

AI Vision Smart Cabinet Buying Guide

Evaluate visual verification, OCR and chain-of-custody workflows

Designed for

Healthcare, manufacturing, enterprise IT, property operations, banking and high-value asset control.

ERGO Hong Kong

Practical procurement guidance for professional workplaces, education, healthcare and enterprise environments.

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How to Use This Guide

AI vision cabinets extend access control by recording what was actually removed or returned. The technology can support object recognition, OCR, serial capture, photo evidence and transaction verification, but only when the camera environment and item presentation are designed for the application.

Quick Procurement Checklist

1	Define exactly what the system must identify or verify.
2	Confirm item appearance, packaging, labels and serial-number visibility.
3	Design lighting, camera angle and presentation zone.
4	Decide whether AI vision will work alone or alongside RFID/barcodes.
5	Specify confidence thresholds, human review and exception workflows.

1. What AI Vision Can Add

Object recognition	Recognize tool or device type	Similar-looking items may need labels
OCR	Read serial, lot or expiry data	Text must be visible and legible
Photo audit trail	Record transaction evidence	Privacy and retention policy required
Quantity verification	Count visible packages	Occlusion can reduce accuracy
Return verification	Confirm correct asset returned	Workflow must present item to camera

2. Cabinet and Camera Design

Controlled visual zone

A presentation shelf or scan area often produces better results than attempting to observe every item anywhere inside a crowded cabinet.

Lighting and focus

Stable, shadow-controlled lighting and fixed camera geometry improve repeatability. Reflective packaging and curved labels should be tested.

3. Software Workflow

4. Evaluation Tip

Request a demonstration using your real items, not only sample objects. Verify performance on damaged labels, glare, mixed packaging and partially hidden serial numbers.

Relevant ERGO Hong Kong Pages

Use these links to compare available solutions and discuss the correct configuration with our team.

AI Vision Smart Cabinets AI-enabled asset verification and tracking.	View online
RFID & AI Vision Asset Tracking Combined RFID and visual tracking platform.	View online
AI Vision Medical Cabinets Healthcare-specific AI vision cabinet solutions.	View online
OEM & System Integration Customization and integration support.	View online

Need a recommendation?

Share the device size, weight, quantity, installation environment and any special workflow requirements. ERGO Hong Kong can recommend a standard model or discuss a customized configuration.

[Contact ERGO Hong Kong](#)

Important Note

This guide is intended for preliminary product selection. Final suitability depends on exact dimensions, load, VESA pattern, device power requirements, site conditions, user workflow and compliance requirements. Product specifications and availability may change; confirm final details before ordering.