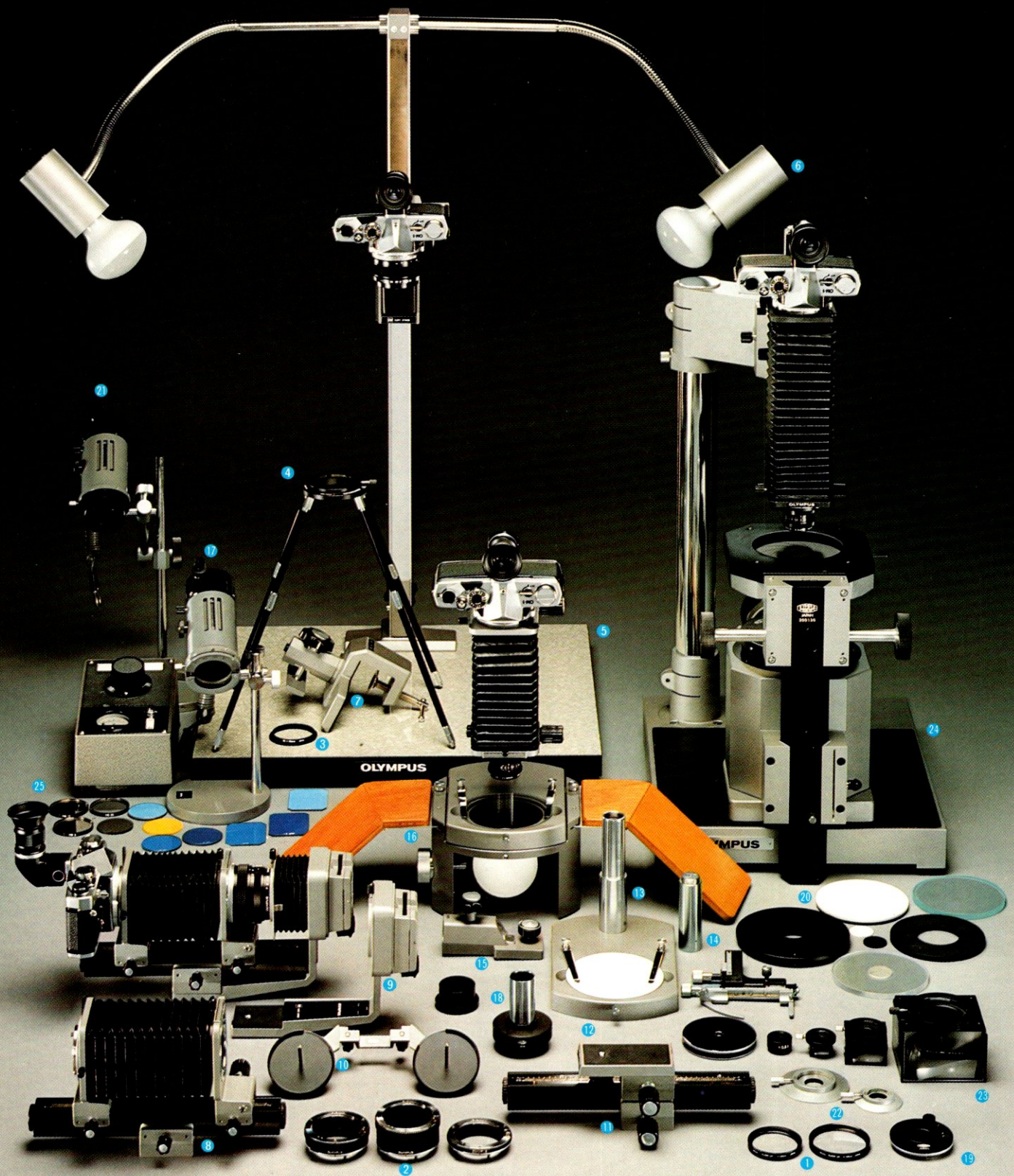


MACROPHOTO GROUP



- ① Close-up Lenses 49mm f=40cm/55mm f=40cm ② Extension Tubes 7/14/25 ③ Adapter Ring 55→49mm ④ Handy Copy Stand ⑤ Copy Stand
- ⑥ Lighting Set ⑦ Table Clamp ⑧ Auto Bellows ⑨ Slide Copier ⑩ Roll Film Stage ⑪ Focusing Rail ⑫ Focusing Stage
- ⑬ Macrophoto Stand VST-1 ⑭ Macrophoto Stand Extension Bar VST-E ⑮ Macrophoto Stand B Adapter ⑯ Trans-Illuminator Base X-DE
- ⑰ Trans-Illuminator LSD ⑱ Adapter PM-EA ⑲ Objective Lens Mount PM-MTob ⑳ Stage Glasses/Stage Plates ㉑ Epi-Illuminator PM-LSD2
- ㉒ Lieberkuhn Reflectors PM-LM 20/PM-LM 38 ㉓ Incident Illuminator Mirror Housings PM-EL 80/PM-EL 38/PM-EL 20
- ㉔ Macrophotographic Equipment PMT-35 ㉕ Filters

