Sinar The Camera.

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SINal



The concept of a system.



More than 35 years ago Carl Koch, a young professional photographer, had an inspiration: The concept of a view camera that would simplify the photographer's job with more precise and more rapid movements. He conceived a camera system adaptable for any assignment which did not necessitate complex conversions.

The first SINAR appeared in 1948. Even then it was more than just a view Camera. It was the basis of a meticulously planned camera system.

The system has remained unchanged to the present day, and more than 30 years it has retained compatability of nearly all its components – old and new. Even small and medium format cameras are easily integrated into the system. The SINAR which was thoroughly tested and approved by professionals, has been continuously updated and has in its own right stimulated the evolution of new photographic techniques. It developed to an ideal working tool for simple yet optimum control of image sharpness and perspective.

Numerous accessories are available for the system, each one carefully made to meet every conceivable assignment. They can be used with every SINAR – and that saves expensive mistakes in buying. The efficient use of the same components for the most varied applications makes the SINAR system universally versatile and convenient to use. A system that can be indispensable to the top professional or the new user of large format photography.



Simple to operate

The clear and logically laid-out controls simplify handling of this precision camera. The SINAR automatically relieves the photographer of tedious mechanical adjustments, leaving the photographer free to concentrate on creativity from behind the camera.

Precise image adjustment

All controls and movements of the SINAR cameras follow the same precise system which allows even the most complex combination of swings and tilts to be achieved easily by following simple logical steps. SINAR patented assymetrical system of swings and tilts together with precise measured movements completely eliminate time wasted and the frustration of trial and error methods.

Precise depth of field calculations

Every SINAR view camera is equipped with a unique depth of field scale which for any given format will easily and simply inform the photographer which f stop will be necessary to achieve acceptable sharpness.

Exposure control

The systems SINARSIX-DIGITAL and PROFI-select TTL measure exposure at the point where the image is subsequently exposed, namely in the film plane. A highly sensitive measuring probe permits selective readings of any chosen image portion. This also automatically allows for exposure increases required by filters and camera extensions, giving precise repeatable exposures every time.

The SINAR shutter system

SINAR's behind-the-lens shutter system is used with all lenses, eliminating variable shutter tolerances: A selected shutter speed is the same with any lens, and with the behind-lens shutter you work from behind the camera eliminating the constant need to dart back and forth around the camera: Apart from adjusting the automatic aperture and the shutter speed conveniently from behind the camera you can also check the settings at a glance. The shutter automatically closes on inserting the film holder and opens when you remove the holder for viewing at full aperture the next shot. The most versatile shutter is the microprocessorcontrolled DIGITAL unit. But the SINAR can also be used – with the same lenses – with the mechanical auto-aperture shutter. The operation of these SINAR behind-lens shutters is almost the same as with a modern 35 mm camera.

The Handbook

The SINAR you buy is more than just an ordinary view camera. The «SINAR System view camera Handbook» supplied with each camera goes far beyond the scope of an instruction book. It rapidly teaches you to master the camera to perfection – and to fully utilise the immense range of the SINAR system. You are never alone in the worldwide family of SINAR photographers. Extensive literature keeps you in touch with all applications and periodically organised workshops and seminars help you to utilise your SINAR system for maximum performance and profit.





The rail clamp

The three-point base of the SINAR rail clamp provides an ideal rigid camera support. Turning a lever locks the rail clamp solidly on the tripod head. It permits rapid camera switching and can also take a universal camera holder for miniature camera systems.

The rail unit

The 30 cm (12 inch) standard rail is ideal for wide-angle photography. Extension units at either end extend the rail for longer focal lengths. Extension rail units are available in lengths of 15, 30 and 45 cm (6, 12 and 18 inches).

The standards

The lens and image standards can slide directly on the rail for rapid extension change or for quick removal. Micrometer drives on the standard bearer permit precise focus setting, swings, tilts and parallel displacements.

The SINAR p lens standard frame accepts the bellows or the behind-lens shutter and the lens boards. This frame remains the same for all picture formats.

