

### World Headquarters

**USA, OH, Cincinnati** | Tel: +1.513.874.6550  
info@valcomelton.com

### America Manufacturing, Sales & Service Centers

**Canada, Vancouver, B.C.**  
**ClearVision Technologies**  
Tel: +1.604.998.4012  
canada@valcomelton.com

**USA West Coast, CA, Petaluma**  
**GMS-Vansco**  
Tel: +1.707.285.3392  
inquiry@gmsvansco.com

**Mexico, México D.F.**  
Tel: +52.55.6278.1727  
mexico@valcomelton.com

**Colombia, Bogotá**  
Tel: +57.313.421.0926  
colombia@valcomelton.com

**Brazil, Sao Paulo**  
Tel: +55.11.99919.3510  
brazil@valcomelton.com

### Europe Manufacturing, Sales & Service Centers

**Spain, Navarra, Orcoyen** | Tel: +34 948 321 580  
spain@valcomelton.com

**France, Valence** | Tel: +33 (0) 4 75 78 13 73  
france@valcomelton.com

**Italy, Brescia** | Tel: +39 030 2732544  
italy@valcomelton.com

**Italy, Brescia | ERO s.l.r** | Tel: +39 030 2731503  
info@ero-gluers.com

**Benelux, The Netherlands** | Tel: +31 252-673673  
benelux@valcomelton.com

**Hungary, Budapest** | Tel: +36 1-214-4705  
hungary@valcomelton.com

**UK, England, Telford** | Tel: +44 1952-677911  
uk@valcomelton.com

**Germany, Düsseldorf** | Tel: +49.211 984 798-0  
germany@valcomelton.com

**Poland, Siechnice** | Tel: +48 71 889 04 50  
poland@valcomelton.com



Direct Sales Centers ●  
Distributors Worldwide ●

### South, Southeast, West & Central Asia Manufacturing, Sales & Service Centers

**Turkey, Istanbul** | Tel: +90 212 327 99 71  
turkey@valcomelton.com

**India, Bangalore** | Tel: +91.80.28378111  
india@valcomelton.com

**UAE, Sharjah** | Tel: +971.521305960  
uae@valcomelton.com

**Singapore, Singapore** | Tel: +65 850 95355  
singapore@valcomelton.com

### East Asia Sales & Service Centers

**China, Shanghai** | china@valcomelton.com  
**China, Xiamen** | Tel: +86.592.591.7854  
Fax: +86.592.591.7834 | china@valcomelton.com

To find the office nearest you, visit:  
<http://bit.ly/2Cb8Fv2>  
or snap a picture of this QR Code



BC-004



# PACKCHEK

Hot Melt Inspection for End-of-Line Packaging **FAQ's**

### What is PackChek™?

The PackChek System is the latest innovation in hot melt inspection for end-of-line packaging. Utilizing both thermal and visual imaging, PackChek inspects the heat signature of the package to ensure hot melt glue has been applied to the correct locations.

### What type of machines can PackChek be installed on?

PackChek can be installed on virtually any line where hot melt is applied and, with the ability to use up to three cameras, it's ideal for case sealers, cartoners and even wrap around machines.



### How are defects defined by the system?

Defects are defined by predetermined tolerance levels and "glue windows," which are configured by the user. Settings for tolerance levels include:

- Maximum number of missing beads,
- Maximum number of bad beads,
- Critical beads (must be there and within tolerance) and
- Excess glue amount (glue that is outside of defined areas).

Tolerances can be disabled and enabled separately at the discretion of authorized plant personnel and the system can be set up to eject after any number of consecutive faults. A breakdown of the specific tolerance(s) responsible for causing the defect is also viewable in real time for each order.

### How are the tolerance levels set?

Once the "glue window" is drawn, adjustments to its width or length can easily be made by simply touching and stretching it. In addition, percentages can be input to determine what portion of the bead must fall within the window.

### Are there speed limitations to the PackChek cameras?

Current line speeds exceed 300 feet per minute and up to 10,000 cases per hour, making it ideal for high-speed cartoners.

### What if my machine runs multiple case sizes?

PackChek can be programmed for any number of cases and any number of glue patterns. Multi-packer that convert to various size / count packs may require the camera to be moved in or out, if mounted on the discharge conveyor.

### Do tolerances need to be adjusted with temperature changes in the plant or product?

No. The PackChek system compares temperature differential between 'glued areas' and the product itself. Generally, a differential of approximately 30°F (17°C) is required.

### Will the system identify poorly 'compressed' products?

PackChek only looks for glue that is in contact with the outer flap, which means if the outer flap is not pressed against the inner flap, it will register a missing (or poor) pattern. Since a tolerance within the "glue frame" has been set, a poorly compressed bead can be detected, even when it might pass through an open-flap detector.

### How does the system "learn" different products?

PackChek learns different products in three ways:

1. Pre-programmed products and glue patterns can be selected remotely via Ethernet to the system.
2. Actual pattern dimensions can be input on the touch screen.
3. Accurate patterns found on "good products" can be saved as templates and used as a benchmark for comparison. Users simply draw rectangular frames around the bead(s) directly on the 24-inch touchscreen to the pattern template, which can be fine-tuned while the machine is running to avoid costly downtime for setup and adjustments. All programs can be saved and called up the next time the product is run.

### How can this help me 'fix' a problem before it creates a faulty product?

Tolerance levels allow every pattern to be designated as 'good', 'marginal', or 'bad'. Marginal products can set off a warning, alerting operators to adjust the glue pattern or fix an issue in real time, without shutting down the machine.

### If the machine stops for a period of time, can the system recognize the condition, and "ignore" those packs that would lose too much heat while sitting idle?

Yes, PackChek tracks every single product between the gluing area and the camera(s). "Cooled" cases between the gluing area and camera(s) are passed by default (no ejection), and recorded and counted by the system as "cooled," not faults.

### How much downtime would create this condition?

The cooling time varies on the packaging material and is, generally, 30 seconds for carton boxes and up to 2 minutes for corrugated boxes.

### Can images from a recently rejected pack be viewed?

Yes. All defective images are saved, including past jobs (up to 6 months, depending on number of faults) and can be recalled at any time. Fault information can also be communicated back to the plant and used to create reports, charts, etc.

### Can the system be set up to react to glue outside of the target areas?

Yes. A "masked" area can be drawn around the entire product and the amount of excess allowable glue outside of the "window" can be set as a tolerance. Additional parameters can also be created including 'holes' that should be ignored and critical areas that cannot have glue.

### How difficult is it to integrate PackChek into an existing line?

Valco Melton's PackChek system can be mounted either inside the packer, or on a discharge conveyor, which makes it easily adaptable to almost any packing line. Generally, installation is 1-2 days and requires an encoder signal from the area where the camera(s) is mounted (machine or conveyor), sensors at the gluing area, camera and discharge, and an ejector.