CLOSE-UP LENSES 49^{mm} f=40cm/ 55^{mm} f=40cm



Summary

- They are auxiliary lenses to screw into standard OM System lenses for close-up work.

Main Characteristics

- With the close-up lenses, the minimum focusing distance of the standard lenses can be reduced from 45cm to 19cm, at which distance the subject area will be 12 × 8cm.
- These close-up lenses permit the automatic diaphragm operation of the standard lenses to facilitate a bright image observation through the fully-opened aperture and exposure adjustment.

Notes • Related Units

- The respective diameters of these filter mounting threads are 49mm and 55mm. Make a choice between them that accepts a filter in use.
- Since the depth of field is extremely small in close-up photography, the lens aperture should be stopped down between F8 and F11 to obtain sharp image definition.
- Recommended to use a focusing stage, tripod and shutter release cable to eliminate any vibration that may affect a picture.

OLYMPUS

OM SYSTEM CLOSE-UP LENSES 49mm f=40cm/55mm f=40cm

Close-up Lens 49mm f=40cm



● Threaded Ring

The thread diameter is 49mm. A filter or one more close-up lens of the same diameter can be screwed.



● Lens Mounting Thread

OM lenses can be mounted on this side without blocking the automatic exposure control of the OM bodies.

Close-up Lens 55mm f=40cm



● Threaded Ring

The thread diameter is 55mm. A filter or one more close-up lens of the same diameter can be screwed.



● Lens Mounting Thread

Actual size

TABLE OF CLOSE-UP RANGES

Lens	Covering Area		mm					
	Magnification	Number of Close-up Lenses	240×360	120×180	80×120	60×90	48×72	40×60
			(inch) (9 5/8×14 1/4)	(4 3/8×7 1/2)	(3 1/8×4 3/8)	(2 3/8×3 3/8)	(1 7/8×2 3/8)	(1 1/4×2 1/4)
50mm F1.8	1		40.2 (15 7/8)	20.2 (7 7/8)	19.3 (7 5/8)			
	2			20.2 (7 7/8)	13.0 (5 1/8)			
50mm F1.4	1		40.2 (15 7/8)	20.2 (7 7/8)	19.3 (7 5/8)			
	2			20.2 (7 7/8)	13.0 (5 1/8)			
55mm F1.2	1		40.2 (15 7/8)	20.1 (7 7/8)	18.9 (7 7/16)			
	2			20.1 (7 7/8)	12.8 (5 1/8)			

Numbers printed at both ends of each arrow indicate distances in cm (inches) between lens and subject.
Halftone area indicates magnification ranges of standard lenses without close-up lens.

OLYMPUS

EXTENSION TUBES 7/14/25



Summary

- These tubes are used as adapters to mount OM System lenses on the OM bodies to take close-ups.

Main Characteristics

- The respective lengths of these tubes are 7mm, 14mm and 25mm, which make seven different lengths by single or combined uses.
- They can be mounted on the camera body by bayonet mounting as in case with the standard lenses.
- If all of these three tubes are used in conjunction with the 50mm F1.8, it is possible to achieve a life size magnification or $2.3 \times 3.4\text{cm}$ with a lens-to-subject distance 6.8cm.
- The 25mm extension tube can be used to extend the magnification range of the Zuiko Macro Lens 50mm to 1/2 and 1/1 (life size).
For life-size pictures, however, most recommended is the 1:1 Macro 80mm F4.

Notes • Related Units

- The depth of field is extremely small in close-up work. Therefore, not only correct focus but also a small aperture such as F8 or F11 are recommended.
- Even a smallest movement of the camera affects pictures especially when enlarged to great extent. To avoid this, make it a point to use a focusing stage, tripod and cable release whenever available.
- Exposure is adjusted by stopping down the lens aperture, but focusing is easier at the full aperture.

