



Light is vision.

Machine Vision Illumination

As experts in illumination systems, Volpi made an early decision to develop fiber optic and LED illumination for machine vision applications. Use of machine vision systems consisting of cameras and computers is quickly becoming more widespread and exhibits an immense potential for innovation. To improve product quality and reduce costs, more and more industrial companies are committing to “zero error” production or automated production, which is impossible without mechanical inspection and measuring systems.

- Improve product quality
- Increase productivity
- Reduce costs involved with manual inspections
- Increase customer satisfaction

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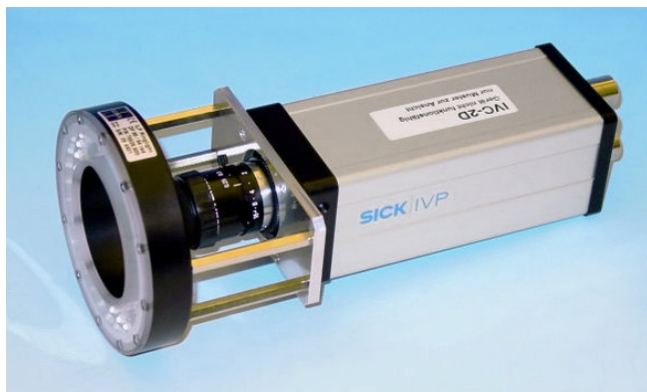


Photo: Basler Vision Technologies

Although the camera systems being used are constantly undergoing further development and also becoming more light-sensitive, machine vision always depends on the proper illumination. In realizing an image processing solution the proper choice of illumination for the test specimen is the determining factor when it comes to the image pickup and subsequent evaluation of the image. Certain test characteristics or errors can only be evaluated using image processing software if they are first visualized with sufficient contrast. This task sounds relatively simple, but does, in fact, pose one of the main difficulties in image processing.

Fluctuating lighting conditions must be avoided if strict quality criteria are to form the basis in the inspection of



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objects. Precision illumination from Volpi allows the optimum conditions for testing objects to be easily reproduced.

