

AUTOMATIC Corrugated Cardboard Counter Machine



■ Introduction

- This counter machine is self developed by Our company for counting the quantity of corrugated sheet boards in stack. It adopts industrial CCD camera to scan the corrugated side of the stack, recognize the flutes and count the numbers based on our deep learning powered algorithms.

■ Industry's Pain points

- Corrugated sheet boards are sold based on quantity, so accurate number is essential.
- Quantity discrepancy can happen during production, warehousing and transportation which is hard to trace and producers have to take the loss.
- The critical point is that it is too difficult to count the numbers by human.



■ Machine Appearance

Dimensions

2849*860*576mm



■ Installation Locations

- Board Plant-End of production line



- Box Plant-Warehouse



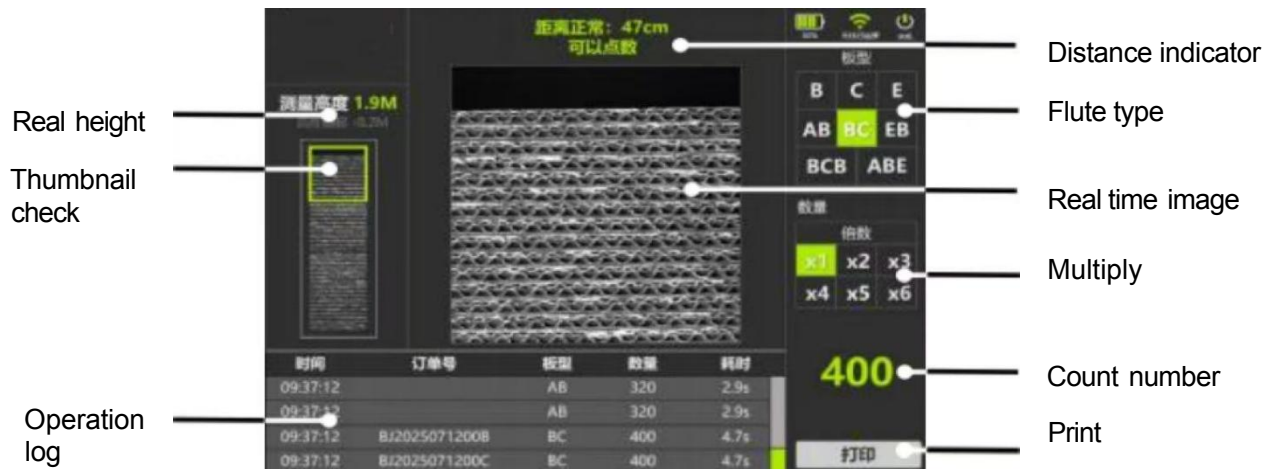
- Board Plant-Shipment



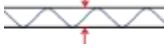
Functions and Features

■ Software Features

- Smart algorithms, high recognition rate and counting accuracy.
- Multiple counting: To count for multiple arrays (outs) in same stack.
- Display the stack height at realtime.



■ Applicable board types(Can customize for special flute.)

Flute Type	Diagram	Supported?
A-Flute		✓
B-Flute		✓
C-Flute		✓
E-Flute		✓
EB-Flute		✓
BC-Flute		✓
AB-Flute		✓
AAA-Flute		✓
Carton (in development)		✓

Technical Advantages

■ Anti Misalignment

- There are misalignment of boards inevitably. If it is serious, the misalignments will affect the image capture and counting accuracy.
- Hawkvis designed elastic imager module, which monitors stack side and follow the stack side curve for better image capture. It works even with $\pm 100\text{mm}$ misalignment in cardboards.



■ Anti Damages & Foreign Objects

- There are occasionally damages and foreign objects in the stack side, which affect the counting accuracy.
- Hawkvis adopts large view and multi-search mode, and overcome the interference of damages and foreign objects, and ensure counting accuracy.



■ Smart Operation

- Better mobility thanks to lithium battery.
- Wireless barcode scanner, scan and start count.
- Print the count number, voice broadcast.
- Support count results export

■ Main Specifications

Item	Parameter	Parameter
Model No.	HVCM-2300H	HVCM-2300HB
Power Supply Type	AC110-240V, 50/60Hz	Lithium Battery AC110-240V, 50/60Hz
Dimensions (mm)	2849*860*576mm	
Maximum countable height (mm)	2300	
Focal Length (mm)	500	
Counting Accuracy	>99.99%	
Cycle time (s)	< 6 sec./cycle	
Hawkvis Counting software	V1.3	
Anti-Misalignment	$\pm 100\text{mm}$ (provided all boards are flat and not blocking others)	
Function Features	Touch screen Wireless barcode scanner Label printer Voice broadcast	
Rated Power (W)	300	
Enclosure material	Stainless steel	
Weight (Kg)	90Kg	110 Kg
Work environment	Temperature: $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$, Humidity: 30% ~ 95%	

Customer References





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Welcome to enquire us today!