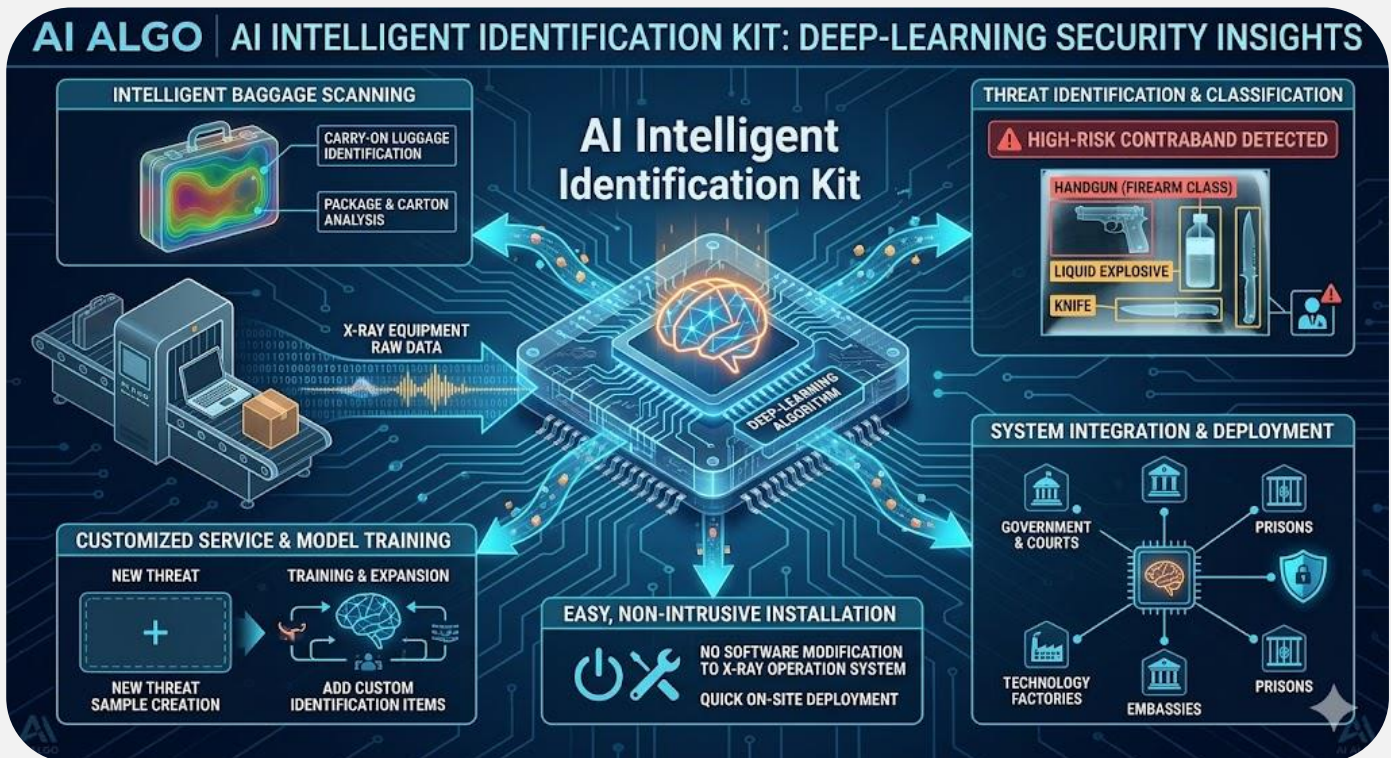


AI intelligent identification kit



Advanced Deep-Learning Integration for Next-Generation Security Inspection



Product Overview :

The AI Intelligent Identification Kit features a compact, embedded hardware design powered by AI ALGO's proprietary deep-learning computer vision algorithms. Featuring an intuitive, user-friendly interactive interface, this high-performance edge-computing kit connects directly to existing X-ray inspection equipment.

By performing real-time, intelligent computations on raw X-ray image streams, the kit instantly processes scanning data to enhance image quality while automatically identifying, isolating, and classifying contraband and high-risk prohibited items inside scanned objects.

Designed for seamless system integration, the kit can easily interface with broader security infrastructure and automated logistics systems.

Key Applications & Deployment :

The kit serves as a highly efficient, intelligent assisted-screening upgrade for X-ray scanning machinery, significantly mitigating human error and improving throughput. It is ideal for high-security facilities, corporate environments, and key infrastructure, including:

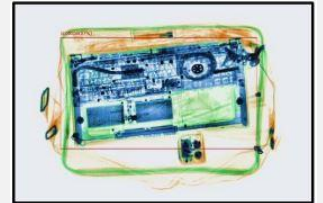
- Critical Infrastructure & Public Sector: Government Units, Courts, Prisons, Embassies.
- High-Tech Industries: Semiconductors, Technology Factories, and Cleanrooms (for asset protection and data security prevention).
- Commercial & Private Sites: Logistics Hubs, Corporate Headquarters, and Private Venues.
- Target Objects: Carry-on baggage, backpacks, briefcases, mail packages, and shipping cartons.

Core Capabilities

- Proprietary Deep-Learning Algorithms: Developed with 100% independent intellectual property rights, our proprietary AI models are trained extensively on comprehensive X-ray imaging datasets.
- Multidimensional Feature Analysis: By cross-referencing advanced graphic features, density variances, and X-ray material-discrimination colors, the algorithm integrates flawlessly with the X-ray imaging system to achieve unmatched threat detection accuracy.

- **Customized AI Model Training & Expansion:** To meet localized or evolving security protocols, we offer bespoke intelligent identification services. New threat samples can be seamlessly collected, modeled, and trained on-demand, allowing clients to expand their threat-library and add custom identification categories at any time.
- **Non-Intrusive, Rapid Deployment:** Engineered for quick and frictionless onsite installation. The edge kit integrates seamlessly with existing X-ray hardware without any software-level intervention or modifications to the original X-ray operating system, ensuring zero operational downtime and preserving original equipment warranties.
- **Flexible System Integration:** Built with an open architecture to support modern system integrators, allowing effortless linkage with third-party access control, visitor management, and automated screening systems.

TT-ALGO



AI Intelligent Identification	Analysis screen	Each kit performs the scanning images of the single X-ray security inspection.
	Object types of Identification and detection rates	Knives, Handgun, Liquid bottles, Laptops, Lithium batteries, Mobile phones, the detection rate is over 90% (>2,500 simulated samples are performed under the system) (Note: Considering the complexity of actual samples, the detection rate is approximately 85% or more)
External Interface	Network interface	Ethernet interface (only for REMOTE operation, no network update function)
	Video input	VGA/HDMI
	Video output	VGA/HDMI
General Specifications	Supply Power	AC 220V (No need the external power, using the power of the X-ray machine)
	Power	≤30W
	Operating temp.	-10℃--+55℃
	Operating humidity	10%--90%
	Dimension	225*180*60 mm
	Weight	2.2Kg

