

**FCC Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:**

To assure continued compliance, follow the attached installation instructions and use only shielded interface cables with ferrite core when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**Declaration of Conformity**

Trade Name: **Sinar**

Model No.: **Sinar eControl**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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## WARNING MESSAGES

Modern electronic components react sensitively to electrostatic discharge. As you can easily pick up charges of tens of thousands of volts by walking on synthetic carpets, for example, a discharge can occur when you touch your Sinar eControl, particularly if it is lying on a conductive surface. If only the housing is touched, this discharge is harmless to the electronics. However, despite built-in safety circuits, outer contacts of the Sinar eControl, for safety reasons, should not be touched at all, if possible.

For any cleaning of the contacts, please do not use an optical microfiber cloth (synthetic); use a cotton or linen cloth instead! Before touching the contacts, make sure you discharge any electrostatic charge by deliberately touching a heating or water pipe (conductive, earthed material).

Use only the recommended accessories to prevent faults, short circuits or electric shock. Do not attempt to remove parts of the Sinar eControl (covers); qualified repairs can be carried out only at authorized service centers.

## LEGAL INFORMATION

Please ensure that you strictly observe copyright laws. The recording and publication of pre-recorded media such as tapes, CDs, or other published or broadcast material may contravene copyright laws. This also applies to all the software supplied. The USB logos are trademarks of the respective owners. Other names, company and product names referred to in these instructions are trademarks or registered trademarks of the relevant companies.

The CE identification of our products documents compliance with the fundamental requirements of the respective valid EU directives.

## DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT



**(Applies within the EU, and for other European countries with segregated waste collection systems.)**

**This device contains electrical and/or electronic components and should therefore not be disposed of in general household waste. Instead it should be disposed of at a recycling collection point provided by the local authority. This costs you nothing. If the device itself contains replaceable (rechargeable) batteries, these must be removed first and, if necessary, also be disposed of in line with the relevant regulations. Further information on this issue is available from your local administration, your local waste collection company, or in the store where you purchased this device.**

**PURPOSE OF USE AND CONTROL OPTIONS**

The Sinar eControl is needed to control and power a Sinar eShutter mounted on a Sinaron Digital lens. The Sinar eControl can either be powered with a rechargeable on-board battery or, alternatively, with an external AC adapter.

- a. A Sinar eShutter can conveniently be controlled with the Sinar eControl without the need of any computers or other smart devices (stand-alone operation).
- b. A Sinar eShutter can conveniently be remote-controlled by the *Sinar eShutter Remote App* that is installed on a smartphone/tablet (iOS / Android). For this, the Sinar eControl has to be connected to a computer via an USB cable.
- c. Alternatively, a Sinar eShutter can be controlled via USB interface from the desktop application *Sinar eShutter Control* (available for Mac OS X and Windows)
- d. For most convenient use, a Sinar eShutter can be controlled from the capturing and workflow software *Sinar CaptureFlow* that is installed on a Mac computer. This option is only possible when also a Sinarback capturing device is connected.

For further details see chapter “Configurations (overview)” on page 10 and “System setup and operation” on page 18.

**SCOPE OF DELIVERY**

- *Sinar eControl*
- *Rechargeable Battery*
- *Battery charger*
- *Short Instructions*
- *Warranty booklet*

**MEANING OF THE DIFFERENT NOTE CATEGORIES IN THIS MANUAL:****Note:**

Additional information

**Important:**

Failure to observe the instructions may cause damage to the digital back, camera, accessories or the photos.

**Caution:**

Failure to observe the instructions may cause personal injury.

**RECHARGEABLE BATTERY**

The Sinar eControl is powered by a lithium ion battery. Alternatively, the Sinar eControl can also be powered with an AC adapter (item no. 16041)

**Important:**

Please use only the Leica battery S BP-PRO1 (item no. 16039).

**Caution:**

- Only the battery type specified and described in this manual, or battery types specified and described by Sinar Photography AG, may be used in this digital back.
- These batteries may only be used in the units for which they are designed and may only be charged exactly as described below.
- Using this battery contrary to the instructions and using non-specified battery types can result in an explosion under certain circumstances!
- The batteries must not be exposed to sunlight or heat for prolonged periods, or to humidity or moisture. Likewise, the batteries must not be placed in a microwave oven or a high pressure container as this results in a risk of re or explosion!
- Damp or wet batteries must not be charged or used in the camera under any circumstances!
- Always ensure that the battery contacts are clean and freely accessible. Whilst lithium ion batteries are proofed against short-circuit, they should still be protected against contact with metal objects such as paper clips or jewelry. A short-circuited battery can get very hot and cause severe burns.
- If a battery is dropped, check the casing and the contacts immediately for any damage. Using a damaged battery can damage the camera.
- In case of noise, discoloration, deformation, overheating or leaking fluid, the battery must be removed from the camera or

charger immediately and replaced. Continued use of the battery results in a risk of overheating, which can cause re and/or explosion!

- In case of leaking fluid or a smell of burning, keep the battery away from sources of heat. Leaked fluid can catch fire!
- Only the charger specified and described in these instructions, or other chargers specified and described by Sinar Photography AG, may be used. The use of other chargers not approved by Sinar Photography AG can cause damage to the batteries and, in extreme cases, can cause serious or life-threatening injuries.
- The charger supplied should be used exclusively for charging this battery type. Do not attempt to use it for other purposes.
- Ensure that the power socket used is freely accessible.
- The car charging cable supplied must never be connected while the charger is connected to the mains.
- Battery and charger must not be opened. Repairs may only be carried out by authorized service centers.
- Keep batteries out of the reach of children. Batteries can cause suffocation if swallowed.

**First Aid:**

- If battery fluid comes into contact with the eyes, there is a risk of blinding! Rinse the eyes immediately with clear water. Do not rub the eyes!
- Obtain medical assistance immediately.
- If leaked fluid gets onto the skin or clothing, there is a risk of injury. Wash the areas concerned with clear water. Obtain medical assistance.

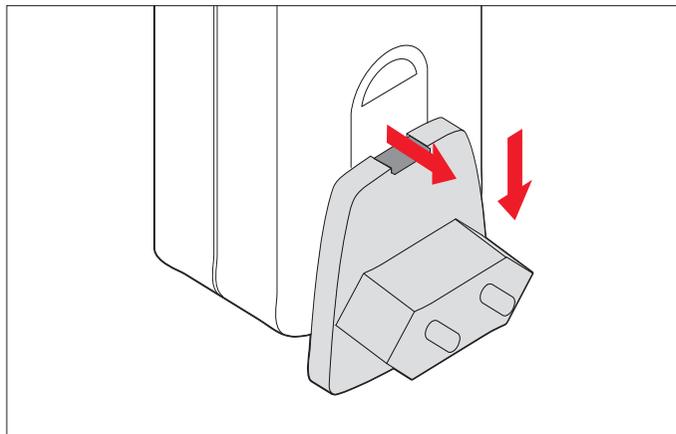
**Notes:**

- The battery must have a temperature of +10° to +30°C (50° to 86°F) to be charged (otherwise the charger will not turn on, or will turn off again).
- Lithium ion batteries can be charged at any time, regardless of their current charge level. If a battery is only partly discharged when charging starts, it is charged to full capacity faster.
- A new battery only reaches its full capacity after it has been fully charged and – by use in the digital back – discharged again 2 or 3 times. This discharge procedure should be repeated roughly every 25 cycles.
- Both battery and charger become warm during charging. This is normal and not a malfunction.
- If the two LEDs flash rapidly (faster than twice per second) after the start of charging, this indicates a charging error (e.g. maximum charging time exceeded, voltages or temperatures outside the permitted ranges, or short circuit). In this case, disconnect the charger from the mains and remove the battery. Ensure that the above temperature conditions are met and then restart the charging process.
- If the problem persists, please contact your dealer, the Sinar dealer in your country or Sinar Photography AG.
- Lithium ion batteries should only be stored partly charged, i.e. not when fully discharged or fully charged. For very long storage periods, you should charge the battery for approx. 15 minutes roughly twice a year to avoid a deep discharge.
- Rechargeable lithium ion batteries generate power through

internal chemical reactions. These reactions are also influenced by the ambient temperature and humidity. To ensure a maximum service life of the battery, it should not be exposed to constant extremes of temperature (e.g. in a parked car in the summer or winter).

