

Data Provided by NOKOV

- The position, orientation, etc.
- The Yaw, Roll, Pitch, Quaternion, Euler angle, etc.
- The Speed, acceleration and other basic motion information
- The 3D coordinates of any part of the Target Multi-Agent and its overall space location information
- The speed, acceleration of each agent, and its relative distance, speed, etc.
- The joint angle of a human, animal, or robot

- Providing basic motion data for Data Driving and Control of UAVs and Robotics
- Providing truth values in the validation of motion planning and control methods for Robotics and UAVs
- Providing real-time feedback for the motion of multiple agents

Applicable to

- Control, navigation and guidance of space aircrafts
- Network Cluster and Network Control
- Multi-Agent Team Formation and Cooperation
- UAV Autonomous Obstacle Avoidance and Following
- UAV Motion Planning and Control



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Case Studies



Supports with Exoskeleton Robots Design by Beihang University



Optimization of Robotic Arm Control by Wuhan University



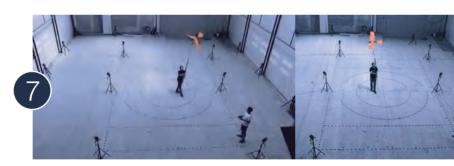
Optimization of Hexapod Robot Algorithm by Shanghai Jiaotong University



Treatment Robot by Xi'an Jiaotong University



UGV Direction Control by China Automotive Technology & Research Center (CATARC)



Optimizing Flapping-wing Aerial Robot in Super Space by Harbin Institute of Technology



Inspection of Power Tower by China Electric Power Research Institute (CEPRI)

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System Functions

- Data Acquisition It can acquire data including 3D coordinates, 6Dof, joint angle, Yaw, Roll, Pitch and Euler angle, and provide consistent and smooth motion data for the pose control and motion planning of robotics/UAVs.
- Development of Experimental Network Platform for Multi-agent Collaborative Control As a positioning system, it can help devlop the Experimental Network Platform for Multi-agent Collaborative Control, and thus realize the large-scale multi-agent collaborative control.
- **Secondary Development** Data can be input into Matlab, C++ and other software in real time through SDK for secondary development and application.

Motion Capture Cameras

MARS Series

Specilized in the Core Performance of Motion Capture



	Model	Resolution	No. of Pixels	Frame Rate	Latency	FOV	Interface
	Mars 1,3H	1280×1024	1,3 MP	240 Hz	4.0 ms	57°×44°	GigE/PoE
	Mars 2H	2048×1088	2.2 MP	380 Hz	2.4 ms	69°×40°	GigE/PoE
	Mars 4H	2048×2048	4.1 MP	180 Hz	5.2 ms	52°×52°	GigE/PoE
	Mars 12H	4096×3072	12 MP	300 Hz	3,0 ms	67°×52°	GigE/PoE

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



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