LIPS

COMPACT 3D ToF CAMERA SERIES

LIPSedge™ T225 / T235 Series

Compact 3D ToF Cameras

Reliable depth in a compact form, with onboard FPGA processing and ready-to-integrate software support.



Camera Options



T225 / T225W

DEPTH CAMERA

Depth: 640 × 480 @ 30 fps
T225: Standard FoV | T225W: Wide FoV



T235 / T235W

DEPTH + RGB CAMERA

Depth + RGB: 640 × 480 @ 30 fps
T235: Standard FoV | T235W: Wide FoV

FAST FACTS

USB 3.0 Type-C | External 5V3A

0°C - 50°C | 81.85 x 35.71 x 23 mm*

Key Feature

Reliable VGA Depth

640 x 480 @ 30fps with typical ≤1% depth accuracy.

FPGA Edge Processing

Onboard FPGA enables fast, low-latency ToF processing.

Global-Shutter Capture

Supports accurate depth capture for fast-moving subjects.

Industrial SDK Integration

OpenNI2, OpenCV, ROS/ROS2 and industrial vision frameworks.

Turnkey Value Flow - From Sensor to Solution

01 **T225 / T235 Series Hardware**
ToF sensing
FPGA processing

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02 **Reliable 3D Depth**
3D point cloud
IR image

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03 **SDK & Frameworks**
LIPSedge SDK
OpenNI2 / ROS / OpenCV

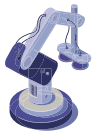
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04 **Business Deployment**
Automation / gesture scanning / dimensioning

Performance at a Glance

640 x 480	≤ 1%	0.3 m–5 m+	940 nm
VGA DEPTH @ 30FPS	TYP. DEPTH ACCURACY	MEASUREMENT RANGE	VCSEL ILLUMINATION
Shared across all four models			

Real-World Applications



Factory Automation



Gesture Recognition



Security & Scanning



3D Dimensioning



Body Pose Tracking

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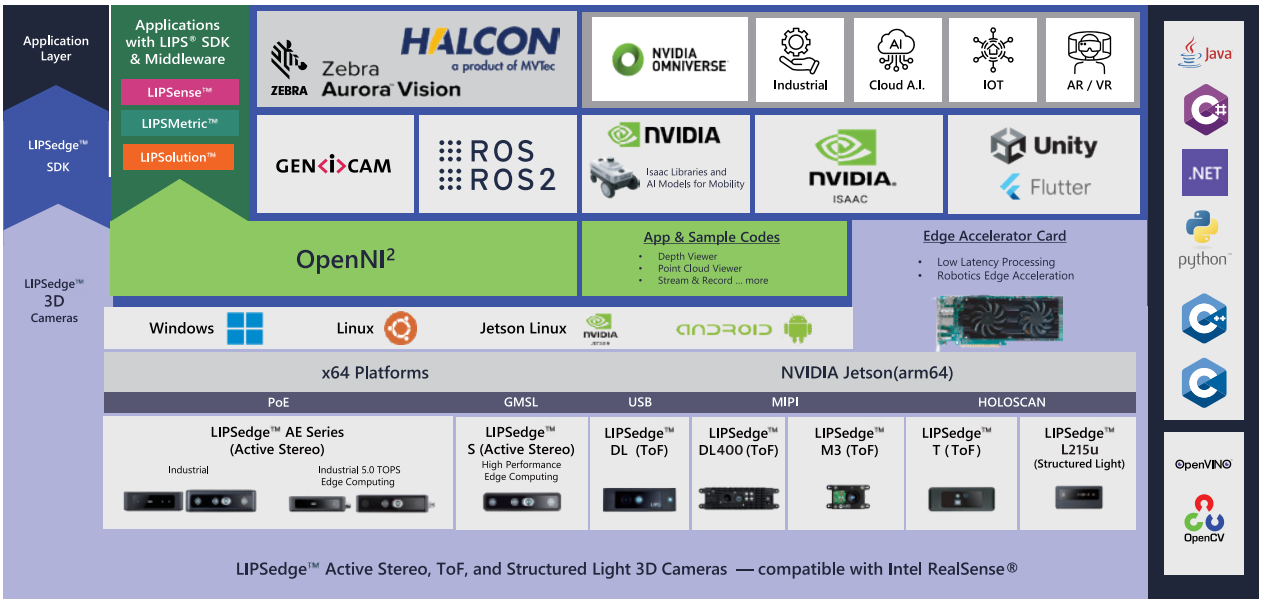
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LIPSedge™ T225 / T225W / T235 / T235W Technical Specifications

System	T225	T225W	T235	T235W
SoC	FPGA			
Depth Image				
Depth Resolution & Frame Rate	640 × 480 @ 30 fps			
Measurement Range	0.3 m–5 m+			
Z Accuracy	≤1% Typ.			
Shutter Type	Global shutter			
Depth FoV (H × V × D)	85.1° × 69° × 98.9°	100.5° × 80.5° × 120°	85.1° × 69° × 98.9°	100.5° × 80.5° × 120°
RGB Image				
RGB Output / Sensor	N/A		640 × 480 @ 30 fps output 5 MP sensor (2592 × 1944)	
RGB FoV / Shutter	N/A		71.1° × 56.8° × 84° (H × V × D) Rolling shutter	
Illumination				
Light Source & Wavelength	940 nm VCSEL			
Sunlight Resistance	80K lux			
General				
Interface	USB Type-C			
Power Supply	DC 5 V / 3 A			
Weight	98 g			
Ambient Temperature	0–50 °C			
Camera Size	81.9 × 35.7 × 23.0 mm			
Supported OS / Environment	Windows 11 / Linux 24.04 LTS / Jetson Linux Indoor			
Software				
SDK	LIPSedge SDK (OpenNI2 based)			
Industrial Frameworks	GenICam, ROS/ROS2, MVTec HALCON, Zebra Aurora Vision, NVIDIA Isaac			

RGB output mode and native sensor resolution are shown separately.

LIPSedge™ SDK Build Once, Deploy Without Limits



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