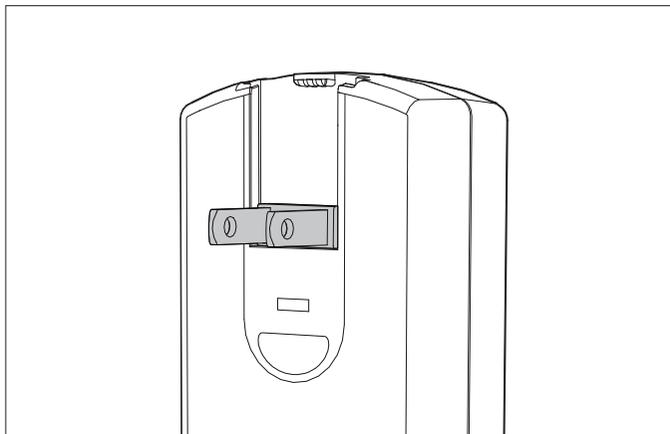
- Even when used under optimum conditions, every battery has a limited service life! After several hundred charging cycles, this becomes noticeable as the operating times become significantly shorter.
- Dispose of damaged batteries in accordance with the relevant regulations (see p. 6, 56) at an approved collection point for proper recycling.
- The replaceable battery provides power to a back-up battery which is permanently fitted in the Sinarback. This back-up battery retains the set time and date for up to 3 months. If this back-up battery becomes discharged it must be recharged by inserting a charged main battery. Once the replaceable battery has been inserted, the full capacity of the back-up battery is recovered after about 60 hours. This process does not require the Sinarback to be turned on. In this case, however, the time and date have to be set again.
- Remove the battery if you will not be using the camera for a long period of time. When doing so, turn the Sinarback off using the main switch first. Otherwise after several weeks the battery could undergo deep discharge, i.e. the voltage is sharply reduced, as the Sinarback still consumes a small amount of current (e.g. for saving your settings).

## For the use outside the USA



1. Insert the appropriate plug for the local mains power supply into the charger. To do this, push up
  - a. the release button and at the same time push
  - b. the plug down out of its engaged position.
2. It can then be removed completely downwards.
3. Push the appropriate plug variant into the charger from below until it engages.

## For the use in the USA

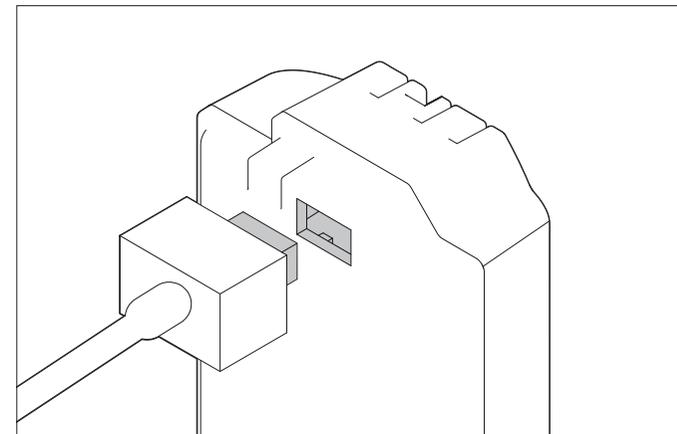


1. Remove the mains plug fitted at the factory from the charger. To do this, push up
  - a. the release button and at the same time push
  - b. the plug up out of its engaged position.
2. The two pins of the USA plug that are normally horizontal when not in use can be folded out.

**Notes:**

The charger switches automatically to the prevailing mains voltage. In combination with the car charging cable supplied with the charger, it can be used in all vehicles with 12 V and 24 V power systems. In this case again, it switches over automatically.

## Connection of the charger



1. Connect the charger, i.e. insert its cable plug into the socket of the battery and insert the mains plug into a plug socket.
  - The green LED marked CHARGE then starts to flash as confirmation that charging is in progress.
  - As soon as the battery has charged to at least 80% of its capacity, the orange LED marked 80% also lights up.
  - When the battery has been completely charged, after approx. 3.5 hours, 100% capacity has been reached, the green CHARGE LED changes from flashing to a steady light.

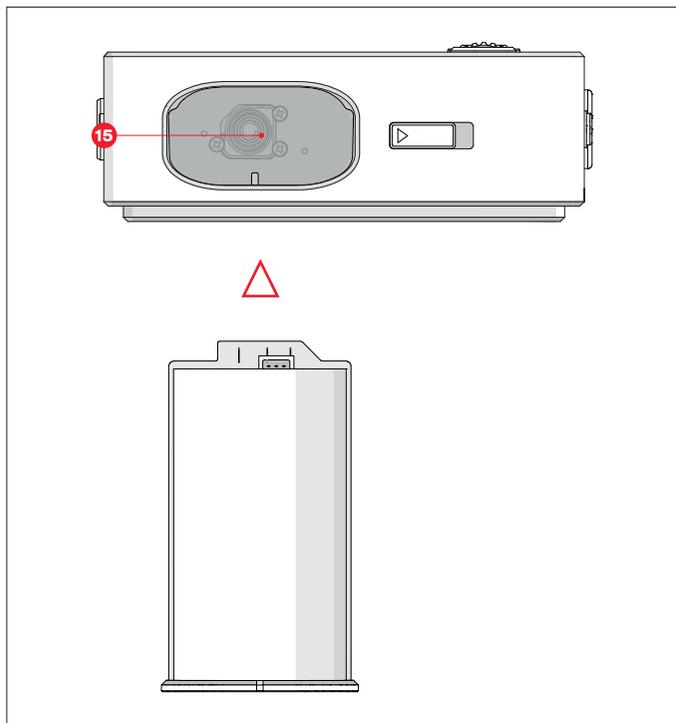
**Notes:**

- Due to the charging characteristics, the 80% LED lights up after about 2 hours. If for the time being the full capacity of the battery is not required, the Sinar eControl can be ready for operation again in a relatively short time.
  - The steady light of the green CHARGE LED indicates that the charger has automatically switched to trickle charging.
2. The charger should then be disconnected from the mains power supply. There is, however, no risk of overcharging.

