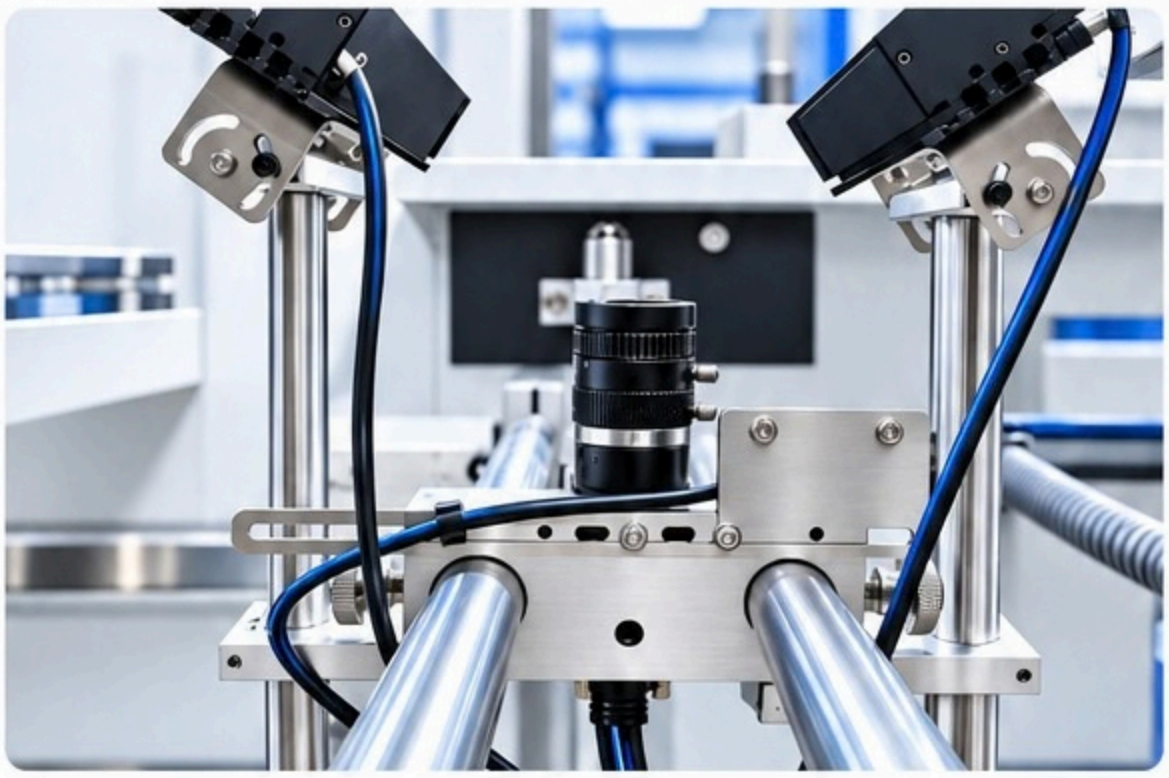
YUPEK SOLUTITONS
Innovative Technology Solutions

SHANGHAI EAST BEST
Foreign Trade Co., Ltd

Anti-Mix Visual Inspection & Barcode Checking System

Technical & Commercial Proposal

Proposal Ref.	: _____	**Date**	: _____
Customer	: _____	**Validity**	: _____



System Overview

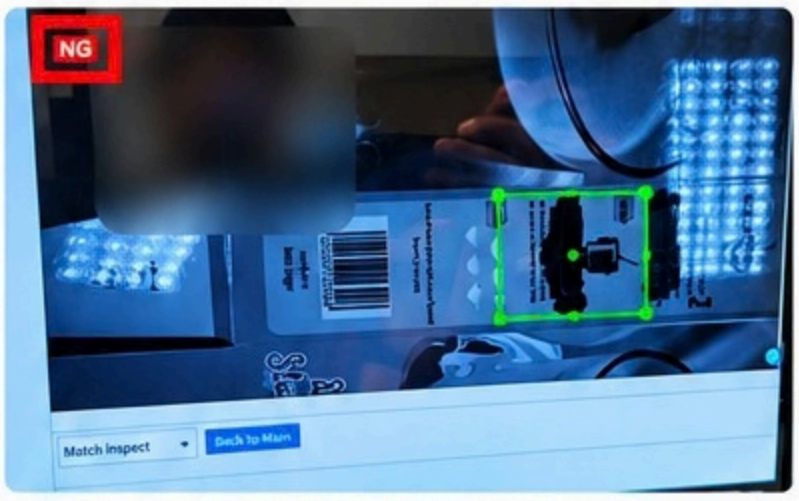
Camera-based inspection for packaging production to detect symbol or barcode mix-ups and check template or pattern presence. The system compares captured images with configured product information and generates an OK/NG result.

Inspection Workflow

Sensor trigger → Image capture → High Precision Match → Condition Detection → **Machine Stop**

Image capture under controlled lighting. OK activates the green light; NG activates the red light and buzzer. IO control supports machine integration. Product models can be created, saved and reused.





