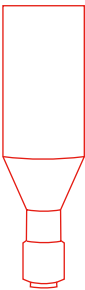
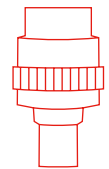
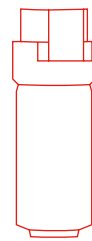
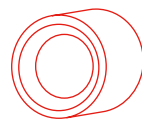


The Challenge of OPTICS FOR MACHINE VISION **Precision.**

The Challenge of Precision.

We cast light on a hidden multitude of forms and complex geometries to give them a hitherto unfamiliar transparency. Excellent optical parameters provide the precision required to make their special characteristics and identity visible!

We as technology leader develop, produce and globally distribute an optimally complementing, modular system of precision optics that are exactly attuned to our complex image processing systems such as vision sensors, intelligent cameras, multi-camera systems and individual high-performance LED illuminations.



FOR EVERY APPLICATION

THE RIGHT IMAGE.

vicotar® OPTICS

The quality of optical components decisively influences the performance of image processing systems. In combination with the lighting used, the choice of the lens is therefore an essential determinant of the reliability and performance of the overall system – especially in demanding industrial applications.

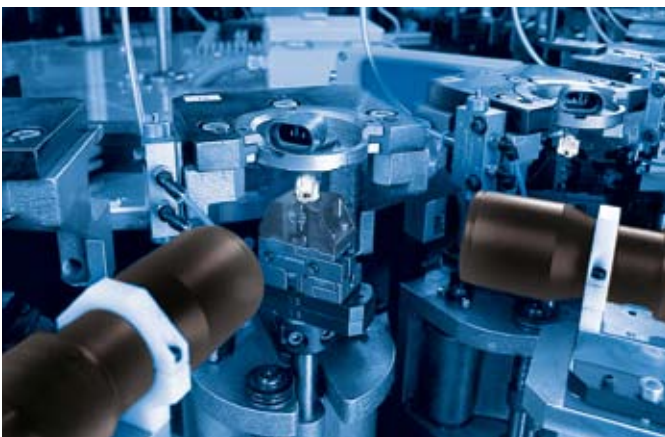
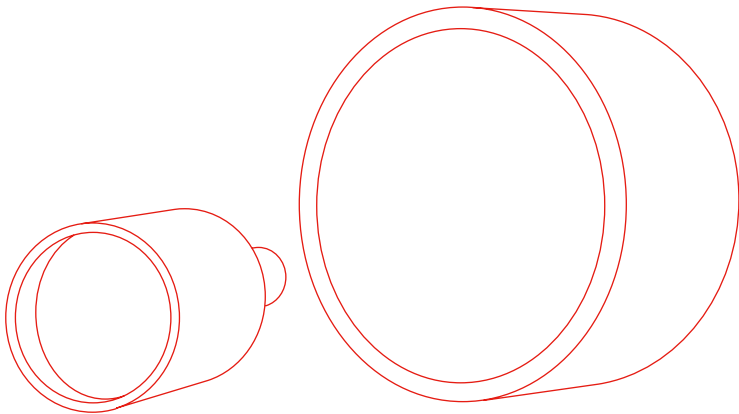
To meet these requirements, we offer users a wide range of telecentric and entocentric precision lenses from micro to macro. We guarantee high imaging quality and excellent optical parameters for our products.

Security through Quality:

Besides precision lenses our component system also consists of complex systems for machine vision and individually powerful LED lighting units, allowing you to select the right components for your task and optimally configure your image processing system.

vicotar® optics are characterised by:

- Mechanically and optically robust design
- Easy, rapid mounting
- Excellent imaging characteristics
- Reliable performance in industrial use
- Long life times
- High quality standards and delivery reliability
- Worldwide availability



PRECISION OPTICS FOR PERFECT OPTICAL DESIGN **ALL REQUIREMENTS.**

OPTIMALLY ATTUNED TO VICOLUX® LIGHTINGS AND
IMAGING SENSORS WITH C-MOUNT INTERFACE

vicotar® optics satisfy users through high-quality imaging characteristics and precise optical parameters.

The fast design and high resolution capability of the lenses guarantee that the imaging sensor will accurately image every detail of the specific feature which must subsequently be detected and processed by the image processing system.