**Preparations**

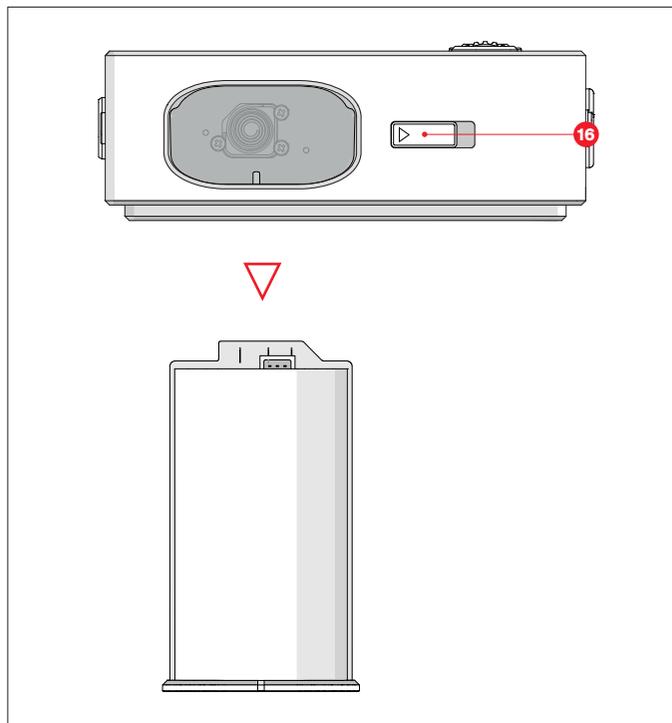
Turn off the Sinar eControl, i.e. set the main switch **6** to OFF (o).

**Insertion**



Push the battery with the contacts facing downward and with its guide groove facing the rear of the Sinar eControl fully into the battery compartment **15**. It engages automatically in this position.

**Removal**



1. Before removing the rechargeable battery switch off the Sinar eControl → set the ON/OFF switch **6** to o.
2. Push the release slide **16** in the direction of the arrow until it stops
  - A spring in the battery compartment then pushes the battery approx. 1 cm out.
  - The locking mechanism has a retention so that the battery cannot accidentally fall out.
3. Push the battery approx. 1 mm back to disengage the retention, and
4. then pull it out of the compartment or, if the Sinar eControl is held upside-down, allow the battery to slide out into your hand.

**Charge level displays**

Monitor	Charge status
	approx. ≥ 85%
	approx. ≥ 65%
	approx. ≥ 40%
	approx. ≥ 20%
	approx. ≥ 5%
	approx. ≤ 5%, replacement or recharging of the battery necessary

**AC Adapter**

In case an AC Adapter (item no. 16041) is being used, the procedure for inserting the AC Adapter into, and removing it from the Sinar eControl is the same as when working with a rechargeable battery.

The Sinar eControl can be used as follows:

**a. Sinar eControl Stand-alone:** All images can be captured without the need of any computers or mobile smart devices. Everything is controlled and all parameters are set on the Sinar eControl, and the image data are stored on the digital back.

**b. Sinar eControl connected to a computer, controlled by an app from a computer's desktop:** To capture images, the Sinar eControl is connected with a computer via a USB cable. Everything is controlled and all parameters are set on the Sinar eShutter Control App that is installed on a computer (Mac/Windows). All image data are stored on the digital back or on the computer.

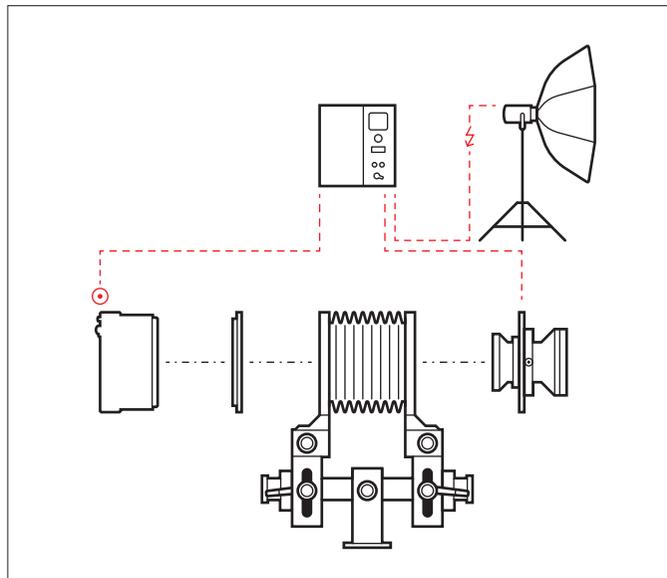
**c. Sinar eControl connected to a computer, controlled by a mobile app, and from an app on a computer's desktop, alternatively:** To capture images, the Sinar eControl is connected with a computer via a USB cable. Everything is controlled and all parameters are set on the *Sinar eShutter Control App (mobile)* that is installed on a smart mobile device (iOS/Android), and, alternatively, from the *Sinar eShutter Control App (desktop)* that is installed on a computer (Mac/Windows). All image data are stored on the digital back or on the computer.

**d. Sinar eControl with a Sinarback S 30|45:** To capture images, the Sinar eControl is connected with a computer via a USB cable. Everything is controlled and all parameters are conveniently set on the capturing and workflow software *Sinar CaptureFlow* that is installed on a computer (Mac). All image data are stored on the digital back or on the computer.

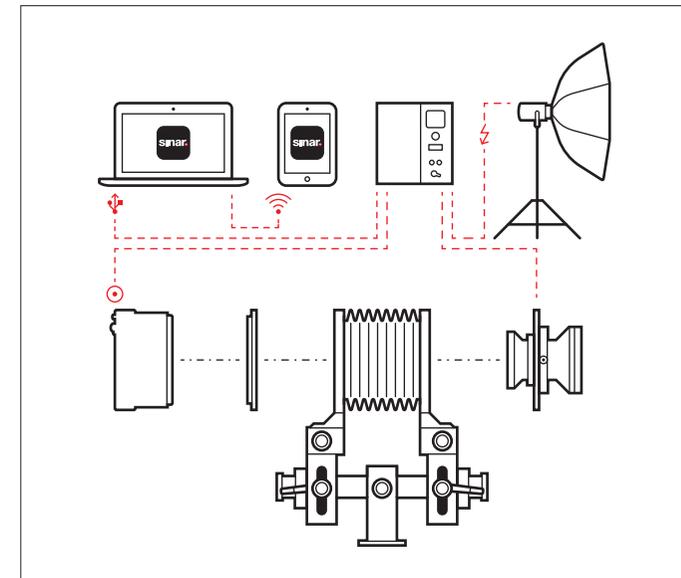
**Note**

For detailed information about installation and operation of the above configurations see chapter "System setup and operation" on page 18.

