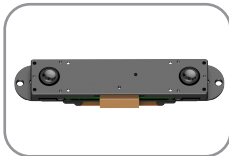


SeerSense™ XR50 Module

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

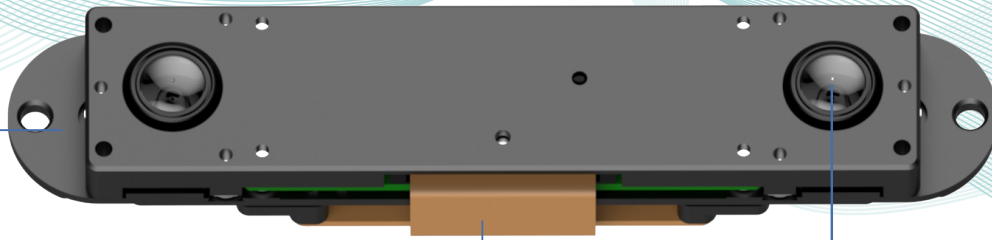
- Independent VSLAM computing unit, without host intervention
- Multiple working modes, USB2.0 interface, BT5.0 adapter, easy to connect to AR/VR and robotic devices
- Miniaturized, low-consumption design
- Customizable for different baseline and ID requirement

Applications

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

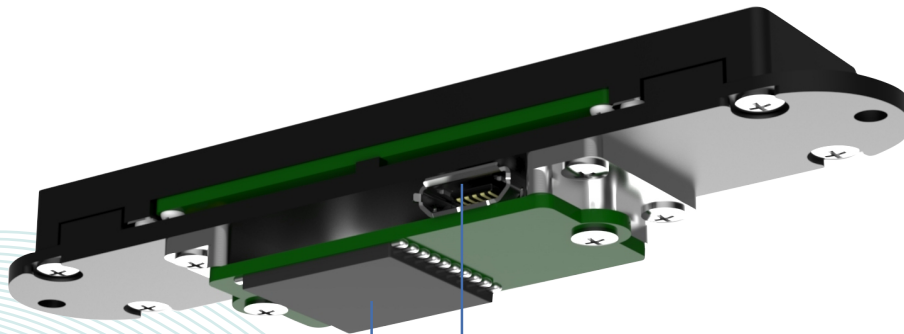
Innovating machine perception capability beyond human capacity

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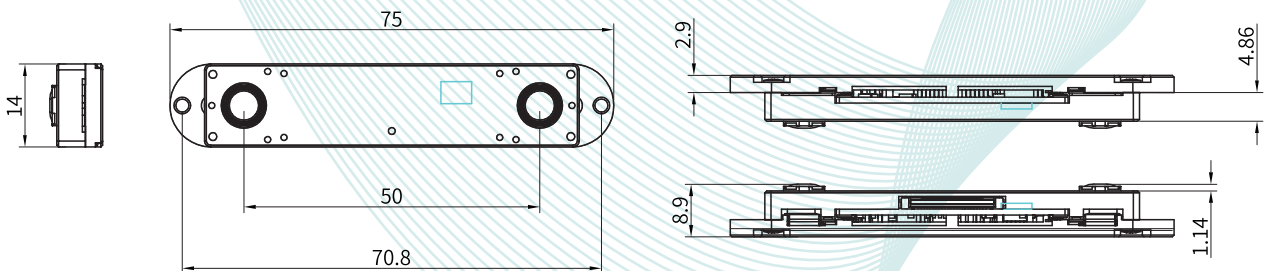


Fisheye Camera x 2

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



Micro USB2.0 Port (Option)
BT Module (Option)



Dimension (mm)

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