SaferAI® 5GBC**

Karta-X Construction Safety AI Camera

The most accurate analysis, come
from more reliable data



Proprietary 5G functions*

*5G enabled functions varies per project, please contact for more information
**Powered by Karta-X AI Assisted Construction Safety Analytic (KACSA®) Platform

SaferAI® 5GBC

Innovative BATTERY-BASED Design



SaferAI®-5GBC

*based on actual field testing - coupled with our on-demand connectivity design, the device can run for a week without a battery swap 24/7

Battery based continuous safety monitoring 24/7*

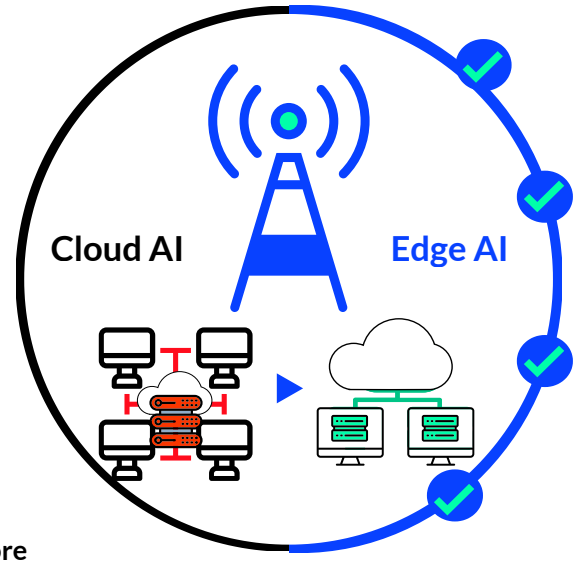
Stable supply with enduring battery



Completely hassle-free, no need cables to power

Powerful 5G-enabled for stable signal

ALWAYS ONLINE*



More scalable (e.g. ↑ device, no network dependency)

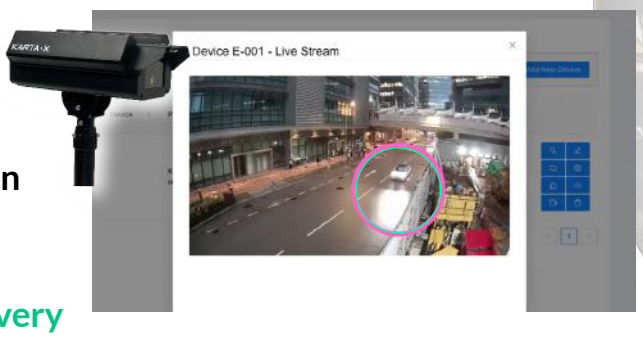
Data delivery more reliable

No network accumulated latency

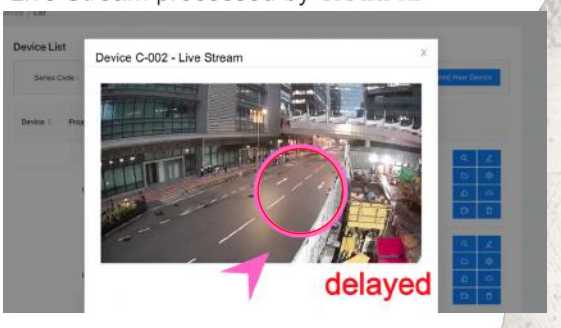
Faster in AI alert delivery

In case of an incident, urgency & timely delivery of the construction safety alert is the crux to minimize adverse consequences.

