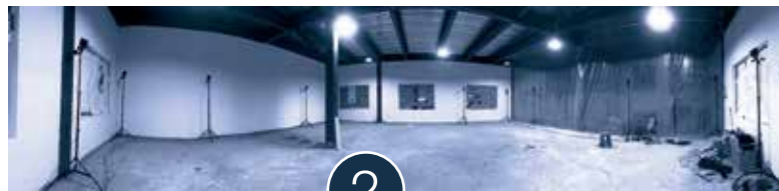


## Case Studies



1

Consumer Electronics Show (CES), Las Vegas, the United States  
Military simulation training



2

University of Science and Technology of China  
Positioning and tracking of multiple virtual reality helmets and controllers, to realize large-space virtual interaction of multi-person free movement through real-time data acquisition of the interactive devices' change of position and angle, see "Siggraph2018" for relevant research findings.



3

Laval Virtual, Laval, France  
Connected with Longtek MakeReal3D software, demonstrating industrial virtual simulation on site

## Motion Capture Camera MARS Series

Possibly the most cost-effective optical motion capture solution at present.



Model	Resolution	No. of Pixels	Frame Rate	Latency	FOV	Interface
Mars 1.3H	1280×1024	1.3MP	240Hz	4.0ms	57°×44°	GigE/PoE
Mars 1.3HW	1280×1024	1.3MP	240Hz	4.0ms	80°×70°	GigE/PoE
Mars 2H	2048×1088	2.2MP	380Hz	2.4ms	69°×40°	GigE/PoE
Mars 2HW	2048×1088	2.2MP	380Hz	2.4ms	104°×55°	GigE/PoE
Mars 4H	2048×2048	4.1MP	180Hz	5.2ms	52°×52°	GigE/PoE

We also offer customized models, please email us for more information.

## ORBIT

Plug and play, no calibration required.

- Turn on and play, no calibration required.
- Fast mounting bracket is available, which can be installed directly on TV.
- Close-range models is available for desktop ultra-close-range motion capture.



## PLUTO

Motion capture system designed for entry-level developers, as well as commercial and consumer-grade product development & integration

- Highly cost-effective
- Small, light and portable
- Track moving objects at constant speed (5m/s), to meet the capture requirements for millimeter accuracy
- Support IEEE 802.3af/at standard POE system, and provide optional network of power supply system for developers without link restriction



## Virtual Reality Accessories

Optional accessories

- Virtual Reality Controller
- Helmet position tracker

Product Features

- Interactive devices for virtual reality solutions
- High-precision 6DoF (position, direction) tracking
- Improved immersive experience
- Position tracking with sub-millimeter accuracy
- Integrated with straight screen, circular screen, arc screen, CAVE and other equipment
- The data supports VRPN, which can be directly transmitted to Unity or Unreal.



Virtual Reality Controller



Helmet position tracker

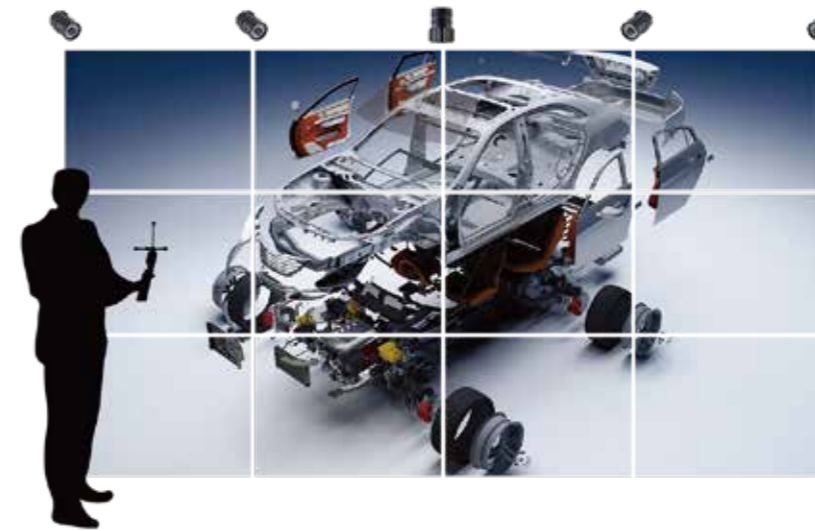


NOKOV Motion Capture System  
Applications in Virtual Reality



# NOKOV

Application in Virtual Reality



Integration of NOKOV Motion Capture System with Straight Screen



Integration of NOKOV Motion Capture System with CAVE

### Integrated Devices

- HMD
- Straight/circular/arc screen
- CAVE

### System Functions

- Provide 6DoF data for HMD
- Provide 6DoF data for controllers
- Provide 3D coordinates information of whole-body movement

### Solutions

- Virtual simulation
- Virtual Reality Entertainment in Large Space
- Teaching Practice of Smart Education
- Military simulation training

### Data Input Software

- VRPN
- Matlab
- Unreal Engine
- Unity
- Motion Builder



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