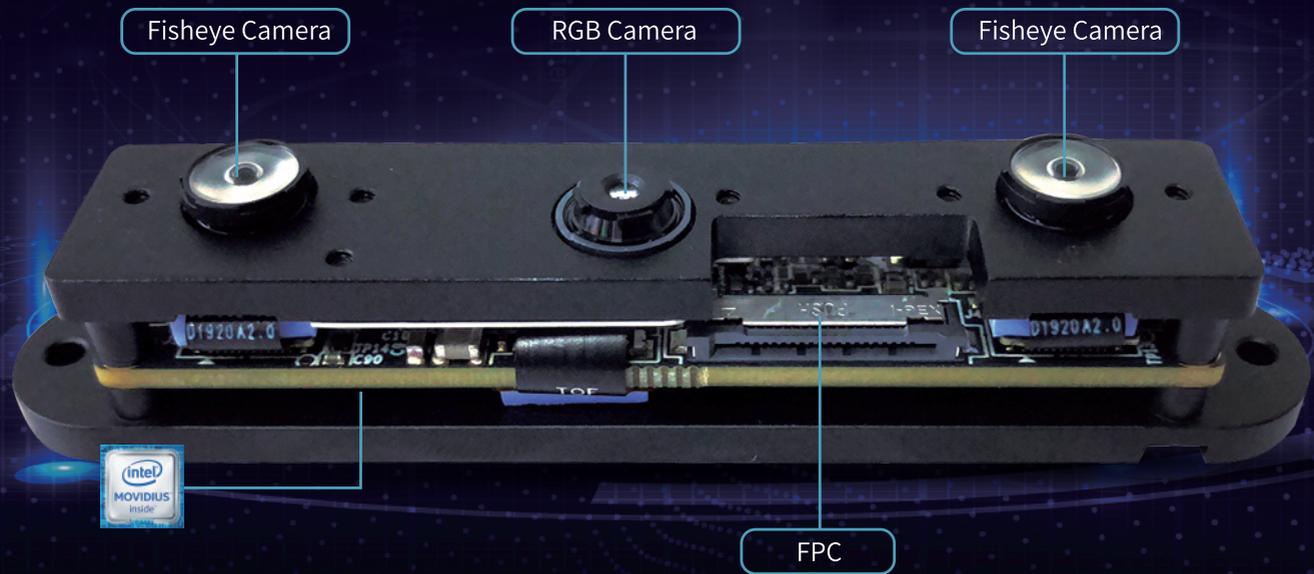


3D XR VISION

A Proven 6DOF VSLAM Solution for
Mobile AR/VR HMD and Glass



3D XR Vision - 45



VR/AR HMD/glass



6DOF Controller



Object Detection



Depth and Dimension
Measurement

It can be easily and quickly integrated into multiple OS and hardware platforms.



Hardware Spec

Fisheye Camera

| | |
|---|-----------------------------------|
| Baseline 45mm | Frame rate up to 100fps |
| Resolution 640X480 Global Shutter | FOV (H/V) 133°/100° |

TOF Depth Camera (Optional)

| | |
|---|------------------------------|
| Resolution 224x172 | Frame rate 5-30fps |
| Depth range 0.3-5meter , 1% accuracy | FOV (H/V) 60°/45° |

RGB Camera (Optional)

| | |
|--|----------------------------|
| Resolution 13M for still, 2M(1080) for video | |
| Frame rate 30fps | FOV(H/V) 68°/53° |

System Character

| | |
|--|--|
| Output interface USB 3.0 over 20 pin FPC | Demension 76.8mm*15.6mm*13mm |
| Weight less than 20g | Total power consumption less than 2.5W |

Highly configurable design

Mass production ready now

Proven solution for key leading AR glass OEM

(*) Performance is determined by the environment

Key System performance Spec

vSLAM

VIO and VSLAM modes with edge computing engine.

6DOF refresh rate
up to 200fps

Latency
less than 6ms

Tracking accuracy
less than 1% of distance traveled

Static Jitter
less than 1mm in translation and 0.02 degree in rotation

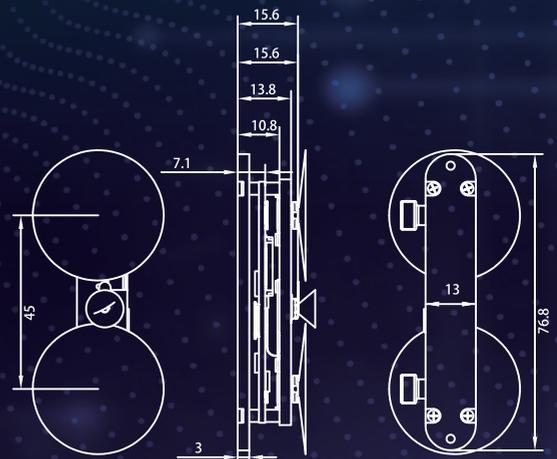
Re-localization
less than 1 second

Tracking area
adaptable

AR SDK:
Android , Windows, Linux

AI

- Caffe and Tensorflow
- configurable
- run on the edge
- All tool chains are compatible to Intel NCS



XR 45-FR



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