

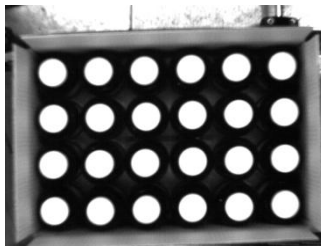
APPLICATION NOTE

Item Counting

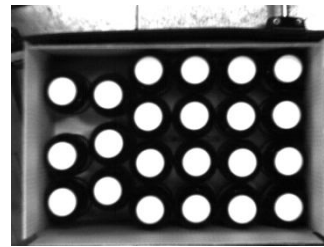
CAPABILITY

Smart cameras can reliably:

- count bottles and other containers within cartons
- verify that the containers are the correct type based on lid shape/colour or other features



Correct Count



Underfill

HARDWARE

Typical vision system hardware for an item count inspection comprises:

- Smart Camera
- I/O & Ethernet Cable
- Integrated or External LED Illuminator
- Trigger Sensor

METHOD

- a reference image is captured by the camera
- the image is processed to eliminate background noise and emphasise features of interest (e.g. caps, lids, logos, codes)
- each container is identified based on the shape, pattern, colour or detail of the feature of interest
- the features are counted to determine the number of containers packed
- the count is matched to the required pack quantity
- a pass/fail output is provided based on the inspection result

CONSIDERATIONS

- IP rating requirements
- range of container types and the nature of the features of interest
- means of product selection and receiving/providing other I/O signals
- communication protocols of the host system

OFFER

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