



We keep an eye on your quality

Bottle Master – Optical Multiple Camera Inspection System

ibea[®]
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Your Bottle Inspection

The Bottle Master is your reliable quality assurance.

ibea systems can easily be integrated into your existing production lines. Keep the overview of your production quality and deliver only 100 % checked products.

Act sustainable and reduce materials and staff costs, while achieving an automated early inspection process. We provide you with individual systems designed with multiple cameras especially for your specific filling line.

ibea sets the standards in the inspection industry!

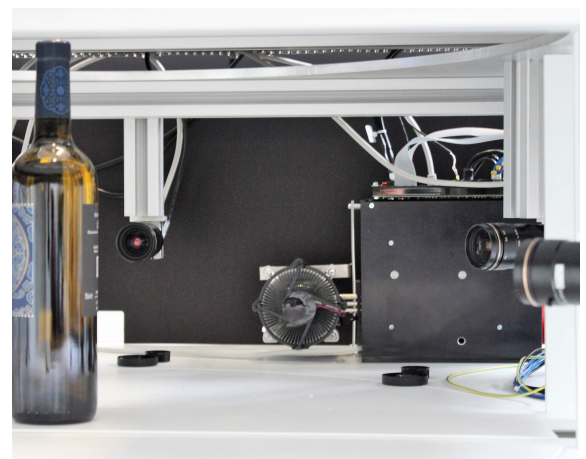


Defects at the bottle neck:
Cracks at the lid and tear of capsule

Inspection Areas



Defects at the label:
Folded label and scratches in the design



360° inspection of a whole bottle with a 6 camera system

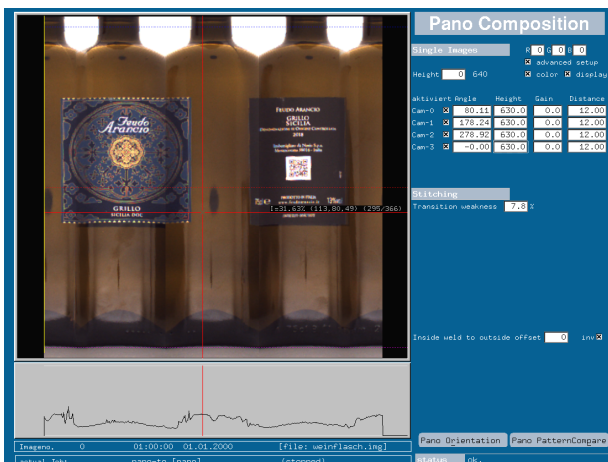
Features

Feasible setups:

- 1 camera: Inside & upside inspection
- 2 cameras: Inspection of the position, size & existence of labels
- 3 - 5 cameras: More detailed inspection of specific areas
- 6 - 7 cameras: Full bottle inspection incl. decor (whole body wrap from 6 single pictures)



6 camera system with conveyor and computer rack



Body wrap of a whole bottle in HMI (human machine interface)

- 100 % inspection and detection of all your products
- Intuitive handling: 1. Learn, 2. Inspect
- Automatic ROI adjustment and installation (ROI = region of interest) at the push of a button (Push & Go)
- Operation and adjustment during inspection
- Full statistical data and performance indicator visible during inspection
- Unlimited areas of inspection programmable
- Automatic alignment and object tracking at very high conveyor speed
- Multi snap feature with reversible lighting (two pictures per object with different lighting e.g. RGB and UV or IR)
- RGB colour blender, decor control and colour inspection feasible
- Installation of multiple ejectors for pre sorting
- Lift for different object heights
- Control via remote or app

ibea - product quality inspection systems

Testing methods applied by ibea systems

- Standard image processing applications:
inspection with camera of surface, texture, geometry, shape and dimensional accuracy, color, 2D and 3D measurement, holographic imaging, roughness, measurement of position and torsion, leak tightness
- Image processing, special applications:
Heat-flow thermography by direct application of heat or ultrasonic initiation for structure checks, crack detection or the detection of other anomalies, UV light for fluxing agents or coating checks — crack detection, X-ray
- Acoustic inspection:
initiation with a hammer system
- Eddy current measurement:
cast parts

What ibea systems inspect

- Ceramic tubes, ceramic insulators
- NoX sensors
- Sprinkler glasses, sprinkler bodies
- Glass ampoules, plastic ampoules
- Syringes, syringe parts
- Laparoscopes, biopsy forceps
- Catheter, artery tubes
- Toothpaste caps or shoulders
- Blister packaging, before sealing:
two-sided and for filling
- Tablets - color, cracks, size
- Silicone sealings and plastic sealings
- Metal packaging
- Plastic packaging
- Heavy ceramics and fine ceramics

Put our knowledge to the test

Feel free to send us samples of your faulty products, which you would like to inspect. Please give us a short description of your conveying system, best including some pictures of it. Please also transmit your conveyor speed and the part rate. We will prepare a comprehensive proposal especially for you, including all required accessories — for a competitive price!

About ibea

ibea develops and implements inspection systems for a perfect quality check — modular, future-proof, and flexible. It is our aim to ensure a smooth-running production all the time. Our main focus is to provide inspection systems, which are stable and maintenance-free. As a systems integrator we are able to offer comprehensive professional service from consultation to implementation.