

sinar. rePro



User Manual

Thank You!

Congratulations on your purchase of this high-quality Sinar product. It was carefully manufactured by using top quality material and thoroughly tested for performance and reliability. We are very pleased you have chosen Sinar and thank you for your confidence.

Sinar combines highest demands on technology, materials, design and ease of operation. This equally applies to professional cameras, electronics and accessories.

Before use, please read the operating instructions carefully to correctly operate the Sinar rePro camera and fully benefit from all the possibilities and advantages.

Index

1.	Scope of Delivery	4
2.	General Information	4
3.	Mounting of Digital Backs	5
4.	Mounting of Lenses	6
5.	Mounting on a Reproduction Stand	7
6.	Adjusting on a Reproduction Stand	8
7.	Horizontal Shifting of the Rear Standard	9
8.	Sinar rePro: Coarse and Fine Focusing	10
9.	Sinar rePro RC: Motorized Focusing	11
10.	The Bellows Lens Hood	14
11.	The Polarization Filter	15
12.	Technical Data	16
13.	Accessories	17
14.	Sinar Core Products	19

1. Scope of Delivery

2. General Information

Scope of Delivery rePro	<ul style="list-style-type: none"> 1x Case 1x Sinar rePro incl. Multipurpose Bellows 100 EL 1x Universal Adaption 1x Allen key® 1x User Manual
--------------------------------	---

Scope of Delivery rePro RC	<ul style="list-style-type: none"> 1x Case 1x Sinar rePro RC incl. Multipurpose Bellows 100 EL long 1x Sinar rePro RC Control 1x Control Cable 3 m 1x Power Supply 1x Universal Adaptation 1x Allen key® 1x User Manual
-----------------------------------	---

General Information The Sinar rePro is compatible with the view camera system, so that the accessories for the Sinar p3 camera can be used.

A red screw has been added to the front coupling frame of the Sinar rePro Camera being used as lens board holder. Sinar Photography AG emphasizes the importance of this additional lens board holder in order to avoid accidental dropping of the lens by careless operation of the locking and opening mechanisms of the coupling frame, which may result in the damage of the lens.

Sinar Photography AG will not be liable for any damage on subjects to be captured, especially those resulting from dropping.



Sinar rePro RC Camera System



Sinar rePro/rePro RC Case, empty



Sinar rePro/rePro RC Case, packed with the camera

3. Mounting of Digital Backs

Mounting of Digital Backs

The Sinar rePro Camera is supplied without adaptation for digital backs. Sinar Photography AG offers separate adaptations for Sinar, Phase One, Leaf or Hasselblad Digital Backs as follows:

552.45.033	SB 54M-86H/Sinar p3 Adapter Kit
556.64.030	Sinar p3/Hasselblad V Adapter Kit
556.64.032	Sinar p3/Hasselblad H Adapter Kit
556.64.036	Sinar p3/Mamiya 645 AF Adapter Kit

The rear coupling frame for the Sinar rePro is equipped with a snap lock, so that no tools are required to mount the adaptations plates. The adaptation plates are placed on the lower edge of the frame and then latched in place on the upper edge of the coupling frame.

Sinar recommends testing the secure placement by checking the frame manually.



1 Detaching the bellows

The latching of the bellows is released by pressing the button on the top left side of the coupling frame.

2 Detaching the adaptation plate

The latching of the adaptation plate is released by pressing the button on the top right side of the coupling frame.



3 Snap Lock

4. Mounting of lenses

Mounting of lenses

The Sinar rePro Camera is supplied without lens. Sinar Photography AG offers a wide range of Sinaron digital lenses with different focal length and various shutter systems. In addition lenses from other suppliers can be used with Sinar rePro. For such lenses Sinar offers the respective lens boards and the assembling.

The front coupling frame of the Sinar rePro Camera is equipped with a snap latch, so no tools are required for the attachment of the lens. The lens board is placed on the lower edge of the frame and then latched in place at the upper edge of the coupling frame. Sinar recommends testing the secure placement by checking the frame manually.

