

Sinar eShutter

Operating Instructions



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1. Introduction

The revolutionary Sinar eShutter sets new standards in modern high-end photography. For example, when working with a view camera such as the Sinar p3, the integrated microprocessors guarantee precise settings and very fast shutter speeds up to 1/125 sec. The unique shutter technology uses 7 instead of 5 shutter blades, thus achieving a practically round aperture. Modern materials and electronic components made the small size and the light weight of the eShutter possible, as well as the connections to different camera platforms.

The Sinar eShutter is a completely integrated modular system. Thanks to this open architecture, it is also possible to attach the Sinar eShutter to other cameras. The applied technology permits the conversion of existing lenses of the “o” size.

1.1. Connection:

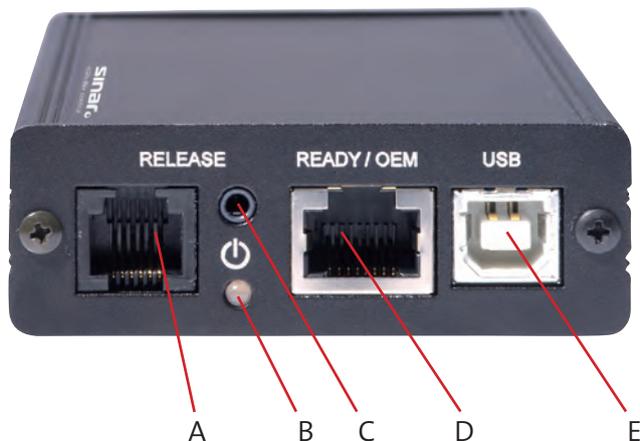
The Sinar eShutter is controlled by means of a cable that is connected directly to the Interface Box. Power is also supplied via the Interface Box. Details are listed under Point 2.



2. The Interface Box

2.1. Connections (front):

The following diagram shows the various connection possibilities on the front side of the Interface Box.



- A Connection for Sinar manual cable release.
Socket for use with the Sinar Sliding Adapter. If a Sliding Adapter is not used, a Sinar Manual Cable Release can be connected directly to this socket.
- B Readiness Indicator
When the green LED lights up, the shutter is ready for action.
When the red LED lights up, the capacitors are not yet charged up sufficiently, so that the shutter system is not yet operational.
- C Socket for other manual cable releases.
- D Serial Interface / X Contact
Connection to a Digital Back
Serial Cable (440.18.261 or 44018.262) for Sinar applications
X Contact Cable (440.18.263) for other digital backs
- E USB port for the connection to a computer. This connection transmits the data from the computer to the Interface Box or to the lens. This connection simultaneously incorporates the power supply.

IMPORTANT: Using the USB port for the power supply reduces the exposure sequence rate. An exposure sequence of 1 image per second can only be achieved by using an external power supply.

2.1. Connections (rear):

The following diagram shows the various connection possibilities on the rear of the Interface Box.



- F Socket for the Sinar Power Supply
This port serves for connecting the standard Sinar Power Supply.
- G Socket for other Power Supplies
This port serves for connecting other power supplies.
IMPORTANT: The power supply must yield an output between 5 and 12 Volt. Power supplies that have a different output may damage the Interface Box and the Sinar eShutter. That will automatically void all warranties and guarantees of the Sinar equipment
- H Socket for the connection to the lens
- I X Contact for flash synchronization

IMPORTANT: Using a power supply other than a mains connection, i.e. using the USB port as a power supply reduces the exposure sequence rate. An exposure rate of 1 image per second can only be achieved by using an external power supply.

3. Computer Software

3.1. eShutter Control



The software automatically reads the corresponding apertures on the lens. That eliminates the need for manual setting of the preferences and prevents the setting of incorrect aperture values (f-stops).

3.2 Operating Elements

3.2.1 Flash Synchronization



The flash is triggered at the start of the exposure.



The flash is triggered at the end of the exposure.



With this setting the flash synchronization is switched off.

3.2.2 Picture mode



Single exposure mode



Exposure sequence mode



Bracketing

Activating an exposure sequence. The number of exposures and the bracketing of the aperture values (f-stops) are set under “Preferences” (Chapter 3.3).