<u>The image standard</u> consists of a standard bearer for interchangeable carrier frames. These carrier frames take the appropriate $4 \times 5''/9 \times 12$ cm, $5 \times 7''/13 \times 18$ cm or $8 \times 10''/18 \times 24$ cm ground glass screen holders. A special holder permits rapid attachment of format masks and of a Fresnel lens on the ground glass screen.

The multi-purpose standard I is the lens standard of the SINAR c and the SINAR f. This again remains the same with all picture formats and carries adjustments for swings and parallel displacement. A hinged collar for rapid fitting on the rail makes this an ideal intermediate standard for long bellows extensions, a bellows hood support in front of the lens or an object for macrophotography.

The multi-purpose standard II has a micrometer focusing drive and precision scales for swings and parallel displacements. It also acts as the image standard of the SINAR f and has a built-in depth of field scale and angle indicator.

The bellows

The bellows fit simply between the front and rear standards. A special bellows is available for each of the three formats. Wide-angle bellows to permit full adjustment even with very short extensions are available for all formats.

The bellows holder, bellows lens hood and filter holder rods

This arrangement provides optimum protection against stray light by an adjustable bellows hood, yet also permits the use of glass or gelatine filters. The unit is bottom mounted to minimize vibration of the lens standard.

The binocular magnifier and binocular reflex magnifier

These efficient aids greatly improve focusing precision. The binocular magnifier allows two-eyed focusing even with the screen image magnified 21/2 times. The binocular reflex magnifier shows the magnified screen image upright.

The universal camera holder and the camera support

These two small accessories integrate small and medium-format cameras as well as motion picture cameras into the system. These camera units may thus be mounted directly on the SINAR clamping stand or the SINAR p standard bearer.

The shutter

The SINAR DIGITAL shutter, with its built-in microprocessor, or the mechanical Auto-aperture shutter can be inserted between lens standard and bellows. Both behind-lens shutters allow the use of lenses without shutters and, through their automatic features, help greatly to avoid operational errors.

The light metering systems

The light metering systems SINARSIX-DIGITAL and PROFI-select TTL determine the correct exposure values selectively on the film plane.





Three ways of acquiring a sinar

sinar p

(perfection)

The main advantage of this unsurpassed top model is its supreme ease of handling. Precision micrometer drives permit rapid one-handed adjustment of all parallel displacements, swings and tilts.

The unique and patented asymmetric tilt system of the SINAR p locates the horizontal and vertical tilt axes exactly in the film plane. With the SINAR p you can control sharpness distribution or adjust perspective without refocusing. This system makes precise sharpness control fully straightforward. On the SINAR p even the image format can be matched to any assignment without complex conversion.





(combination)

The SINAR c is not a different camera but a different component combination of the SINAR system. Essentially it is a simplified SINAR p. The rear standard is that of the SINAR p, while the lens standard is the multi-purpose standard I of the SINAR system, used also in the SINAR f.

The SINAR c is convertable at any time to the SINAR p and it's $4 \times 5''/9 \times 12$ cm version is delivered with metering back.



sinar f

(field)

The SINAR f, a further combination within the SINAR system, is a genuine light-weight high-performance SINAR. Without lens it weights just 3.1 kg. (6.8 lbs). Thanks to its low weight and convenient size the SINAR f is the ideal view camera for location work and travel.

At the same time this less expensive camera provides an entry into the SINAR system on a more modest budget. It can be converted to a SINAR c or SINAR p at any time without wasting any component.



The three SINAR models take over 200 different lenses. More than 30 of those have auto-aperture control.

The SINAR copes with wide-angle photography down to a focal length of 65 mm without conversion and without recessed lens boards. Even the rail clamp can remain in position between the standards.

Three alternative rear standards are available for the SINAR p to take the nominal $4 \times 5''/9 \times 12$ cm, $5 \times 7''/13 \times 18$ cm and $8 \times 10''/18 \times 24$ cm formats. The rear standards take all sheet films of any size, roll films in appropriate magazines and most instant-picture materials – in sheet film or film pack form-up to $8 \times 10''/18 \times 24$ cm.

