

We keep an eye on your quality

C-ViS – Compact Optical Inspection System



3P Cans



2P Cans



Bev-Can



Ends



Closures

ibea[®]
we keep an eye on your quality

ibea Vision Inspection Systems

Inspection – simple and reliable

The ibea Compact ViS is a multi-lane inspection system, and the result of more than 20 years of research and development. The system combines outstanding performance with a very compact size. The new Compact ViS consists of only two modules: the imager and the connected computer rack. Thus, it can be easily integrated to existing production lines, needing only a very small area for installation. The system was developed for high performance (up to 3,000 parts per minute). Its standard version is fit for the inspection of curved or square products with maximum diameters of 190 mm and heights up to 300 mm. Such as jar lids, TO-caps, cans, punching parts or seals. Of course, individual configurations are possible.



Electronic Rack

In addition to the special applications we offer standardized panels for housing computer- and control output units. The solid TS8 Rack is suitable for accommodating all units up to IP65 (V2A). All housings are fitted with TFT monitors. Supplementarily a half-height Rack version is available where the monitor is fixed on the working surface. All PC-based housings include integrated extendable keyboards. Interfaces for chassis-errrors, system reports and access for serial interface or Ethernet access (diagnosis possible) are easily accessible via the back door. Rotary encoder (for measurement of conveyor speed), Trigger light barriers or sensors, lifts (for different product heights), single- or multi-ring lights, pusher stations as well as a PLC-interface (6 outputs and 3 inputs) can be connected supplementary.

The ibea Compact ViS has a modular design. Lighting, beam splitters or cameras can be adjusted to the respective product as well as to changing demands that may occur. The standard basic software is able to assess even complex components. The operating menu is clearly structured and can be mastered without special training.

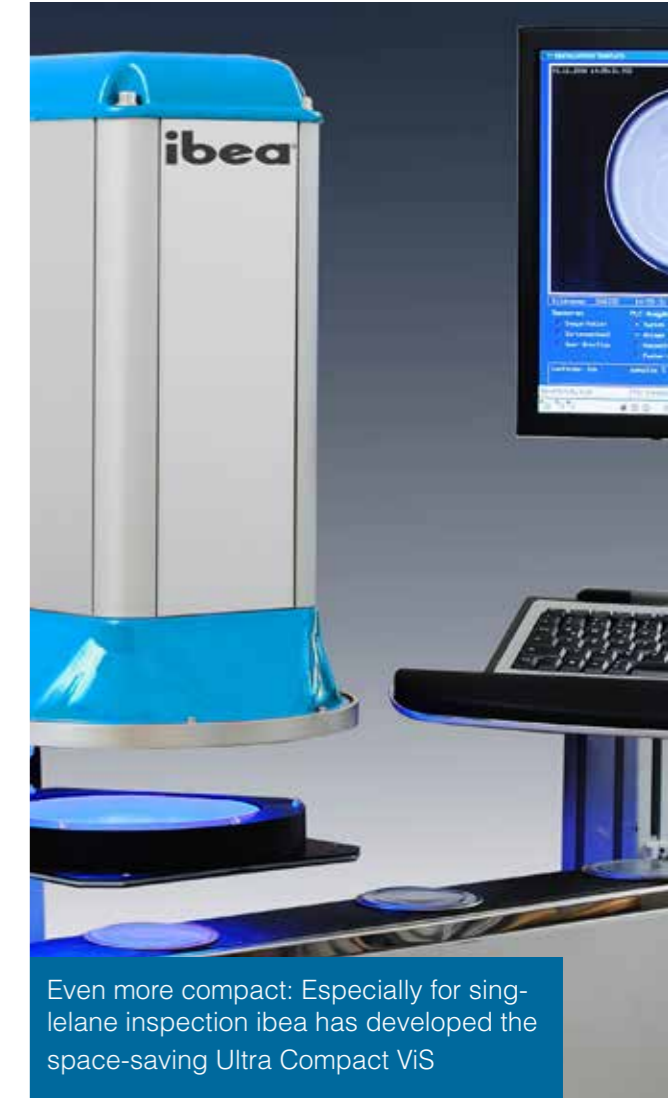


Imager

An imager can be defined as a constructional combination of illumination, camera(s) and lens. ibea's modular concept offers the possibility to construct individual customized applications in addition to existing standards. Different types of corona ring lights are available as accessory. Bright flashing LEDs offer the possibility to point out different kinds of product anomalies in its different illustration options. This patent-registered CFL (color flash light) illumination features superior long-lasting durability during constant intensity. The imager type LD-Beam is additionally equipped with a beam splitter, which avoids the formation of product-shades and optimises the illustration of anomalies. The beam splitter is used to illustrate small scratches – usually hard to detect – in a more bright and visible way. Depending on the product and the camera specifications colored (RGB) or white LEDs are used. Please contact us anytime for further details – we'll be glad to assist you.



The ibea Compact ViS is network-compatible. Therefore you can configurate and supervise the whole system via the Internet.



Even more compact: Especially for single-lane inspection ibea has developed the space-saving Ultra Compact ViS

Compact ViS – the features

- Multi-lane system
- Standard system fit for the inspection of products with maximum diameters of 190 mm and heights up to 300 mm (other sizes possible upon request)
- Clock rate up to 3,000 ppm
- Remote-controllable via Intranet or Internet
- Fully operational during inspection
- Multi-camera capability
- B&W or color cameras with up to 5 MP
- Integrated modular color or white flash
- Software with Indicator Browser for intuitive fault evaluation
- Built-in PLC (three ejectors per system, reject surveillance, mass error, system error, etc.)
- Fit for special applications

ibea - product quality systems

Testing methods applied by ibea systems

- Standard image processing applications:
inspection by 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 by a hammer system
- Eddy current measurement:
castings

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
- Tablets - color, cracks, size
- Silicone sealings and plastic sealings
- Metal packaging
- Plastic packaging
- Heavy ceramics and fine ceramics

Put our know-how to the test

Feel free to send us samples of your faulty products that need inspection. Please give us a short description of your conveying system, possibly including photographs. Please also include conveyor speed and part rate. We will prepare a comprehensive offer specified to your needs, including needed accessories — all for an attractive 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 trouble-free production around the clock. Our focus is on producing systems, which are stable and maintenance-free. As a systems integrator we offer you comprehensive professional service from consulting to implementation.