OLYMPUS

OM SYSTEM EXTENSION TUBES 7/14/25

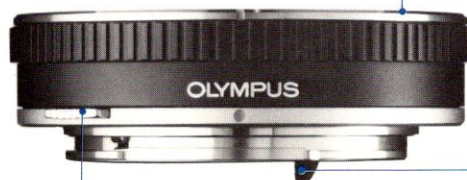
Extension Tube 7



● Lens Mounting Ring

Accepts the camera lens or extension tube.

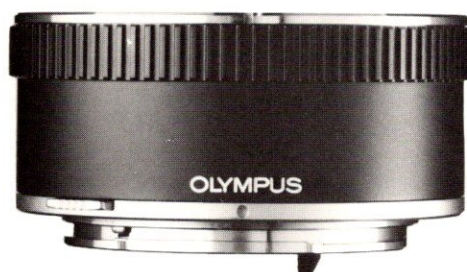
Extension Tube 14



● Meter Coupling

Connects to the exposure meter built in the DM body for stopping down measurement.

Extension Tube 25



● Release Button

To remove the tube from camera, press this button and rotate the tube counter-clockwise by 70° in the same manner as with the lens. To mount the tube do not apply pressure to the release button during the mounting procedure.

Actual size

TABLE OF CLOSE-UP RANGES

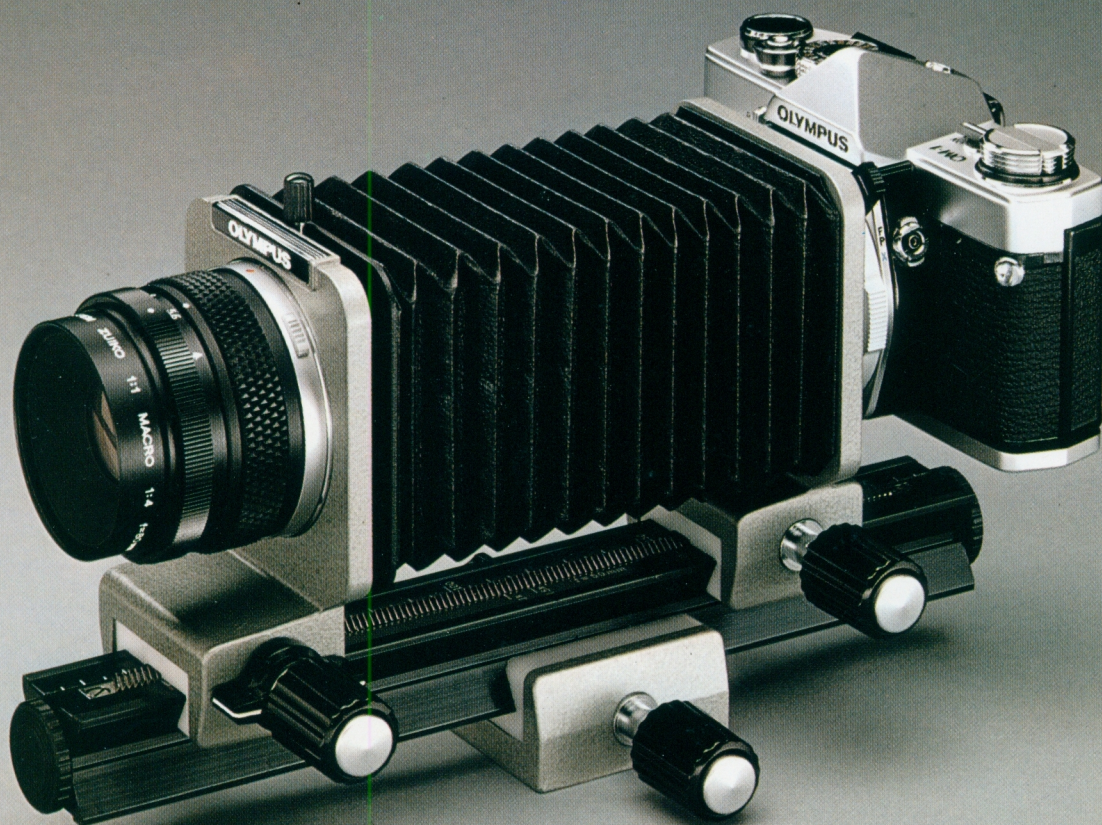
Lens	Covering Area Magnification Extension Tube	mm	120×180	60×90	40×60	30×45	24×36	20×30	17.1×25.7
		(inch)	(4 1/2 × 7 1/8)	(2 1/4 × 3 5/8)	(1 5/8 × 2 3/8)	(1 1/8 × 1 3/8)	(1 1/8 × 1 3/8)	(1 1/8 × 1 3/8)	(1 1/8 × 1 3/8)
Std. 50mm F1.8	7	39.1(1 5/8)	20.0(7/8)						
	14		20.5(8 1/8)	14.1(5 5/8)					
	7+14			14.3(5 5/8)	11.0(4 3/8)				
	25			12.4(4 7/8)	10.0(3 5/8)				
	7+25				10.1(3 5/8)	8.5(3 3/8)			
	14+25					8.6(3 3/8)	7.5(2 3/4)		
Std. 50mm F1.4	7	38.1(1 5/8)	19.1(7/8)						
	14		19.5(7 7/8)	13.1(5 1/8)					
	7+14			13.3(5 1/8)	10.1(3 5/8)				
	25			11.4(4 5/8)	9.0(3 5/8)				
	7+25				9.1(3 5/8)	7.5(2 3/8)			
	14+25					7.6(2 3/8)	6.5(2 1/2)		
Std. 50mm F1.2	7	43.8(1 7/8)	16.9(6 3/8)						
	14		21.9(8 5/8)	13.5(5 3/8)					
	7+14			14.6(5 3/8)	10.3(4 1/8)				
	25			12.4(4 7/8)	9.2(3 5/8)				
	7+25				9.7(3 7/8)	7.6(2 3/8)			
	14+25				7.9(3 1/8)	6.5(2 1/2)			
Macro 50mm F3.5	7+14+25					6.7(2 3/8)	5.6(2 1/4)		
	25			11.8(4 5/8)			6.5(2 1/2)		

