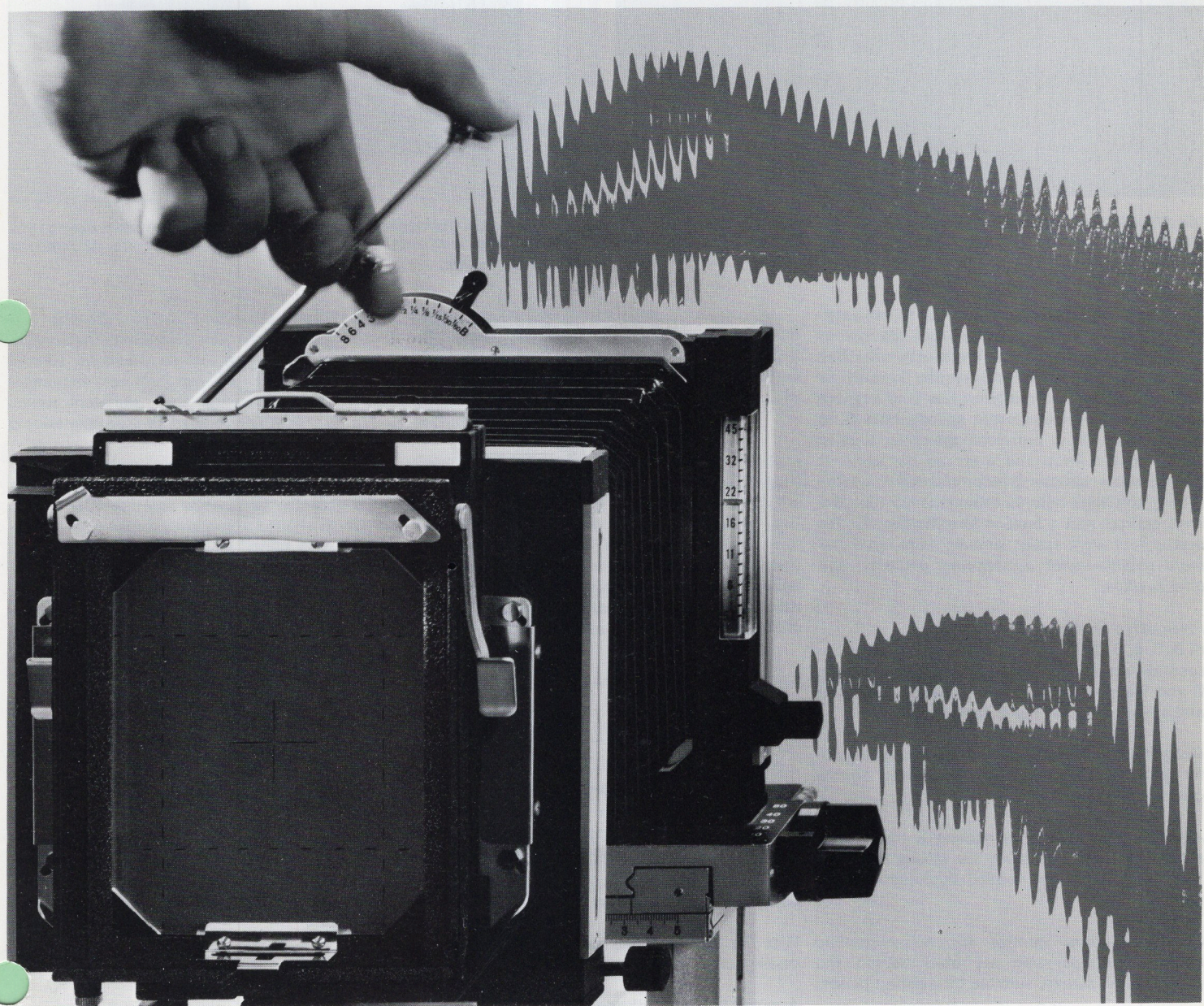


The SINAR Auto-Aperture Shutter – A component of the SINAR system

sinar

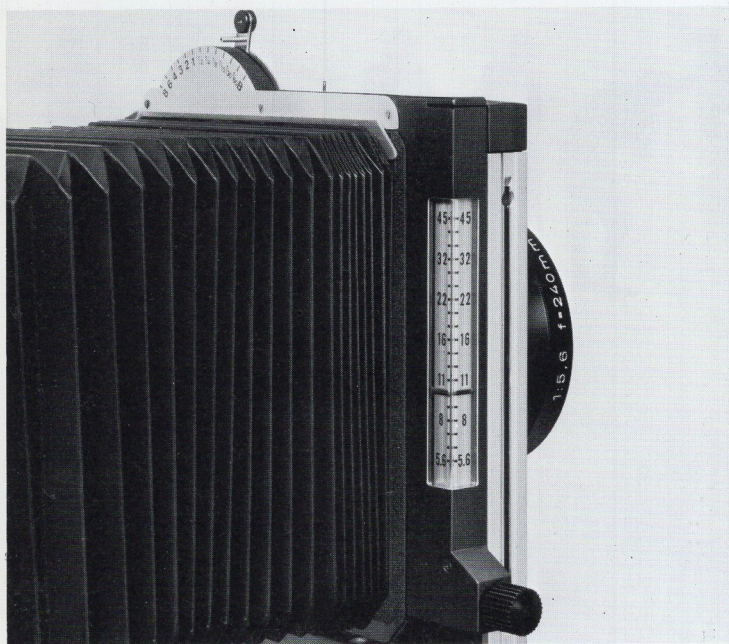


No more darting back and forth

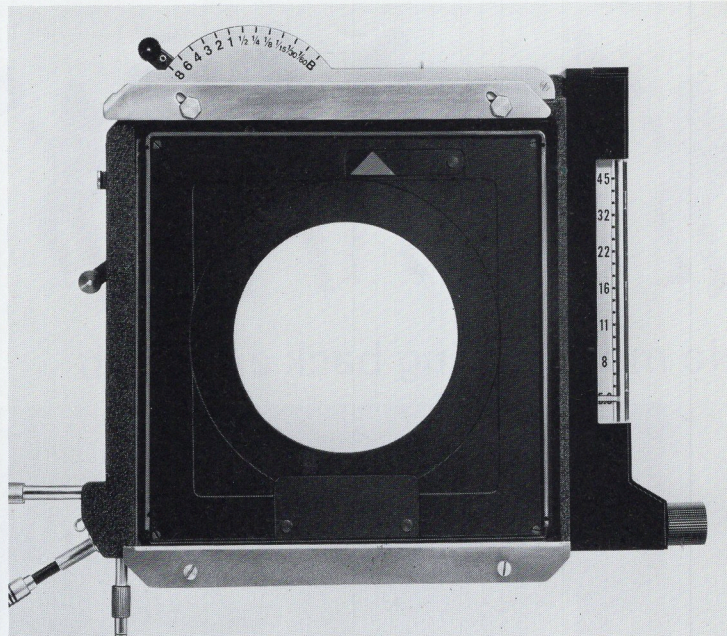


The SINAR shutter – you set apertures and shutter speeds with one hand from behind the focusing screen

SINAR – A shutter for more than 200 lenses



The SINAR Auto-Aperture shutter. It fits into the SINAR behind the interchangeable lenses. You operate it with one hand from behind the focusing screen.



You preselect shutter speeds and apertures. The 75 mm clearance diameter of the shutter takes lenses with rear mounts up to 82 mm. Built-in filter holder.

