



MICROCODECHEK

What it Does

MicroCodeChek is a vision-based code inspection system that reads and verifies barcode and 2D codes on packaging as it is produced on the line. The system reads and analyzes all barcodes and checks for readability and code correctness. Code health evaluation can be activated along with full support for variable data codes. The result is confidence that only correctly coded product ships to customers.

How it Works

MicroCodeChek uses a compact camera with built-in lighting to capture an image of every code as product moves past the camera. The system decodes the code, compares it against expected values or a loaded dataset, and can also assess code quality using multi-point grading techniques. When a fault is detected, the system alerts the operator, marks the defective product for ejection, and saves the image. Up to four cameras can run simultaneously on a single line.

Features

- Up to 4 simultaneous cameras per system
- Compact camera footprint: 45mm x 45mm x 65mm
- Flexible bracket for bottom-up or angled mounting
- Works with any substrate except certain foils
- Single camera speed over 160,000cartons/hr (400 m/min)
- Minimum 2D code size: 10mm square

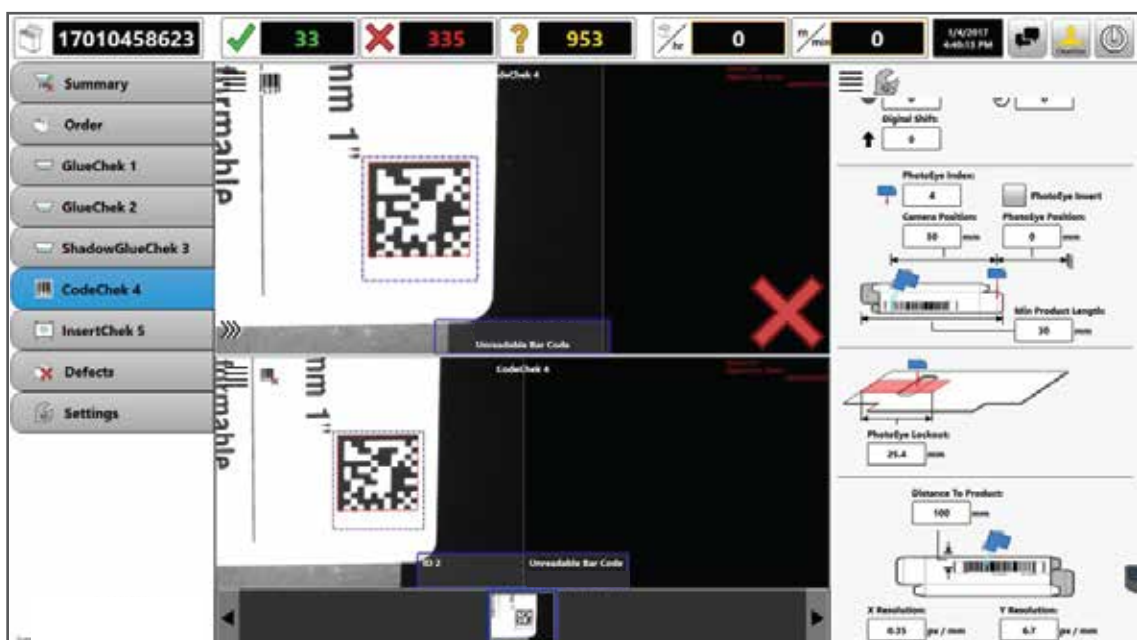


Close up of Microcodechek inspecting barcodes



Microcodechek installed on a folder gluer

Microcodechek Touchscreen Interface



Operating Modes

Mode 1

Mixed Copy and Code Readability

Verifies the code can be read and matches the expected value.

Mode 2

Mixed Copy and Health Check

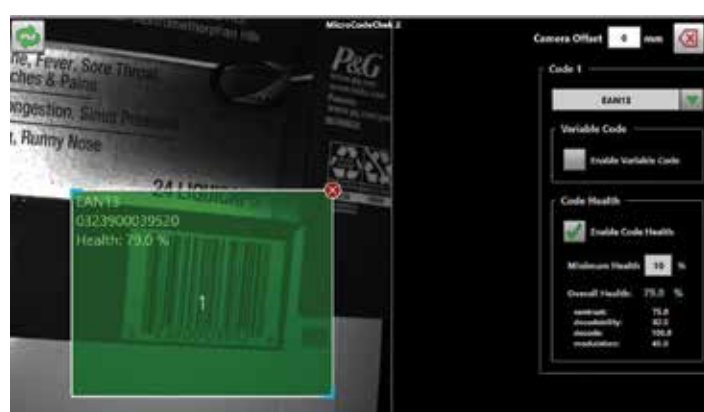
Adds ISO component print quality grading to code verification

Mode 3

Health Check with Variable Data

Adds health check grading to code verification

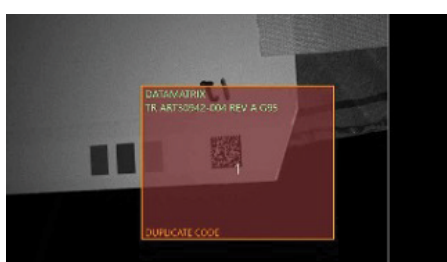
Barcode Health



MicroCodeChek performs a multi point health check including contrast, decodability, and modulation. Operators set a minimum acceptable health percentage, and codes below that threshold are flagged.

Variable Data

For serialized or variable-data applications, MicroCodeChek imports datasets during job setup from USB or network locations. The system supports datasets of over 1,000,000 items, reuses datasets across multiple runs, identifies and reports duplicates, tracks codes found versus outstanding, and exports the completed dataset with timestamps and read counts for customer delivery.



Supported Code Types

Aztec, BC412, CodaBar, Code39, Code93, Code128, CompositeCode, DataMatrix, EAN8, EAN13, EAN14, GS1 128, GS1 Databar, Interleaved25, MaxiCode, MicroPDF417, MicroQRCode, QRCode, Truncated PDF417, UPC A, UPC E.



For more information, visit valcomelton.com or contact your local Valco Melton representative.

World Headquarters: Cincinnati, OH, USA (Corporate Offices) • Tel: +1.513.874.6550 • info@valcomelton.com

Europe Headquarters: Orkoien, Spain • Tel: +34.948.321.580

Asia HQ Offices: Xiamen, Fujian, China • Tel: +86.592.591.7854