Half-tone area indicates magnification ranges of standard lenses without close-up lens.

Numbers printed at both ends of each arrow indicate distances in cm (inches) between lens and subject.

OLYMPUS

AUTO BELLOWS



Summary

- The Auto Bellows is placed between the OM body and taking lens to adjust the distance between them for close-up and macrophotography.

Main Characteristics

- The aperture iris diaphragm built into the bellows can be stopped down to the pre-selected aperture by the use of the Double Cable Release simultaneously with the shutter release.
- A simple lever operation makes it possible for the photographer to view the subject prior to taking the picture through the aperture diaphragm fully opened or stopped down as desired without exposure.
- This unit incorporates a removable lens mount board which requires no adapter to reverse the lens.

Notes • Related Units

- In most cases accurate focus and lens apertures smaller than F8 are necessary for fine macrophotographs because of the extremely small depth of field.
- Use of a tripod or Macrophoto Stand VST-1 is recommended to steady the Auto Bellows for the slow shutter speeds that are often required in macrophotography.
- Move the preset lever to the vertical position to stop down the aperture for exposure reading.
- Focusing Screens recommended for the Auto Bellows are 1-4, 1-10, 1-11 and 1-12.

OLYMPUS

OM SYSTEM AUTO BELLOWS

● Clamping Screw

This screw clamps the lens mount board to the bellows.

● Lens Mount

Directly accepts OM System lenses except the Macro lenses 38mm F3.5 or 20mm F3.5 which must be mounted via the Objective Lens Mount PM-MTob.

● Lens Mount Board

To reverse the lens mounted on the Auto Bellows:
By loosening the bellows clamping screw and front rail screw, remove the lens and the lens mount board together from the rail. Remount the lens on the rail so that the lens faces the bellows.

● Focusing Rail

This is a sturdy dovetail type rail to assure steady, smooth movement of the OM body for accurate focus.

● Front Rail Screw

As screwed into the front of the rail, it prevents the lens mount board from running off the rail. Removable to reverse the lens mount board.

● Scale

The scale engraved on the rail is graduated in increments of 5mm over a total range of 180mm.

● Magnification Scale

The magnification indexes are engraved on the rail surface for use with the slide copier. The front of the lens mount board should be aligned to the orange-white line, and the camera body mount can be adjusted according to the lens position. 1X and 1.5X magnifications are graduated for the 1:1 Macro 80mm and Macro 50mm Lenses.

● Lens Shift Knob

The distance between the lens and camera body can be adjusted by rotating this knob after loosening the rail clamping knob.

● Preset Lever

By this lever operation, the aperture diaphragm can be stopped down or opened fully for convenience of focusing and exposure adjustment.

● Focusing Knob

After completing the magnification adjustment, bring the subject into focus by means of this knob.

● Connecting Plate

This plate connects the bellows to the lens mount board. When the lens is reversed, it connects the bellows to the lens hood.