The $4 \times 5''/9 \times 12$ cm back has an additional housing for a meter probe of in-film-plane light meter systems. With a simple swivel motion you bring the meter probe into the viewing screen area and take spot readings of flash or continuous light directly on the film plane – without the need of a separate light meter cassette. The SINAR f comes in plain back and can, however, at any time be easily converted into the more comfortable version of the SINAR p.

The SINAR handy is the large-format hand-held camera. It is available as a complete camera, but can also be assembled with existing components of a SINAR p or c.

Essentially the camera consists of the $4 \times 5''/9 \times 12$ cm back. The only additional items are a finder, a twoway spirit level and a handgrip.

If you have a SINAR p or c you already own the main components of this camera.

Six different lenses are available in focal lengths bet-

ween 47 and 90 mm. All come in focusing mounts and in self-cocking Prontor Press shutters.

The SINAR handy is useful for architectural, industrial and landscape photography. The picture size is large enough to offer sufficient definition even when enlarging severely cropped sections. It requires no parallel displacements or tilts. The SINAR handy does not of course have to be held in the hand all the time. Like any other SINAR it may equally be mounted on a tripod and the image focused on a screen.

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sinar handy



The SINAR p relies on a patented tilt mechanism that is neither a central nor a base tilt but uses asymmetric image axes in the film plane. This ensures that image points on these axes remain sharp during every tilt of the image standard for sharpness distribution control (the Scheimpflug or converging planes principle) or perspective adjustment. The effects of swing and tilt are directly observable on the screen. You can thus stop the tilt at exactly the right point.

The sequential swings and tilts about the horizontal and vertical axis, greatly simplify what used to need complex focusing in planes inclined about two axes.

The sinar p

sinar digital

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Depth of field can be precisely controlled at full aperture and the required aperture read off the depth of field scale. This scale is valid for every lens. Even with maximum tilts the SINAR does not yaw on inclination. Any axis set vertically remains vertical. All adjustments are mounted in the standard bearer. The camera frame carries no lateral supports or interfering U-frames. This design ensures an exceptionally large swing and tilt range of the SINAR p. All parallel displacements, swings and tilts are adjustable via micrometer drives. All adjustment mechanisms have precision central engagements. The operating controls are mounted at the right of the camera for rapid one-hand operation of the SINAR p. The standards may be shifted directly on the rail for rapid extension changes. The standard bearer base also incorporates a coarse horizontal tilt up to $\pm 45^{\circ}$. All adjustments are clearly shown on large scales. Several protected spirit levels permit rapid and precise horizontal and vertical alignment of the standards.

Alternative outfits

To meet all requirements the SINAR p is available in two alternative outfits:

The STANDARD SINAR p outfit

- The Standard outfit consists of:
- The rail clamp
- A 30 cm (12 inch) standard base rail
- Two complete standards
- Bellows

The camera is available as a $4 \times 5''/9 \times 12$ cm, $5 \times 7''/13 \times 18$ cm and an $8 \times 10''/18 \times 24$ cm outfit.

The EXPERT SINAR p outfit

This extended professional camera outfit complete with main accessories (without shutter and without lenses) is supplied in a solid universal case.

The Expert outfit contains the Standard SINAR p outfit plus the following items:

- Two extension rail units (15 and 45 cm or 6 and 18 inches long)
- One multi-purpose standard I
- One universal bellows
- One wide-angle bellows
- Two bellows holders
- Three bellows hood and filter holder rods, 11, 16 and 25 cm long
- One bellows hood mask
- One binocular magnifier board
- One light hood
- One universal camera holder
- One camera support
- One form-fitted case with wheels
- One set masks

- One Fresnel lens complete for selected format The Expert SINAR outfit is available in the same formats as the Standard SINAR in appropriate-size cases. These also have space for lenses and other accessories.



The sinar c



The combination of a basic SINAR rail, a complete image standard of the SINAR p, a multi-purpose standard I as lens standard and a universal bellows form a simpler and lighter SINAR combination, the SINAR c. For focusing and sharpness distribution control you use the image standard in the same way as with the SINAR p. For sharpness distribution control with the lens standard involving no perspective change you determine the required tilt angles with the image standard and transfer these to the lens standard. The SINAR c takes all the same lenses – without restriction – and accessories as the SINAR p.

