V275 Series in-line verifier and print quality inspection system
Product Guide

Overview

The V275 Series is a factory-built system integrated into the popular Zebra ZT600 thermal label printers used in thousands of factories. This unique solution builds upon Omron's experience helping global companies comply with regulations like FDA, EPA, and US DOT as well as industry-specific guidelines from AIAG, GS1 and ISO.

The V275 grades 1D and 2D barcodes at normal printing speeds to ISO 15415, ISO 15416 and GS1 standards while inspecting human-readable content for accuracy and print quality using OCR, OCV and blemish detection tools.

Applications

- Medical device manufacturing and kitting
- Pharmaceutical manufacturing and contract suppliers
- F&B secondary and tertiary package labeling
- Automotive components, assembly and vehicle labels
- CPG and appliance primary and secondary package labeling

Primary Benefits

- Supports traceability throughout the supply chain of finished goods and labeled production materials
- Provides highly accurate automated inspection of thousands of labels per day
- Supports compliance with GS1 requirements for barcode quality to ISO 15415/15416 standards and GS1 General Specifications
- Reduces the risk of incorrect and/or poor-quality labels entering the supply chain and forcing product returns and recall

Key features

- Complete UL-approved inspection solution combining Zebra ZT610 or ZT620 printer with factory-integrated floating head inspection camera and advanced software
- Visual, web-based UI for configuration, runtime label view, data archiving, user management, and audit trail
- Support for continuous label printing, single label tear-off, or peel and present
- Advanced tools for OCR, OCV, blemish detection and grading to ISO standards
- Ethernet-based communication between the inspection system and the PC or server
- API for integrating inspection data into other software applications
- Ability to network multiple printers into a single PC or server
- ISO 15426 Declaration of Conformity

V275 Product Selection

	300 dpi, 4" print width	600 dpi, 4" print width	300 dpi, 6" print width
Part #	V275P46Z61030CC V275P46Z6103PCC*	V275P46Z61060CC V275P46Z6106PCC*	V275P86Z62030CC V275P86Z6203PCC*
Minimum barcode grading x-dimension	1D = 6.6 mil 2D = 10 mil		
Minimum font size for OCR/OCV	5-point, mono-spaced Latin-based fonts, OCR-B upper and lower case, OCR-A lower case		
Supported ISO/IEC standards	ISO 15415, ISO 15415, ISO 15426 GS1 Syntax Checking of Application Identifiers		
Maximum inspection speed	12" / 305 mm per second	6" / 152 mm per second	8" / 203 mm per second
Print modes	Continuous Peel and present (use appropriate V275 part #) Tear-off (limited to certain label types)		
Label types	Most common labels types supported. Contact Omron for information about transparent labels, shiny labels, colored labels, colored ink, unusually thick or unusually thin label stock.		

Required PC and Accessories

Type	Part Number	Kit Part Number
PC, Windows 7 or Windows 10	N/A	Quad-core 2.6GHz processor 8GB RAM 500GB storage Dedicated Gigabit Ethernet NIC for interface
Light tower for visual alarm	V275-ALRYGZZT	Includes light tower and cable for connecting with Zebra printer
I/O cable	V275-ALCBL0ZT	2m long cable with flying leads for connecting LVS V275 Zebra printer with a customer-supplied light tower

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