● Bellows

● Camera Shift Knob

By rotating this knob, adjust the length of the bellows. Prior to rotating the camera shift knob, the camera clamping knob (located on the opposite side to the shift knob) must be loosened.

● Focusing Tripod Block

Provided with two tripod sockets at the lower surface of the block. Screw the tripod into one of the sockets as required, taking into consideration the weight with camera and lens, bellows extension required, focal length of lens, etc.

● Camera Body Mount

Loosen the camera mount clamping screw on the bellows and remove the camera body mount. Attach the camera body mount to the OM body in the same manner as you would attach a standard lens.

● Camera Body Release Lever

Functions in the same way as the lens release button of any OM System lens.

● Camera Body Mount Board

● Camera Mount Clamping Screw

● Shutter Release Socket

When using the standard lenses or Macro 50mm F3.5 in conjunction with the Auto Bellows, automatic stop-down exposure can be obtained by using the double cable release. To ensure proper stop-down exposure, the double cable release must be correctly adjusted to stop down the aperture diaphragm immediately before exposure.

● Camera Clamping Knob

After the subject is sharply focused at the magnification desired, clamp the lens and camera body on the rail with their respective shift knobs, then tighten the camera clamping knob.

● Rail Clamping Knob

● Back Rail Screw

Prevents the camera body mount board from running off the rail.

● SPECIFICATIONS

Camera: OM Bodies.

Lens mount: OM-Mount bayonet (rotation angle 70°)

Lenses: 1:1 Macro 80mm F4, Macro 38mm F3.5, Macro 20mm F3.5 (Macro 50mm F3.5, Standard 50mm F1.8, 50mm F1.4, 55mm F1.2)

Bellows extension range: 36-198mm (1 1/8" - 7 7/8") (lens in normal position)

56-218mm (2 1/8" - 8 5/8") (lens in reversed position)

Graduated focusing rail is 180mm (7 1/8") long.

Focusing: Adjustable by focusing knob on the focusing stage with locking device.

Automatic stop-down exposure: Diaphragm linked with shutter by means of the double cable release.

Preset lever: Stop down of diaphragm to preset aperture for previewing depth of field.

Lens reverse mounting: Lens and camera mount boards are detachable, for convenient reversal of the lens.

Tripod mounting socket: Two sockets provided for mounting on a tripod or on the Macrophoto Stand B Adapter.

Focusing stage: After removal of the bellows, the focusing rail is mountable on the focusing stage.

Dimensions: 74 × 132 × 240mm (2 7/8 × 5 1/8 × 9 3/4")

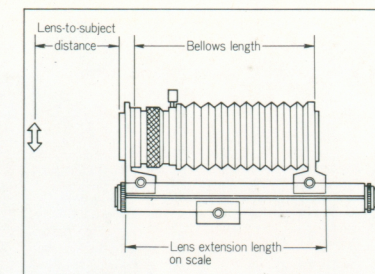
Weight: 930g (32 3/4 oz.)

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The scale engraved on the rail surface indicates the lens extension length. The left side picture shows the normal lens position and the right side one shows the lens reversed.

Diagram illustrating the components and dimensions of a probe assembly:

- Lens-to-subject distance:** The distance from the lens to the subject.
- Bellows length:** The length of the bellows section.
- Lens extension length on scale:** The length of the lens extension on the scale.