Selftimer

Activating the selftimer function. The values for the selftimer function are set under “Preferences” (Chapter 3.3).

3.2.3 Setting the aperture (f-stop)



With this setting, the aperture is fully open.



With this setting the aperture is set at the working aperture.



Open the shutter.



Close the shutter.



Activate the shutter.

3.2.4 Exposure Time / Shutter Speed



Moving the slider upward lengthens the exposure time / reduces the shutter speed. Conversely, moving the slider downward shortens the exposure time / increases the shutter speed.

The exposure times / shutter speeds can also be changed via the “+” and “-” symbols. Exposure times can be selected from 32 seconds to 1/125 sec.

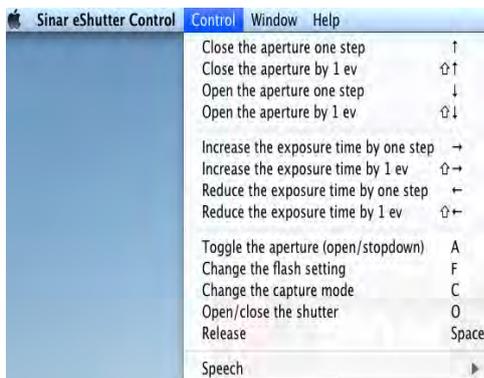
3.2.5 Aperture Values / f-stops



Moving the slider upward sets higher f-stop numbers, i.e. smaller apertures, Conversely, moving the slider downward sets smaller f-stop numbers, i.e. larger apertures.

The aperture values / f-stops can also be set via the “+” and “-” symbols.

3.2.6 Shortcut Keys



All the ‘Shortcut Keys’ are listed under “CONTROL” in the menu.

These shortcut keys allow quick access to the functions, thus providing easy and efficient operation of the Sinar eShutter.

3.3 Preferences



Preferences can be called up via the “p” shortcut key or via that title on the menu.

Exposure - Step Size

Pre-setting the aperture steps on the shutter.

The following aperture steps can be selected: 1/6, 1/3, 1/2, 1.



Multiple Captures

Number of exposures: Setting the number of exposures.

Pause between exposures: Setting the length of the pause between individual exposures. The pauses are calibrated in seconds.



Bracketing

Number of exposures: Setting the number of exposures.

Step size: Setting the steps for the exposure series.

The following steps can be selected: 1/3, 1/2, 1, 2.

Pause between exposure: Setting the length of the pause between exposures. The pauses are calibrated in seconds.



Selftimer

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

4 Operation via an Apple iPhone, iPad, iPod Touch

4.1 Connecting an iPhone, iPad, iPod Touch to the computer



The successful App for operating the Sinar eShutter via an iPhone or an iPad is available free of charge in iTunes.

The connection to the computer is to be established via a network setting, as follows:

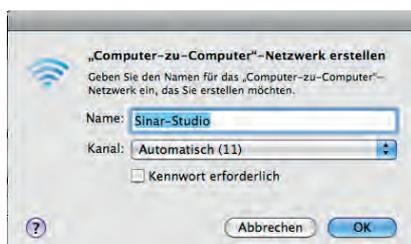
A - When a local network is not available from the router:

Select the desired network under “Settings - Wi-Fi” on the iPhone or iPad. That will connect your iPhone or iPad with your local network. Control of the Sinar eShutter via the iPhone or iPad is now activated.
IMPORTANT: The software in the computer must be activated.



B - Direct via WLAN, when a local network is not available.

To set up a computer-to-computer network, proceed as follows:



1. In the menu, activate “Air Port”, then select “set up new network”.

2. Assign a name to the network that is to be set up and confirm it with “OK”.

3. On the iPhone or iPad, under “General Settings – Wi-Fi”, call up the network that has just been set up.

4.2 Using the Sinar App



The App for operating the the Sinar eShutter via an iPhone is available free of charge in iTunes.

