Customized Lenses.

For High-Performance Applications.

BERLINER GLAS GROUP

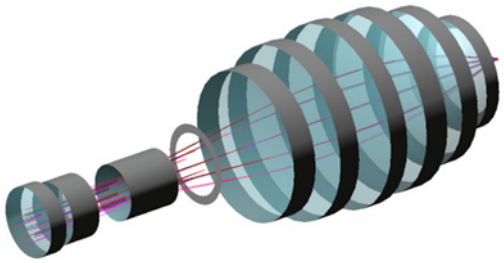
swissoptic

Customized Lenses.

Applications

Fields of application:
- Illumination
- Focusing

Measurement procedures e. g.:
- Reticle inspection
- Wafer inspection
- Metrology
- Positioning
- Ablation



Specifications

- Lens components Ø 5–300 mm
- Lenses for wavelength range 193–1,300 nm
- Focal length 8–100 mm
- Wavefront accuracy 0.04 λ RMS (λ working wavelength)
- Diffraction limited

Housing

- According to customer specification
- Mechanic design inhouse
- Nitrogen or clean dry air flushed
- Lens built with compensation method

Test & Qualification

- Lens qualification with customized metrology
- Qualification in operating position
- Compensation alignment

Customized Metrology

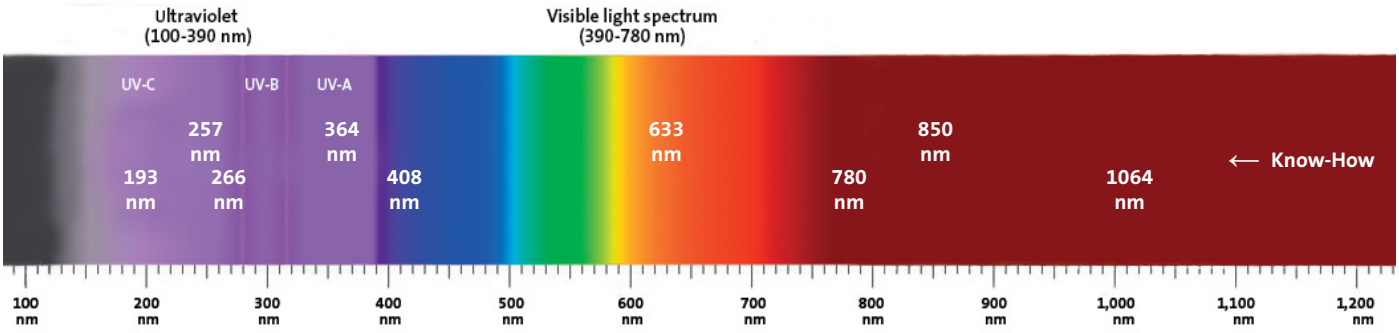
- Inhouse development
- Composition of measurement set-ups
- Measurement set-ups designed in function orientation
- Measurement of
  - Boresight errors
  - Distortion
  - Wavefront
  - Spectral reflection/transmission
  - Field of curvature
  - Focal length for field angle
  - Objective & image position
- Metrology for alignment

Clean Room Production

- Assembly/Mounting
- Adjustment
- Measurement
- Clean room class ISO 5 with AMC* (VOC**)

* airborne molecular contaminations
** volatile organic compounds

Wavelength Range



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