Telecentric lenses for precise measuring tasks

through perspectiveless imaging for various working distances and imaging sensors

Non-vignetting imaging

for constant brightness in the image

Optimal light incidence and depth of field

through adjustable, fixable apertures

Broad spectral range from 380 nm to 900 nm

permits nearly unlimited applications from ultraviolet to infrared

Entocentric lenses for nearly all imaging sensors

for sensor sizes from 1/3" to 1.2"

Use of entocentric lenses in very restricted work spaces

thanks to integrated deflecting units with exact beam guidance



Wide range of accessories

in the form of optimally attuned add-on modules

- Optical filters
- Lens mounts and adjustment kit for telecentric lenses
- Beam deflection device
- Coaxial mirror adapters

Reliability for long life time

thanks to compact, dustproof and vibration-resistant design

Customised solutions for OEMs

through individually adapted lens systems



Magnifying telecentric lenses



Telecentric measuring lenses



Telecentric widefield lenses

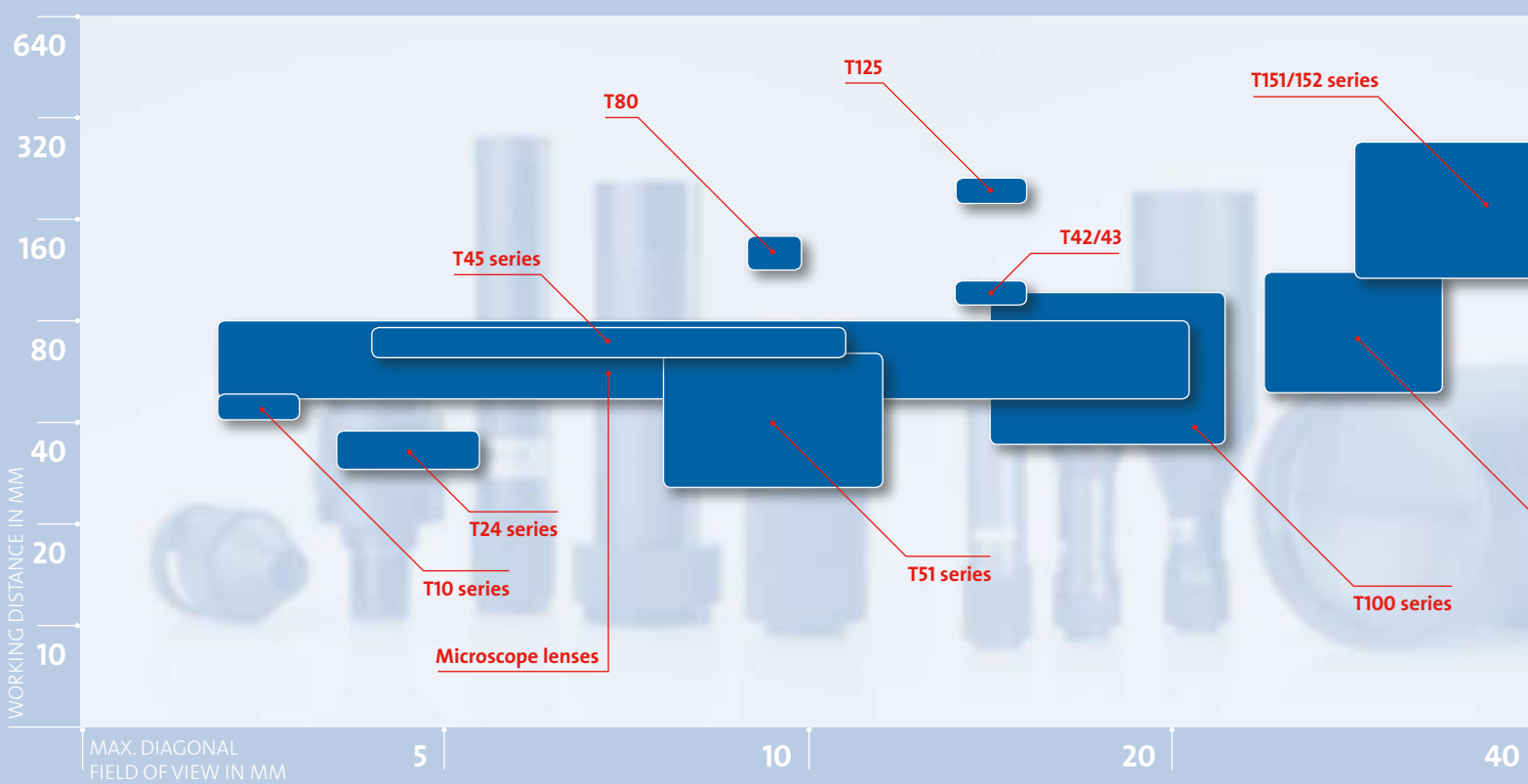


Entocentric lenses

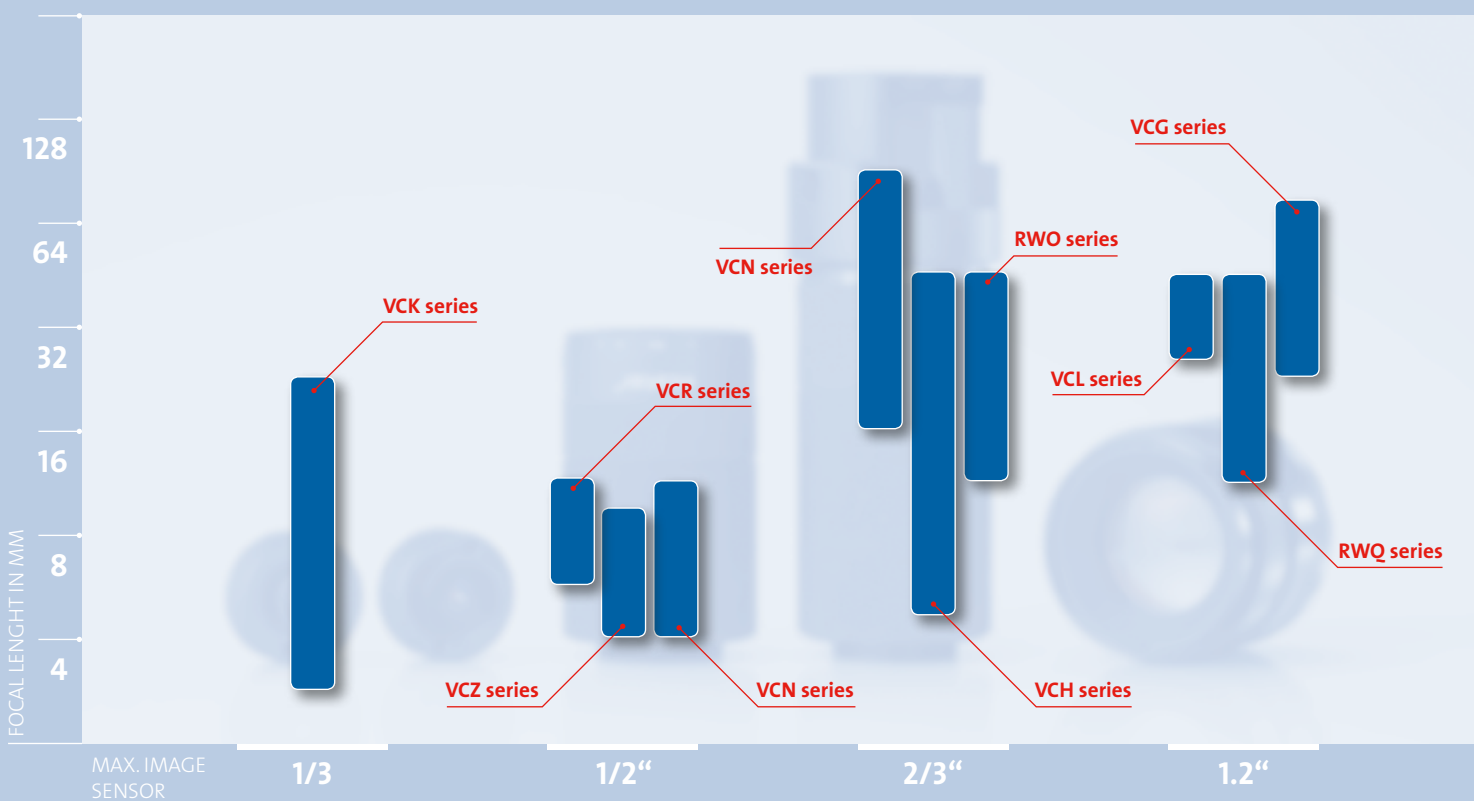


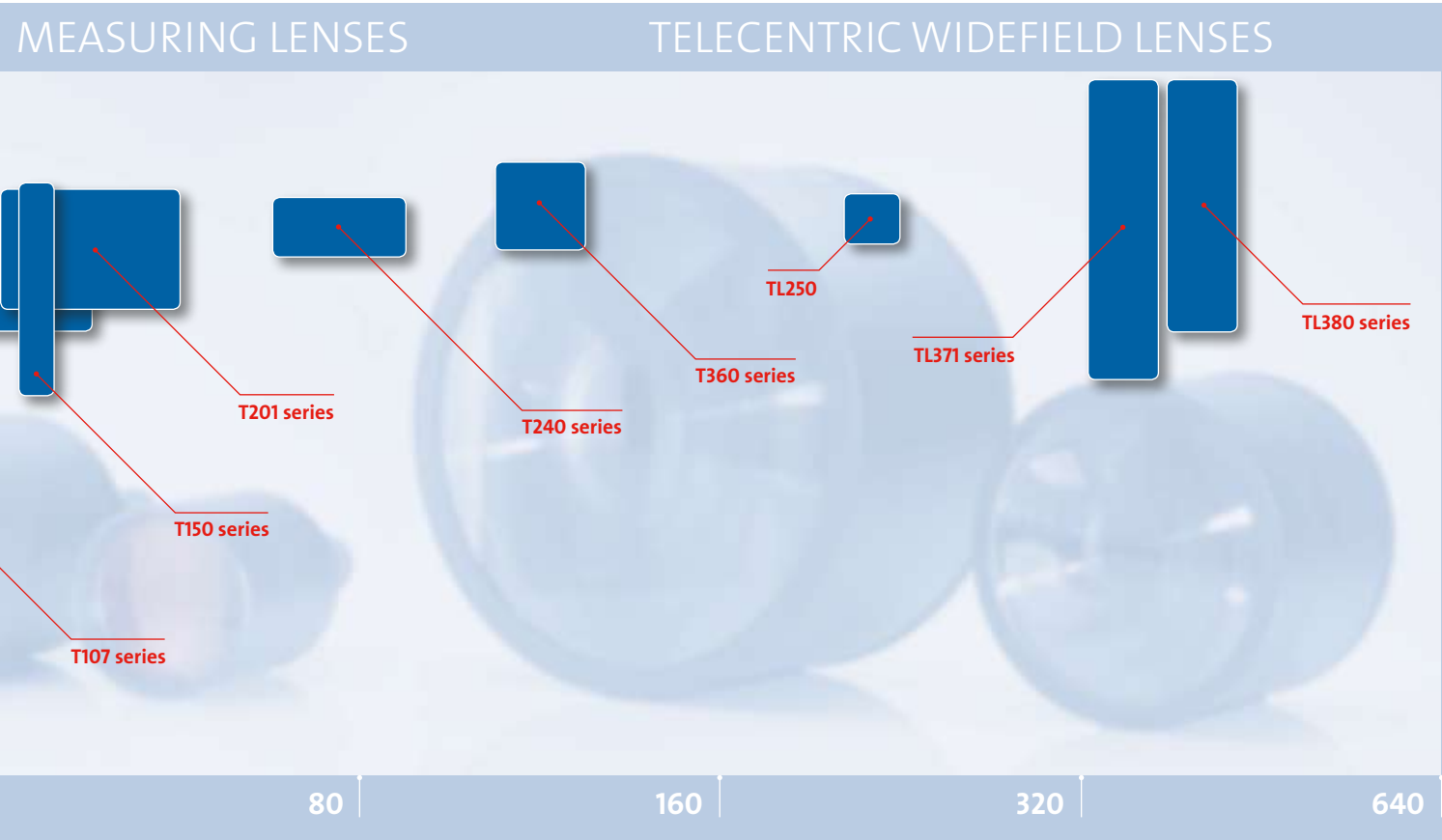
MAGNIFYING TELECENTRIC LENSES

TELECENTRIC



ENTOCENTRIC LENSES





RELIABILITY AND PRECISION:

vicotar® optics by Vision & Control have proven their value in thousands of different applications across a wide range of industries:

- Automotive
- Mechanical engineering
- Electronics
- Plastics industry
- Printing industry
- Packaging industry
- Robotics
- Pharmaceuticals
- Food industry

...





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Current information, data sheets and
3D CAD data on our extensive port-
folio of systems, lighting and optics
for industrial image processing
are available at

www.vision-control.com.

• **camat**® Vision Sensors

• **pictor**® Intelligent Cameras

• **vicosys**® Multi-Camera Systems

• **vcwin**® Operating Software

• **vicolux**® Lighting

• **vicotar**® Optics

**Individual configuration - optimal performance:
The Vision & Control component system**

Experienced machine builders, OEMs and system integrators worldwide
rely on components and systems by Vision & Control. Wherever flexibility,
speed, reliability and suitability to industrial uses are highest priorities,
our products are the first choice.

We guarantee competent consulting, convincing quality and best service.

Radiolarian is the scientific name for a monocellular ocean creature with thin silicium-dioxide barbs.
Radiolaria have a siliceous internal skeleton and can produce light, like some 90 percent of all creatures living 200 to 1,000 metres
below the sea surface.