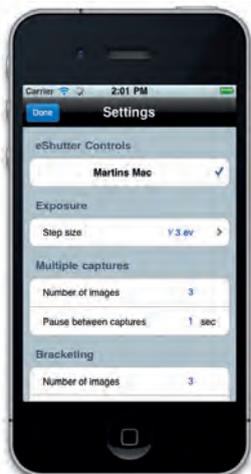
The link can also be found under www.sinar.ch

The functions of the Sinar software are identical to the operation with your computer.

The connection to the computer should be made via the network setting.

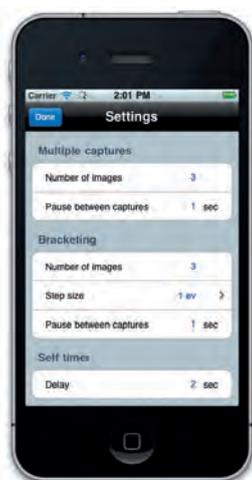
1. Set the computer for WLAN;
2. Start the software on the computer (it may be activated in the background)

4.3 Preferences



The Preferences are called up via this button.

The settings are identical to those described in the software under Point 3.3.



5 Konfigurationen:

Sinarback eVolution 86H / 75H / 54M with Sinar p3 Adapter Kit – without LC-Shutter:

491.81.000	Sinar p3
552.45.033	SB 54M-86H/Sinar p3 Adapter Kit
443.86.xxx	Sinaron Digital Lens with Sinar eShutter
552.15.001	Sinar eShutter Control
440.18.264	USB Cable 5m
440.18.261	Sinar eShutter/eVolution Trigger Cable 50 (RJ45 to RJ12)
Optional: 523.11.053	Sinar Power Supply 13.2 V, 4m
552.15.020	Sinar eShutter Control Bracket
440.18.271	Sinar eShutter/eVolution Trigger Cable 100 (RJ45 to RJ12)
551.43.060	Sinarback Hand Release Cable

Sinarback eVolution 86H / 75H / 54M with Sinar p3 Adapter Kit – with LC Shutter:

491.81.000	Sinar p3
552.45.033	SB 54M-86H/Sinar p3 Adapter Kit
551.65.020	LC Shutter 100
547.81.0xx	Adapter Ring 100/Mxx
443.86.xxx	Sinaron Digital Lens with Sinar eShutter
552.15.001	Sinar eShutter Control
440.18.264	USB Cable 5m
440.18.261	Sinar eShutter/eVolution Trigger Cable 50 (RJ45 to RJ12)
551.65.021	LC Shutter/Sinarback Adapter Cable
Optional: 523.11.053	Sinar Power Supply 13.2 V, 4m
552.15.020	Sinar eShutter Control Bracket
440.18.271	Sinar eShutter/eVolution Trigger Cable 100 (RJ45 to RJ12)
551.43.060	Sinarback Hand Release Cable

Sinarback eVolution 86H / 75H / 54M with Sliding Adapter – without LC-Shutter:

491.81.000	Sinar p3
551.32.094	Sliding Adapter 100 HB-V, 54M-86H
552.45.050	SB 54M-86H/Hasselblad GEN Adapter Kit (included in 551.32.094)
443.86.xxx	Sinaron Digital Lens with Sinar eShutter
552.15.001	Sinar eShutter Control
440.18.264	USB Cable 5m
440.18.261	Sinar eShutter/eVolution Trigger Cable 50 (RJ45 to RJ12)
Optional: 523.11.053	Sinar Power Supply 13.2 V, 4m
552.15.020	Sinar eShutter Control Bracket
440.18.271	Sinar eShutter/eVolution Trigger Cable 100 (RJ45 to RJ12)
551.43.060	Sinarback Hand Release Cable

Sinarback eVolution 86H / 75H / 54M with Sliding Adapter – with LC Shutter:

491.81.000	Sinar p3
551.32.094	Sliding Adapter 100 HB-V, 54M-86H
552.45.050	SB 54M-86H/Hasselblad GEN Adapter Kit (included in 551.32.094)
551.65.020	LC Shutter 100
551.65.021	LC Shutter/Sinarback Adapter Cable
547.81.0xx	Adapter Ring 100/Mxx
443.86.xxx	Sinaron Digital Lens with Sinar eShutter
552.15.001	Sinar eShutter Control
440.18.264	USB Cable 5m
440.18.261	Sinar eShutter/eVolution Trigger Cable 50 (RJ45 to RJ12)
Optional: 523.11.053	Sinar Power Supply 13.2 V, 4m
552.15.020	Sinar eShutter Control Bracket
440.18.271	Sinar eShutter/eVolution Trigger Cable 100 (RJ45 to RJ12)
551.43.060	Sinarback Hand Release Cable

