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Beleuchtungs-Chamäleon



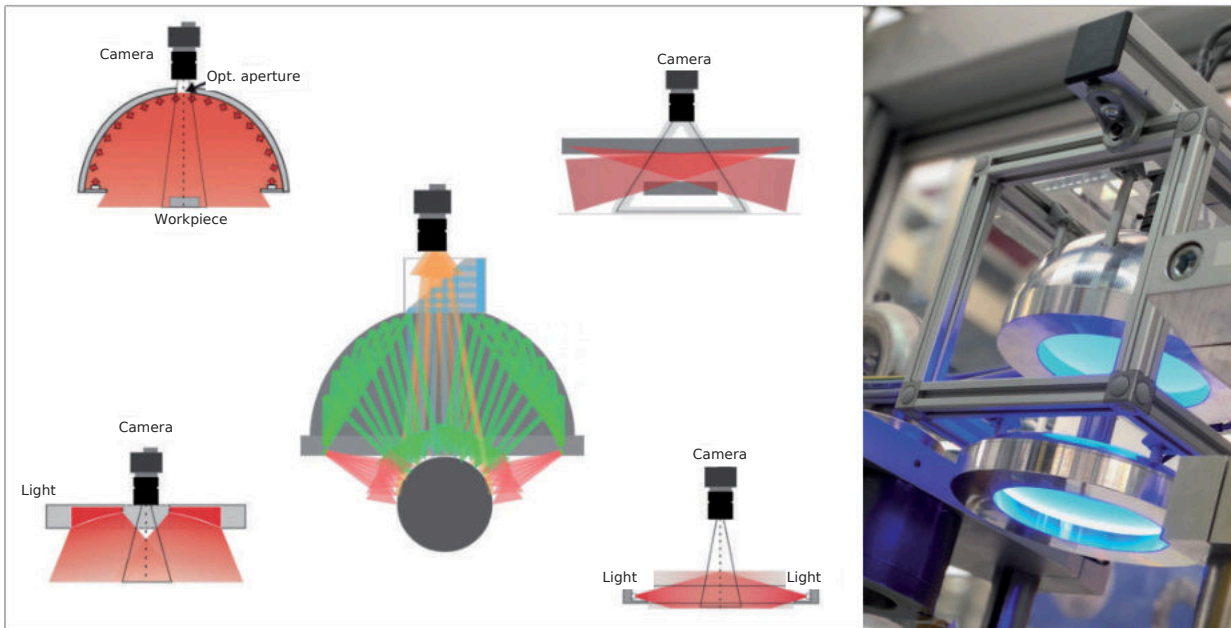
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Lighting chameleon

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The multicolour illumination consists of a lighting ring that can also be used as a ring light. Suitable attachments turn it into dome, dark-field, low-angle or flat-dome illumination.

Bilder: Cretec GmbH

Lighting chameleon

Variable multicolour illumination for every requirement

Depending on the features to be detected in the camera image, different illumination systems, light colours and angles of incidence and emergence are required. If the selected illumination is unsuitable, another colour has to be tested or an entirely new light purchased.

Laboratory equipment is expensive because each lighting variant must be stocked in several light colours. This makes applications inflexible. Every subsequent change costs money and increases delivery times. By contrast, the new multicolour illumination can be adapted easily on site to practically any requirement. It consists of a lighting ring that can also be used as a ring light. Suitable mechanical attachments allow it to be used as dome, dark-field, low-angle or flat-dome illumination. The basic lighting body always remains the same. Users can therefore keep several lights in stock as standard units

and simply add the physical configuration required by each application.

The basic body comprises RGB LEDs and intelligent power control. The light colour can be selected from twelve fixed variants and digitally dimmed in 20 steps to match other illumination systems. A built-in controller stores all settings. The light can be configured using an external box with four buttons, a PLC with four digital signals, or serially via RS232. The serial interface allows the intensity of each light colour to be specified, enabling all RGB mixed colours. The four ring segments can also

be controlled individually as a standard feature. This enables rapid testing of the best lighting variant for each application. The light connects via a four-pin M8 connector and, like any other light, can be triggered directly. Optional settings are accessed through two further eight-pin M8 connectors. Further multicolour coaxial lights, backlights and bar lights will be presented at VISION.

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