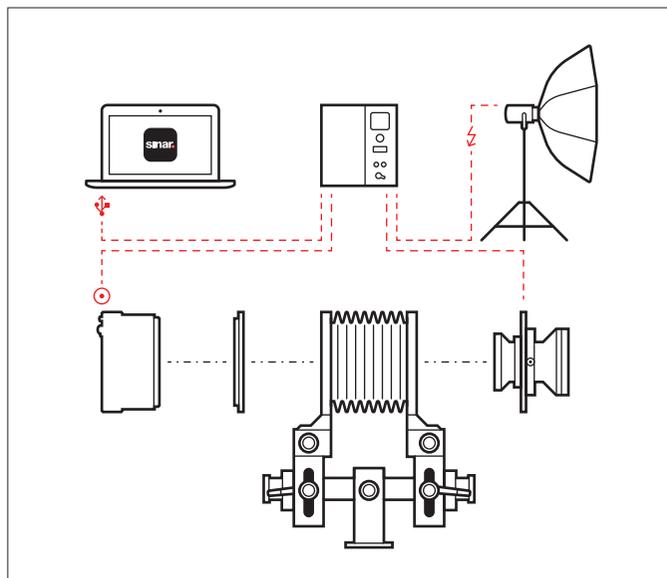
**a. Sinar eControl – STAND ALONE**



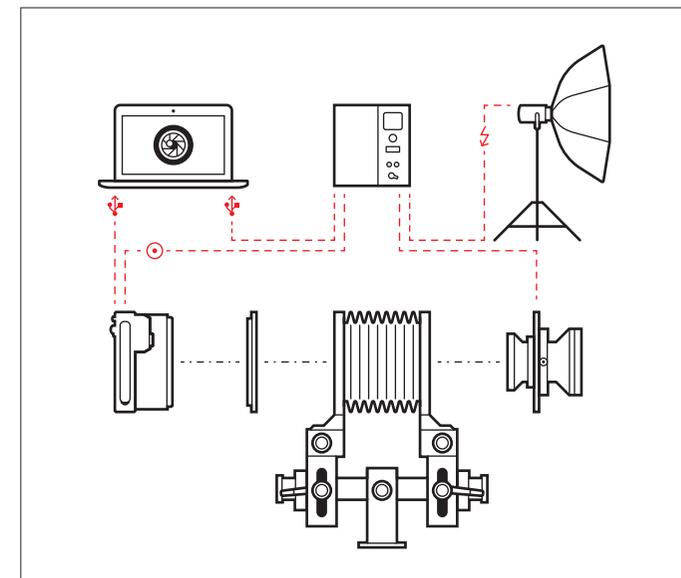
**c. Sinar eControl – controlled by MOBILE APP / DESKTOP APP**

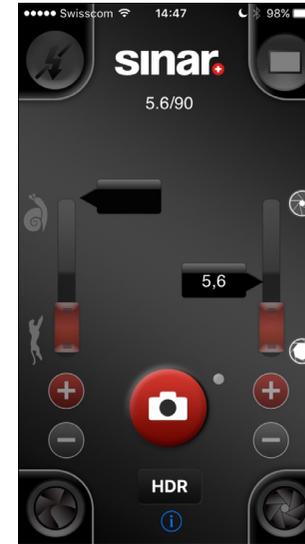


**b. Sinar eControl – controlled by DESKTOP APP**



**d. Sinar eControl – with Sinarback S 30|45**



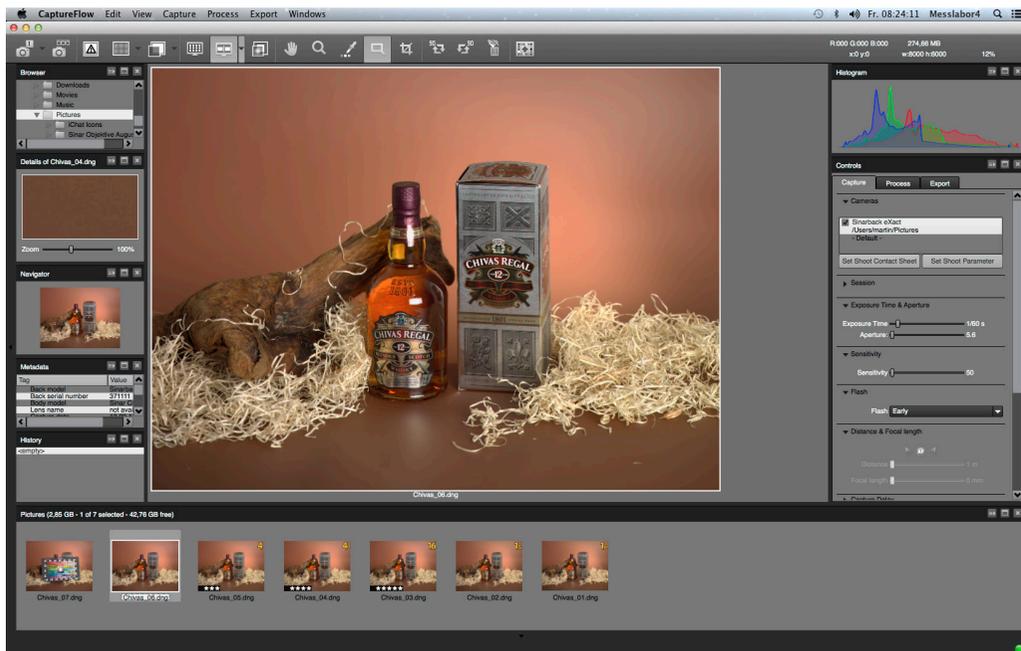


← Sinar eShutter Control App for macOS

← Sinar eShutter Control App for Windows

← Sinar eShutter Control App for Android

← Sinar eShutter Control App for iOS



← Sinar CaptureFlow

## DOWNLOADS

### a. Sinar eShutter Control App (for Mobile Device)

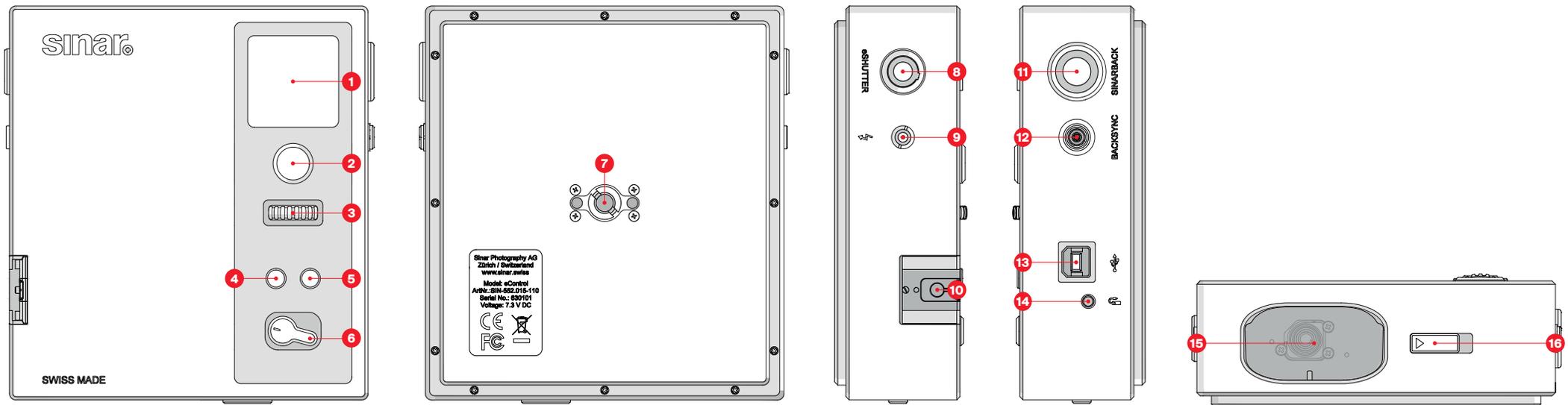
The *Sinar eShutter Control* for smart mobile devices can be downloaded from the **Apple® App Store** for iOS devices, and from the **Google® Play Store** for Android devices, respectively.

### b. Sinar eShutter Control App (for Desktop)

The *Sinar eShutter Control* desktop application for Mac and Windows, respectively, can be downloaded from the **Sinar website**: [www.sinar.swiss](http://www.sinar.swiss) → Support → Download → Software

### c. Sinar CaptureFlow

The *Sinar CaptureFlow* capturing and workflow software for Mac can be downloaded from the **Sinar website**: [www.sinar.swiss](http://www.sinar.swiss) → Support → Download → Software



- 1 – Display
- 2 – Release Button
- 3 – Thumbwheel with KeyFunction
- 4 – Aperture Button
- 5 – Shutter Button
- 6 – On/Off Switch
- 7 – Tripod Connection  $\frac{3}{8}$ " with  $\frac{1}{4}$ " Bushing
- 8 – LEMO® Connector eShutter
- 9 – X-Sync Connector (Flash)
- 10 – Hotshoe (Flash)
- 11 – LEMO® Connector Sinarback S 30|45
- 12 – Sync Connector to third-party Digital Backs
- 13 – USB 2.0 (B)
- 14 – 2.5 mm Jack
- 15 – Rechargeable Battery Compartment
- 16 – Battery Unlocking Slider

**1 Display**

For all the displayed symbols and their meanings see chapter “The Display” (page 14)

**2 Release button**

The release button has two stages:

1. stage = reset
2. stage = shutter release / capture interrupt

When the Sinar eControl is connected to a computer the function of this button is disabled.

