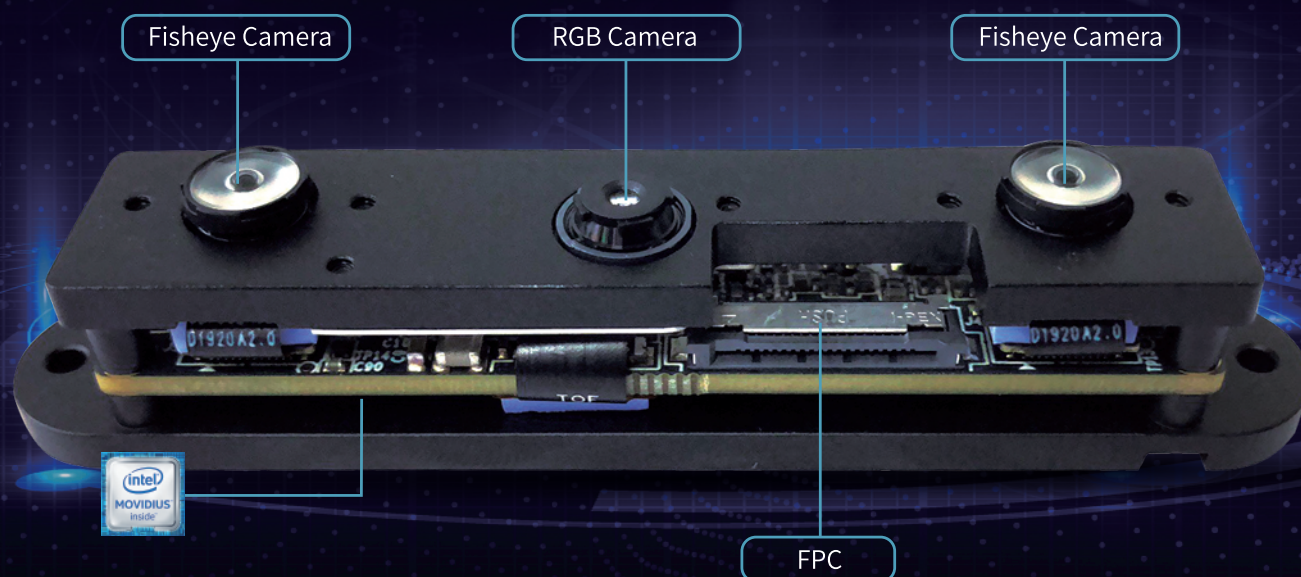


# 3D XR VISION

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



3D XR Vision – 45



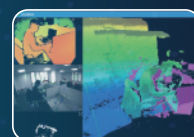
VR/AR HMD/glass



6DOF Controller

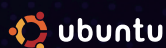


Object Detection



Depth and Dimension  
Measurement

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





## Hardware Spec

### Fisheye Camera

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

### TOF Depth Camera (Optional)

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

### RGB Camera (Optional)

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

### System Character

<b>Output interface</b> USB 3.0 over 20 pin FPC	<b>Demension</b> 76.8mm*15.6mm*13mm
<b>Weight</b> less than 20g	<b>Total power consumption</b> 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

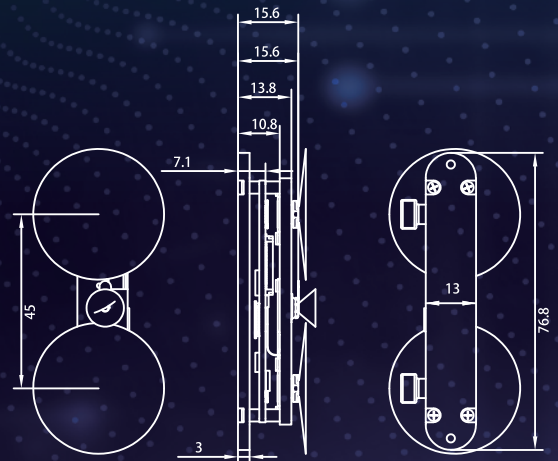
**Re-localization**  
less than 1 second

**Tracking area**  
adaptable

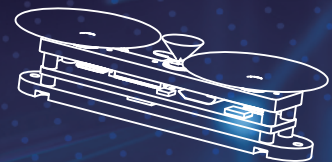
**AR SDK:**  
Android , Windows, Linux

### AI

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



XR 45-FR



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