



MACHINE VISION CONSULTING

CodeSure®



www.MachineVC.com
info@MachineVC.com

P.O. Box 1154
Westborough, MA 01581
978.551.4160 (Sales)
508.887.1266 (Corporate)

Machine Vision Consulting (MVC) is a full service machine vision integrator providing consulting, turnkey product solutions, custom projects and training in support of manufacturing and OEMs, in the machine vision industry.

Overview

CodeSure is a fully integrated hardware & software solution suite for inspecting moving or rolling cans. Machine Vision Consulting's unique system design supports machine code verification on can lids using optical character verification (OCV) as well as inspects label correctness by verifying the barcode or 2D matrix.

Can Inspection

CodeSure performs two types of can inspections:

Lid Verification:

- ✧ OCV on Date Codes/ Lot Codes and/or Product Codes
- ✧ Dot matrix printing from all standard printers supported
- ✧ No image based character training required
- ✧ Character Skew & Stretch tolerated
- ✧ Roll-through or standard upright presentation supported

Label Verification with any code location:

- ✧ Support for roll-through labelers
- ✧ Standard 1D barcodes
- ✧ 2D data matrix codes

Product Changeover

Machine Vision Consulting has created an intuitive, easy to use, user interface for CodeSure that simplifies the technically complex process of code and label inspection. Product changeover in less than 15 seconds is achieved with CodeSure's inspection management system.

Event and Image Logging

Every key event, such as log-in, log-out, container change, run start time, and run end time are automatically logged. CodeSure supports secure access to this data by password protecting actions based on Administrator, Supervisor, and Operator levels. Image archiving and real time statistics are logged to provide traceability, history, and a documentation trail.



CodeSure Main Lid Screen - Pass Condition

CodeSure® System Components

Standard

- ✧ Image Enclosure
 - Analog, Firewire or GIG-E Cameras for Lid Code Verification
 - Firewire or GIG-E Cameras for Label Verification
 - Custom Lighting Solution
- ✧ Operator Workstation/Electronics Enclosure
 - 17" Touchscreen
 - Cooled via Fan or Vortex
 - Opto-isolated I/O via Allen Bradley PLC
- ✧ User's Manual
- ✧ Systems Schematics (available upon request)
- ✧ IQ/OQ/PQ Documentation Package (available upon request)

Optional

- ✧ NEMA 4/4X: Stainless Steel Food Grade Construction
- ✧ Reject Mechanism
- ✧ Lockable Rejector Box
- ✧ Product Singulator

System Specifications

Inspection Speeds	Typical can labeling speed
User Interface	17 inch Touchscreen
Typical Lighting	LED, Fluorescent, IR or UV (dependent on product)
Product Tracking	PLC and Encoder based tracking
Environmental Controls	Fan or Air Conditioning



Example of CodeSure Lid System, Operator Workstation/ Electronics Enclosure.

CodeSure, by Machine Vision Consulting, is a fully integrated turnkey hardware/software solution that ensures perfect product presentation preserving brand image.

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