Sinar recommends testing the secure placement by checking the frame manually.



1 Detaching the lens

The lens is detached by pressing the button on the top left side of the coupling frame. Before pressing the left release button the red screw must be unscrewed.

2 Detaching the bellows

The bellows is released by pressing the button on the top right side of the coupling frame.



3 Lens board holder

This red screw serves as lens board holder to secure the lens. Before attaching the lens the lens board holder must be unscrewed. When the lens is in place the lens board holder must be screwed again.

4 Snap Lock

5. Mounting on reproduction stands

Mounting Sinar rePro on reproduction stands

The Sinar rePro Camera is supplied with a universal tripod adaptation that can be mounted on any tripod or stand that is equipped with a $\frac{1}{4}$ " or $\frac{3}{8}$ " mounting thread.

For attachment to camera stands from Foba or Kaiser, Sinar offers optional adaptation plates – see chapter 6.



The universal as well as the Foba and Kaiser adaptations can be mounted on both the front and the rear standard.



6. Adjustment

Adjustment of Sinar rePro on reproduction stands

With the Sinar Fine Adjustment Plates for Foba or Kaiser the centering of the Sinar rePro camera by means of vertical and horizontal alignment is possible.

491.11.012 Foba Fine Adjustment Plate

491.11.014 Kaiser Fine Adjustment Plate

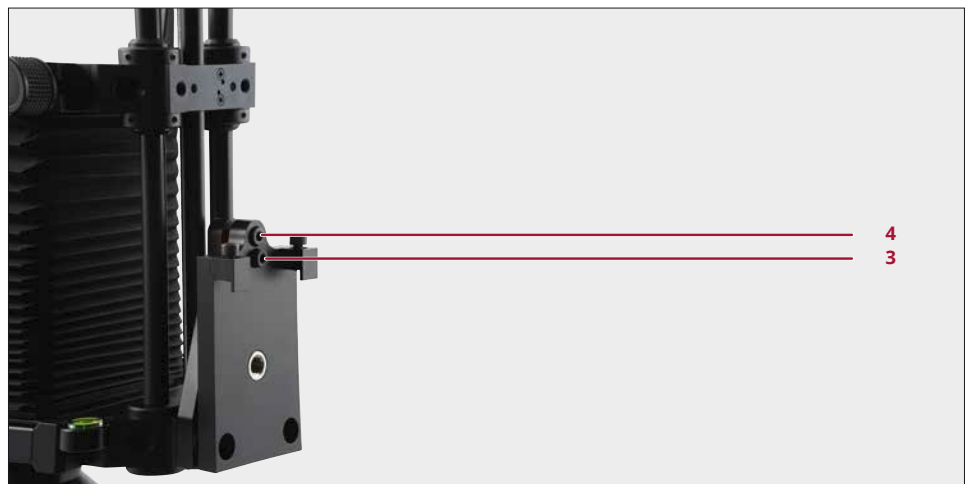
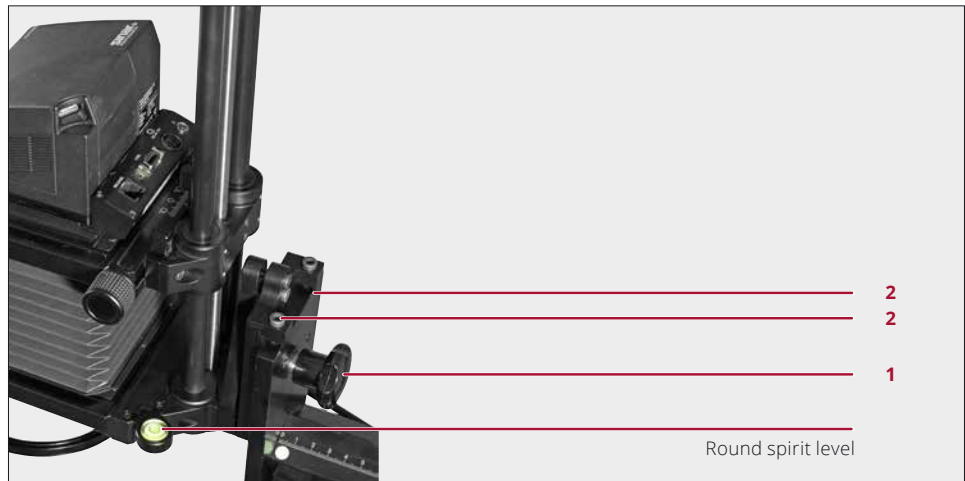
A round spirit level is used for alignment of the Sinar rePro Camera as follows:



Foba Fine Adjustment Plate



Kaiser Fine Adjustment Plate



1
Mount the camera onto the camera stand.
Do not tighten the tripod attachment screw yet.

2
For the horizontal alignment adjust the Allen head screws until the bubble of the spirit level is in the centre.

3
For the vertical alignment adjust the Allen head screws until the bubble of the spirit level is exactly positioned in the centre.

4
Lock the alignment position by tightening the screw.

1
Tighten the tripod attachment screw .

7. Horizontal Shifting of the Rear Standard

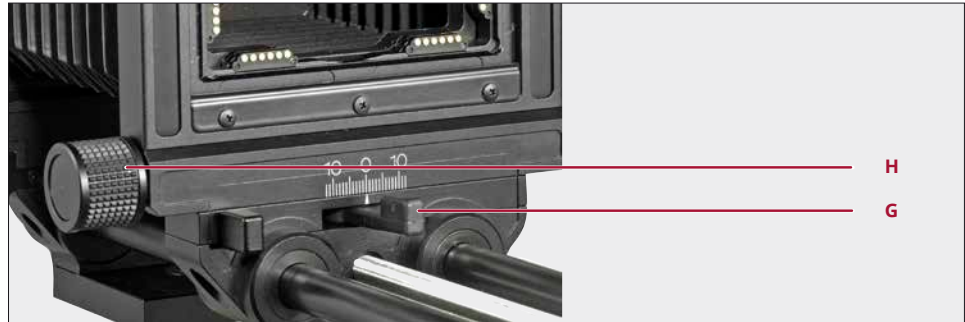
Horizontal Shifting

For horizontal shifting of the rear standard move the locking device (**G**) to the left.

Turning the knob (**H**) moves the rear standard and therefore the digital back to the favored position. To fix the position move the locking device (**G**) to the right.

The horizontal shifting helps to avoid undesired reflections.

Please do not forget to engage the locking device.



8. Sinar rePro: Coarse and Fine Focusing

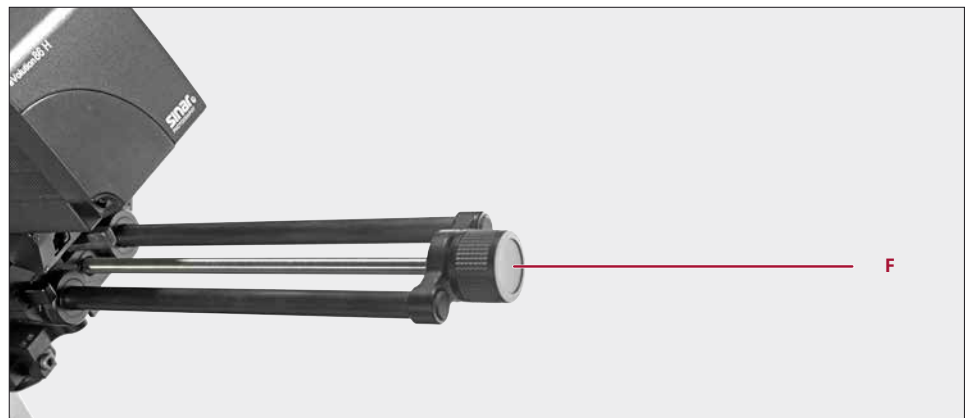
Coarse Focusing

Coarse focusing is accomplished by movement of the rear standard along the optical axis. The standard can be moved into the coarse focusing position by pressing the swinging lever (E) to the left. Releasing the swinging lever keeps the rear standard in the actual position.