OK and NG results with highlighted inspection regions

Core Detection Scope

- Symbol mixture detection
- Barcode mixture detection
- Template/pattern presence checking
- Pharma Code

System Architecture & Software

Hardware structure and decision workflow

MECHANICAL

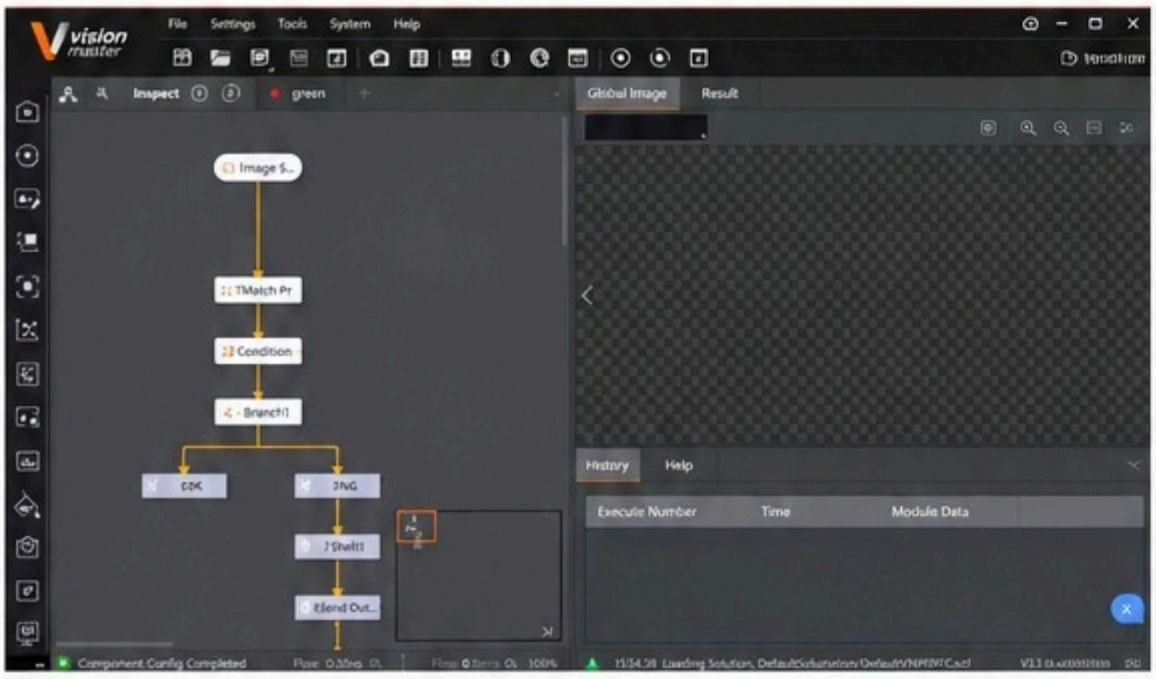
Frame, camera, lens, light source and sensor mounting with adjustable installation positions.

ELECTRICAL

Light source controller, trigger cable, IO box, 24V power supply, socket and circuit breaker.

COMPUTER

All-in-one touch-screen computer for detection software, image display and operator control.



Software & Decision Logic

1. Image Source acquires images from the camera.
2. High Precision Match checks the configured template.
3. Condition Detection converts the match result into OK/NG.
4. Branch logic activates green light or red light + buzzer.
5. New product models can be created and saved for reuse.

Technical Specifications

Parameter	Specification
Inspection area	100 mm x 83 mm
Inspection content	Symbol and barcode mixture detection
Minimum barcode length	26 mm
Maximum inspection speed	48 m/min
Alarm and output	Tri-color light + buzzer + IO control
HMI	14-inch touch screen
Power consumption	240 W
Mounting reference	2300 mm x 220 mm x 60 mm; fixing mechanism can be customized to the installation environment

Scope of Supply and Commercial Offer

Currency: USD. Quantities and prices below follow the proposed configuration.

Item and scope	Qty	Unit price	Total
Anti-Mix Visual Inspection & Barcode Checking System - main system package	1 Set	$8,000.00	$8,000.00
Optional second camera module - additional inspection position	1 Set	$2,000.00	$2,000.00
Package and freight - standard export packaging and freight	1 Job	$500.00	$500.00
Installation, training and commissioning - setup support and operator training	1 Job	FREE	FREE

Total commercial offer including optional second camera: USD 10,500.00

The second camera is optional and may be selected according to the required inspection position and application.
Excluding this module, the listed system and freight total USD 8,500.00.

Commercial Terms

Offer validity	_____
Payment terms	100% advance payment within 7 days of Purchase Order release
Delivery schedule	Within 10 working days after receipt of advance payment
Installation and training	FREE
Warranty	1 year comprehensive warranty for hardware and system components

Prepared & Issued By: _____

YUPEK SOLUTIONS – Authorized Representative

Accepted & Approved By Customer: _____

Authorized Signatory & Stamp Date: _____