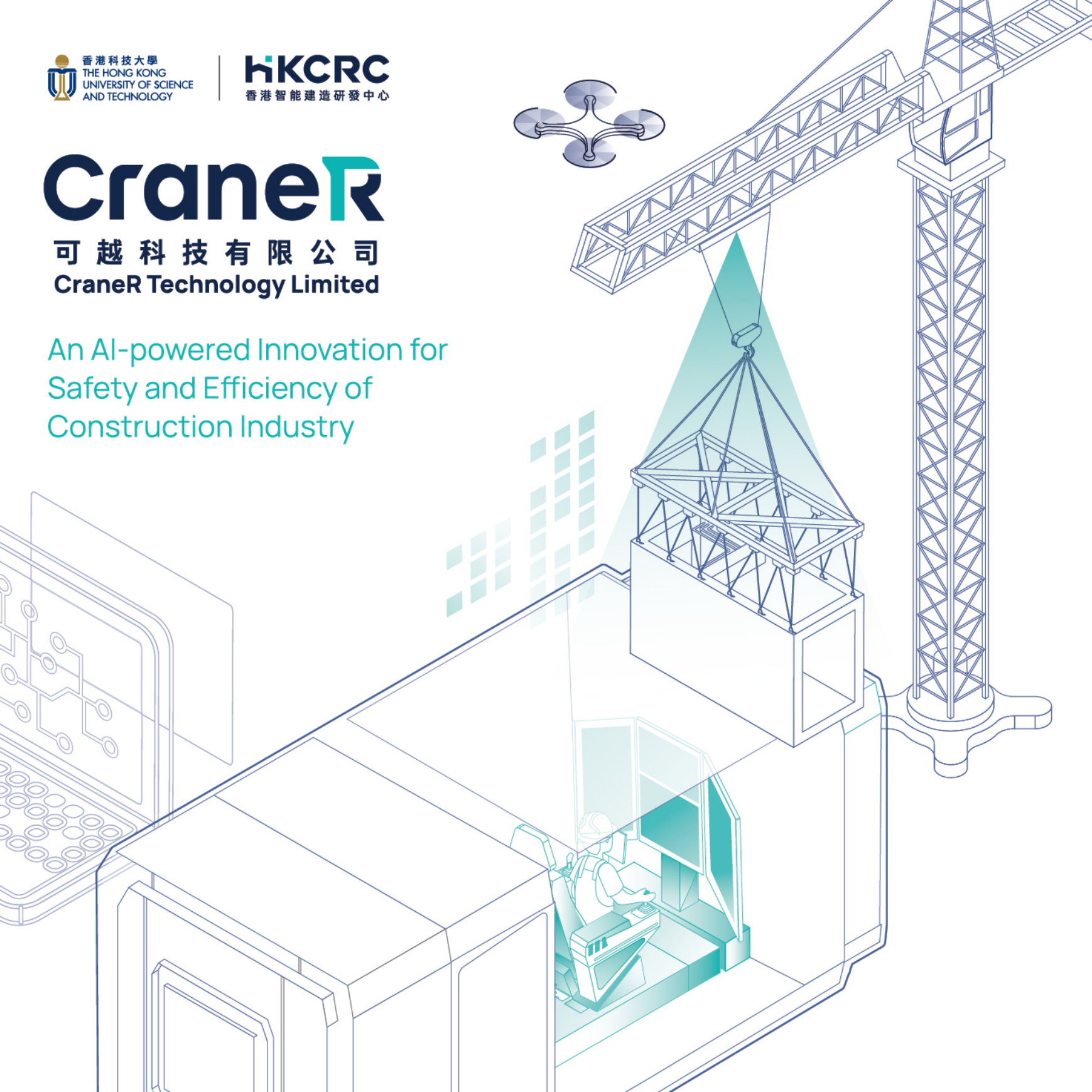


CraneR

可越科技有限公司
CraneR Technology Limited

An AI-powered Innovation for
Safety and Efficiency of
Construction Industry



ABOUT HKCRC

Hong Kong Center for Construction Robotics (HKCRC), a scientific research and entrepreneurship platform, was established in 2020 by the Hong Kong University of Science and Technology and the University of California, Berkeley. It is affiliated to the InneoHK project of the Hong Kong government.

