

DETECTION
SYSTEMS PTY LTD

PACKAGE
CONTENT
INSPECTION
SYSTEMS



*Look inside sealed packs,
without using X-ray*

PACKAGE CONTENT INSPECTION SYSTEMS

Leading food and packaged goods companies rely on high speed 100% inspection of their product, to protect their reputation. Detection System's patented PCIS technology is used by leading international corporations to improve their product quality, increase their line efficiency, reduce customer complaints, thereby increasing profits. PCIS is...

FAST

No Inherent speed limitation
No speed vs accuracy compromise
Inspects as fast as goods can be conveyed and rejected

ACCURATE

Detect 1 item missing from 48 or more
Focus on a small part of a pack at a time
Find missing components such as toys, lids, spoons

RELIABLE

Minimal moving parts for ultra reliable operation
Robust stainless steel construction
Industrial grade components and computer

COST-EFFECTIVE

PCIS vs Checkweighers

- More accurate - focus on a portion of the pack at a time
- Reliably detect 1 item missing from 48 or more
- PCIS detects the missing, crushed, damaged items that checkweighers often miss
- Reveal the true picture of the internal contents

PCIS vs Xray

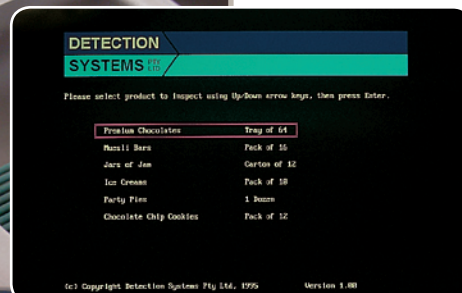
- Safer and simpler
- Much higher speeds
- Not confused by multiple layers of product
- Miniscule running costs compared with Xray

Note: PCIS is designed to detect packaging defects, not contaminants.



HOW PCIS WORKS

- 1. Select** Adjust the scanning head for the correct height. Select the product to be inspected from the easy-to-use menu.
- 2. Inspect** PCIS technology uses low frequency, low energy electromagnetic fields to look inside a sealed pack. As the pack is conveyed through the sensor, a series of slices are assembled to reveal an overall picture of the pack's internal contents.
- 3. Analyze** Within a fraction of a second, and with great accuracy, the industrial computer checks the required items are present and correct.
- 4. Reject** Quickly remove faulty packs using an air-blast or other reject.
- 5. Display** Clearly show the production personnel where the defect is located within the pack.
- 6. Improve** Use the detailed information gathered by PCIS to improve processes and to drive down reject rates. Optionally connect PCIS into existing plant SCADA or MES systems.



*Increase
Quality*

*Reduce
Complaints*

*Increase
Efficiency*

*Reduce
Waste*

*Increase
Profit*

Applications & Capabilities

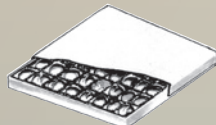
Individual Items



Small, flow-wrapped packs

Detects items missing
Detects undersize items
Detects crushed or mangled items

500+
per minute
typical



Large trays of product with a plastic tray

Detects single items missing from a total of 50 or more

100+
per minute
typical

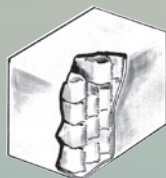
Cartons, Packs, Showboxes



Flow-wrapped packs with a plastic tray

Detects items missing
Detects portions of items missing
Detects items in the wrong location or orientation

200+
per minute
typical



Cartoned food products

Detects single items missing from a total of 50 or more
Detects crushed or damaged items in the carton

100+
per minute
typical



Jars, bottles and cans in closed cartons

Detects missing jars, bottles and cans
Detects missing fill
Detects missing lids

100+
per minute
typical

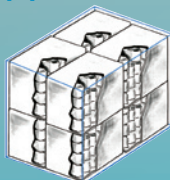


Cartoned food products

Detects single items missing from a total of 50 or more
Detects crushed or damaged items in the carton

200+
per minute
typical

Shippers



Shipping Cartons

Detects individual cartons missing
Detects crushed and damaged cartons within

100+
per minute
typical

DETECTION
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