As the image format is changed on the rear standard, the camera – like the SINAR p – is convertible to all formats. The SINAR c is convertible at any time to a SINAR p, without making a single component redundant. The now spare lens standard is still indispensable as a multi-purpose standard in the SINAR system, for instance as a full-size compendium bellows support, as an intermediate standard for very long extensions, as a copying holder, mirror holder etc.

Adjustment ranges



The sinar f

The SINAR f is assembled from the multi-purpose standards I and II of the system. It is the ideal largeformat view camera for location work, small and light for transport, but equal in performance to the other models.

Although simpler in construction, it still permits sharpness distribution control without trial-and-error fiddling. The built-in angle scale for 2-point focusing permits simple and precise measurement of the tilt angle and tilt direction. This can be set on the front or rear standard.

The SINAR f also has the universal depth of field scale for establishing – precisely and at full aperture – the depth of field and the required degree of stopping down.

Needless to say, the smallest SINAR is equally yawfree at all inclinations.

The SINAR f still takes the SINAR shutters, all lenses, the SINARSIX and all other SINAR accessories and aids up to the $4 \times 5''/9 \times 12$ cm format.

Like every real SINAR it is fully adaptable to wideangle photography without conversion. And if the maximum 4×5 inch picture size should at any time prove insufficient, you can simply add a SINAR p rear standard to convert the SINAR f to a SINAR c without redundant components. Even subsequent conversion to the SINAR p is equally effective, for you will always find uses for the multi-purpose standards that you release in the process.



Adjustment ranges



The SINAR is a Swiss precision instrument. After each major assembly phase during the manufacturing process, comprehensive inspections are carried out to verify that all components comply with the stringent tolerance requirements.

Our photograph illustrates a test stand for checking the parallelism of SINAR standards.



Here are the sinar system advantages.

The basic camera

- For more than 30 years all SINAR camera models have used the same standard fitting sizes. They will go on doing so.
- Switching the image size is straightforward and inexpensive: you merely change a format frame screen and film holder carrier and bellows.
- Starting from the minimum length of 6" the rail can be extended indefinitely – thanks to convenient basic and accessory rail lengths 6, 12 and 18" (15, 30 and 45 cm).
- All models can be combined and converted from one to the other without loss of components. All camera components are universally usable for various purposes.
- The flat construction of the standards, accessible from three sides without U-supports, needs no recessed lens boards and remains fully versatile for wide-angle photography without conversion.
- The camera system is adaptable to all jobs even including the integration of small and medium format cameras.

Image control

- The logical arrangement and operation of the controls simplifies image adjustments.
- Special micrometer drives in the SINAR p make separate locking adjustments unnecessary.
- Swing and tilt axes in the film plane and angle measurement eliminate trial-and-error adjustments. This permits simpler and precise sharpness distribution control.
- The SINAR remains straight even with two-way sharpness distribution control about two axes.
- All scales are large and precise; clear spirit levels.
- A special scale precisely shows depth of field even at full aperture.

Automation

- The photographer operates the SINAR from his normal position behind the camera – including shutter and aperture settings. You don't have to dart back and forth between the lens and ground glass.
- The SINAR behind-lens shutters and auto-aperture lenses are automated for optimum efficiency to permit closer concentration on the shot.
- Extended automation becomes possible with the DIGITAL shutter in conjunction with the electronic modular system. (See the «Exposure meter» leaflet).

Extending the scope

For more information about supplementary accessories, convertibility and combinations in the system, please turn to the following brochures

- Viewing and Accessories
- Lenses and Shutters
- Light meters
- Code

If you want to get to know the SINAR and its system better and to appreciate what it can do for you before you decide to buy one, read the «SINAR System view camera Handbook» by C. Koch and J.J.Marchesi. This is our own publication available in English, German, French, Italian, Spanish and Russian from your SINAR agency or directly from SINAR LTD SCHAFFHAUSEN, CH-8245 Feuerthalen.

The same author has also produced a home study course which familiarises you with the SINAR and its practical scope – either before or after you buy the camera.

sinar

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