

Near-Range 3D Camera Solutions

LIPSEdge™ L215u/L210u 3D Structured Light Camera

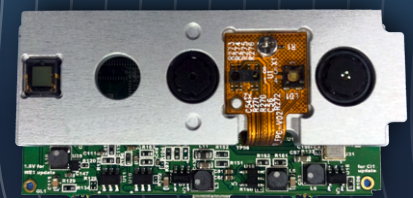
LIPSEdge™ L215u/L210u series is the ideal camera solution for 3D Depth applications that require near-range distance with excellent high-depth accuracy. Suitable for use-cases where details are the key factors that differentiate from other solutions when encountering scenarios with high demand. Supporting the most and widely used Computer Vision frameworks, it extends the possibility of implementing solutions without limits

Product Highlight

- High Accuracy 0.3% at 100cm for close-range details
- Non-visible Near Infrared Light at 940nm wavelength
- Precision with VCSEL Illumination technology
- Compact Size Module and Small form factor
- Global Shutter for Fast speed without Motion Blur
- Robust and complete SDK implementations from LIPS®
- Compatible industry wrappers: ROS, OpenCV, OpenNI, Nvidia Isaac



L215u



L210u

Application Use-cases



Facial Recognition



Dimension Measurement



Defect Inspection



Pick & Place Robot



3D Precision Scanning



Reverse Engineering

Product Features

■ Small form factor:

- LIPSEdge L210u Module: 54 x 25 x 11.3 mm
- LIPSEdge L215u with Housing: 63 x 30.2 x 17 mm

■ High Accuracy:

- FOV 50° x 74° x 84° (+/- 3°)
- 0.3% @ 100cm with depth resolution 1280x800

■ Sunlight resistance of 80K for outdoor scenes @ 100 cm

■ Low Power consumption at 1.4W

■ Cross Platform OS Support: Windows & Linux

■ Scalability into multiple application solutions

- LIPSMetric™ Handheld Dimensioning
- LIPSFACE™ 3D Facial Recognition
- LIPSense™ Touchless Control
- LIPScan 3D™ Scan SDK



Specifications

Depth	Technology	Structured Light
	Max. Working Distance	1.2 m
	Min. Working Distance	0.4 m
	Resolution/Frame Rate (USB output)	1280x800/6fps (16b raw) 640x480/25fps(16b raw)
	FoV (H x V x D)	50.7° x 74.2° (+/- 2°)
	Shutter Type	Global shutter
	Z Accuracy	0.3% @ 100cm
RGB	Resolution/Frame Rate (USB output)	1280x800/6fps (YUV) 640x480/25fps (YUV)
	FoV (H x V x D)	H:45.89°@UXGA, 38.86°@720p, 45.89°@VGA V: 58.89
	Shutter Type	0.3% @ 100cm
Illumination	Illumination Type	Infrared
	IR Wavelength	940 nm
	Illuminating Component	Vertical-cavity surface-emitting laser (VCSEL)
General	Dimension (mm)	Module: 54.0mm x 25.0mm x 11.3mm Case: 63.0mm x 30.2mm x 17.0mm
	Weight(g)	Case: Approximately 85 g (module: 16.4 g)
	Ambient Temperature	0 ~ 40°C
	Storage Temperature	-20 ~ 60°C
	Output Interface	Micro USB (USB2.0)
	Power	USB power-in, DC 5V/1A
	Supported OS	Windows 10, Linux Ubuntu 18.04 /20.04 / 22.04 LTS
	Working Environment	Indoor