		Lens	Lens Position	Subject Area Covered (mm) Magnification	180 × 120	120 × 80	90 × 60	72 × 48	60 × 40	51.4 × 34.3	45 × 30	40 × 26.7	36 × 24	30 × 20	25.7 × 17.1	22.5 × 15	20 × 13.3	18 × 12	16.4 × 10.9	15 × 10	13.8 × 9.2	12.9 × 8.6	12 × 8	10.3 × 6.9	9 × 6	8 × 5.3	7.2 × 4.8	6.5 × 4.4	6 × 4	5.5 × 3.7	5.1 × 3.4	4.8 × 3.2	4.5 × 3.0	4 × 2.7	3.6 × 2.4	3.3 × 2.2	3.0 × 2.0								
					0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	9.0	10.0	11.0	12.0								
BASIC METHODS	ZUIKO 1:1 MACRO 80mm F4	Normal	Scale (mm)	68	71	79	87	95	103	111	119	127	143	159	175	191	207	223	231																										
			Distance from lens to subject (cm)	34.7	31.0	24.3	20.3	17.6	15.7	14.3	13.2	12.3	11.0	10.0	9.3	8.8	8.3	8.0	7.8																										
	ZUIKO MACRO 38mm F3.5	Normal	Scale (mm)																		68	75	83	90	98	106	113	132	151	170	189	208	227	231											
			Distance from lens to subject (cm)																		4.6	4.4	4.3	4.1	4.0	3.9	3.8	3.6	3.5	3.4	3.3	3.2	3.2												
	ZUIKO MACRO 20mm F3.5	Normal	Scale (mm)																								68	73	83	93	103	113	123	133	143	163	183	203	223	231					
			Distance from lens to subject (cm)																								2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8						
AUXILIARY METHODS	ZUIKO MACRO 50mm F3.5	Normal	Scale (mm)									68	69	74	79	84																					(Set the focusing ring at ∞.)								
			Distance from lens to subject (cm)									8.8	8.6	7.7	7.0	6.4																													
		Reversed	Scale (mm)													102	112	123	134	144	155	166	177	187	198	209	230											(Set the focusing ring at closest distance.)							
			Distance from lens to subject (cm)													6.2	5.3	4.7	4.2	3.8	3.5	3.3	3.1	2.9	2.8	2.6	2.4																		
	ZUIKO 50mm F1.8	Normal	Scale (mm)									68	69	74	79	85																					} (Set the focusing ring at ∞.)								
			Distance from lens to subject (cm)									9.4	9.2	8.3	7.6	7.0																													
		Reversed	Scale (mm)													78	89	99	109	120	130	140	151	161	171	197	223	231																	
			Distance from lens to subject (cm)													7.8	7.2	6.7	6.3	6.1	5.8	5.6	5.5	5.3	5.2	4.9	4.8	4.7																	
	ZUIKO 50mm F1.4	Normal	Scale (mm)									68	69	74	79	85																					} (Set the focusing ring at ∞.)								
			Distance from lens to subject (cm)									8.4	8.2	7.3	6.6	6.0																													
		Reversed	Scale (mm)													73	74	84	95	105	115	126	136	146	157	167	193	219	231																
			Distance from lens to subject (cm)													7.8	7.8	7.2	6.7	6.3	6.0	5.8	5.6	5.4	5.3	5.2	4.9	4.8	4.7																
ZUIKO 55mm F1.2	Normal	Scale (mm)									68	72	78	83	89																					} (Use the adapter ring 55→49mm.)									
		Distance from lens to subject (cm)									8.9	8.0	7.0	6.2	5.6																														
	Reversed	Scale (mm)													89	93	104	115	126	137	149	160	171	182	211	231																			
		Distance from lens to subject (cm)													7.7	7.5	7.0	6.6	6.3	6.0	5.8	5.6	5.5	5.3	5.1	4.9																			

AUTO EXTENSION TUBES 7/14/25



Summary

- These tubes are used as adapters to mount OM System lenses on the OM bodies to take close-ups.
- Each tube incorporates a coupling lever to automatically stop down the lens diaphragm to the preset aperture at the exposure.

Main Characteristics

- The respective lengths of these tubes are 7mm, 14mm and 25mm, which make seven different lengths by single or combined uses.
- They can be mounted on the camera body by bayonet mounting as in case with the standard lenses.
- If all of these three tubes are used in conjunction with the 50mm F1.8, it is possible to achieve a life size magnification or $2.3 \times 3.4\text{cm}$ with a lens-to-subject distance 6.8cm.
- The 25mm extension tube can be used to extend the magnification range of the Zuiko Macro Lens 50mm to $1/2$ and $1/1$ (life size).
For life-size pictures, however, most recommended is the 1:1 Macro 80mm F4.

Notes • Related Units

- The depth of field is extremely small in close-up work. Therefore, not only correct focus but also a small aperture such as F8 or F11 are recommended.
- Even a smallest movement of the camera affects pictures especially when enlarged to great extent. To avoid this, make it a point to use a focusing stage, tripod and cable release whenever available.

Auto Extension Tube 7
Stock NO. 104-013
Auto Extension Tube 14
Stock NO. 104-014
Auto Extension Tube 25
Stock NO. 104-015

OLYMPUS

OM SYSTEM AUTO EXTENSION TUBES 7/14/25

Auto Extension Tube 7

Auto Extension Tube 14

Auto Extension Tube 25



● **Lens Mounting Ring**
Accepts the camera lens or extension tube.

● **Meter Coupling**
Connects to the exposure meter built in the OM body for stopping down measurement.

● **Coupling Lever**
Links up with the automatic lever of the lens.

