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NileCAM20_CUNX

Lens Datasheet

Revision 1.1

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Contents

NileCAM20_CUNX Lens Datasheet

1 Revision History

Rev	Date	Description	Author
1.0	21-Dec-2021	Initial draft	Product Marketing Team

2 Introduction

NileCAM20_CUNX board has been designed and developed by e-con Systems for the NVIDIA® Jetson™ Xavier NX™ development kit. NileCAM20_CUNX is a 2 MP GMSL camera contains a 1/2.7" AR0230AT CMOS image sensor from ON Semiconductor® along with on-board ISP. The coaxial cable is connected to a Serializer Board through a rugged FAKRA connector. NileCAM20_CUNX is interfaced to the J1 and J9 connectors on the Jetson™ Xavier NX™ using the NileCAM20_CUNX Deserializer Board.

The NileCAM20_CUNX camera modules are provided with S-mount (also known as M12 board lens) metal lens holder. The S-mount is the small form-factor lens mounts for camera modules.

This document describes the optical specification of lens used in NileCAM20_CUNX.

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 NileCAM20_CUNX is a high resolution, 1/2.3" format, and wide-angle lens. It provides a maximum Field of View (FOV) of 128 degrees with 1/2.7" format AR0230 sensor.

5 Optical Specifications

The optical specifications of lens are listed in following table.

Description	Specification
Imager Format	1/2.3" (1/2.7" for AR0230)
Focal Length	2.8 mm
Aperture (F/#)	2.8
FOV	128°(D), 115° (H), 67.5°(V) (with 1/2.7" AR0230)
Distortion	<30 %
Chief Ray Angle	< 12.4°
Lens Barrel Thread	M12 x 0.5

Table 1: Optical Specifications of Lens

6 Mechanical Dimensions

The mechanical dimensions of lens used in NileCAM20_CUNX are shown in the following figure.
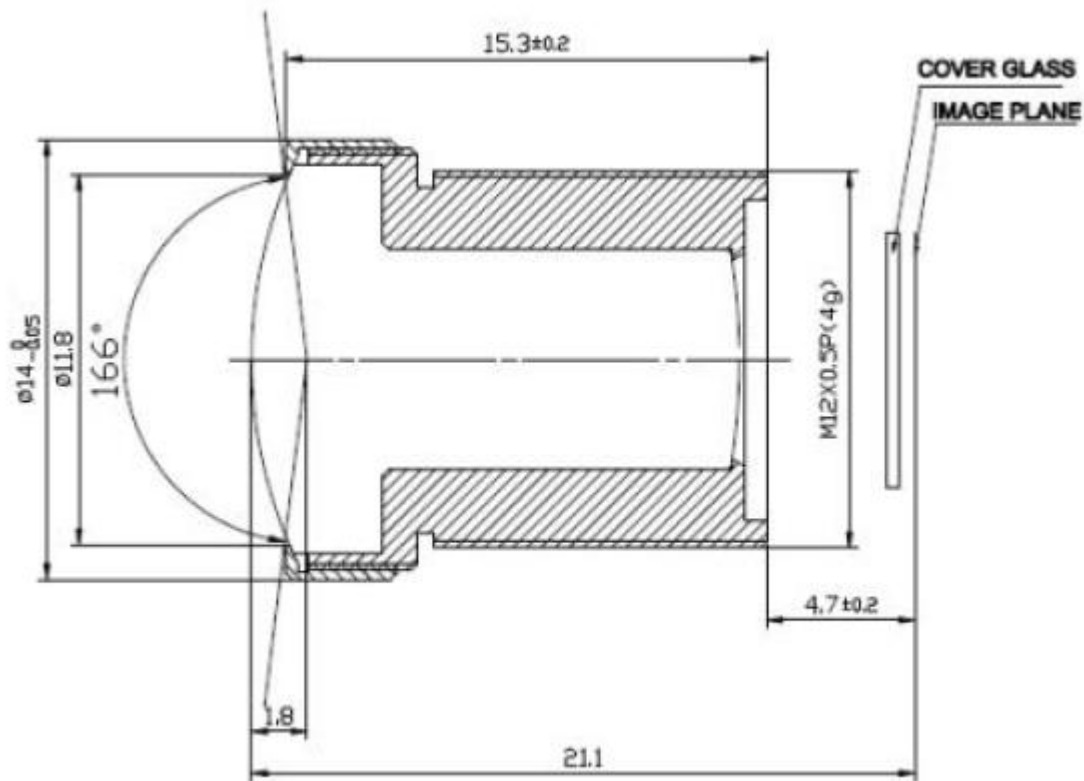

Figure 1: Lens Mechanical Dimensions

Note: All dimensions are in mm.

Support

Contact Us

If you need any support on NileCAM20_CUNX 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