

*Spiratone*  
**PLURACOAT<sup>®</sup>**  
**AUTOMATIC LENSES**



## Using *Spiratone* PLURACOAT<sup>®</sup> Lenses

Spiratone PLURACOAT lenses are fully automatic and incorporate not only the optimum in computer optical design but also the very latest in optical multicoating techniques. The PLURACOAT process of multicoating assures virtually flare free photographs even under the most adverse lighting conditions, resulting in crisp, full color fidelity, high contrast pictures. Your PLURACOAT lens requires no special attention beyond the usual care in keeping the lens protected and clean.

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### **MOUNTING THE LENS**

Spiratone automatic lenses are similar in design to the "normal" camera lens and are mounted and dismounted in the same manner as the "normal" lens.

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### **AUTO DIAPHRAGM-MANUAL CONTROL**

Some lens models have an A-M ring next to the diaphragm ring. This functions as a preview (stop down) mechanism on the lens itself. For normal automatic operation the ring should be set to "A". Only to preview the scene at the shooting aperture should it be moved to the "M" position. Many cameras have the preview function built-in and do not require the A-M lens ring feature.

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### **SETTING THE F STOP**

Rotate the diaphragm ring to the proper f stop as indicated by the camera's behind-the-lens or an independent meter. The diaphragm can be set to full f stops or at any point in-between.

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### **METER COUPLING**

The meter coupling is automatic as the lens is mounted to the camera body. Some camera models require the maximum aperture value of the lens being used to be set in the meter mechanism. Check your camera manual for further instructions.

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### **USING THE FINDER**

The effectiveness of different types of focusing screens varies with the focal length and speed of the lens. The rangefinder

or microgrid prisms built into the groundglass do not work as well with longer focal length lenses as they do with the normal camera lens and most wideangle lenses and may black out partially or fully. When such a condition exists, focusing is best done on the groundglass portion of the viewing screen.

On some SLR cameras, long telephoto lenses appear to produce a cut-off in the upper corners or along the entire upper edge of the viewfinder. 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.

When focusing with very short wideangle lenses, because of the extreme depth of field, the finder image will not quickly snap in and out of focus; rather, the midpoint of the focusing range should be determined as you focus the lens in front of and behind the point of critical focus.

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## **DEPTH OF FIELD**

The depth of field is indicated for any distance setting and stop by the depth of field scale which is the dual scale of f numbers engraved on both sides of the center reference line. The distance settings opposite the f number being used on the left and right hand parts of the depth of field scale indicate the range of sharpness (depth of field) at that particular distance and f stop setting.

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## **FILTERS AND LENSHOODS**

Spiratone filters are solid optical glass, dyed in the mass and coated to maintain the optical quality of Spiratone lenses. They are available in custom sizes to screw directly into your lens. They are also front threaded for use with additional filters, FocusXtenders and lenshoods. Spiratone lenshoods are available in specific types and shapes to match the focal lengths of your lens and provide maximum effectiveness in shading. Do not use lenshoods designed for normal lenses with wideangle lenses. For telephoto lenses, special lenshoods are also recommended, but normal lenshoods will provide a limited amount of shading, too.

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## **AUTOMATIC ACCESSORIES**

The usefulness of the automatic Spiratone lenses can be even further increased by the addition of some of the automatic accessories available for them. In most instances, these are also suited for use with your normal automatic lens.

These automatic accessories include extension tubes and TelXtenders.

Spiratone's unique FocusXtenders which screw into the front of most telephoto lenses, extend the near focusing range of these lenses without affecting their speed or automatic operation.

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## **CASES**

Store your lens always in a case and keep it clean and well protected at all times. Both metal and shoot-through optical front lens caps (Opticaps) are available for maximum protection of the front of the lens.

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## **ADDITIONAL HINTS ON THE CARE OF YOUR PLURACOAT LENS**

Your PLURACOAT lens should always be capped to protect it when not in use. Like other precision optics, it should never be simply wiped with tissue since such tissue may abrade the surface with any dust which might be on it or on the lens.

Any accumulated dust should occasionally be blown off with a syringe or one of the available pressurized air products. To remove a fingerprint or smear, shred the edge of a lens tissue and roll it to make a swab; dampen it with a lens cleaner specifically made for photographic optics and gently "wipe" the surface without exercising any pressure whatsoever. If repeating the procedure is necessary, use a new swab.

Close examination of a multicoated lens may reveal some "beauty defects" in the coating. These in no way affect the performance of your lens.

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## **LIMITED ONE YEAR WARRANTY**

Your Spiratone PLURACOAT lens is guaranteed against defects in material and workmanship and will be serviced without charge during the warranty period provided it has not been abused or tampered with. Repairs and adjustments after expiration of the warranty, or of lenses which have been abused, are subject to our standard repair charges.

**Spiratone** Inc.

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