

These reflective Microscope objective lenses are optimized for chromatic aberration over a bandwidth of 350nm to 7μm. They are mainly used in microscope-spectrometry and failure analysis in the semiconductor industry.

- Adjustable for use with various types of microscope tubes with focal length ranging from 80mm to infinite
- The reflection mirror is strengthened with aluminium coating and MgF₂ protective layer.
- The RMS(M20.32 P0.706) mounting thread conforms to JIS standard and is compatible with all major microscope tubes.
- The focus point and image size of visible, UV and IR wavelengths shows no difference and precise matching of the images is possible.



Guide

- ▶ There is no protective layer in aluminium coating for the vacuum ultra-violet spectrum and gold layer coating for near infrared is available as an option.
- ▶ An adapter for the objective lens turret is available (OBLR-AMT). Check with our International Sales Division or your microscope manufacturer for compatibility and the use of reflective microscope objective lenses.
- ▶ Specific holder for microscope objective lenses (LHO-20.32) is available. [WEB Reference](#) [Catalog Code](#) W4024

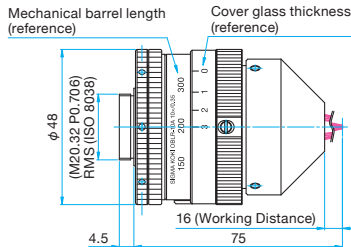
Attention

- ▶ These objectives are not to be used for laser processing due to light axis shielding of the reflective mirror.
- ▶ There are microscopes that cannot be used with a turret.
- ▶ The cover glass is not mobile. Use the adjustable correction collar to adjust the focal length and the cover glass thickness.
- ▶ The center reflective mirror shields the center of the light axis. For direct light experiments, a low intense light in the center is expected.
- ▶ The light intensity loss is expected to be around 45%. (The center mirror shielding 36% and the aluminum reflectivity 90%)

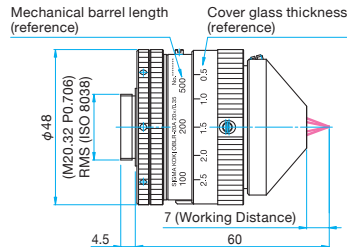
Outline Drawing

(in mm)

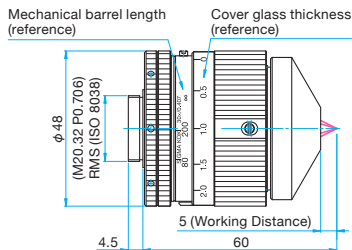
OBLR-10A



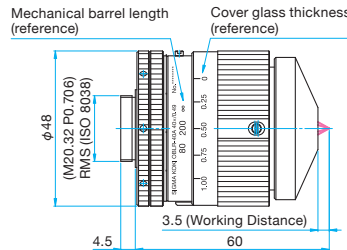
OBLR-20A



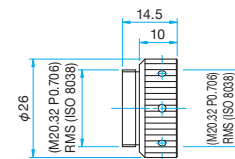
OBLR-30A



OBLR-40A



Objective Lens Adapter



Part Number **OBLR-AMT**

Specifications

Part Number	Magnification	Wavelength Range	Focal length f [mm]	Numerical aperture (NA)	Field of view [mm]	Working distance (WD) [mm]	Mechanical tube length [mm]	Shielding ratio [%]
OBLR-10A	10	350nm - 7μm	19.9	0.2	φ1.0	16	80 - ∞ (Variable)	about 36
OBLR-20A	20	350nm - 7μm	10.0	0.35	φ0.5	7	80 - ∞ (Variable)	about 36
OBLR-30A	30	350nm - 7μm	6.7	0.41	φ0.34	5	80 - ∞ (Variable)	about 36
OBLR-40A	40	350nm - 7μm	5.0	0.49	φ0.25	3.5	80 - ∞ (Variable)	about 36

Compatible Optic Mounts

LHO-20.32