

Vivitar

2X Matched Multiplier™

for Vivitar 75-205mm f3.8
Macro-Focusing Zoom Lens



Owner's Manual

About Your New Multiplier

Your new Vivitar 2X Matched Multiplier™ is a precision optical component, computer-designed specifically for your Vivitar 75–205mm f3.8 Macro-Focusing Zoom Lens. It effectively doubles the power of your lens while maintaining high resolution and contrast. The Matched Multiplier provides convenience, economy, and expanded capabilities without compromising optical quality.

Mounting

It's important that you mount your Matched Multiplier in the following sequence to ensure proper meter coupling with your camera: first, mount the Matched Multiplier to the camera body; then, attach the lens to the Matched Multiplier.

Your New Capabilities

The 75–205mm lens with 2X Matched Multiplier will give you a new range of zoom focal lengths: 150–410 mm. In addition, the lens macro-focusing ability doubles, giving you a new maximum reproduction ratio of 1:2 (½ life-size). The focusing range remains the same, so you can still focus as close as 1.2 m (3.9 ft.) from the film plane. Automatic meter and diaphragm coupling is fully maintained.

Depth of Field

Although the addition of the Matched Multiplier will not affect the focusing range of the lens, it will alter depth of field, reducing it as the effective focal length becomes longer. At the maximum zoom setting of the lens (205mm), the addition of the 2X Matched Multiplier results in the same depth of field as a 410mm telephoto lens.

Exposure Determination

Cameras with Through-the-Lens Metering

The Vivitar 2X Matched Multiplier will reduce the amount of light transmitted through the lens by two f-stops. With automatic TTL metering, no manual exposure compensation needs to be done. The camera meter will read the exact amount of light being transmitted.

Manual Metering and Flash Exposures

The Vivitar 2X Matched Multiplier will reduce the amount of light transmitted through the lens by two f-stops. Exposure compensation is required when using a hand-held light meter. You can either slow the shutter speed by two settings or open the lens two additional f-stops or slow one setting and open one f-stop. For example, after determining the required exposure to be 1/250 second at f16, you can compensate in any one of the following ways:

- 1** Set the shutter speed at 1/60 second, if depth of field is most important.
- 2** Set the lens to f8, if a fast shutter speed is most important.
- 3** Set the shutter at 1/125 and the lens at f11, if both are equally important.

When using flash, set the shutter speed for the proper synchronization time for flash (see your camera instruction manual), determine the necessary exposure and open the lens two additional f-stops.

Specifications*

Optical Construction: 4 elements, 3 groups (Multiplier only)

Angle of Acceptance: 16°–6°

Aperture Range: 17.6 to 144

Maximum Reproduction Ratio: 1:2

Minimum Focusing Distance from Film Plane: 1.2 m (3.9 ft)

Lens Coating: Multicoating

Maximum Barrel Diameter: 61 mm (2.4 in)

Length at Infinity: 202 mm (8 in)

Weight: 911 g (32 oz) (lens with Multiplier)
186 g (6.6 oz) (Multiplier only)

*Specifications are for 2X Matched Multiplier on the 75–205mm MR lens, except where indicated.

Specifications subject to change without notice. Weights and lengths may vary slightly, depending on lens mount.

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