



Compact ViS

C-ViS-1



ibea Inspection Systems differ in comparison to those of others in that they are extremely customer- and product-oriented in their hard- and software design. ibea systems are deployed predominantly in the inspection of cans, ends, PT/TO caps, bottles or similar products within the metal packaging industry. Long-standing experiences of our mechanical engineers are at the center of our innovative hard- and software.

ibea uses only high quality camera, lens and illumination equipment – a key concept in developing sophisticated image inspection systems. The illumination elements are geared exactly towards the product needs by using durable LED's for the inspection of highly reflective products.

ibea components comply with the highest industry standards and secure system stability in harsh production environments for a long-lasting, maintenance-free, around the clock performance. Through remote diagnostics we are capable of checking functions and settings at lightning speed. Accessories, such as camera lift or zoom lens (auto-save) further enhance your flexibility if changeover in height and diameter is required.

ibea's ViS disposes of a great many software standards, in particular for the can-maker industry. Existing software versions are for TO-Caps, 2-piece and 3-piece cans, ends, easy peel ends, crown caps, closures, PET's, PT caps, rectangular cans and ends, etc.

The user software allows for working on different "jobs" simultaneously in order to concentrate on various product colours or designs, and ultimately to allow for the possibility of a quick product change-over. Job modifications are possible anytime, even while the system is in inspection mode. During inspection the operator has error statistics, course of inspection including error entries, pareto analysis, system status, and the last 200 images that show an error on display.

Up to 3 ejector signals are managed via internal RTS (Real Time System), which guarantees a controlled ejection even at varying conveyor belt speeds.

Our systems can be designed for high production speeds (3 m/sec) and part rates of more than 3,300 ppm!

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ibea's Compact ViS inspects a wide range of packing products and punching sheets

Compact body – quick employment

Electronic Rack

In addition to the special applications we offer standardized panels for housing computer- and control output units. The solid Rack is suitable for accommodating all units up to IP65 (V2A).

Accessorily a half-height Rack version is available where the monitor is fixed on the working surface. All housings include integrated keyboards. Interfaces for chassis-errors and system reports and access for serial interface or Ethernet access (diagnosis possible) are accessible from 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.



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 customised applications in addition to existing standards. Different types of corona ring lights are available as accessory (see pricelist).

By using extremely bright flashing LEDs the patent-registered CFL (colour flash light) illumination features superior long-lasting durability during constant intensity and offers the possibility to point out different kinds of product anomalies in its different illustration options.

The imager type LD-Beam is additionally equipped with a beam splitter which avoids the formation of product-shades and optimises to illustrate anomalies. The beam splitter is used to illustrate small scratches – usually hard to detect – in a more bright and visible way. In case of decor control the usage of a coloured equipped beam splitter is recommendable.

ibea's Compact ViS is a space-saving and easy installable inspection system with an excellent price-performance ratio.

Partlist of Compact ViS System:

Electronic Rack:

- VGA-Monitor incl. Keyboard/Mouse
- Image Processing Unit (IPU)

Measurements appr.: L 0,65 x W 0,65 x H 1,80 m
or: L 0,65 x W 0,65 x H 1,00 m

Options to E-Rack:

- Uninterruptible power supply
- Air Condition

IPU Equipment:

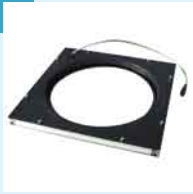
- PC-Slot CPU Pentium 4 / 2,8 Ghz
- Operating system LINUX
- Hard disk 250 GB
- Grabber P3i2 (depending on version, by using more than 4 cameras 2 grabbers are used)
- C-RTS with 6 programmable PLC-outputs e.g. for mass error and system, and 3 outputs
- Electronics for Power Down
- CFL light and Pusher electronics

Imager (camera and illumination):

- Up to 6 progressive scan-cameras of well-known suppliers with high-quality lenses for industrial applications
- Version 1: (ViS-C-LD) RGB-Flashdome LD with double diffuser
- Version 2: (ViS-C-LD BEAM) RGB-Flashdome LD with double diffuser and big dielectric beamsplitter
- Connecting plate for rotary encoder and pusher

Measurements appr.: L 0,30 x W 0,30 x H 0,45 m

Accessories



2-level Corona
Two levels (Red/Blue) for round objects with max. diameter of 100 mm



Motorized Zoom-Lens
for automated selection of various diameters (0-200 mm)



3-level Corona
Three levels (Red/Green/Blue) for round objects with max. diameter of 100 mm



Motorized Lift
for automated height adjustment of the camera when working with changing product heights, lift range up to 200 mm



Air Condition
for Electronic Racks and/or cameras



High-resolution Camera
for inspection of large objects

ibea special:

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!

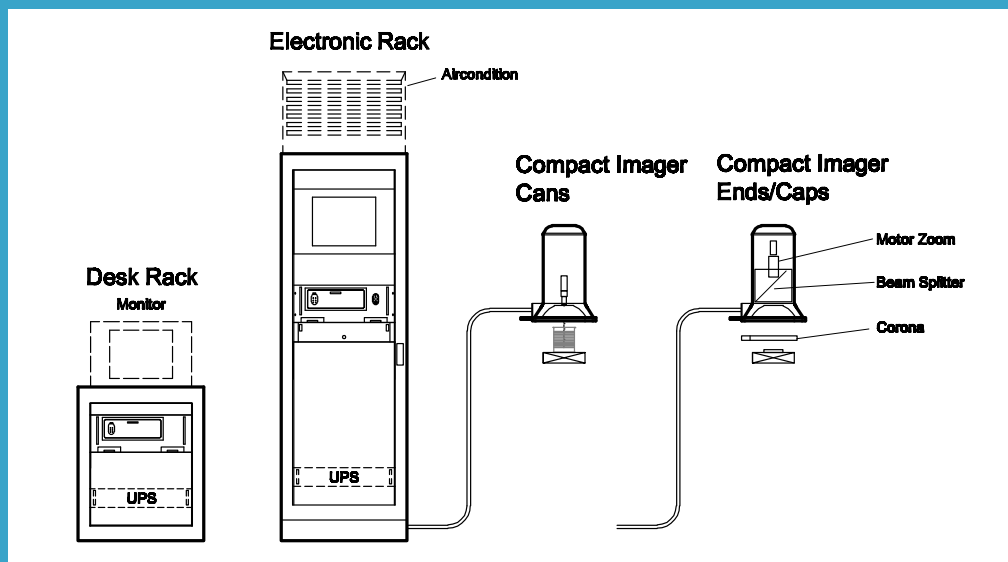
Technical specifications for Compact ViS and accessories:

Inputs:

- 110-240 VAC 50 – 70 Hz (16A) input voltage
- 6 bar Druckluft für Auswerfventil
- 24 VDC input for conveyor speed gauge
- 24 VDC input for trigger light barrier
- 3 PLC-Eingänge

Outputs:

- 3 x 24 VCC (1 A) output per line for reject valves (1x included)
- Serial interface RS 232
- Ethernet interface RS 232
- 6 more freely programmable system outputs 24 VDC



ibea[®]
we keep an eye on your quality

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