

Intel® RealSense™ Depth Camera

D415C

Product Specification

Catalogue

1 Product Description

1.1 Overview

1.2 Version Summary

1.3 Feature Highlights

2 Technical Reference

2.1 Mechanical Drawings

2.2 Photos

2.3 Power Supply and Working Environment

3 Product SKU

3.1 Product SKU Summary

1 Product Description

1.1 Overview

Intel® RealSense™ Depth Camera D415C series is assembled from the D415 lens module, D4 data board, and uses a high-precision CNC housing process. Through SDK2.0, the left and right IR gray-scale map, depth map, RGB color map and original 3D point cloud data can be obtained.

1.2 Version Summary

Version	Revision History	Time
1.0	Init First Version	2024.07

1.3 Feature Highlights

Hardware Technology	Intel® RealSense™ Depth Module D415 Intel® RealSense™ Vision Processor D4 Board
Use Environment	Indoor / Outdoor
Binocular Baseline	55mm
Depth Accuracy	≤2% (720P @ 2m, 80% ROI)
Depth FOV ^[1]	H:65° / V:40° / D:72°
Depth Resolution @ Frame Rate ^[2]	1280×720@30fps / 848×480@90fps
Minimum Depth Distance(Min-Z) ^[3]	1280×720@≈450mm
Depth shutter type	Rolling Shutter
RGB FOV	H:69° / V:42° / D:77°
RGB Resolution @ Frame Rate ^[4]	1920×1080@30fps / 960×540@60fps
RGB shutter type	Rolling Shutter
Working temperature	0~35℃
Dimensions	99mm×23mm×20mm (±0.3mm)
Data and power interface	TYPE-C
Installation	Imperial system at the bottom 1/4-20 Mounting hole×1 Back M3 Mounting hole×2

[1]H = Horizontal FOV, V = Vertical FOV, D = Diagonal FOV.

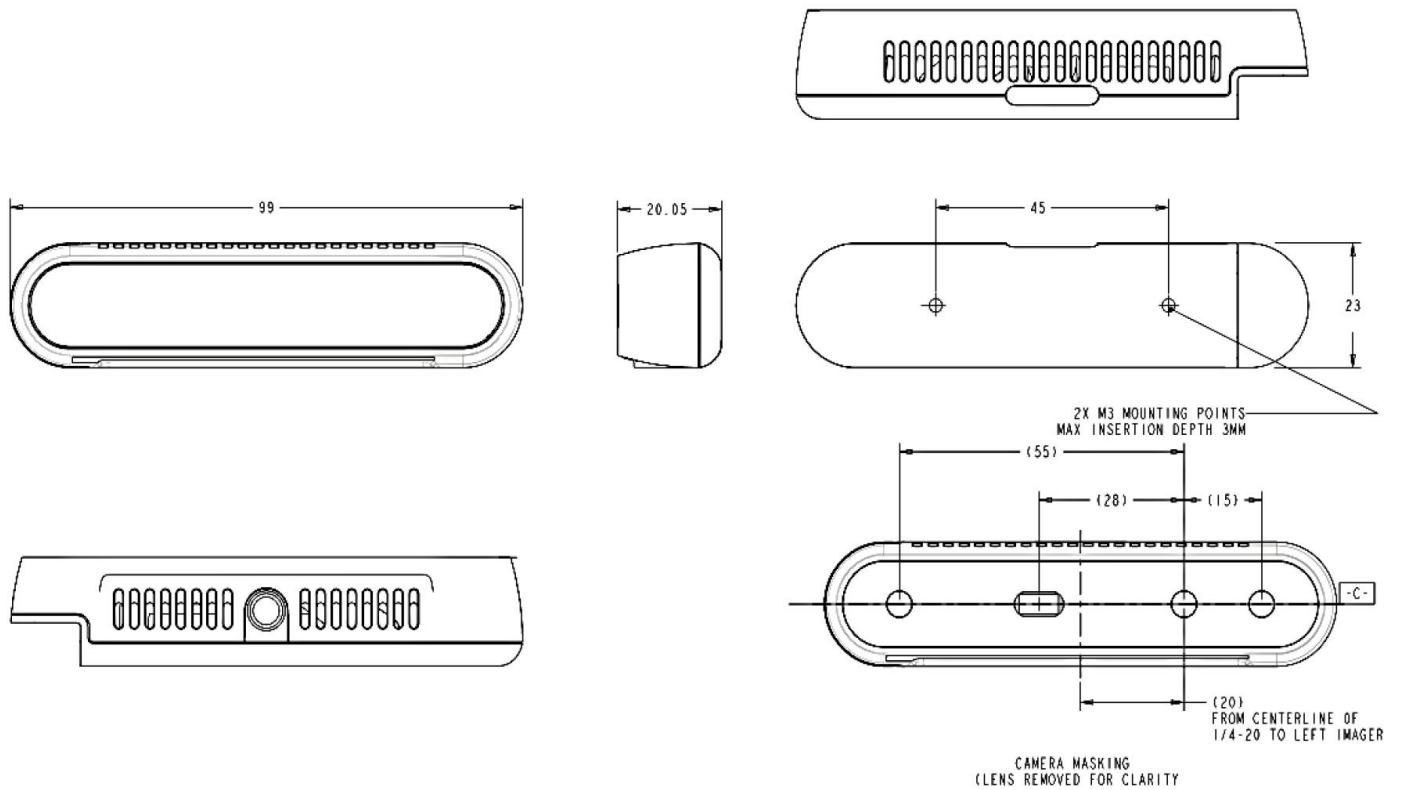
[2]The USB3.1 interface is required. For USB2.0, the maximum support is 1280 x 720@6FPS / 480 x 270@60FPS.

[3]The minimum distance of Depth Output is about 0.45m, that is, those less than this distance are binocular blind areas, and there is no effective Depth Output.

[4]The USB3.1 interface is required. For USB2.0, the maximum support is 1280×720@15FPS / 424×240@60FPS.

2 Technical Reference

2.1 Mechanical Drawings



2.2 Photos





2.3 Power Supply and Working Environment

Supply Voltage	5.00V (± 0.25 V)
Supply Current	700mA
Working Temperature	0°C ~ +35°C
Storage Temperature (No Electricity)	0°C ~ +50°C

3 Product SKU

3.1 Product SKU Summary

SKU	Photos
D415C	