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STEEReoCAM NANO

Lens Datasheet

Revision 1.0

Monday, August 12, 2019

Contents

STEEReoCAM

1   Revision History

Rev	Date	Description	Author
1.0	12-08-2019	Initial Draft	Camera Dev Team

2   Introduction

STEEReoCAM is a Stereo Vision camera for NVIDIA® Jetson NANO™ platform from e-con Systems, a leading Embedded Product Design Services company which specializes in the advanced camera solutions. It is based on OV2311 - global shutter monochrome sensor from OmniVision.

STEEReoCAM is a monochrome 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. STEEReoCAM has two 1/2.9" OV2311 image sensors separated by an inter-ocular distance or base line of 100 mm. With Jetson NANO™, STEEReoCAM is capable of streaming the resolution and frame rate as shown in below table.

S.NO	Resolution	Frame Rate (fps)
1	3200 x 1300	30

Table1: Supported Resolution and Frame Rate

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

3   Disclaimer

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

4   Description

The lens used in STEEReoCAM is a high resolution, 1/2.3" format, and low distortion lens. The lens provides a maximum Field of View (FOV) of 77.9 degrees with 1/2.9" format OV2311 sensor.

5   Optical Specifications

The optical specification of lens is listed in below table.

Description	Specification
Imager Format	1/2.3" (1/2.9" for OV2311)
Focal Length	4.3 mm
Aperture (F/#)	2.8
FOV	77.9º(D), 54º(H), 49.5º(V) (with 1/2.9" OV2311)
Chief Ray Angle	N/A

Table 2: Optical Specifications of Lens

6   Mechanical Dimensions

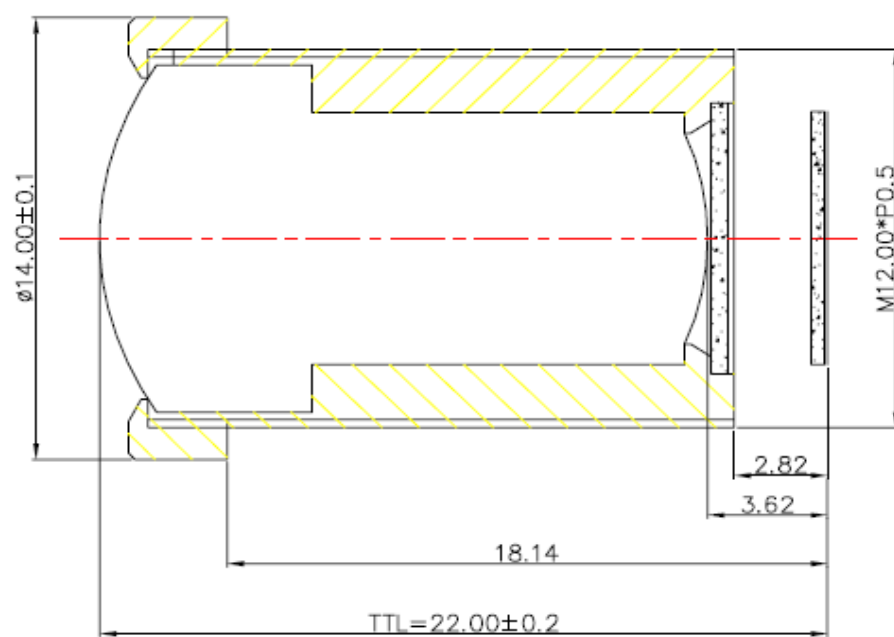The mechanical dimensions of lens used in STEEReoCAM is shown below.

Figure 1: Lens Mechanical Dimensions

Support

Contact Us

If you need any support on STEEReoCAM 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