

These reflective Microscope objective lenses are optimized for chromatic aberration over a bandwidth of 350nm to 7um. 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.

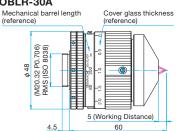
OBLR

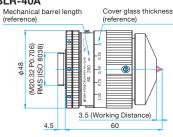
- An adapter for the objective lens turret is available (OBRLR-AMT). Check with our International Sales Division or your microscope manufacturer for compatibility and the use of reflective microscope objective lenses.
- Specific holder for microscope objective lenses (LHO-20.32) is available. WEB Reference Catalog Code W4024

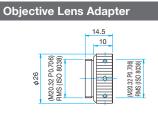
Attention

- 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 if expected to be around 45%. (The center mirror shielding 36% and the aluminum reflectivity 90%)

Outline Drawing OBLR-10A OBLR-20A Mechanical bar (reference) Cover glass thickness (reference) Cover glass thickness Mechanical barrel length (reference) 706) 706) (M20.32 P0.7 RMS (ISO 80 .32 PO.7 φ48 φ48 S (M20.3 Part Number 7 (Working Distanc 16 (Working Distance 4.5 75 4.5 60 **OBLR-30A** OBLR-40A







t Number OBLR-AMT

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Objectives

Expanders Others

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	$80 - \infty$ (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