



**ONE-TOUCH AUTOMATIC
MULTICOATED
SUPER TELEPHOTO LENS
500mm F8.0**

- ① Name Ring
- ② Focusing Ring
- ③ Diaphragm Scale
- ④ Index for distance and Diaphragm Scale
- ⑤ Diaphragm Ring

SPECIFICATIONS

Aperture Range: f8.0-32	Angle of view: 5°
Min/Max. Focus Dist: 10M to Infinity	Elements: 4 groups 4 elements
	Filter Size: 67mm screw-in

**500mm f8.0
Telephoto Lens
1000mm With 2x Converter**

Instruction Booklet

Your 500mm Preset Lens is fully automatic and incorporates not only computer optical design but also the latest optical multi-coating techniques. The process of multi-coating assures virtually flare free photographs even under adverse lighting conditions resulting in crisp, high contrast pictures. Preset Lenses are designed to retain a full range of exposure, automation and metering capabilities of the cameras on which they are mounted.

MOUNTING THE LENS

Your Preset Lens utilizes a universal mounting ring (T-mt) which allows your lens to fit practically all SLR cameras manufactured since 1960. Simply attach the specific T-mt for your style camera to the actual preset lens and then mount to your camera body in the same way as your existing lens, which your camera is equipped. Also remove your preset lens the same way as your existing lens and consult your camera instruction manual for further details. After mounting your T-mt adapter to the lens, your may have to adjust the T-mounts so that the top of the lens faces upward. If this is necessary, loosen the 3 small screws located on the T-mt ring and turn the lens until it is in the proper usable position. Make sure to retighten the 3 screws after you make the adjustments.

SETTING THE F STOP

Rotate the diaphragm ring to set the desired F stop at the index mark on the lens barrel. The diaphragm can be set to full stops or to any position in-between. Proper F stop is chosen as indicated by the camera's built-in exposure meter or an independent meter; or may be dictated by special requirements, such as controlling the depth of field.

METER COUPLING

Meter coupling on all preset lenses is done manually. In order to meter, close down the lens aperture by rotating the ring marked O→C (open→close) to the C position. Now meter your camera by adjusting either your camera shutter speed, lens aperture, or both.

DEPTH OF FIELD

Lenses are provided with a depth of field scale. Depth of field is indicated for all distances and F stop settings on the double scale of numbers engraved on both sides of the red center reference line. In order to fully understand usage of depth of field, please refer to your camera owner manual or any basic 35mm techniques guide.

FOCUSING THE LENS

In order to increase the amount of light coming into the viewfinder (which makes focusing easier), rotate the ring marked O→C to the O (open position), and then look through the viewfinder of your camera and rotate the focusing ring to get a sharp and clear image. Due to the optical properties of long telephoto lenses, it will be more difficult to see the image snap into focus with telephoto lenses or settings. Be sure to rotate the O→C ring back to the C (closed position) before metering or taking pictures.

USING THE VIEWFINDER WITH TELEPHOTO LENSES

The effectiveness of different types of focusing screens varies with the focal length and maximum aperture of the lens. The rang finder or microgrid prisms built into the ground glass do not work as well with longer focal length lenses as they do with the normal camera lens and most wide-angle lenses, and may blackout partially or fully "the center focusing spot." When such a condition exists, focusing is best done on the ground glass portion of the viewing screen. On some SLR cameras, long telephoto lenses appear to produce a cut-off image in the upper corners or along the entire upper edge of the view finder. Actually such viewing cut-off is caused by the size of the camera's mirror which is adequate for the shorter focal length lenses only. The exposed slide or negative will be unaffected by this viewing deficiency.

PROPER CARE OF LENS

Your lens should always be capped to protect it when not in use. Like other precision optics; it should never be simply wiped with tissues since this may damage the surface with dust on the lens. Use a soft brush to clean the lens surface or polish very gently in a circular motion with high quality, moist lens tissue. Use lens cleaning fluid to moisten tissue sparingly and only when necessary, by applying one or two drops on the lens tissue. After the lens surface has dried, clean lens with a dry tissue and blow away other particles with your soft brush.

SPECIFICATIONS

Optical Construction	: 4 groups; 4 elements
Angle of View	: 5°
Aperture Range	: F: 8.0-32
Min. Focus Dist.	: 10m
Coating	: Multi
Length	: 298mm
Weight	: 640g
Filter Size	: 67mm
T-Mounts Available	: Pentax U, Pentax PK, Canon, Nikon, Minolta, Olympus, Konica, Yashica, Fujica.