● **Release Button**
To remove the tube from camera, press this button and rotate the tube counter-clockwise by 70° in the same manner as with the lens. To mount the tube do not apply pressure to the release button during the mounting procedure.

Actual size

TABLE OF CLOSE-UP RANGES

Lens	Covering Area Magnification	mm 360×240 180×120 120×80 90×60 72×48 60×40 51.4×34.3 45×30 40×26.4 36×24 32.7×21.8 30×20 27.7×18.5 25.7×17.1 24×16																
		(inch) 14.2×9.4 7.1×4.7 4.7×3.1 3.5×2.4 2.8×1.9 2.4×1.6 2.0×1.4 1.8×1.2 1.6×1.0 1.4×0.9 1.3×0.9 1.2×0.8 1.1×0.7 1.0×0.7 0.9×0.6																
	Tubes	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5		
Std. 50mm F1.8	7	39.1(1.5)	20.0(0.8)															
	14		20.5(0.8)	14.1(0.6)														
	7+14			14.3(0.6)	11.0(0.4)													
	25			12.4(0.5)	10.0(0.4)													
	7+25				10.1(0.4)	8.5(0.3)												
	14+25					8.6(0.3)	7.5(0.3)											
	7+14+25						7.6(0.3)	6.8(0.3)										
Std. 50mm F1.4	7	34.1(1.3)	19.1(0.8)															
	14		19.5(0.8)	13.1(0.5)														
	7+14			13.3(0.5)	10.1(0.4)													
	25			11.4(0.4)	9.0(0.4)													
	7+25				9.1(0.4)	7.5(0.3)												
	14+25					7.6(0.3)	6.5(0.3)											
	7+14+25						6.5(0.3)	5.8(0.2)										
Std. 55mm F1.2	7	43.8(1.7)	16.9(0.7)															
	14		21.9(0.9)	13.5(0.5)														
	7+14			14.6(0.6)	10.3(0.4)													
	25			12.4(0.5)	9.2(0.4)													
	7+25				9.7(0.4)	7.6(0.3)												
	14+25					7.9(0.3)	6.5(0.3)											
	7+14+25						6.7(0.3)	5.6(0.2)										
Macro 50mm F3.5	25				8.8(0.3)	6.4(0.3)												

Numbers printed at both ends of each bar indicate distances in mm (inches) between lens and subject.

Light blue area indicates magnification ranges of standard lenses without extension tubes.

You can obtain optimum resolution at 0.5× magnification when the Macro 50mm F3.5 lens is used with the auto extension tube 25.

OLYMPUS

TELESCOPIC AUTO TUBE 65-116



Summary

- This unique Telescopic Auto Tube functions as a portable bellows for outstanding versatility and convenience in outdoor macrophotography, medical close-up photography, etc.

Main Characteristics

- It telescopes in a direct outward motion, minimizing the risk of frightening animal or insect subjects.
- It allows automatic aperturing (with the Zuiko MC Macro 135mm F4.5 and 1:1 Macro 80mm F4, 50mm F3.5 and other 50mm~200mm OM system lenses).
- Magnifications can be continuously changed between infinity and 0.43X for the Auto Macro 135mm. With the Telescopic Auto Tube, this lens can also be used for telephotography at infinity as an ordinary 135mm telephoto lens.
- The 80mm F4 macro lens has a magnification range with the Auto Tube from 0.5X to 1.2x which can be further extended to 1X-2X in conjunction with the close-up lens 80mm macro.

Notes • Related Units

- In close-up photography the depth of field is so small that pinpoint focusing and lens apertures of F8 or smaller are needed for good results.
- When a tripod is used, make sure to connect the tripod to the Auto Tube.
- The Auto Tube can be used either for vertical or horizontal formats.
- In conjunction with a T10 Ring Flash 1, the Auto Tube permits flash photography of extremely close-up subjects.
- This unit can be used with any OM lenses between 50mm and 200mm.
- This unit should be used after locking the Auto Tube extension.
- Focusing screens 1-4, 1-10, 1-11 and 1-12 are recommended for use with the Auto Tube.
- Do not use two Auto Tubes or more simultaneously or an Auto Tube in conjunction with extension rings.

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Stock number (s) shown on next page

● Automatic Diaphragm Lever

This lever closes down the lens diaphragm to the preselected aperture at the moment the shutter is released.

● Tube Release Button

Press this button and turn the Auto Tube 70° clockwise to detach from the camera. During mounting (after aligning red dots), the button should not be pressed.

