

SeerSense™ XR50 Module

A highly integrated edge solution for VSLAM, AI, and CV

Package



SeerSense™ XR
HW Engines



SeerSense™ SDK
SLAM/AI/CV SDK



SeerSense™ TC
Tool Chains

System Spec

Item	Spec	Remark
Processor	Intel Movidius VPU	
Cameras		
-Stereo Fish Eye	640x480, DFOV166°, 50fps	Mono, Global shutter
Baseline	50mm	
IMU	9 Axis, 1000Hz	
VSLAM Engine	500-1000Hz 6DoF, mm accuracy	Edge processing, Multimode
Depth Engine	Passive Stereo	
Power Consumption	<1.5W	
Interface	24pin FPC USB2.0, SPI, I2C, UART	
Weight Size	15.5g 75x14x8.9	LxDxH(mm)

Key Benefits

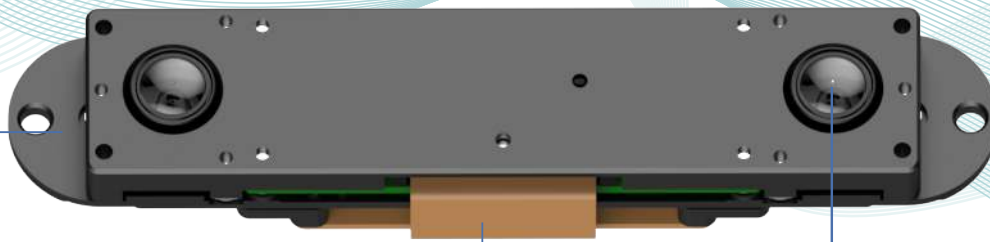
- Independent VSLAM computing unit, without host intervention
- Multiple working modes, USB2.0 interface, BT5.0 adapter, easy to connect to AR/VR and robotic devices
- Miniaturized, low-consumption design
- Customizable for different baseline and ID requirement

Applications

- AR/VR HMD, Service robot, Drones, AGV, Factory automation
- 3D scanning and reconstruction
- Depth sensing with OPENCV engine

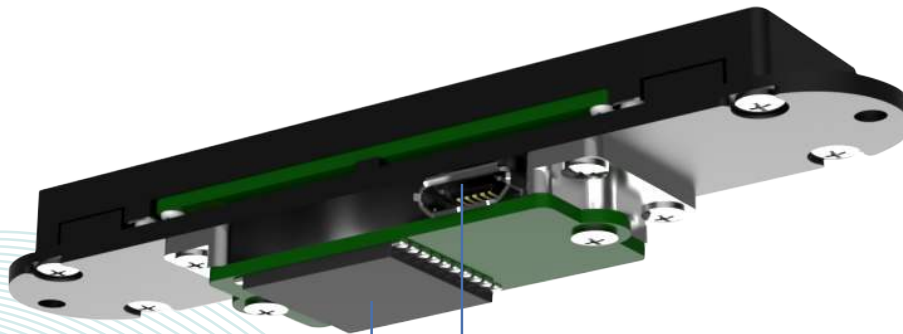
Innovating machine perception capability beyond human capacity

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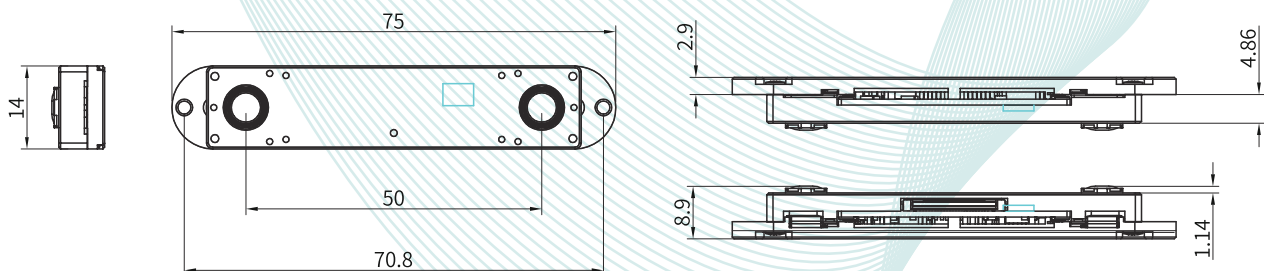
Fisheye Camera x 2

USB2.0, SPI, I2C, UART Port
Customized design FPC



Micro USB2.0 Port (Option)

BT Module(Optional)



Dimension (mm)

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