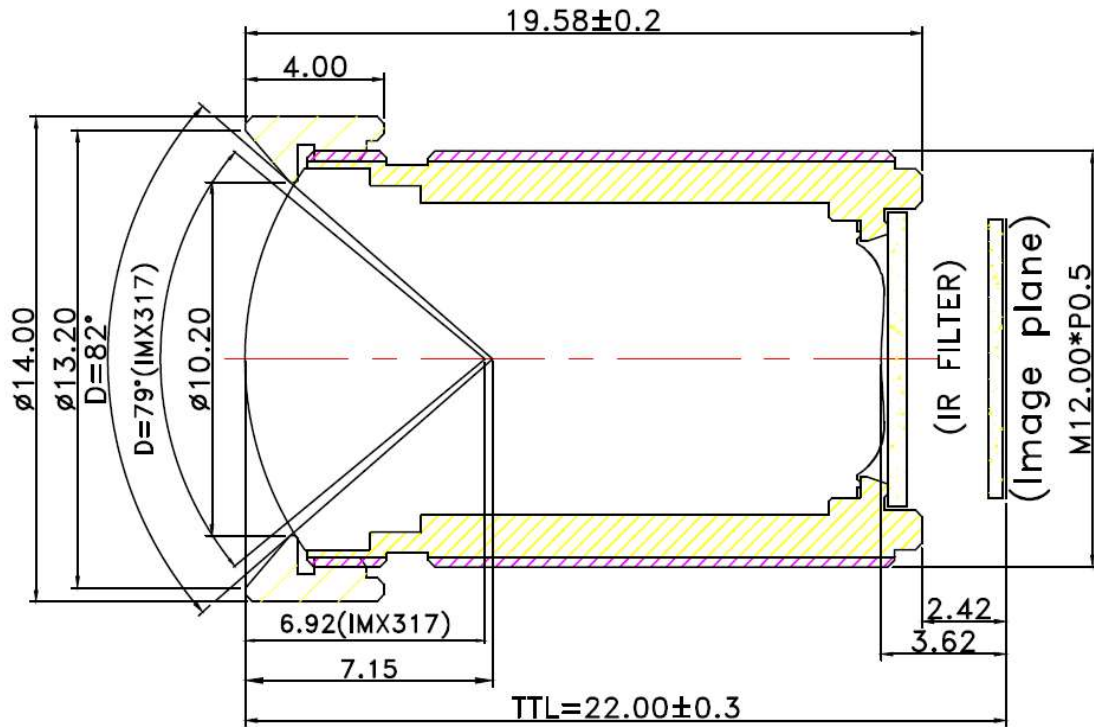


Figure 3: Lens Mechanical Dimensions

Note: All dimensions are in millimeter (mm).



Support

Contact Us

If you need any support on See3CAM_CU135 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>

