SeerController™

A patented wireless self-tracking 6DoF controller
（patent number：China 2018102919165, USA 15874842）

Package

SeerController ™

SeerController™ SDK

System Spec

Item	Spec	Remark
Processor	High-performance SOC	8 Cores
Memory	64GB+32Gb	EMMC+LPDDR
Operation Principle	VSLAM based 6DoF tracking	Optical inside-out tracking
Sensors		
-Stereo Fisheye Cam	640x480x2, FOV160°	Mono, Global shutter
-IMU	6 Axis, 1000Hz	
-Vibration feedback	linear motor	
Tracking Accuracy	mm level repeatability, resolution	
Tracking Latency	Motion to Data <15ms	Support pose prediction
Tracking Speed	2 meter/sec motion	6DoF update at 1000Hz
Re-localization Time	<1sec	In case of temporary lost
Operating Mode	With Map or Without Map	Between devices
Operating Range	<10 meters from the host	Can work independently
Interface	BT | 2.4G | WiFI	
Button	Toggle button, calibration button, joystick A/B function buttons, side button	
Power Consumption	<1.8W, low power mode <1.2W	Battery Powered
Weight | Size	<215g | 150x70.5x36	LxWxD (mm)
SDK	Windows/Linux/Android	Windows/Linux/Android

Innovating machine perception capability beyond human capacity

Status LED

Joystick button

On/Off

Function button

Calibration button

Trigger button

Tracking CameraX2

SeerController™

Key Benefits

- Immediate, standalone 6DoF controller with relative and absolute stable pose tracking
- Cross hardware and OS platforms -**Windows, Linux, and Android** with **Unity plug in**
- Work seamlessly with Xvisio AR/VR HMD device with map sharing

Applications

- 6DoF AR/VR/MR controller
- 6DoF Mouse for PC and 3D large screen TV