V31 System
Vision Inspection

Label Data and Quality Control
Inspect label quality, text, or other graphic identification to prevent label and package mix-up to reduce rework or the chance for product recalls.
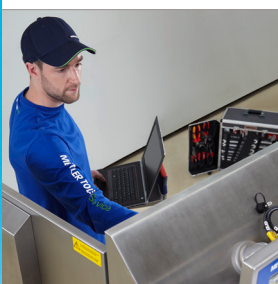
Cap Inspection
Perform inspection of cap or lid placement to help ensure proper closure, or tamper band presence to minimize opportunity for downstream container leaking.

Perform Multiple Inspections
Manage multiple inspections on the production line using a single control system, common where labeling and capping stations are at different locations.

Global Service Support
A global network of service experts provide fast remote and on-site support. Our comprehensive service offering allows you to achieve regulatory compliance, high performance, and maximum uptime throughout the life cycle of your product inspection equipment.

High-speed, Easy Integration, Adaptable
Advanced package and label inspection of oriented products. The flexible system includes rapid fit frame and product tracking for support of up to six cameras, and customized lighting.

- **Increase Operational Efficiency** – Automated vision inspection supports speeds up to 1,000 ppm, helping to save time and costs associated with manual quality control inspections.
- **Flexible Integration Options** – The rapid integration frame, advanced camera and lighting options fit various field of views for a wide range of products.
- **Sophisticated Toolset** – CIVCore software can perform multiple inter-dependent inspection criterion using powerful cameras for complex inspection applications.

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V31 Vision Inspection System
Technical Specifications

**Typical Containers – Oriented Bottles or Cartons**

Applications

Oriented containers package fill control, label inspection, package integrity, label/cap inspection, label mix-up prevention.

Inspection Capabilities

- 1D and 2D barcode presence and reading
- Alpha-numeric text presence and reading
- Presence and quality of graphics
- Label quality, position and skew
- Cap presence, color and skew

Available Configurations

- Integrated or Standalone System - Choose from an integrated kit on your existing production line or a standalone system using our rapid fit installation frame.
- Multiple Lighting Options - Advanced lighting options are designed to create optimal contrast in order to detect defects in labeling and packaging.
- Advanced Camera Configurations - Powerful pc-controlled cameras come in a variety of resolutions, lenses, and filters and are designed for optimum speed and performance for your application.

1454 mm [57.2"]

LINE HEIGHT 915 mm [36"]

454 mm [17.8"] 558 mm [21.9"] 553 mm [21.7"]
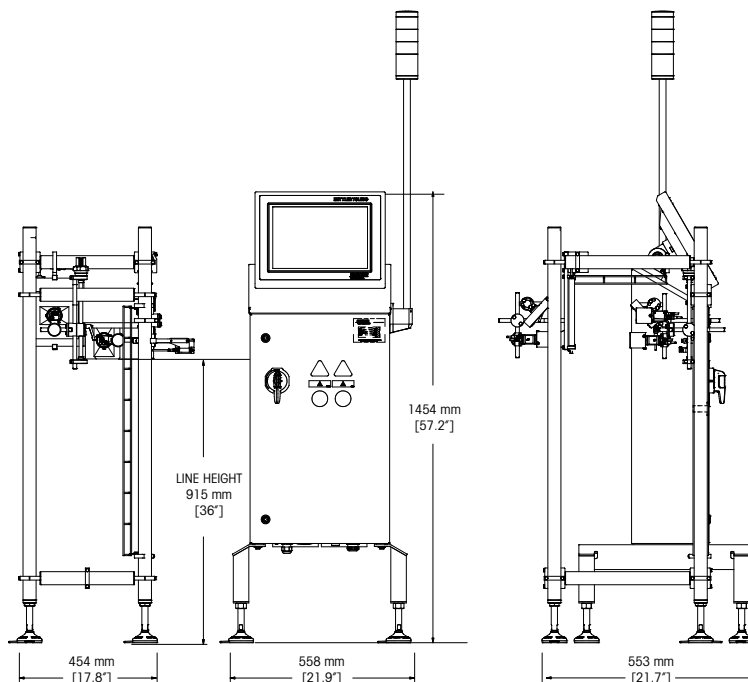
Schematic – Front and side view (typical dimensions)

Model	V31 Vision Inspection System
Product Shape	Oval bottles, tubs, or cartons.
Inspection Area	Top; Side
Field of View	200 mm x 200 mm (7.9" x 7.9")
Label Data Inspection	1D/2D Barcodes; Alpha Numeric
Label Quality Inspection	Label Wrinkles; Graphical ID; Label Placement; Label Skew
Cap Inspection	Presence; Color; Skew
Cameras	Up to 6 PC-Controlled GigE Cameras
HMI	15" Color Touchscreen
Throughput	Up to 1,000 ppm
Cleaning Requirement	Wipe Down (IP54); Low Pressure (IP65)
Design Options	Kit; Standalone
Power Requirements	110 - 230 V (single phase), 50 - 60 Hz
Operating Temperature (no A/C)	<35 °C(95 °F) <80 % humidity
Hygienic Requirement	Wipe Down (<IP54);Low Pressure (IP65)

Note: The system has additional options that can be configured to your production line. Contact us to get a quote.

METTLER TOLEDO Service with global reach and tailored care solutions

www.mt.com/ci-vision

For more information