

AI Tower Crane System

Embodied AI Enables Safer Lifting

The 49th International Exhibition of Inventions of Geneva:

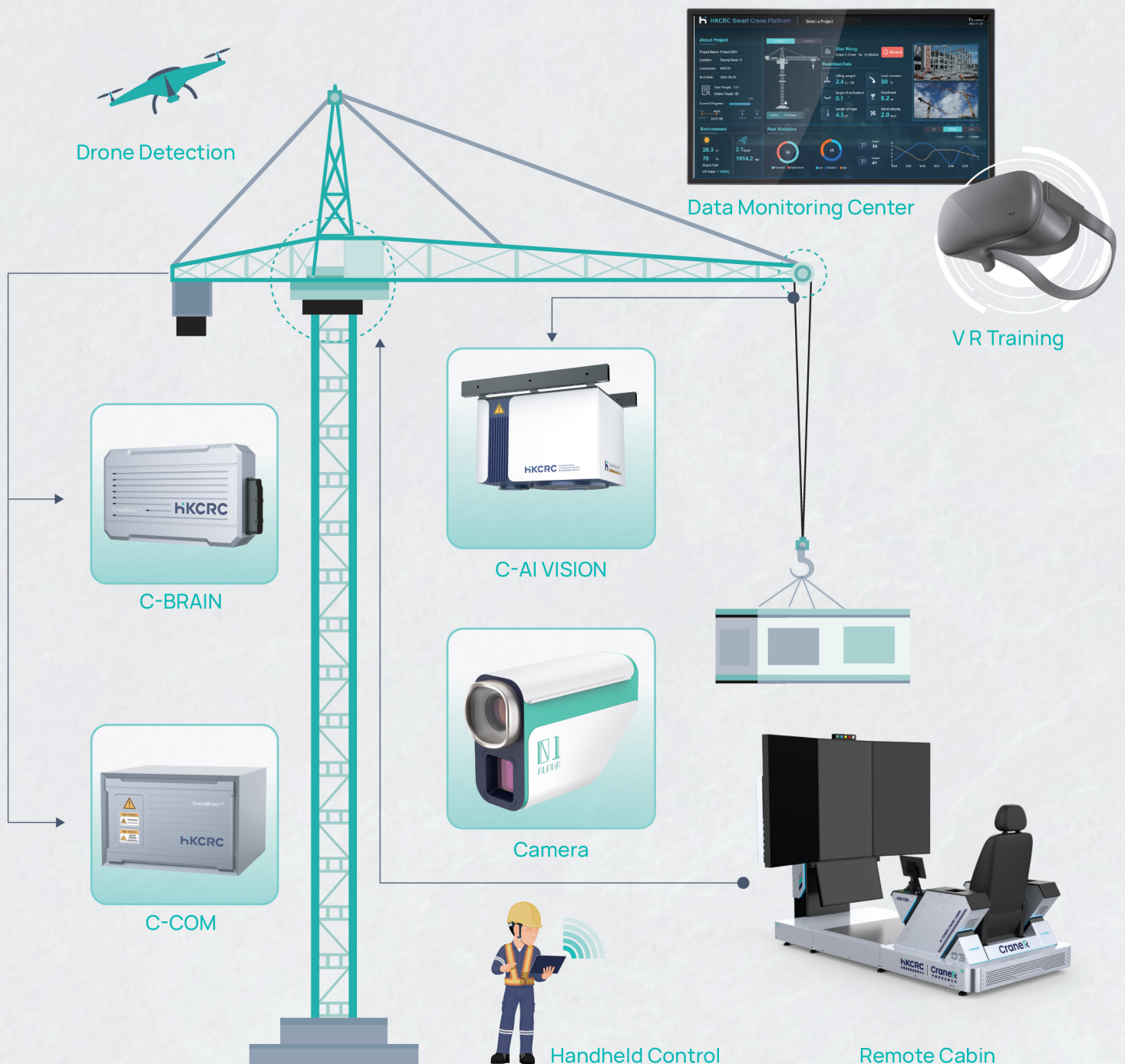
**Gold Medal with Congratulations
of the Jury**



AI Tower Crane System

The AI Tower Crane System can be applied in various fields such as construction, ports, logistics, and industrial manufacturing. By integrating embodied intelligence and artificial intelligence technologies, it constructs a comprehensive environmental perception and autonomous decision-making system, achieving a breakthrough upgrade in Tower Crane operations.

The system incorporates an AI 3D modeling detection module, an intelligent main control system, and high-precision LiDAR technology. It features core functionalities such as remote control lifting, AI stable hook, AI-based safety monitoring, and AI-assisted route planning. Additionally, the system adopts a ground-based centralized control mode, transforming traditional high-altitude operations into indoor visual operations. This fundamentally improves the working environment for operators, optimizes construction processes, and significantly enhances safety and work efficiency.



System Advantages

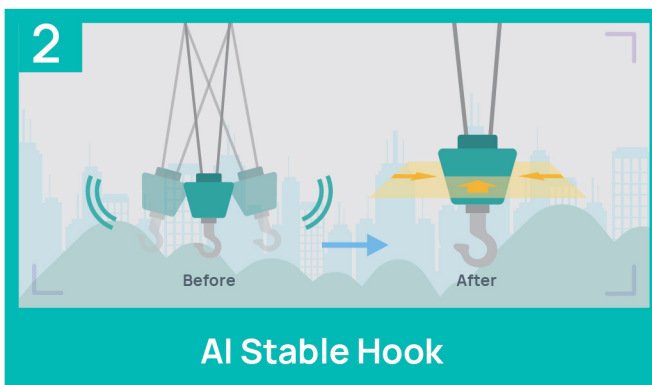
 Operational Safety

 Labor Optimization

 Efficiency Improvement

 Smart Data Management

Core Functions



Smart Control • Unified Access



Data Monitoring Center



Data Monitoring Center



Remote Cabin

Application

Hong Kong SAR



Public Housing Developments at Anderson Road Quarry Sites R2-6 and R2-7

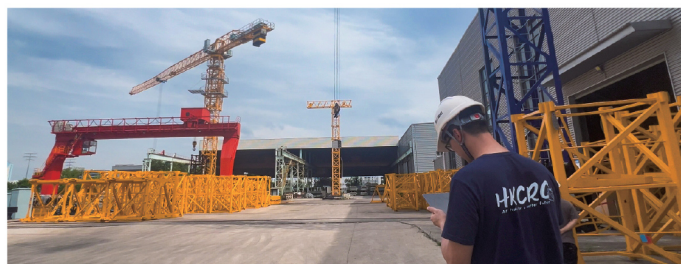


Public Housing Redevelopment at Pak Tin Estate Phase 13



Construction of Public Housing Development at Tung Chung Area 42

Guangdong



Zhejiang

Express Conference



About HKCRC

The InnoHK Hong Kong Center for Construction Robotics (HKCRC) is a world-leading innovation platform dedicated to advancing smart construction. Established in 2020 under the Hong Kong SAR government's InnoHK initiative, HKCRC is a collaboration between the Hong Kong University of Science and Technology (HKUST) and the University of California, Berkeley.

About CraneR

CraneR Technology Limited. (CraneR) was incubated from the InnoHK Hong Kong Center for Construction Robotics (HKCRC) and is a high-tech company specializing in the field of Intelligent construction engineering machinery. CraneR is committed to promoting the upgrading of the construction industry through AI, IoT, and automatic control technologies.

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