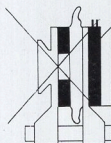
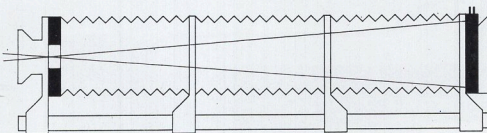
The SINAR Auto-Aperture shutter is an automatic shutter with central aperture control to simplify your work: You can use it with over 200 professional lenses of focal lengths from 65 to 480 mm (up to 960 mm with rear lens element only). You preselect shutter speeds from 8 to 1/60 second. You preselect apertures with a handy control knob and a spread-out scale. It further offers automatic shutter control on inserting the film holder, disengagement of the flash contact and a built-in filter holder. All this makes your work easier, simpler, more rapid and more reliable—with outstanding precision and time savings.

Preselected shutter speeds of 8, 6, 4, 3, 2, 1, 1/2, 1/4, 1/8, 1/15, 1/30 and 1/60 second—set in the same way with all lenses. B and T exposures with cable release. Extra soft and silent release at the B setting.

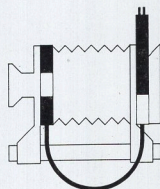
Delay-free self-tensioning simplifies operation for greater action readiness. You avoid double outlines in multiple exposures.

Aperture preselection by turning a knob, with automatic stopping down for lenses with the SINAR type DB spring-loaded diaphragm system. Or—

SINAR aperture control for non-automatic aperture settings—also set from behind the ground glass screen, suitable for existing lenses.



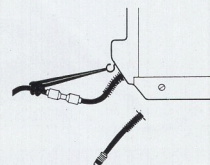
The SINAR shutter is universally suitable for lenses from a 65 mm wide-angle to a 480 mm extreme tele systems. And it works equally with all film sizes up to 8×10 inches.



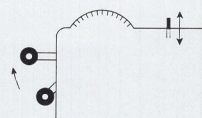
Automatic control by the film holder works with all lenses and film sizes. On pushing in the film holder the shutter closes; on pulling out the film holder the shutter opens automatically.

With the SINAR Rapid Adapter you further increase action speed.

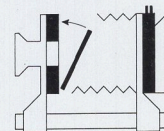
A sensible switch disengages the flash contact to prevent firing during observation of the ground glass screen.



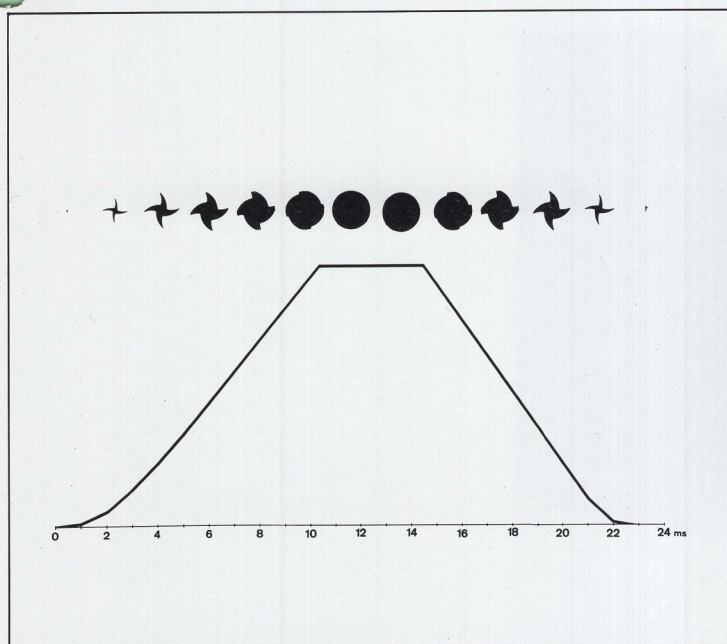
The flexible flash outlet prevents damage to the outlet socket.