● Extension Ring (B)

● Extension Ring (A)

● Magnification Indications

Magnification indications are engraved on the extension rings A and B for 135mm and 80mm, macro lenses. In addition a scale from 65mm to 116mm in increments of 5mm is graduated as a guideline for use of other lenses.



Tubes are compressed down to 65mm.

● Meter Coupling Lever

This lever transmits selected apertures to the exposure meter.



Tubes are extended all the way up to 116mm.

● Body Mount Ring

Actual size

● Main Specifications

Camera: OM bodies.

Lens mount: OM Mount bayonet type (rotation angle 70°).

Lenses: OM System lenses between 50mm and 200mm.

Extension range: 65mm to 116mm (2.6" to 4.6").

Focusing: Directly outward telescoping motion with lock at any position (locking rotation angle 15°).

Automatic aperture control: Bayonet mount for interlocking with lens diaphragm and meter coupling lever for automatic stop down control and exposure metering.

Tripod mount: Accepts any tripod, allowing photography at any angle.

Magnification indication: For automatic aperturing with Zuiko MC Auto Macro 135mm and MC Auto-1:1 Macro 80mm lenses; with scale from 65mm to 115mm in 5mm increments.

Photographic ranges: ∞ to 0.43×... Zuiko MC Macro 135mm F4.5

0.5× to 1.2×... Zuiko MC 1:1 Macro 80mm F4

1× to 2×... Zuiko MC 1:1 Macro 80mm F4 + Close-up lens 80mm Macro.

Dimensions and weight: 70mm diam. × 65mm (2.8" diam. × 2.6"), 325g (11.5 oz.)

Tripod mount: 100g (3.5 oz.)

OLYMPUS



TELESCOPIC AUTO TUBE 65-116

● Slide Ring

Rotate the slide ring in the direction of the arrow to lock, and reverse to unlock and adjust the extension until the desired magnification is obtained. The extension ring (A) should be extended after the ring (B) is fully extended only when necessary.

● Lock Index

● Lens Mount

Accepts any OM lenses between 50mm and 200mm.

● Tripod Mount

Rotatable through 360° so that the camera can be set at any angle. This mount can be removed from the Auto Tube, for more convenient hand-held photography.

● Clamping Screw

Loosen this screw to turn the Auto Tube for vertical or horizontal position.

● Tripod Socket



OBJECT AREA (mm)	240×360	120×180	80×120	48×72		24×36	12×18	8×12	4.8×7.2	3×4.5	2×3	
MAGNIFICATION	0.1X	0.2X	0.3X	0.5X		1X	2X	3X	5X	8X	12X	
PROFESSIONAL METHODS	∞ X ZUIKO MC MACRO 50mm F3.5											
	TELESCOPIC AUTO TUBE 65-116+ZUIKO MC MACRO 135mm F4.5			TELESCOPIC AUTO TUBE 65-116+ZUIKO MC1:1 MACRO 80mm F4		TELESCOPIC AUTO TUBE 65-116+ZUIKO MC1:1 MACRO 80mm F4+CLOSE-UP LENS80mm MACRO		TELESCOPIC AUTO TUBE 65-116+ZUIKO MC MACRO 38mmF3.5	TELESCOPIC AUTO TUBE 65-116+ZUIKO MC MACRO 20mmF3.5			
	0.43X			1.2X				4X	5.8X	8.3X		
	0.48X AUTO BELLOWS+ZUIKO MC MACRO 135mm F4.5			1.8X				2.5X	6.1X			
	0.09X			2.2X				4.3X			12.4X	
								MACROPHOTOGRAPHIC EQUIPMENT PMT-35				
SUBSTITUTE METHODS	STANDARD LENS AUTO EXTENSION TUBES 7			14		25	7+25	14+25	7+14+25	1.3X	TELESCOPIC AUTO TUBE 65-116	STANDARD LENS
	0.16X			0.3X		0.45X	0.65X	0.8X	0.95X	1.1X	2.5X	
	0.13X STANDARD LENS+CLOSE-UP LENS			0.63X AUTO EXTENSION TUBES 7		14	25	7+14+25	1.5	1.8X	2.8X	TELESCOPIC AUTO TUBE 65-116 + ZUIKO MC MACRO 50mmF3.5
				0.33X ZUIKO MC 200mm F4		0.67X ZUIKO 100mm F2.8	1.3X					
								1.2X				
										4.46X		
The automatic aperture diaphragms built in these lenses should be stopped down as much as practicable in case of the substitute methods.												