Vision Inspection Machine
Model：CVA-400

CVA-400 is designed to inspect the surfaces of various micro cuboid devices, such as MLCC, MLCI, chip resistors, diodes, LED, QFN, and even nuts. The patented vibration feeders arrange and place the devices onto the rotating table. Devices are then delivered through each camera to capture images. The vision algorithm analyzes the images and inspects kinds of defects. The hardware gets the sorting results and ejects the devices to the specified bins by high-pressure air. The overall processing speed for 0201 MLCC can reach 12,000pcs/min. The industrial computer and cameras, along with the simplicity design, increase the reliability and lower the maintenance fee. The friendly user interface lowers the setup efforts and eases the operation. Both hardware and software are in-house designed and can be customized upon request.

Specification

Power Input	220V, 1KVA
Power Consumption	500W Peak
Air Input	$3kg/cm^2$ or higher
Imaging Resolution	3 um/pixel ~ 18um/pixel
FOV	400×300 um^2 ~ 10,240×7,680 um^2
Inspection Size	0.3×0.15×0.15 mm^3 ~ 6×6×4 mm^3
Inspection Items	Dimensions, Distance, Contamination, Dirt, Crack, Marking, User Defined Items
Productivity	Sustained 10,000 units per minute for 0201(0603)
Sorting Bins	5 Bins
Dimensions	W950mm × D950mm × H1,850mm (Without Lamp Tower)
Weight	About 300kg
Camera	4 or 6 GigE Cameras, 640×480 pixels, 5.6 um/pixel
Central Computer	Industrial Multi-core Computer, Windows 7 64-bits Edition
UPS Protection	Yes