

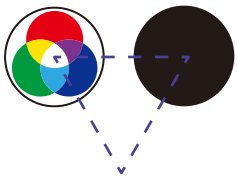


# LIPSedge™ T225 / T235

## Compact 3D ToF Camera

LIPSedge™  
T225 / T235

- VGA ToF depth with  $\leq 1\%$  accuracy for reliable 3D sensing.
- 5MP RGB camera for enhanced visual perception.
- Onboard FPGA for fast, low-latency ToF processing.
- Global Shutter for accurate depth capture of fast motion.
- LIPSedge™ SDK with broad industrial framework support



High Precision and Accuracy Depth Sensing



Efficient ToF Decoding



All-Condition Performance



Easy Integration



Factory Automation



Gesture Recognition



Security & Scanning



3D Object Dimensioning



3D Body Pose Tracking



# Specifications

LIPSedge™ T225	
SoC	FPGA
Depth Resolution	640x480 @30fps
RGB Resolution	N/A
Measurement range	0.3m ~ 7m
Depth precision	<= 1%
Viewing angle (H x V x D)	85° x 69° x 98.9° 100.5° x 81.5° x 120°
Illumination	940 nm VCSEL
Depth Max. Framerate	Up to 30fps
Interface	USB 3.0 Type-C (data only) External power 5V3A
Data Output	3D Point Cloud, IR Image
Ambient Temperature	0°C ~ 50°C
Software	LIPSedge™ SDK (OpenNI2 based with C++, OpenCV, Python and more to come)
Industrial Frameworks	Genicam, ROS/ROS2, MVTec Halcon, Zebra Aurora Vision, NVIDIA Isaac
Operating System	Windows 10, Ubuntu 20.04/22.04 LTS, NVIDIA Jetson Linux
Camera Size	90 x 35 x 25 mm; the dimension is based on the present version design

LIPSedge™ T235	
SoC	FPGA
Depth Resolution	640x480 @30fps
RGB Resolution	2560x1920 @30fps
Measurement range	0.3m ~ 7m
Depth precision	<= 1%
Viewing angle (H x V x D)	85° x 69° x 98.9° 90° x 71° x 117°
Illumination	940 nm VCSEL
Depth Max. Framerate	Up to 30fps
Interface	USB 3.0 Type-C (data only) External power 5V3A
Data Output	3D Point Cloud, IR Image
Ambient Temperature	0°C ~ 50°C
Software	LIPSedge™ SDK (OpenNI2 based with C++, OpenCV, Python and more to come)
Industrial Frameworks	Genicam, ROS/ROS2, MVTec Halcon, Zebra Aurora Vision, NVIDIA Isaac
Operating System	Windows 10, Ubuntu 20.04/22.04 LTS, NVIDIA Jetson Linux
Camera Size	90 x 35 x 25 mm; the dimension is based on the present version design

## LIPSedge™ SDK Build Once, Deploy Without Limits

**Application Layer**

- Applications with LIPS™ SDK & Middleware
- LIPSense™
- LIPSMetric™
- LIPSolution™

**Industrial Frameworks:** HALCON (a product of MVTec), ZEBRA Aurora™ Vision, GENICAM, ROS, ROS2, NVIDIA ISAAC (Isaac Libraries and AI Models for Mobility), NVIDIA ISAAC, Unity, Flutter.

**Cloud & IoT:** Industrial, Cloud A.I., IOT, AR / VR.

**OpenNI<sup>2</sup>**

**App & Sample Codes:** Depth Viewer, Point Cloud Viewer, Stream & Record ... more

**Edge Accelerator Card:** Low Latency Processing, Robotics Edge Acceleration

**Operating Systems:** Windows, Linux, Jetson Linux, ANDROID

**Platforms:** x64 Platforms, NVIDIA Jetson(arm64)

**Interfaces:** PoE, GMSL, USB, MIPI, HOLOSCAN

**Camera Models:** LIPSedge™ AE Series (Active Stereo) Industrial, Industrial 5.0 TOPS Edge Computing; LIPSedge™ S (Active Stereo) High Performance Edge Computing; LIPSedge™ DL (ToF); LIPSedge™ M3 (ToF); LIPSedge™ T (ToF); LIPSedge™ L (Structured Light)

**Supported Languages:** Java, C#, .NET, python

**Compatible with:** OpenNI™, OpenCV

LIPSedge™ Active Stereo, ToF, and Structured Light 3D Cameras — compatible with Intel RealSense®



www.lips-hci.com  
info@lips-hci.com

+886-2-8791-6998

2F., No.100 Ruiguang Rd., Neihu Dist., Taipei City 114, Taiwan