When *Single exposure* **22** is selected, holding the Release button pressed will trigger exposures as long as the Release button is kept pressed.

**3 Thumbwheel with key function**

The thumbwheel with key function has two ways of operation.

- a. Turning the thumbwheel to the right or to the left will alter the value or the setting of the selected function. The currently selected function is marked with an arrow (see picture above)
- b. Pressing the thumbwheel *briefly* will select the next function (moving clockwise on the display)
- c. Pressing the thumbwheel for *longer* than 1 second will display a sub-menu with further settings
- d. While taking exposures, or when the Sinar eControl is connected to a computer, the function of the thumbwheel is disabled.

**4 Aperture button**

Pressing this button will fully open the aperture. By pressing it once more, the aperture will stop down to the preset working aperture.

While taking exposures, or when the Sinar eControl is connected to a computer, the function of this button is disabled.

**5 Shutter button**

Pressing this button will fully open the shutter and the aperture. By pressing it once more, the shutter will close completely and the aperture will return to the preset working aperture.

While taking exposures, or when the Sinar eControl is connected to a computer, the function of this button is disabled.

**6 ON/OFF switch**

Main switch: ON = ●, OFF = ○

When switched on with a lens already been plugged-in, the lens will be referencing.

**7 Tripod connection 3/8" / 1/4"**

The Sinar eControl is delivered with a tripod thread of 3/8" and a reduction bushing to 1/4". The reduction bushing can easily be removed with the help of a medium sized screw driver or a coin. The depth of the blind hole thread is 6.0 mm (0.24 inch).

**8 LEMO® Connector eShutter**

Connector to plug in the eShutter of the lens. To plug in, please make sure that the red marks on plug a connector match. When plugging in with the Sinar eControl switched on, the lens will be referencing.

**9 X-sync connector (flash)**

Connector to plug in the sync-cable to a flash power pack. Please note that the length of the flash sync cable should not exceed 3.0 m (10 ft).

**10 Hotshoe (flash)**

Accessory shoe with center (firing) contact and bore for locking pin.

**11 LEMO® Connector Sinarback S 30|45**

Connector for the direct communication with the Sinarback S 30|45 (currently not yet supported)

**12 Sync connector third-party digital backs**

Connector for the communication to third-party digital backs. Wake-up signal as well as the capture release signal are transmitted to the digital back.

**13 USB socket**

USB 2.0 port (type B) for a connection to a computer. With this connection, the data and control commands are passed from the computer to the Sinar eControl and thus to the lens that is equipped with a Sinar eShutter.

**14 2.5 mm Jack**

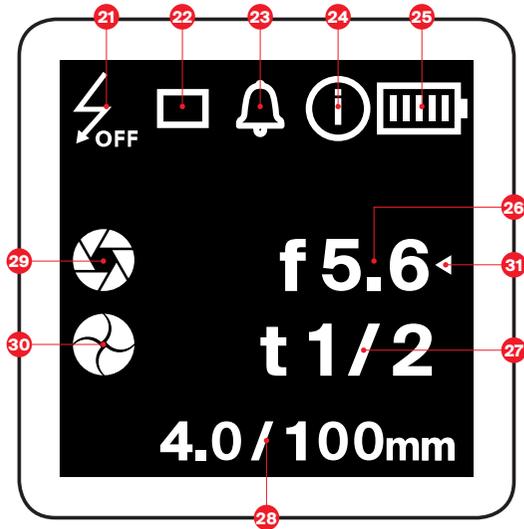
2.5 mm jack socket for third-party hand release cable. The function of this socket is disabled when a Sinarback S 30|45 is connected, and when the Sinar eControl is connected to a computer via USB, respectively.

**15 Rechargeable battery compartment**

How to insert and remove the rechargeable lithium ion battery see chapter “Charging the battery” (page 8). For further information about the rechargeable lithium ion battery see chapter “Rechargeable battery” (page 6)

**16 Battery unlocking slider**

This slider releases the mechanism that will allow to remove the rechargeable lithium ion battery. For further information about the removal of the rechargeable lithium ion battery see chapter “Charging the battery” (page 8)



- 21 – Flash setting
- 22 – Exposure setting
- 23 – Pre-delay (wake-up)
- 24 – Information
- 25 – Battery status
- 26 – Aperture
- 27 – Exposure Time
- 28 – Connected lens (max. aperture / focal length)
- 29 – Aperture status
- 30 – Shutter status
- 31 – Arrow = currently selected function

## SYMBOLS AND FUNCTIONS

### 21 Flash Setting

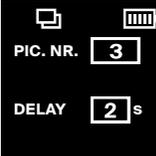
By turning the thumbwheel, the following flash triggering settings can be selected:

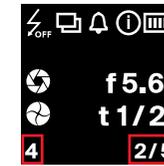
-  No flash
-  Early Flash  
Flash triggered on first curtain
-  Late Flash  
Flash triggered on second curtain

### 22 Exposure setting

By turning the thumbwheel, the following exposure settings can be selected:

-  Release single exposure  
When *Single exposure* is selected, holding the Release button **2** pressed will trigger exposures as long as the Release button is kept pressed.
-  Multiple exposures  
Up to 100 images can be captured in series.

-  When pressing the thumbwheel for longer than 1 second, a menu is displayed where the number of images to be taken (PIC.NR. 1 to 100), and the time delay between the images (DELAY 0 to 64 seconds) can be set.



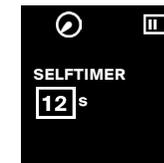
After having started the multi-exposure process, the following will be displayed:

- on the lower left corner: The time remaining till the release of the next exposure
- on the lower right corner: The *left* number informs about how many exposures have been taken so far (e.g. exposure 2 of 5). The *right* number informs about the number of exposures that will be taken in total.

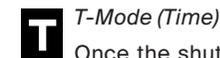


### Self-timer

Pre-setting the delay between the activation of the release button and the actual exposure.

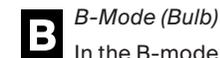


When pressing the thumbwheel for longer than 1 second, a menu is displayed where the time delay before the shutter release can be set (2 to 24 seconds)



### T-Mode (Time)

Once the shutter-release button **2** has been depressed, the T-mode keeps the shutter open until the shutter release is pressed again.

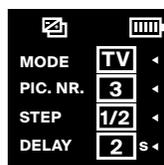


### B-Mode (Bulb)

In the B-mode the shutter is kept open as long as the shutter release button **2** is being pressed.

**Auto Bracketing**

Bracketing is the technique of taking several shots of the same subject using different camera settings. When pressing the thumbwheel for longer than 1 second, a menu is displayed where the following parameters can be set:



- MODE** Bracketing can be set by Aperture Variations (AV) or Time Variations (TV)
- PIC.NR.** Number of captures to be taken in bracketing mode (3, 5, or 7)
- STEP** Step size (increments) that can be selected: ½ EV, 1EV, 2 EV, and 3 EV
- DELAY** Time delay between the single exposures taken in bracketing mode (0 to 64 seconds)

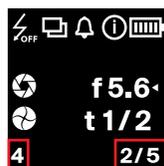
The image sequence is taken as follows (from underexposed to overexposed):

3 captures: - / 0 / +

5 captures: -- / - / 0 / + / ++

7 captures: --- / -- / - / 0 / + / ++ / +++

If the bracketing range is selected at the limit of the available aperture range of the lens, and no further exposure variation is possible, the exposure at the limit is repeated.