ABOUT CRANER TECHNOLOGY

CraneR is a startup incubated by the Hong Kong Center for Construction Robotics (HKCRC) at The Hong Kong University of Science and Technology (HKUST). It focuses on the intelligent research and industrialization implementation of tower cranes, excavators, etc. and is committed to bringing advanced technologies such as robotics, automation, and AI into the construction industry, bringing unprecedented changes to the entire construction industry.

SPIN OFF



AI TOWER CRANE SYSTEM



Drone Detection

KEY ADVANTAGES

AI FOCUSED PRODUCT

Safety Monitoring and Auto-lifting
(powered by AI technology)

SELF-DEVELOPED

Full Stack Retrofit System
(hardware and software)

VERY LOW COST

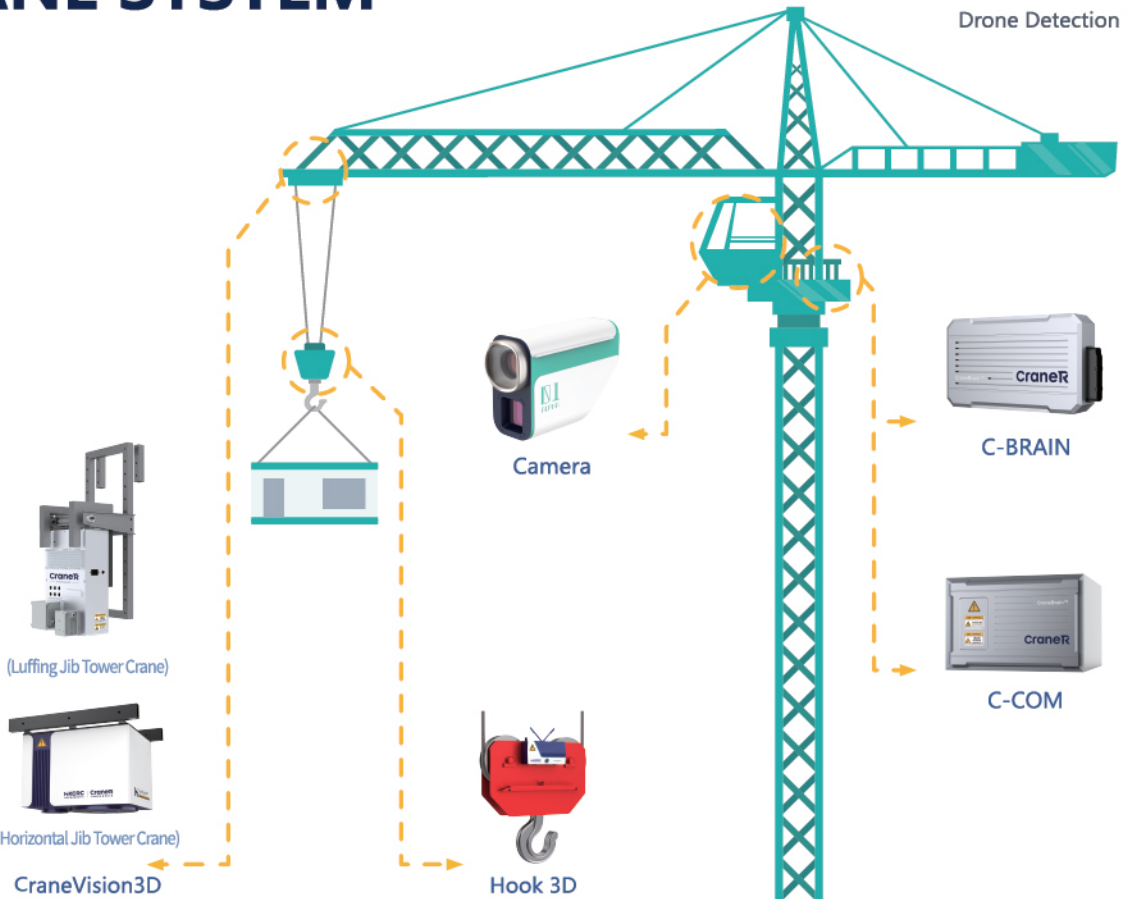
With Self-Developed Full Stack System
(10% of tower crane yearly rental)

