

ZUIKO MACRO 38^{mm} F3.5/OBJECTIVE LENS MOUNT PM-MTob



Characteristics

- This high-resolution macro lens is designed for 1.8X~6X magnifications (object sizes 20 × 13mm~6 × 4mm).

Applications

- Macrophotography

Notes • Related Units

- This lens must be used in conjunction with the Auto Bellows (p.512) and Objective Lens Mount PM-MTob.
- Lens hood is not necessary.

Specifications

Angle of view	Optical construction Element-Group	Diaphragm	F/stop range	Min. focus (ft.)	Min. photographic range (in.)	Focusing	Weight (oz.)	Length (in.)	Max. diameter (in.)	Hood	Filter
9° at highest mag.	5-4	Manual	3.5-16		max. 20 × 13mm min. 6 × 4mm	W/ Auto Bellows & PM-MT ob	90g (3.2)	28mm (1.1)	43mm (1.7)	Not necessary	32mm Slide-on

OLYMPUS



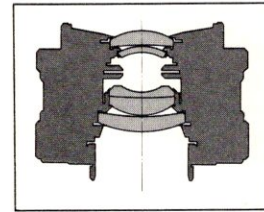
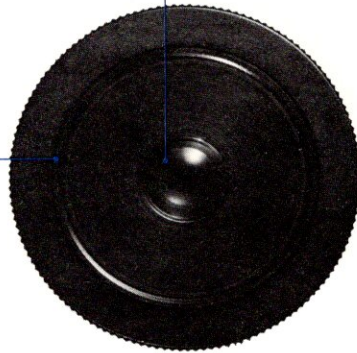
ZUIKO MACRO 38^{mm} F3.5/OBJECTIVE LENS MOUNT PM-MTob

● **Zuiko Lens**

4 groups 5 elements
Angle of view: 9° at high magnification

● **Front Mount Ring**

Filter size: 32mm ϕ , slide-on
Hood: not necessary



● **Preset Aperture Ring**

The ring stops with a click at each F stop.

● **Aperture Ring**

Manual: stopped-down metering is required.



● **Screw Mount**

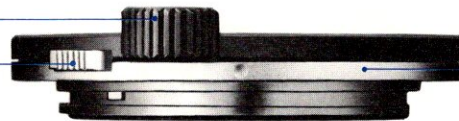
Connects to Objective Lens Mount PM-MTob.

● **Non-slip Knob**

Apply finger to this knob when attaching/detaching the PM-MTob to and from the Auto Bellows.

● **Release Button**

To mount the PM-MTob to the Auto Bellows, press this button and turn 70° clockwise.



Actual size

● **Objective Lens Mount PM-MTob**

This mounting adapter is necessary to connect the Macro 20mm or Macro 38 mm lens to the Auto Bellows.

Reference Table for Auto Bellows

Image magnification	Bellows length	Lens extension distance	Distance from film to subject	Distance from lens to subject	Subject area covered	Exposure factor
1.8	3.6 cm	68 mm	16.2 cm	4.6 cm	13.2 × 19.8 mm	7.9 ×
2.0	4.2	75	16.7	4.4	12.0 × 18.0	9.0 ×
2.2	5.0	83	17.3	4.3	10.9 × 16.4	10.2 ×
2.4	5.8	90	17.9	4.1	10.0 × 15.0	11.6 ×
2.6	6.5	98	18.5	4.0	9.2 × 13.8	13.0 ×
2.8	7.3	106	19.2	3.9	8.6 × 12.9	14.4 ×
3.0	8.0	113	19.9	3.8	8.0 × 12.0	16.0 ×

Image magnification	Bellows length	Lens extension distance	Distance from film to subject	Distance from lens to subject	Subject area covered	Exposure factor
3.5	9.9 cm	132 mm	21.6 cm	3.6 cm	6.9 × 10.3 mm	20.3 ×
4.0	11.8	151	23.3	3.5	6.0 × 9.0	25.0 ×
4.5	13.7	170	25.1	3.4	5.3 × 8.0	30.3 ×
5.0	15.6	189	27.0	3.3	4.8 × 7.2	36.0 ×
5.5	17.5	208	28.8	3.2	4.4 × 6.5	42.3 ×
6.0	19.4	227	30.6	3.2	4.0 × 6.0	49.0 ×
6.1	19.8	231	31.0	3.2	3.9 × 5.9	50.4 ×