USING THE SPIRATONE

400MM f/6.3 PRE-SET TELEPHOTO
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The SPIRATONE 400 is a lightweight, true telephoto lens yielding 8X image magnification as compared with the normal lens.

MOUNTING THE LENS TO YOUR CAMERA.
The SPIRATONE 400 is a “T” mount lens. It is supplied with the appropriate “T” adapter for your SLR camera. Screw the “T” adapter onto the lens and mount the lens to the camera body in the usual manner. If the lens scale is not centered in the upright position, loosen the three setscrews in the “T” adapter, rotate the lens so that the scale is centered, and retighten the setscrews.

THE PRE-SET DIAPHRAGM.
The pre-set diaphragm is calibrated from f/6.3 to f/32. Set the upper pre-set diaphragm ring to the desired f stop as determined by an exposure meter. Rotate the operating diaphragm ring just below the calibrated ring counter clockwise as far as it will go. This opens the diaphragm fully to f/6.3 for maximum brightness in focusing and composing.

After focusing, rotate the operating diaphragm ring clockwise as far as it will go. The diaphragm is now stopped down to the pre-set aperture and the shutter may now be tripped.
DEPTH OF FIELD.
An engraved depth of field scale indicates the range of sharpness with the SPIRATONE 400 for any distance and f stop combination. Example: if the lens is focused to 100 feet and the diaphragm is stopped down to f/22, the depth of field scale indicates opposite 22 on the left and right a range of sharp focus from 80 feet to about 125 feet.

TRIPOD COLLAR.
The SPIRATONE 400 may be hand held at fast shutter speeds, but for maximum definition the use of a tripod is recommended. Mount the tripod to the tripod collar. The collar may be rotated to permit vertical or horizontal composition.

FILTERS.
The SPIRATONE 400 uses custom 72 mm size filters or series IX 72 mm adapter for standard series IX accessories.
The use of a haze filter is generally recommended in telephotography.
SLR CAMERAS AND TELEPHOTO LENSES.
The effectiveness of the various types of focusing screens varies with the focal length and the speed of the lens. The rangefinder or microgrid prisms built into the groundglass do not work as well with longer focal length lenses as with the normal lens and may black out. When such conditions exist, focusing is best done on the groundglass portion of the viewing screen. On some SLR cameras, long lenses seem to produce an apparent cutoff, primarily in the upper corners or along the entire upper edge of the viewfinder. Actually, such viewing cutoff is caused by the size of the camera's mirror which is adequate for the shorter focal length lenses only. The slide or negative will be full and unaffected by this viewing deficiency.