30%

Improving Lifting Efficiency
(through AI auto-lifting)

REDUCE TO 0

Reducing Accident Rate
(through AI safety monitoring)



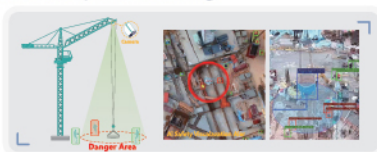
Smart Control • Unified Access



Remote Control Lifting



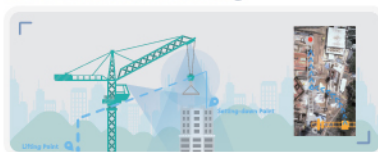
AI Safety Monitoring



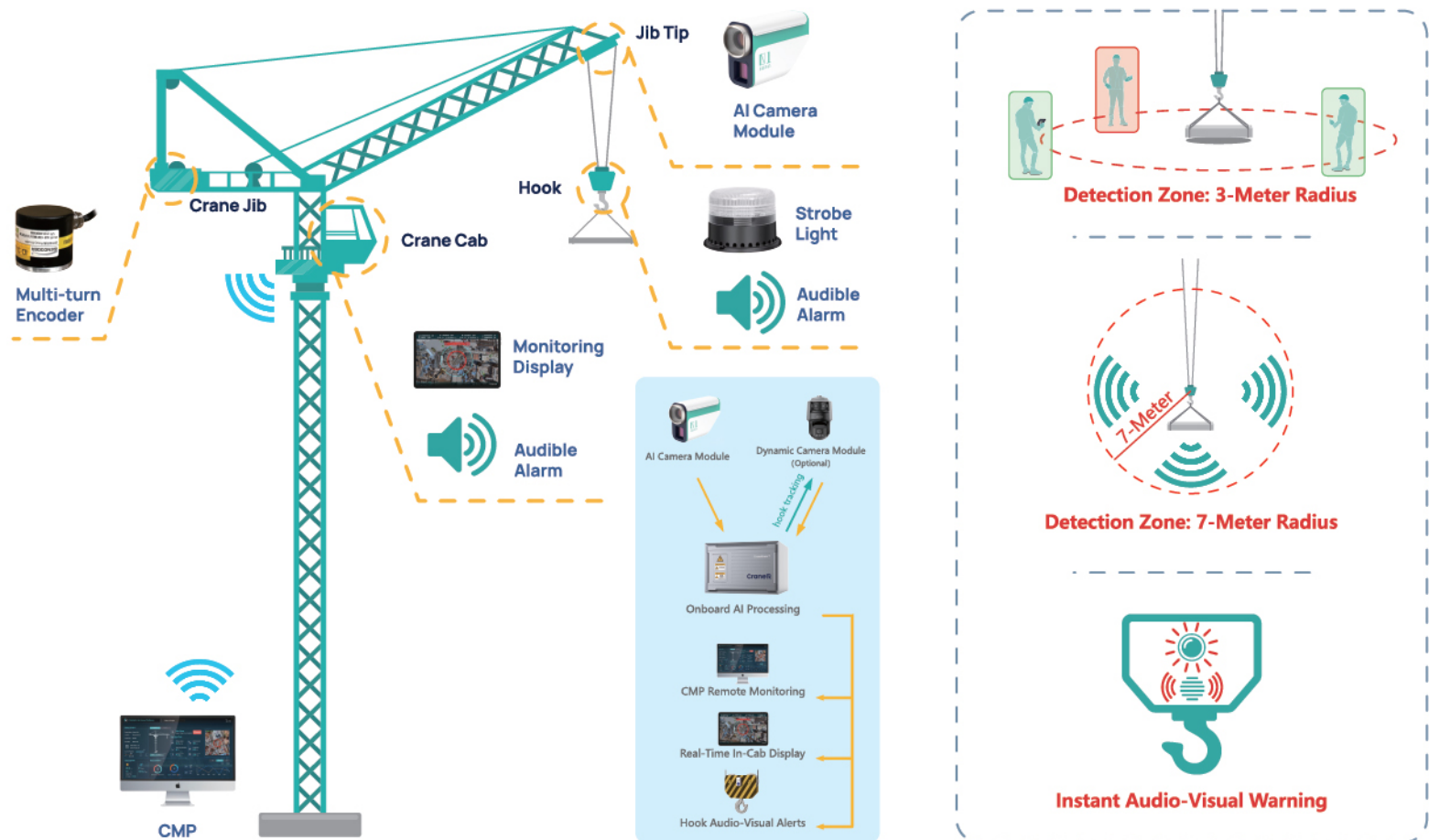
AI Stable Hook



AI Assisted Path Planning

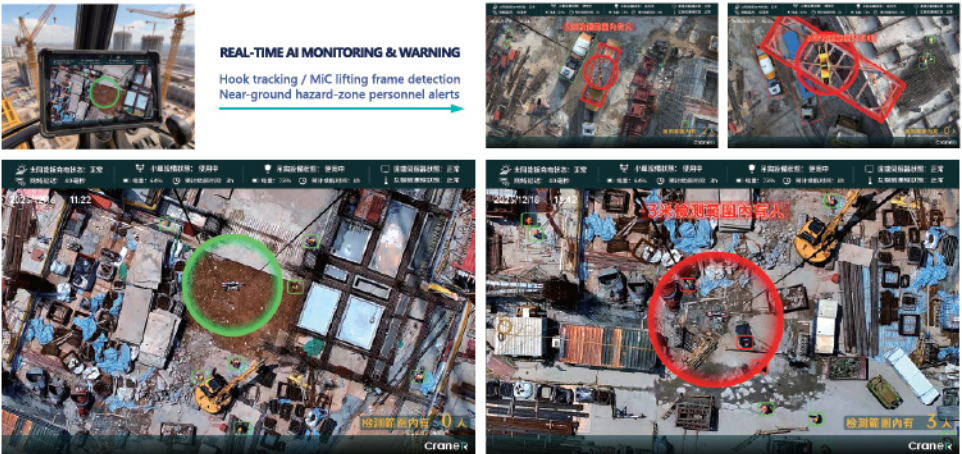


CRANE EYE 4S AI SAFETY MONITORING SYSTEM



CORE FUNCTIONS

The AI Safety Monitoring System brings real-time visibility, AI risk detection, and on-site audio-visual warnings to lifting operations—supported by in-cab guidance and CMP remote monitoring with traceable records. Built for practical jobsite use, it helps teams enhance safety, minimize downtime, and support compliance.