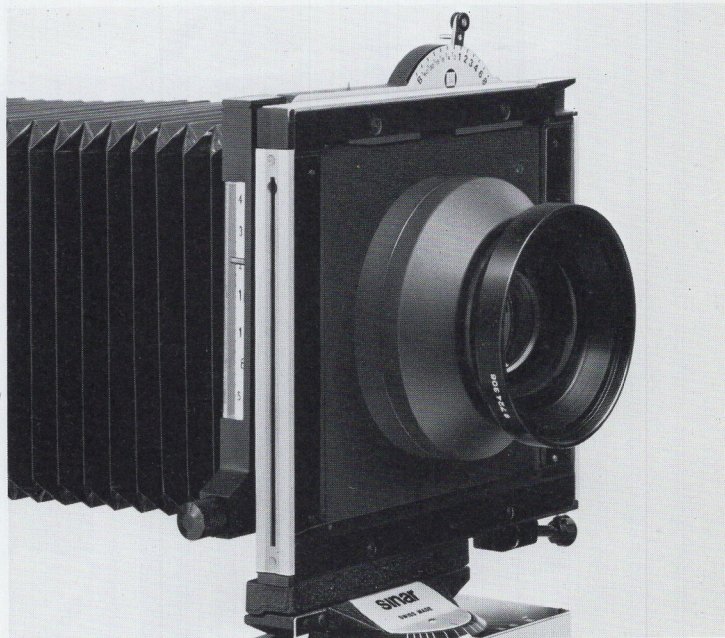
You can see and feel the signal pin which shows whether the shutter blades are open or closed.



The SINAR shutter holds filters protected against dust and scratches. You insert them in the back of the shutter after releasing the bellows. The shutter takes 4×4 inch and 103 mm SINAR glass filters.



The graph shows the favourable opening and closing times—at the critical $1/60$ second shutter speed.



The SINAR type DB spring-loaded diaphragm mount with automatic aperture control. Available for over 20 lenses as listed in the SINAR lens list PO.

The SINAR/COPAL shutter is designed for heavy-duty continuous use. Made by COPAL, a famous Japanese shutter maker, it has tighter tolerances than the exposure latitude of precious colour materials. This ensures consistent and precise exposure times with any lens.

The SINAR shutter is exceptionally versatile: It is suitable for photography in the studio or outdoors—With extreme wide-angle and long focus lenses—it is rapid, simple and reliable in operation, and adjusted with two fingers from behind the ground glass screen—It weighs just 23½ ounces (670 grams).

Fewer operations—better pictures

A unique combination: Lenses in the type DB spring-loaded diaphragm mount, the SINAR Auto-Aperture shutter and the SINAR film holder control. For you that means still simpler, more reliable and more rapid operation.

Over 20 lenses from the Schneider and Rodenstock professional lens range in focal lengths from 65 to 480 mm are now equipped with the exclusive SINAR type DB spring-loaded diaphragm control system. They couple directly with the SINAR Auto-Aperture shutter, for precise stopping down at the instant of exposure and full opening after the exposure. A control knob preselects the apertures on the expanded scale.

Pressure on the cable release stops down the lens to the working aperture. This setting permits infinitely variable aperture adjustment while viewing on the ground glass screen. The diaphragm fully opens again on letting go of the cable plunger. The preselected working aperture remains unchanged.

