



# Ultra Compact ViS

Vision Inspection System  
**UC-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. 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.

## UC-ViS-1



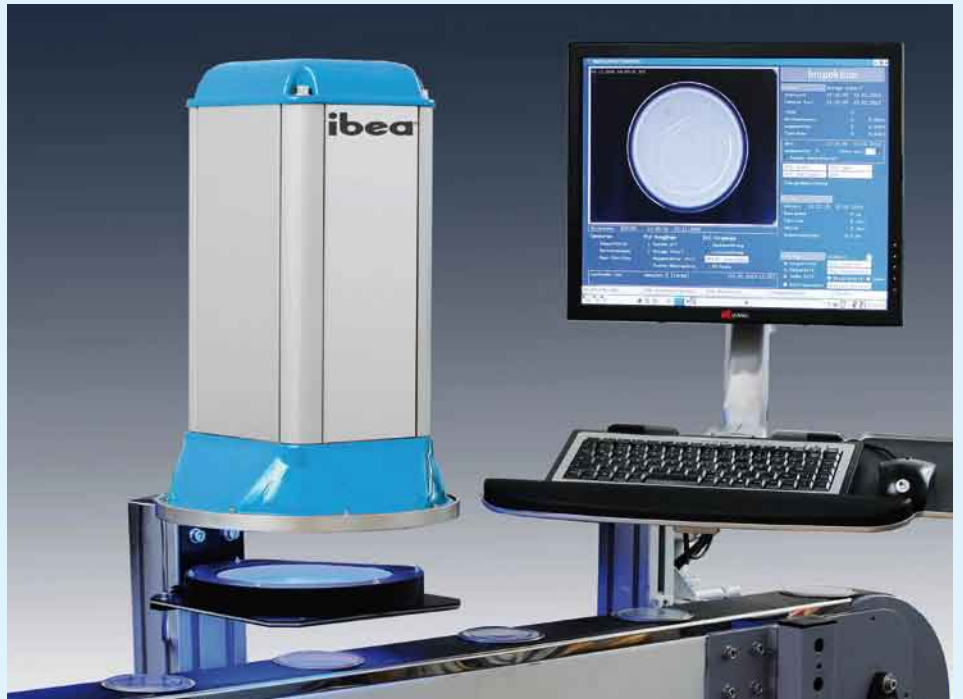
*ibea's Ultra Compact ViS inspects a wide range of packing products and punching sheets*

# Ultra Compact ViS – more than compact

ibea's **Ultra Compact ViS** is an inline Single-Lane-Inspection-System. ibea successfully integrated all system components into an extremely compact housing. Merely the control panel (monitor, keyboard and mouse) is attached separately. The complete system is extremely flexible, very easy to integrate into existing production lines and only requires a very small area for installation.

The Ultra Vis Compact was developed for high performance production with up to 3.200 parts per minute. Its major application is for products from the packaging sector such as bags, cartons, caps, TO-caps, cans, ends and boxes of all kinds of materials e.g. metal, plastics, papers etc. for diameters of max.190mm and heights of max. 300mm. The Ultra Compact ViS offers an ultra fast optical inspection for dimension, flaws, color fastness, décor, texture, deformation, damage, completeness, fit, position and so on. It is also dedicated for changing decors or highly reflecting surfaces and materials.

The system is built up modular. Each module such as illumination dome, beam splitter or cameras can be adjusted precisely to the requirements of your product and maintains variability for your



changing needs. A gear clock operated "Real Time System" (RTS) controls the image scan, illumination and up to 3 ejectors.

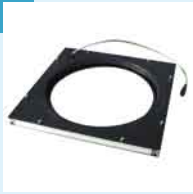
Included in the delivery package is the basic software, which also detects complex components. The software is network-compatible, which means, that the system can be configured

and monitored via intranet. The operator menu is self-explanatory, very clearly arranged and therefore learnable without training. Additional features e.g. the indicator browser for subsequent inspection of faulty images show ibea's long term know-how in the development of high quality control systems. The system can be handled during inspection.



## Ultra Compact ViS

- Single lane inspection system for all round canmaker products (ends, easy open ends, easy peelable ends, shells, crowns, 2/3-pcs cans, tuna cans, closures or similar products)
- No restrictions compared to ViS-3 or ViS-4 (full speed and performance)
- Fully operational during inspection
- Full remote control via Intranet or Internet
- For parts up to 190 mm in diameter or 80 x 80 mm, height up to 200 mm
- Clockrate up to 3,000 ppm
- Micro ATX Board
- Up to 4 progressive scan-cameras of well-known suppliers with high-quality lenses for industrial applications (simultaneous picture grabbing)
- B&W or color cameras with up to 2x2 MPix
- Integrated modular color or white flashlight
- Build-in PLC & Power Down Box (3 rejectors per system, reject surveillance, mass error, system error, etc.)
- Easy-to-handle user software, more than 15 years of experience in packaging products
- Software with Indicator Browser for relaxing setups
- **Measurements of Imager approx.:**  
L 30 x W 30 x H 45 cm



### **2-level Corona**

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



### **3-level Corona**

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



### **Air Condition**

as external accessory with flexible tube connection



### **Motorized Zoom-Lens**

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



### **Motorized Lift**

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



### **High-resolution or Colour 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 Ultra Compact ViS and accessories:

### Inputs:

- 110–240 VAC 50 – 70 Hz (16A) input voltage
- 6 bar air pressure for rejector valve
- 24 VDC input for conveyor speed gauge
- 24 VDC input for trigger light barrier
- 3 PLC-inputs

### Outputs:

- 3 x 24 VCC (1 A) output per line for reject valves (1x included)
- 5 more freely programmable system outputs 24 VDC

### Interfaces:

- USB interface
- Ethernet interface

**ibea**<sup>®</sup>  
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