IMPACT IN HONG KONG

PROJECT APPLICATION



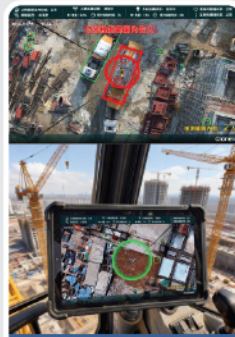
Public Housing Development in Pak Tin Estate



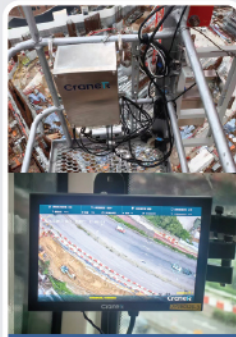
Public Housing Development in Tung Chung



Public Housing Development at Anderson Road Quarry



Public Housing Development at Pik Wan Road Site A, Yau Tong



Public Housing Development at Sheung Shui Areas 4 and 30 Site 1 Phase 2



Public Housing Development at Shap Pat Heung Road, Yuen Long

AWARDS AND PRESS CONFERENCE



The 49th International Exhibition of Inventions of Geneva: Gold Medal



CIC CONSTRUCTION INNOVATION AWARD 2025: Local Award Construction Safety 2nd Prize



房委會推AI天祥系統 操作員安坐冷氣房遙控 免即長時間高空作業之苦



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