Live Stream processed by **Edge AI**



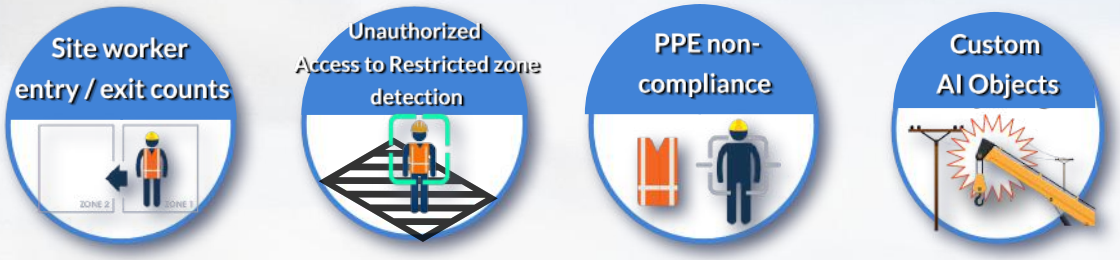
Live Stream processed by **Cloud AI**

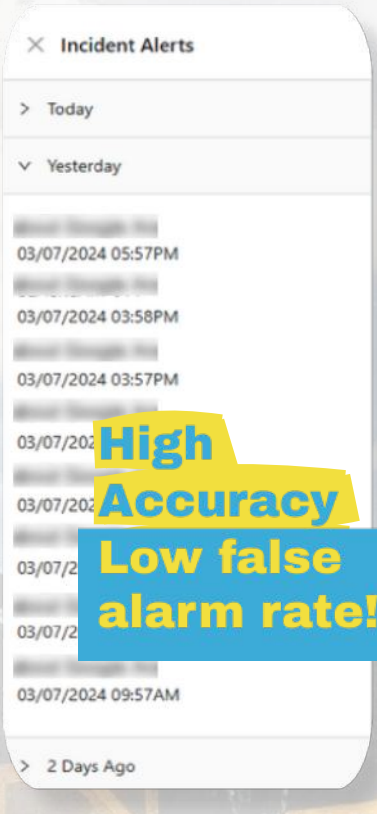


*Always online is defined as our system will monitor device connectivity and ensure data delivery to our servers

SaferAI® 5GBC

Application





High Accuracy
Low false alarm rate!





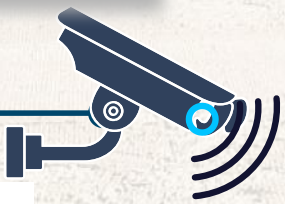
Edge processing unit with online capability installed inside the machine for real-time AI processing

01 Analytical-grade PPE detection

4S Standard, 90%+ accuracy, flexible, customizable based on project needs







02 On-device AI Processing

AI without invading privacy!

SaferAI® 5GBC

BENEFITS



95% AI Accuracy Achieved*

Based on actual field testing results included as part of AI accuracy guarantee services subscription*



85% Improved Safety

85% of customer respondents that use Karta-X Platform agree their sites safety management has been improved*

80% Cost saved

CITF funding offers 80% Co-fund grant, which lower the customer's cost **

CITF 建造業創科基金

CITF Pre-approved Product

** Based on 2022 Construction Innovation and Technology Fund Application Framework

EXCLUSIVE

SaferAI®

BENEFITS WITH OUR PROPRIETARY 5G TECHNOLOGY

Seamless Streaming



Network Awareness

"Avoid over-stressing connected networks"

Performance Enhanced



24/7 Continuous Video Recording

"Capture both AI video and continuous recording"

Energy-saving



Battery Awareness

"Save both device network and device battery"

SaferAI® 5GBC
extended-battery version

TECHNICAL SPECIFICATION

Model No.	5GBCv2	
Camera	Resolution	1920 x 1080
	FOV	> 100 degrees horizontal
	Physical Dimensions (H x W x D)	147 x 226 x 396 mm
	Weight	<3Kg
	Operating Temperature	-10°C - 50°C
	Detection Range	24m (max) x FOV
	Low Light Vision	supported
	IP Rating	IP66
Edge AI	AI Proccessor Power	70TOPS (int)
	Network	5G (Sub-6)
	CPU	6 core NVDIA Arm Cortex A78AE v8.2
	Power	DC24V <50W (Optional DC12V / AC220)
	Operating System:	Ubuntu 20.04
	Storage*	256GB (up to 5TB optional)
	Memory	8GB
	Video encode/decode:	H.264, H.265 (hardware)
Additional storage is added based on project needs*		
Extended Battery**	Physical Dimensions (H x W x D)	240 x 485 x 170 mm
	Weight	~17.5Kg
	Normal capacity	12V 150Ah
	Nominal voltage	12.8V
	Terminal	M8
	IP Rating	IP56
Extended battery is optional**		

4S ENGINE, 1 CMP PLATFORM

Risk-focused, Data-driven





KARTA·X TECHNOLOGIES

www.karta-x.com

36190620

projects@karta-x.com

Rm 316, 3/F, Building 19W, HKSTP