



How to use your
Sandmar[®] interchangeable
telephoto and wide-angle lenses

For Your
ARGUS C-3
AND
MATCH-MATIC
CAMERAS

Sandmar interchangeable lenses for argus C-3 camera provide the right focal length for every picture

These interchangeable lenses provide the C3 with the versatility of cameras costing hundreds of dollars. You can now take regular photographs with your Argus 50mm Cintar lens, extra-wide pictures with your 35mm Wide Angle lens, and exciting candid close-ups with your 100mm Telephoto lens.

Hard-coated and color-corrected, they also boast "click-stop" aperture settings and the Colormatic system of "universal" settings for simplified picture-taking.



35mm Wide Angle Lens—The popular Sandmar f:4.5 Wide Angle Lens covers 87% more area than the standard Cintar. Lets you include more scenery in your vacation slides and is just the thing where there is little room to step back from your subject.

50mm Standard Lens—The Argus Cintar Lens is standard for general indoor and outdoor pictures. Capable of handling a wide variety of picture-taking situations, its aperture of f:3.5 also allows you to take pictures even under low light conditions.

100mm Telephoto Lens—This f:4.5 Sandmar Telephoto Lens reaches out to bring your subjects "twice as close." Its 100mm focal length makes candid shots and close-ups easier. Your subjects are at ease and you get more relaxed poses.

color-matic settings



Like your standard Argus lens, both the Wide Angle and Telephoto lenses feature **COLORMATIC** aperture and distance settings. These settings will give you excellent pictures of average subjects in bright sunlight, and they can be used with a number of different films. Just as you do with your normal Argus lens, use yellow markings with Kodachrome Daylight film, red markings with Ektachrome or Anscochrome Daylight color films, and Plus-X, Supreme, or similar black-and-white films (ASA 32-80).

SPECIAL USES

TELEPHOTO

Because this lens provides enlarged pictures of any subject, you'll find it useful for . . .

• PORTRAITURE
• ANIMALS
• CHILDREN
• DISTANT SCENES
• SPORT PICTURES
• SAILING PICTURES

WIDE ANGLE

• Takes in more picture area. Especially good where space is limited and for pictures of . . .

• LANDSCAPES
• SEASCAPES
• ARCHITECTURE
• LARGE GROUPS
• INTERIORS
• CANDID ACTION

removing cintar lens

1. UNSCREW CAP FROM THE IDLER GEAR which couples the rangefinder dial to the focusing lens mount. (If your C3 is an older model, it may be necessary to turn the rangefinder dial to the 3 foot position to unscrew the large size cap.)
2. REMOVE THE IDLER GEAR by lifting it straight up.
3. GRASPING THE LENS COLLAR, UNSCREW THE LENS (counterclockwise) FROM THE CAMERA FRONT PLATE. If the lens has not been removed for a long period of time, it may take a little extra effort to unscrew it. *Do not loosen or remove any of the assembly*

*screws in the lens mount. To avoid injury to the rangefinder, never turn the rangefinder dial into the area designated by the word **RANGEFINDER** engraved on the dial.*

replacing cintar lens

1. Remove either interchangeable lens as you did the Cintar lens.
2. SCREW THE CINTAR LENS INTO THE CAMERA, turning to the right (clockwise) past the resistance point until the lens is SEATED FIRMLY. CHECK that the lens is seated firmly by rotating the focusing mount and making certain that the focusing part is moving in and out. Be certain the lens is not unscrewing from the camera body.

3. TURN THE LENS COLLAR until the first gear tooth on the left side of the row of teeth is in a position to engage the idler gear.
4. SET THE RANGEFINDER DIAL AT INFINITY, THEN DROP IN THE IDLER GEAR. Move the rangefinder dial back and forth and make certain that it stops exactly at infinity. *This is essential for proper focusing.* If the

dial does not stop at infinity, lift the idler gear up slightly and move the rangefinder dial to the proper position, taking care not to move the lens mount.

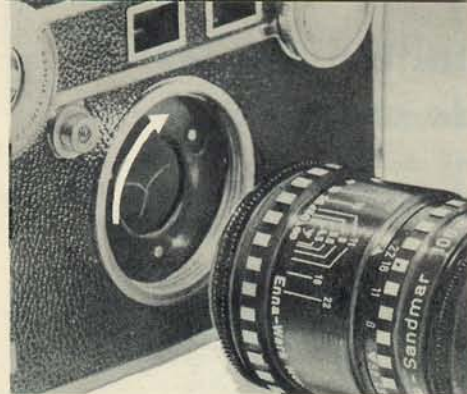
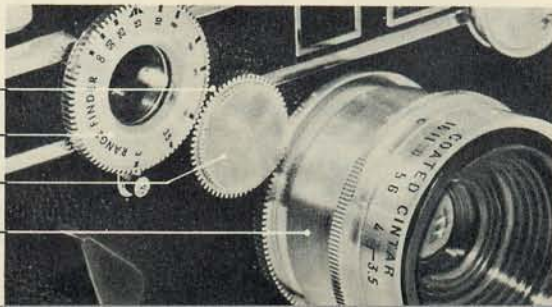
5. SCREW ON THE IDLER GEAR CAP. (If your C3 is an older model, it may be necessary to move the rangefinder dial to the 3 foot mark to do this).