- After having started a bracketing exposure process, the following will be displayed:
- on the lower left corner: the time remaining till the release of the next exposure
  - on the lower right corner: The *left* number informs about how many exposures have been taken so far (e.g. exposure 6 of 20). The *right* number informs about the number of exposures that will be taken in total.



- in the center of the display: If *Aperture Variations* (AV) was selected: the aperture with which the current exposure is being taken. If *Time Variations* (TV) was selected: the exposure time with which the current image is being taken.

**23 Pre-delay (wake-up)**

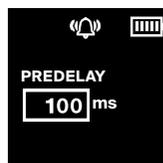
By turning the thumbwheel, the following pre-delay wake-up time for digital backs settings can be selected:



Pre-delay wake-up mode OFF



Pre-delay wake-up mode ON



When pressing the thumbwheel for longer than 1 second, a menu is displayed where the pre-delay time for the wake-up of a digital back can be set (10 to 1000 ms).

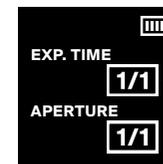
**24 Information**



Information



When pressing the thumbwheel for longer than 1 second, the current firmware version is displayed. If necessary, the current settings can be reset to factory default settings by selecting YES and then pressing the thumbwheel briefly.



When pressing the thumbwheel for longer than 1 second, a menu is displayed where the increments (step size) of the EXPOSURE TIME, and the APERTURE can be set, respectively. The following increments can be selected: ¼ EV, ½ EV, ⅓ EV, and ⅙ EV.

**25 Battery status**



Charge approx. ≥85%



Charge approx. ≥65%



Charge approx. ≥40%



Charge approx. ≥20%



Charge approx. ≥5%



Charge approx. ≤5%  
recharging or replacement of the battery necessary



An AC-Adapter is connected

**26 Aperture**

**f4.0** By turning the thumbwheel, the Aperture settings can be selected. The available range is given by the connected lens model.



When pressing the thumbwheel for longer than 1 second, a menu is displayed where the increments (step size) of the EXPOSURE TIME, and the APERTURE can be set, respectively. The following increments can be selected:  $\frac{1}{4}$  EV,  $\frac{1}{2}$  EV,  $\frac{1}{3}$  EV, and  $\frac{1}{6}$  EV.

**27 Exposure Time**

**t1/2** By turning the thumbwheel, the Exposure Time settings can be selected. The range is depending on the connected type of eShutter: 1/125 to 128 seconds, and 1/250 to 128 seconds, respectively.



When pressing the thumbwheel for longer than 1 second, a menu is displayed where the increments (step size) of the EXPOSURE TIME, and the APERTURE can be set, respectively. The following increments can be selected:  $\frac{1}{4}$  EV,  $\frac{1}{2}$  EV,  $\frac{1}{3}$  EV, and  $\frac{1}{6}$  EV.

**28 Connected lens**

The connected lens is displayed with its maximum aperture and its focal length.

**29 Aperture status**

*The lens' aperture is fully open*



*The lens' aperture is stopped down to the selected working aperture*

**30 Shutter status**

*The lens' shutter is open*



*The lens' shutter is closed*

**31 Arrow**

The arrow (triangle) on the display marks the currently selected function

By pressing the thumbwheel *briefly*, the selection arrow will jump to the next function (moving clockwise on the display)

## MESSAGES AND INDICATIONS

*Regular start screen*

Displayed when Sinar eControl is switched-on and a lens with a Sinar eShutter is connected. While displayed, the lens is being referenced.

*Connected to a computer via USB*

Displayed when the Sinar eControl is connected with a computer via USB cable and the Sinar eShutter is controlled by the desktop *Sinar eShutter Control App* (desktop app or mobile app). In this case the Sinar eControl has no function except for supplying power to the eShutter.

*No shutter*

Displayed when no eShutter is connected or is not being detected. Plug in a lens equipped with an eShutter.

*Connected with a Sinarback S 30|45*

Displayed when Sinar eControl is connected with a Sinarback S 30|45 and a computer, and the Sinar eShutter is controlled by the capturing program *Sinar CaptureFlow*. In this case the Sinar eControl has no other function than supplying power to the eShutter.

*Regular operation screen*

Displayed when the Sinar eControl is ready for operation and it is used in Stand-alone mode.

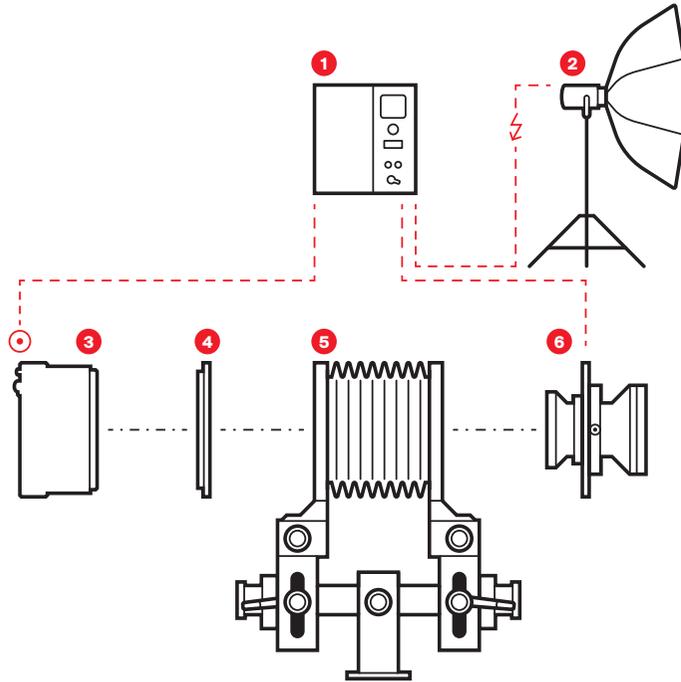
*Error eShutter*

Displayed when the connected eShutter is defective. Disconnect the eShutter. Check if any pins of the connector are damaged. Check if any of the shutter or aperture blades are damaged. If no problems can be seen, carefully re-insert the connector to the respective socket. If the error message persists, send the lens and eShutter to an authorized Sinar partner for inspection or repair.

*Battery empty*

Displayed when the battery charge is lower than 5%. Recharge or replace your battery with the corresponding battery type or insert the appropriate AC adapter. For details see chapter “Charging the battery” on page 8.

