

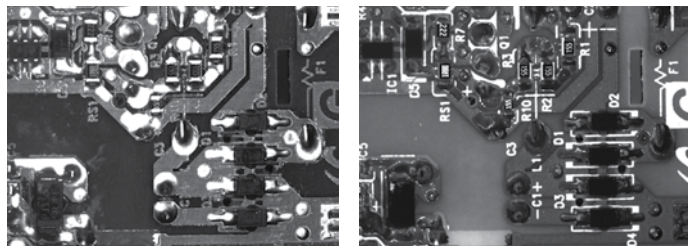
READY TO INSPECT?

Choose the right lens and illumination for your application

- Inspect metal parts, PCBs, ... or bring your own!
- Try different illumination techniques and see how they improve contrast on critical features.

EO High Performance Telecentrics

These lenses provide great performance and highest image quality, but is your illumination system able to enhance the contrast on the critical features of the objects under inspection? See for yourself how to enhance contrast on PC boards, different metal parts – or feel free to bring your own sample! Backlighting, LED rings at different angles, polarization filters, diffuse or direct lighting, ... when it comes to illumination there is a variety of methods. Find out which one is the best for your application!



Choosing the right illumination technique is critical for your inspection system. Polarization Filters can help to reduce specular reflections and bring out the relevant details on your PC board. Notice the contrast change of the labeling.

Telecentric Lenses with Variable Magnification

Can't find an off-the-shelf lens at the magnification you need for your inspection system? Try our telecentric lenses with variable magnification and simply adjust the field of view to your exact needs – without sacrificing telecentricity, performance and accuracy!

In-line Illumination Telecentrics

A very compact and elegant solution – but is it suitable for your application? Bottom line: This technique should only be used when inspecting flat, highly reflective surfaces. Metal parts, CCD/CMOS sensors and wafers would be perfect examples.

FEATURED STOCK PRODUCTS

TECHSPEC® Silver Series Telecentric Lenses

EO's telecentric Silver Series lenses are an ideal choice for Metrology and Gauging applications. Their double-telecentric design allows for meeting demanding accuracy requirements by granting insensitivity to both object and sensor position and eliminating perspective error as well as illumination roll-off. At the same time, the f/6 design permits high light throughput and thus convenient exposure times. In addition to the already existing lenses ranging between magnifications from 0,16X and 4,0X, EO added three new designs with an optional in-line illumination. Here, a LED or fiber optic light guide can be coupled through a port on the side of the lens. This illumination technique provides a perfect contrast of defects on otherwise highly specular surfaces, which is why applications aiming at the inspection of flat metal surfaces, wafers or CCD/CMOS sensors greatly benefit from these lenses.



Telecentric Lenses with Variable Magnification

TECHSPEC® Variable Magnification Lenses are ideal for applications that may require constant adjustment of a system's field of view, including semiconductor or electronics inspection or factory automation. TECHSPEC® Variable Magnification Lenses feature compact, C-mount compatible designs to ease system integration and provide coverage for up to ⅓" sensors. The lenses also include a variable iris to control light throughput and improve image quality. For these unique products, our designers were honored with the VSD Innovators Award!



Check out our illumination products:
www.edmundoptics.eu/illumination