IDLER GEAR CAP

RANGEFINDER DIAL

IDLER GEAR

LENS COLLAR



installing Sandmar[®] telephoto lens

Remove the Cintar lens as shown on page 5. Hold the telephoto lens by the collar and screw it into the camera until tight.

Align the lens infinity mark with the focusing scale arrow, and set the rangefinder dial at infinity.

Drop in the idler gear. Make certain the rangefinder dial is at infinity when the telephoto lens focusing scale is set at infinity. *This is essential for proper focusing.*

Screw on the idler gear cap.

The camera is now ready for telephoto pictures. Use the rangefinder and focus the same as you would with the normal lens. Use the same exposure settings.

To provide the correct field of view, the telephoto viewfinder mask must be snapped into position when using the telephoto lens. The Optical Viewfinder, supplied with the Wide Angle Lens, may also be used with the telephoto lens.





The Optical Viewfinder, supplied with the Wide Angle Lens, slips into the C3 accessory shoe and provides exact fields of view for both the Wide Angle and the Telephoto Lenses.



installing *Sandmar* wide angle lens

Remove the Cintar lens as shown on page 5. Hold the wide angle lens by the collar and screw it into the camera until tight.

Line up the lens focusing scale arrow with the infinity mark, and align the rangefinder dial at infinity.

Drop in the idler gear, making certain that the rangefinder dial is at infinity when the lens focusing scale is at infinity. *This is essential for proper focusing.*

Screw on the idler gear cap.

Slip on the Optical Viewfinder and use the rangefinder for focusing as you did with the regular Cintar lens. Use the same exposure settings.

special adjustment for

Sandmar interchangeable lenses



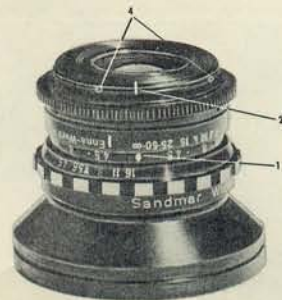
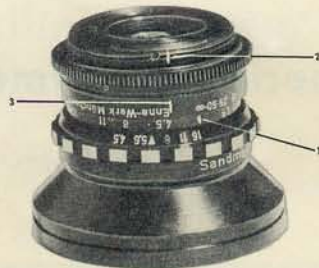
If the lens markings are not readily visible from the top of the camera—a convenience, not a necessity—the following adjustment may be made with a small jeweler's screwdriver. If you do not desire to make this adjustment, your local Dealer can do it for you.

Rotate the rangefinder dial until the lens focusing scale arrow is at infinity. With a pencil, mark the accessory lens collar directly below the rangefinder window.

Then remove the accessory lens in the same manner as you removed the Cintar lens. See the instructions on page 5.

With the lens in your hand, set the lens focusing scale arrow again on infinity (1). Make another mark (2) on the mounting thread of the lens directly in line with the first pencil mark (3) on the lens collar. See illustration on the top of this page.

Using a jeweler's screwdriver, loosen the four tiny screws (4) that are seated in the threads—two turns only. Then turn the threaded ring either way until the mark on the threads is in line with the lens focusing scale arrow. Tighten the four small screws—all the screws must be seated. First screw on the Lens Cap to test if the threads are clear, then replace the lens on the camera as shown on page 7 or 8.



depth-of-field

The Depth of Field Scales on your Telephoto and Wide Angle Lenses tell you at a glance the range of sharpness that will be in your picture. This range of sharp focus (depth of field) in front of and behind your subject increases as you get farther from the subject, or as you use smaller apertures.

TELEPHOTO LENS

Example: With your camera focused at 25 feet and the lens set at f:8, the range of sharpness will be from 16 feet to 64 feet. See illustration.

WIDE ANGLE LENS

Example: With your camera focused at 10 feet and the lens set at f:8, the range of sharpness will be from 5 feet to infinity. See illustration.



SPECIFICATIONS

TELEPHOTO

LENS: 100mm. color-corrected, hard-coated, anastigmat, helical-focusing, 3 ft. to infinity.

F STOPS: Click stop settings at f: 4.5, 5.6, 8, 11, 16, 22.

HYPERFOCAL INDEX: 71 feet, 9 inches at f: 4.5

FULL FIELD ANGLE: 24°

FILTER SIZE: Series V (1 $\frac{3}{16}$ ")

VIEWFINDER: Mask snaps into viewfinder window.

WIDE ANGLE

LENS: 35mm. color-corrected, hard-coated, anastigmat, helical-focusing, 3 ft. to infinity.

F STOPS: Click stop settings at f: 4.5; 5.6, 8, 11, 16

HYPERFOCAL INDEX: 17 feet, 7 inches at f: 4.5

FULL FIELD ANGLE: 64° 30'

FILTER SIZE: Series V (1 $\frac{3}{16}$ ")

OPTICAL VIEWFINDER: Fits accessory shoe.

Made in West Germany

Because our products are continually being improved, minor changes in appearance of the product may not be included in this instruction book.



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