## SINAR eCONTROL STAND-ALONE



### Setting up the hardware

1. Attach your digital back and the Sinar eControl to the camera. The Sinar eControl can be attached to the tripod by means of the Sinar eControl Mounting Bracket item no. S08003 (optionally available).
2. To synchronize the digital back with the Sinar eControl, plug in the respective cable (see above drawing ) into the connector *BackSync* 12 and into the digital back.
3. Insert the rechargeable battery or the AC adapter into the Sinar eControl 16, and connect your digital back to a power source.
4. Plug in the lens that is equipped with a Sinar eShutter into the Sinar eControl 1.
5. Switch on your digital back
6. Set the ON/OFF switch 6 of the Sinar eControl to ● (ON)

### Note

- Flash power packs have to be connected to the Sinar eControl

### Capturing Images

7. Activate Live View at your digital back and compose your picture.
8. Select the desired Exposure setting 22 at the Sinar eControl.
9. Set Exposure time 27 and Aperture 26 at the Sinar eControl.
10. Take your capture by pressing the Release button 2 at the Sinar

### Note

- The image data is stored on a memory card inside the digital back

 – Flash connection

 – Trigger Cable S30145 (S07080), or third-party

**1** – Sinar eControl

**2** – Flash

**3** – Digital Back

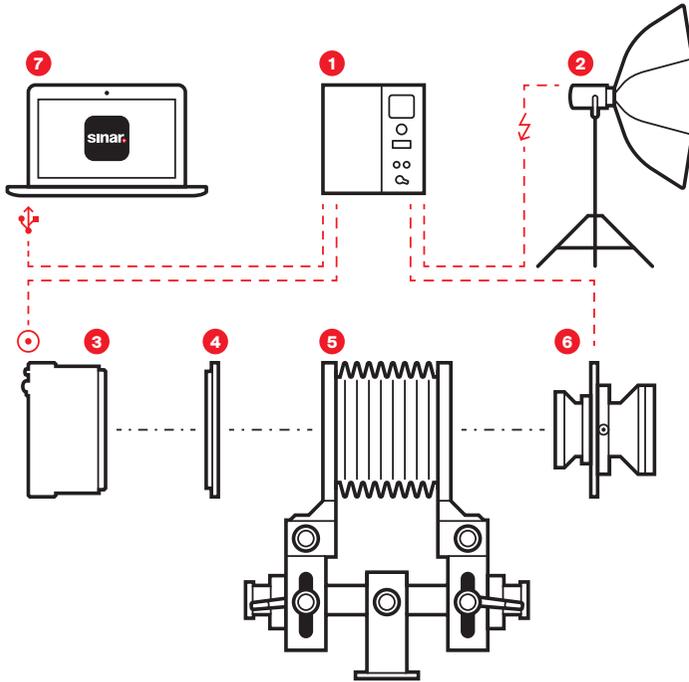
**4** – Adapter Plate (S09120, or third-party)

**5** – Sinar p3, Sinar lanTec, or third-party view camera

**6** – Lens mounted in a Sinar eShutter

**SINAR eCONTROL**

with computer, controlled by DESKTOP APP

**Setting up the hardware**

1. Attach your digital back and the Sinar eControl to the camera. The Sinar eControl can be attached to the tripod by means of the Sinar eControl Mounting Bracket item no. S08003 (optionally available).
2. Connect the Sinar eControl with a USB-cable 13 with your computer (Mac/Windows).
3. To synchronize/release the digital back with the Sinar eControl, plug in the respective cable (see above drawing ☉) into the connector *BackSync* 12, and into the digital back.
4. Insert the rechargeable battery or the AC adapter into the Sinar eControl 16.
5. Plug in the lens that is equipped with a Sinar eShutter into the Sinar eControl 8.
6. Switch on your digital back (if applicable)
7. Set the ON/OFF switch 6 of the Sinar eControl to ● (ON)

**Note**

- Flash power packs have to be connected to the Sinar eControl

**Capturing Images**

8. Download the *Sinar eShutter Control App* from the Sinar Website and install it on your computer
9. Activate Live View at your digital back and compose your picture.
10. Select the desired Exposure setting on the *Sinar eShutter Control App* on your computer.
11. Set Exposure time and Aperture on the *Sinar eShutter Control App* on your computer.
12. Take your capture by pressing the Release icon on the *Sinar eShutter Control App* on your computer.

**Note**

- The image data is stored on a memory card inside the digital back or on the computer

↕ – USB cable

⚡ – Flash connection

☉ – Trigger Cable S 30145 (S07080), or third-party

1 – Sinar eControl

2 – Flash

3 – Digital Back

4 – Adapter Plate (S09120, or third-party)

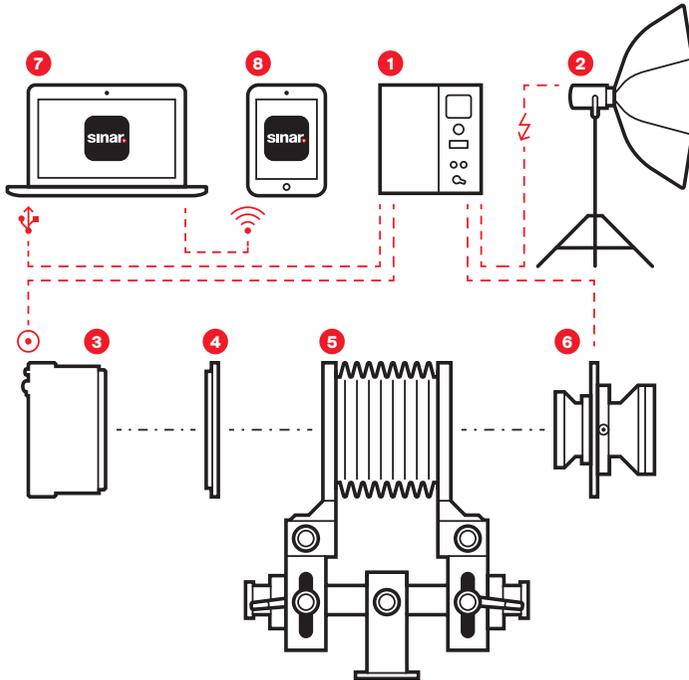
5 – Sinar p3, Sinar lanTec, or third-party view camera

6 – Lens mounted in a Sinar eShutter

7 – Sinar eShutter Control App (on desktop)

**SINAR eCONTROL**

with computer, controlled by MOBILE APP / DESKTOP APP

**Setting up the hardware**

1. Attach your digital back and the Sinar eControl to the camera. The Sinar eControl can be attached to the tripod by means of the Sinar eControl Mounting Bracket item no. S08003 (optionally available).
2. Connect the Sinar eControl with a USB-cable 13 with your computer (Mac/Windows).
3. To synchronize/release the digital back with the Sinar eControl, plug in the respective cable (see above drawing ☉) into the connector *BackSync* 12, and into the digital back.
4. Insert the rechargeable battery or the AC adapter into the Sinar eControl 16.
5. Plug in the lens that is equipped with a Sinar eShutter into the Sinar eControl 8.
6. Switch on your digital back (if applicable)
7. Set the ON/OFF switch 6 of the Sinar eControl to ● (ON)

**Note**

- Flash power packs have to be connected to the Sinar eControl

**Capturing Images**

8. Download the *Sinar eShutter Control App (desktop)* from the Sinar Website and install it on your computer
9. Download the *Sinar eShutter Control App (mobile)* from the Apple® App Store for iOS devices, and from the Google® Play Store, respectively, and install it on your smart mobile device.
10. Synchronize your desktop computer with your smart mobile device over WLAN.
11. Activate Live View at your digital back and compose your picture.
12. Select the desired Exposure setting on the *Sinar eShutter Control App* on your mobile smart device (iOS/Android), or, alternatively, on the *Sinar eShutter Control App on your computer desktop*.
13. Set Exposure time and Aperture on the *Sinar eShutter Control App* on your mobile smart device (iOS/Android), or, alternatively, on the *Sinar eShutter Control App on your computer desktop*.
14. Take your capture by pressing the Release icon on the *Sinar eShutter Control App* on your mobile smart device (iOS/Android), or, alternatively, on the *Sinar eShutter Control App on your computer desktop*.