Fine Focusing

Precise fine focusing is performed by turning knob (F) at the back and also at the front of the camera. Depending on the position of the stand adaptation (front or rear standard) the focusing knob at the back or in the front of the camera is used. A full turn of the fine focusing knob effects a movement of 0.5 mm.



9. Sinar rePro RC: Motorized Focusing

Installation

Connect the Sinar rePro RC with the Sinar rePro RC Control by using the control cable supplied with the camera. Connect the Power Supply (supplied with the camera) to the Sinar rePro RC Control.



Safety arrangements

The maximum bellows extension and the minimum distance of the standards are controlled by built-in sensors. Thus neither the bellows nor the lens or digital back can be damaged.

On the front standard there is a protective cap (G) covering a screw which can be used for manual movements of the rear or front standard. Please use only in emergency cases when the motorized movements are not possible.



Please use only in emergency cases when the motorized movements are not possible.

9. Sinar rePro RC: Motorized Focusing

Operating of Sinar rePro Control

The Sinar rePro Control is equipped with 2 keys for focusing on infinity and for close-up range. A short tip on the keys moves the standards forward or backward slowly in short steps. Keeping the keys pressed for 3 sec the speed for the movement switches from slow to fast.



For remote control via Sinar CaptureFlow (Version 1.4) the Sinar rePro Control is equipped with a USB Interface.



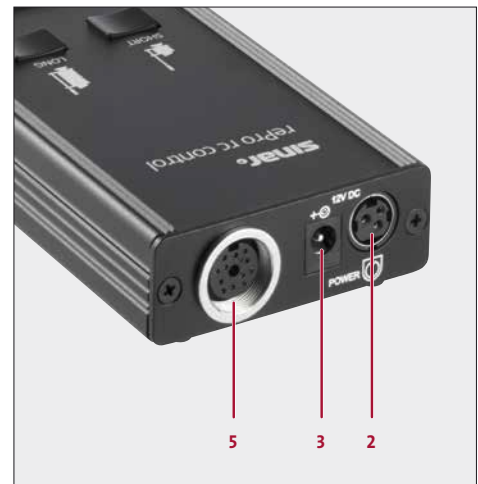
9. Sinar rePro RC: Motorized Focusing

Connections

Sinar rePro Control

The Sinar rePro Control is used to control the movements of the camera standards and to power the motor.

The Sinar rePro Control is equipped with 2 keys for focusing on infinity (**A**) and for close-up range (**B**).



1
USB socket

2
Socket for Sinar Power Supply

3
Socket for standard power supply
(according specifications)

4
Readiness LED

5
Socket for control cable to camera

10. The Bellows Lens Hood

The Bellows Lens Hood

The following accessories are required for attaching the Sinar Bellows Lens Hood:

547.81.0xx	Lens Adapter Ring
452.16.010	Tapered Bellows 4x5/100
472.41.000	Rod Holder 100
472.51.010	Joint Rod 2
473.31.000	Bellows Holder Clip
473.41.000	Bellows-/Filter Holder 100

(Does not apply when using the LC Shutter 551.65.020)

The Bellows Lens Hood meets the important quality-enhancing aspect of reducing or totally eliminating laterally incident stray light. Sinar Photography strongly recommends the usage of a bellows lens hood..



