Features

• The ED90-250mm f2.8 is a lens with high imaging capability, designed exclusively for use with Olympus FOUR THIRDS single-lens-reflex digital cameras.
• Dustproof and drip-proof construction.
• Telephoto zoom lens equivalent to a 180–500 mm lens on a 35 mm film camera.
• High-image-quality, 12-group, 17-element F2.8 lens system that includes three ED elements (Extra-low Dispersion glass lenses).
• Can be used in combination with the optional EC-14 teleconverter.
• Can be used in combination with the optional EX-25 extension tube under the following conditions:

<table>
<thead>
<tr>
<th>Focal Distance</th>
<th>Shooting Range</th>
<th>Magnification</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 mm</td>
<td>47.7 cm – 53.5 cm (1.59’ – 1.78’)</td>
<td>0.33x – 0.32x (0.56x – 0.64x)</td>
</tr>
<tr>
<td>150 mm</td>
<td>83.8 cm – 103.7 cm (2.79’ – 3.41’)</td>
<td>0.17x – 0.14x (0.34x – 0.48x)</td>
</tr>
<tr>
<td>250 mm</td>
<td>107.1 cm – 264.3 cm (3.57’ – 8.68’)</td>
<td>0.10x – 0.21x (0.20x – 0.42x)</td>
</tr>
</tbody>
</table>

This lens cannot be used in combination with the Olympus Macro Flash System.

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Using the Protection Filter

- To protect the lens, attach the protection filter.
- Remove the protection filter before attaching another filter.

Attaching the Lens Case Strap

Pull the end of the strap at least 5 cm away from the buckle.

Attaching the Lens Strap

Pull the end of the strap at least 5 cm away from the buckle.

Attaching Lens Hood LH-120B

<During use>

<During storage>

How to Turn the Camera
Focus Limit Switch

This switch limits the autofocus range to speed up focusing in each range. Select the optimum mode according to the shooting distance.

- Close-up shooting: Autofocus is performed between 8 meters (26.6 ft) and 2.5 meters (8.3 ft).
- Normal shooting: Autofocus is performed from \( \infty \) to 2.5 meters (8.3 ft).
- Distant shooting: Autofocus is performed from \( \infty \) to 8 meters (26.6 ft).

Focus Stop Buttons

- By holding down one of the focus stop buttons, you can deactivate autofocus operation and fix focus at the point where the button was pressed.
- Four buttons are provided. All have the same effect.

Shooting Cautions

- Be sure to attach the hood when shooting against the light.
- When two or more filters are used or a thick filter is used, part of the picture may be cut off or obscured.

Attaching Lens Cap LC-140

Precautions: Be Sure to Read the Following

Warnings: Safety Precautions

- Do not view the sun through the lens.
- Do not leave the lens without the cap. If solar light is converged through the lens, a fire may result.
- Do not point the camera lens at the sun. Sunlight will converge in the lens and focus inside the camera, possibly causing a malfunction or fire.

Handling Precautions

- Working temperature range
- Abrupt temperature changes
- Do not put the lens with its contacts facing down.
- Too much pressure
- Do not touch the lens.
- Submergence
- Do not touch the contacts.
- Do not drop
- Organic solvents
- Excessive moisture
- Magnetism

Storage Precautions

- Cap the lens when it is not used.
- Moth repellant
- Lens cleaning
Main Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mount</td>
<td>Four Thirds mount</td>
</tr>
<tr>
<td>Focal distance</td>
<td>90-250 mm</td>
</tr>
<tr>
<td>Max. aperture</td>
<td>f/2.8</td>
</tr>
<tr>
<td>Image angle</td>
<td>14°-5.0°</td>
</tr>
<tr>
<td>Lens configuration</td>
<td>17 elements in 12 groups</td>
</tr>
<tr>
<td></td>
<td>Multi-layer coating (partial single-layer coating)</td>
</tr>
<tr>
<td>Iris control</td>
<td>f/2.8 to f/22</td>
</tr>
<tr>
<td>Shooting range</td>
<td>2.5 m (8.3 ft) to = (infinity)</td>
</tr>
<tr>
<td>Focus adjustment</td>
<td>AF/MF switching</td>
</tr>
<tr>
<td>Weight</td>
<td>3250 g (114.6 oz)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Max. dia. ø123 mm (4.8 in) x Overall length 276 mm (10.9 in)</td>
</tr>
<tr>
<td>Lens hood mount</td>
<td>Covering</td>
</tr>
<tr>
<td>Filter mount thread diameter</td>
<td>105 mm (4.2 in)</td>
</tr>
</tbody>
</table>

* Design and specifications are subject to change without any notice or obligation on the part of the manufacturer.

![Lens configuration diagram](image-url)