



Quality Control Label Checker

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Label Checker

Quality Control

Label Checker is a multifunctional and easy-to-set compact quality control system designed for various label inspections, with primary focus on optical character recognition. The system improves productivity by performing multiple inspections simultaneously and ensures high quality output.

Thanks to the advanced tools, you are not limited to read and verify printed texts, barcodes and 2D codes, but it also checks the correct label position, presence of pictograms and print quality.

Moreover, Label Checker offers image filters and other features such as overlapping characters segmentation, image calibration that ensure reliable operation, even in challenging applications



Label Checker

Quality Control

CHECKS THE PRESENCE OF PICTOGRAMS

READS AND VERIFIES 1D&2D CODES

MEASURES POSITION OF THE LABEL

SOFTWARE CUSTOMIZATION POSSIBILITY

SICK APP SPACE

MEASURES DIMENSIONS

CHECKS NUMERIC SEQUENCE

READS CHARACTERS AND VERIFIES CORRECTNESS

CHECKS PRINT QUALITY

CHECKS PRINTED PATTERN

GENERATES PRODUCTION STATISTICS

DATE	TIME	PASS	FAIL
1.1.2018	0.00	575	25
1.2.2018	0.00	580	20
1.3.2018	0.00	590	10

Label Checker

Product Features

Optical Character Recognition (OCR) and Verification (OCV)

- ▶ Multiple reading regions for both text and 1D & 2D codes
- ▶ Supports dot matrix printed text ¹⁾
- ▶ Overlapping character segmentation feature ²⁾
- ▶ Expected string ability with pattern characters
- ▶ Custom font teach-in

1D & 2D code reading

- ▶ Automatic code search in full screen or selected region
- ▶ Multi-read action for multiple codes within one image sample
- ▶ Quality check for 2D codes
- ▶ Supported 1D codes: Code 39, 93, 128; EAN-8, 13; Pharma code and more
- ▶ Supported 2D codes: Data Matrix, QR, PDF417, Aztec and more

Object locator

- ▶ Precise position identification for various label positions, tilt or rotation
- ▶ Mask feature³⁾

Other features

- ▶ Advanced inspections (see next slide)
- ▶ Image rectification ⁴⁾
- ▶ Multiple programs and jobs switching
- ▶ Inspection statistics

1) S/N587
P-995X

2) 87 → 87

3) 32 + mask 32 → 32



Label Checker

Advanced Features



EASY TYPEFACE TEACH-IN

Smart font teach-in allows to read and verify custom fonts which also improves reading speed and the print quality check



LABEL POSITION AND DIMENSIONS

Measures the relative position and rotation of the label. Furthermore, it can measure any distance in the image between two contrasting edges.



PRINT QUALITY

Detects print quality and promptly sends warning notification when print quality differs less than the required set value



IMAGE RECTIFICATION

Flattens bended surfaces and eliminates perspective distortions



LABEL CONTENTS DETECTION

Detects whether the pre-defined object is present in the selected region, as well as its correct print and completeness thanks to Pixel counter, Pattern verification and Blob tool

Label Checker

User Interface



Label Checker

Hardware Features



GBIT ETHERNET

PWR, SERIAL, I/OS

Label Checker

Hardware Features



Label Checker

Product Range

SMALL AND
AFFORDABLE



LBC631
InspectorP631
1.3 Mpix

DECENT RESOLUTION
IN SMALL HOUSING



LBC632
InspectorP632
1.9 Mpix

TOP SPEED



LBC642
InspectorP642
1.7 Mpix

GOOD OVERALL
PERFORMANCE



LBC652
InspectorP652
2.1 Mpix

BEST RESOLUTION FOR
THE LARGEST FIELD OF VIEW



LBC654
InspectorP654
4.2 Mpix

Label Checker

Target Applications

LabelChecker can be used in various types of industries, primarily targeting Consumer goods & Packaging, Pharmaceutical and Automotive industry.



Packaging

- Expiration date
- Print quality
- Label verification



Pharma & Cosmetics

- Expiration date
- Print quality
- Ingredients check



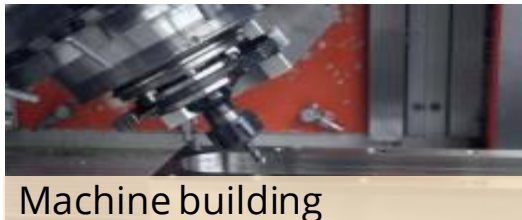
Electronic & Solar

- Batch/SN control
- Print/Peening quality
- Readability of codes



Automotive

- Batch/SN control
- Printing/DPM quality
- Logistic



Machine building

- Batch/SN control
- Print/Peening quality
- Presence inspection



Food & beverages, tobacco

- Expiration date
- Print quality
- Ingredients check



Logistics

- Handling & sorting
- Print quality
- Label verification



Others

- Handling & sorting

Label Checker

Benefits

Compact all-in-one system

Multifunctional by combining various label inspections

High reliability thanks to robust deep learning based algorithms



Easy set-up and configuration via web interface

Flexible optical design and high-power illumination, able to fit almost any application

Robust housing, ideal for harsh environment conditions

Multiple programs and jobs switching





Thank you for your attention!

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