**Note**

- The image data is stored on a memory card inside the digital back or on the computer
- All parameters can alternatively be selected and set either from the computer or from the smart mobile device

↕ – USB cable

⚡ – Flash connection

☉ – Trigger Cable S30145 (S07080), or third-party

📶 – WLAN

1 – Sinar eControl

2 – Flash

3 – Digital Back

4 – Adapter Plate (S09120, or third-party)

5 – Sinar p3, Sinar lanTec, or third-party view camera

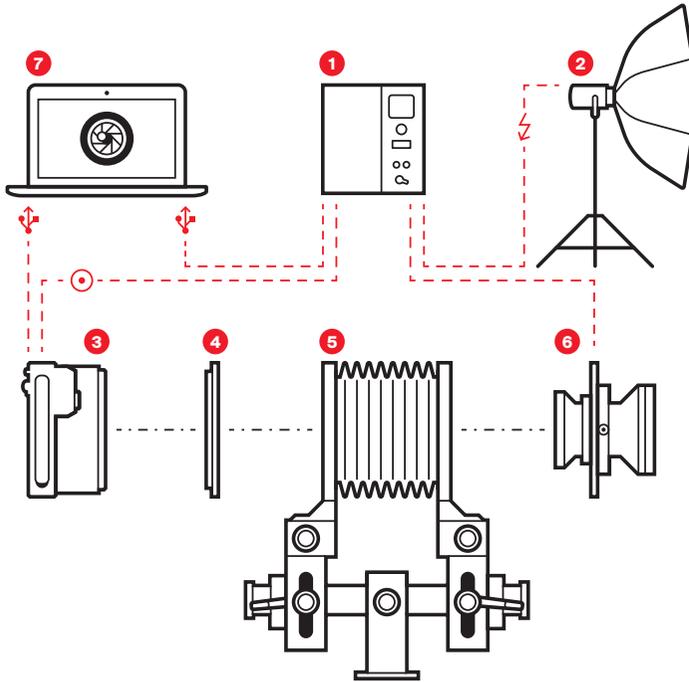
6 – Lens mounted in a Sinar eShutter

7 – Sinar eShutter Control App (on desktop)

8 – Sinar eShutter Control App (on smart mobile device)

**SINAR eCONTROL**

with computer and SINARBACK S 30|45

**Setting up the hardware**

1. Attach the Sinarback S 30|45 and the Sinar eControl to the camera. The Sinar eControl can be attached to the tripod by means of the Sinar eControl Mounting Bracket item no. S08003 (optionally available).
2. To synchronize the digital back with the Sinar eControl, plug in the respective cable (see above drawing ) into the connector *BackSync* 12, and into the digital back.
3. Connect the Sinar eControl 13 and the Sinarback S 30|45 with two separate USB-cables with the same computer.
4. Insert the rechargeable battery or the AC adapter into the Sinarback S 30|45 and into the Sinar eControl
5. Plug in the lens that is equipped with a Sinar eShutter into the Sinar eControl 8
6. Set the main switch of the Sinarback S 30|45 to position *CPL*
7. Set the ON/OFF switch 6 of the Sinar eControl to ● (ON)

**Note**

- Flash power packs have to be connected to the Sinar eControl

**Capturing Images****Note**

- As the Sinar eShutter requires to be connected to a computer via USB, only tethered mode is supported.
  - The Sinar eShutter and the Sinarback S 30|45 are remote-controlled using the software Sinar CaptureFlow that has to be pre-installed on your Mac computer.
  - The Sinarback S 30|45 is equipped with a release button. However, it has no functionality as a release button in this configuration.
8. Activate Live View in Sinar CaptureFlow software for setting up camera and compose your picture.
  9. Set exposure time and aperture in Sinar CaptureFlow software.
  10. Use the controls in the software for taking images. In tethered mode, the images are stored on your computer, or, alternatively, on the Sinarback.

 – USB cable

 – Flash connection

 – Trigger Cable S 30|45 (S07080)

**1** – Sinar eControl

**2** – Flash

**3** – Sinar S 30|45 (S09010)

**4** – S 30|45 Adapter (S09120, or third-party)

**5** – Sinar p3, Sinar lanTec, or third-party view camera

**6** – Lens mounted in a Sinar eShutter

**7** – Sinar CaptureFlow (on desktop)

Part description	Item no.
• Sinar eControl Mounting Bracket .....	S08003
• USB Cable (A/B), 4,5 m .....	S08001
• Rechargeable battery S BP-PRO1.....	16039
• AC Adapter .....	16041
• Sinarback S 30 45 .....	S09010
• S 30 45 Adapter.....	S09120
• Sinarback Sync Control Cable RJ11.....	S07050
• Trigger Cable S 30 45.....	S07080
• Sinaron Digital HR 5.6/23 mm Lens with eShutter (M72R) ..... $t = 1/125$ s....	S04607 ..... $t = 1/250$ s ....
• Sinaron Digital HR 4.5/28 mm Lens with eShutter (M72R) .....	S04608 .....
• Sinaron Digital HR 4.0/32 mm Lens with eShutter (M86) .....	S04609 .....
• Sinaron Digital HR 4.0/35 mm Lens with eShutter (M67) .....	S04610 .....
• Sinaron Digital HR 4.0/40 mm Lens with eShutter (M67) .....	S04611 .....
• Sinaron Digital HR 4.0/50 mm Lens with eShutter (M67) .....	S04612 .....
• Sinaron Digital HR 4.0/60 mm Lens with eShutter (M49).....	S04613 .....
• Sinaron Digital HR 5.6/70 mm Lens with eShutter (M58) .....	S04602 .....
• Sinaron Digital HR SW 5.6/90 mm Lens with eShutter (M72).....	S04606 .....
• Sinaron Digital HR 4.0/100 mm Lens with eShutter (M58) .....	S04614 .....
• Sinaron Digital HR 5.6/180 mm Lens with eShutter (M67).....	S04615 .....
• Lens Adapter Ring M49.....	S08051
• Lens Adapter Ring M58.....	S08053
• Lens Adapter Ring M67 .....	S08055
• Lens Adapter Ring M72 .....	S08061
• Lens Adapter Ring M72R.....	S08066
• Lens Adapter Ring M86.....	S08058
• Cap for Lens Adapter Ring.....	S08042

## TECHNICAL DATA

<b>Exposure time:</b>	1/250 or 1/125 second (depending on connected eShutter model) to 128 seconds, as well as B, and T
<b>Aperture setting in steps of:</b>	f/1, f/1.2, f/1.3, f/1.6
<b>Exposure time settings in steps of:</b>	1, 1/2, 1/3, 1/6 (eShutter250: 1, and 1/2)
<b>Flash synchronization</b>	early, late, and off
<b>Power supply:</b>	Rechargeable Lithium ion battery (item no. 16039), and AC adapter (item no. 16041), respectively
<b>Computer connection:</b>	USB 2.0
<b>Control by:</b>	Computer Mac/PC, iPhone, iPod touch, iPad, Android mobile devices
<b>Operation temperature:</b>	0 – 40°C / 32 – 104°F
<b>Storage temperature:</b>	-20 – 60°C / -4 – 140°F
<b>Dimensions (h × w × d):</b>	120 × 110 × 40 mm
<b>Weight (w/o battery):</b>	450 g

**SINAR PRODUCT SUPPORT**

The Product Support Department at Sinar Photography AG can provide you with an answer to any technical questions relating to Sinar products, including software supplied, either in writing, on the telephone, or by e-mail. They are also the contact point for purchasing advice and to order instruction manuals. Alternatively, you can send us your questions using the contact form on the Sinar Photography AG website.

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**SINAR CUSTOMER CARE**

For servicing your Sinar equipment or in the event of damage, the Sinar Photography AG Customer Care department or the repair service provided by authorized Sinar agents in your country are available (for a list of addresses please visit: [www.sinar.swiss/resellers](http://www.sinar.swiss/resellers))

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