11. The Polarization Filter

Attaching the Polarization Filter

The following accessories are required for attaching the Polarization Filter:

546.31.010	Swiveling Circular Polarization Filter
472.41.000	Rod Holder 100
472.71.000	Rod medium 16 cm



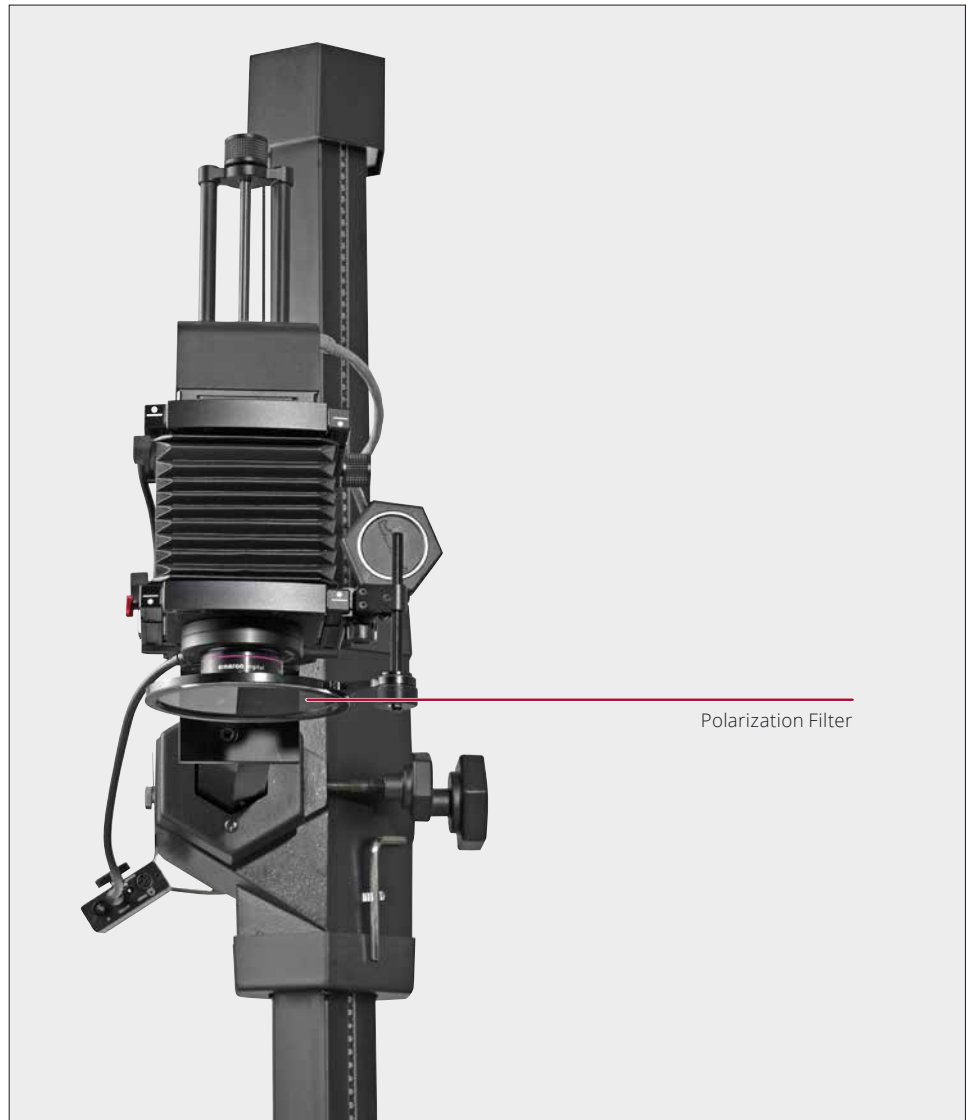
Swiveling Circular Polarization Filter



Rod Holder 100



Rod medium 16 cm



Polarization Filter

12. Technical Data

Sinar rePro	Shifts	+12/-12 mm horizontally
	Alignment tools	1 spirit level for all axes
	Adaptation for digital backs	Sinar, Leaf, Hasselblad V/H, Phase One, Mamiya 645 AFD
	Stand/Tripod attachment	Universal Adaptation, Foba and Kaiser adjustable adaptations plates
	Dimensions	40 x 19 x 14 cm
	Weight	2.2 kg
	Lenses	Sinaron lenses in CMV, CPL and Sinar eShutter Third-party lenses mounted on Sinar Lens Board 100

