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Reflective Microscope Objectives Lenses | RMOL RoHS

These reflective Microscope objective lenses offer an optimized 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 type of microscope tube with focal length range from 80mm to infinite
- The reflection mirror is strengthened with aluminium coating and MgF2 protective layer.
- The M20.32 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 the 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 (OBRLR-AMT). Check with our International Sales Division or your microscope manufacturer for compatibility and the use of reflective microscope objective lenses.
- Specifc holder for microscope objective lenses (OLH-20.32) is available. <u>Reference</u> D033

Attention

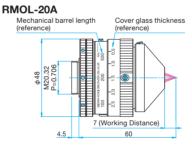
- These objectives are not to be used for laser processing due to light axis shielding of the reflective mirror.
- There are microscopes that cannot be used with a turret.
 The cover glass is not mobile. Use the adjustable correction collar to
- adjust the focal length and the cover glass thickness. ► 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

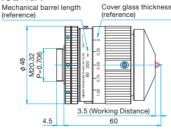
RMOL-30A Mechanical barrel length (reference) Cover glass thickness (reference)

5 (Working Distance)

60



RMOL-40A



Objective Lens Adapter

Part Number RMOL-AMT

Machine Vision Manual

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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 [%]
RMOL-10A	10	350nm – 7µm	19.9	0.2	φ1.0	16	80 – ∞ (Variable)	about 36
RMOL-20A	20	350nm – 7µm	10.0	0.35	φ0.5	7	80 – ∞ (Variable)	about 36
RMOL-30A	30	350nm – 7µm	6.7	0.41	φ0.34	5	80 – ∞ (Variable)	about 36
RMOL-40A	40	350nm – 7µm	5.0	0.49	φ0.25	3.5	$80 - \infty$ (Variable)	about 36

Compatible Optic Mounts

4.5