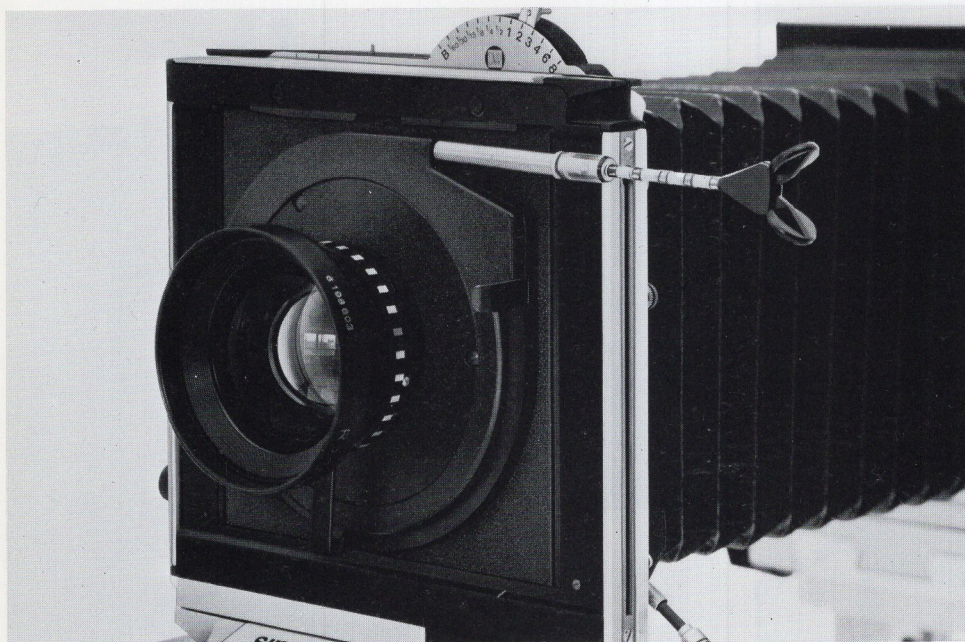
Safety interlocks guard against operational failures. The functions couple automatically on changing the lenses.

SINAR shutters — universal components in the SINAR system

- For every SINAR camera (any model, any year).
- For any lens in any mount. Many lenses can even be remounted from their original mount into the SINAR DB auto-aperture mount with automatic stop-down control (see lens table).
- The mechanical auto-aperture shutter and the electronic DIGITAL shutter (see separate leaflet) are mutually interchangeable at any time.

The SINAR shutter – More scope without limitations

sinar

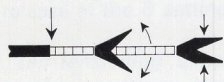


The SINAR type B remote aperture control for manual aperture adjustment from behind the ground glass screen for existing lenses. Can be used with or without the SINAR shutter.

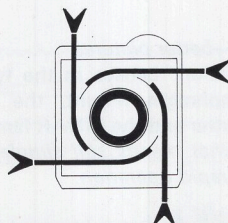
The manual SINAR type B aperture control can be utilised with the full range of 60 further professional camera lenses. This covers focal lengths from 65 to 600 mm in standard mounts or in the mechanical Compur between-lens shutters.

You set the aperture manually from your viewing position behind the screen. Large scale intervals permit exact adjustment and reduce exposure tolerances. The SINAR type B aperture control can also be fitted to your present lenses. (When inquiring please state precisely the lens type and focal length as well as the type of shutter, for instance Compur between-lens shutter, or standard mount.)

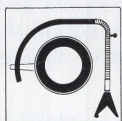
The SINAR Auto-Aperture shutter can be used equally with the manual SINAR type B aperture control.



You can set any intermediate aperture and lock it firmly. The aperture values are marked in consistent colours and indicated by large figures.



You can switch the manual SINAR aperture control with the SINAR lens board round in 90° steps in any direction. That makes for more convenient operation when the camera is high up, low down, to the left or to the right.



The setting scale is flexible and can be folded back for transport in the carrying case.

More than 200 lenses are usable with the SINAR shutter system. This includes lenses without the type DB spring-loaded SINAR diaphragm, without the SINAR type B remote aperture control and with or without between-lens shutter. The SINAR shutter takes lenses with rear lens mounts up to 82 mm diameter, adjusted to the plane of the behind-lens shutter blades.

Special lenses can be fitted for macrophotography, photomicrography, copying and enlarging applications.

SINAR/COPAL Auto-Aperture shutter with central aperture control-	No. 521.31
SINAR type DB spring-loaded diaphragm mount	No. 446.11
SINAR type B manual remote aperture control	No. 442.21
SINAR lens board	No. 441.11
SINAR lens board without lens	No. 441.11

* When ordering please specify the lens required.

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