Sinar rePro rc	Shifts	+12/-12 mm horizontally
	Alignment tools	1 spirit level for all axes
	Adaptation for digital backs	Sinar, Leaf, Hasselblad V / H, Mamiya 645 AFD
	Stand/Tripod attachment	Universal Adaptation, Foba and Kaiser adjustable adaptations plates
	Dimensions	48 x 19 x 14 cm
	Weight	2.5 kg
	Lenses	Sinaron lenses in CMV, CPL and Sinar eShutter Third-party lenses mounted on Sinar Lens Board 100
	Power Supply	12 V, 3 A

13. Accessories



491.11.012
Foba Adjustment Plate



491.11.014
Kaiser Adjustment Plate



711.01.000
Sinar Parallels



491.11.262
Control Cable 10 m



491.11.261
Control Cable 3 m (Spare Part)



552.45.033
Adaptation Sinar Digital Back



546.31.010
Swiveling Circular Polarization Filter

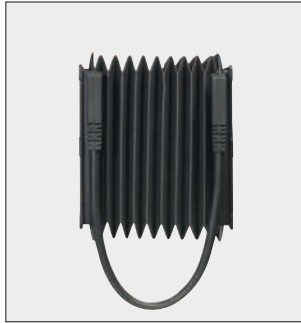


547.81.0xx
Lens Adapter Ring

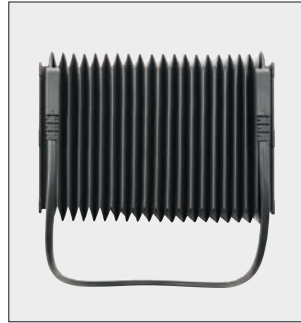


473.41.000
Bellows / Filter Holder 100

13. Accessories



454.12.000
Multipurpose Bellows 100 EL



454.12.001
Multipurpose Bellows 100 EL, long



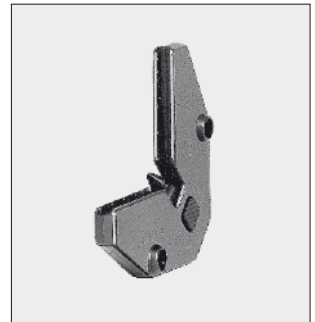
452.16.010
Tapered Bellows 4x5 / 100



472.51.010
Joint Rod 2



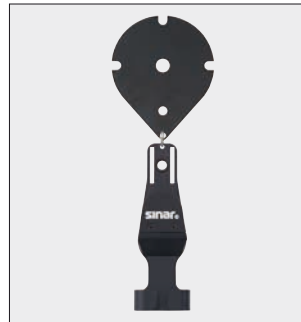
472.41.000
Rod Holder 100



473.31.000
Bellows Clip



472.61.000 – Rod 11cm
472.71.000 – Rod 16cm
472.81.000 – Rod 25cm



581.01.001
Strain Relief

14. Sinar Core Products



Sinar p3



Sinar p-sl



Sinar lanTec



Sinar arTec



Sinar eXact digital back



Sinar eShutter



Flexibility and Creativity

For more than 65 years, Sinar is the leading manufacturer of view camera systems for professional photography. Sinar stands for exquisite camera precision made in Switzerland as well as for ergonomic design and unlimited creative freedom. All relevant elements for composing the image are available, like swings and tilts or horizontal and vertical shifts. The consistently modular products include digital capture devices, digital lenses, capture software and view cameras. Sinar customers profit from solutions designed as complete imaging systems supplied and supported from a single source. This system approach makes the difference and delivers superb image quality. In-house manufacturing, expert know-how in fine mechanics and interaction with specialized suppliers meet the highest demands and ensure best possible products with excellent long-term reliability. Continuous new and further developments guarantee the integration of modern and coming technologies into the flexible Sinar product range.