Sinarback eMotion with SB eMotion/Sinar m Adapter Kit:

491.81.000	Sinar p3
552.36.082	SB eMotion/Sinar m Adapter Kit
443.86.xxx	Sinaron Digital Lens with Sinar eShutter
552.15.001	Sinar eShutter Control
440.18.264	USB Cable 5m
440.18.262	Sinar eShutter/eMotion Trigger Cable 50 (RJ45 to Lemo Trigger-In)
Optional: 523.11.053	Sinar Power Supply 13.2 V, 4m
552.15.020	Sinar eShutter Control Bracket
440.18.272	Sinar eShutter/eMotion Trigger Cable 100 (RJ45 to Lemo Trigger-In)
551.43.060	Sinarback Hand Release Cable

Sinarback eMotion with Sliding Adapter :

491.81.000	Sinar p3
551.32.096	Sliding Adapter 100 HB-V, eMotion
552.36.070	SB eMotion/Hasselblad V Adapter Kit (included in 551.32.096)
443.86.xxx	Sinaron Digital Lens with Sinar eShutter
552.15.001	Sinar eShutter Control
440.18.264	USB Cable 5m
440.18.262	Sinar eShutter/eMotion Trigger Cable 50 (RJ45 to Lemo Trigger-In)
Optional: 523.11.053	Sinar Power Supply 13.2 V, 4m
552.15.020	Sinar eShutter Control Bracket
440.18.272	Sinar eShutter/eMotion Trigger Cable 100 (RJ45 to Lemo Trigger-In)
551.43.060	Sinarback Hand Release Cable

Sinar p3 with Third-Party Digital Backs without Sliding Adapter:

491.81.020	Sinar p3 RV
556.64.xxx	Sinar p3/HB-V or HB-H or Mamiya Adapter Kit
443.86.xxx	Sinaron Digital Lens with Sinar eShutter
552.15.001	Sinar eShutter Control
440.18.264	USB Cable 5m
440.18.263	Sinar X-Contact Cable (RJ45 to X-Contact)

Optional: 523.11.053	Sinar Power Supply 13.2 V, 4m
552.15.020	Sinar eShutter Control Bracket
551.43.060	Sinarback Hand Release Cable

Sinar p3 with Third-Party Digital Backs with Sliding Adapter:

491.81.020	Sinar p3 RV
551.32.095	Sliding Adapter 100 HB-V, basic (alternatively 551.32.097 or 098)
443.86.xxx	Sinaron Digital Lens with Sinar eShutter
552.15.001	Sinar eShutter Control
440.18.264	USB Cable 5m
440.18.263	Sinar X-Contact Cable (RJ45 to X-Contact)

Optional: 523.11.053	Sinar Power Supply 13.2 V, 4m
552.15.020	Sinar eShutter Control Bracket
551.43.060	Sinarback Hand Release Cable

6. Technical Data

Digital Parameters	Sinar eShutter
Fastest Shutter Speed / Shortest Exposure Time	1/250 Sekunde
Shutter Size	Grösse 0
Aperture / f-stop Steps	1/6 Steps
Shutter Activations	200'000
Exposure Sequences	Max. 1.5 Exposures per second
Flash Synchronization	X Contact, Early Synch., Late Synch., M Signal (Sinar), Wake-up Mode Sensor
Power Supply in the Studio	Mains Power Supply
Mains Voltage for the Power Supply	100V - 240V
Power Supply Outdoors	Battery Operation (in construction)
Battery Recharging Time	3 Hours
Operating Time on Battery Power	8 Hours
Shutter Control	Mac Computer / PC, iPhone, iPod Touch or iPad
Computer Connection	USB 2.0 Full Speed
Operating Temperatures	0 – 45 °C / 32 – 113 °F
Dimensions and Weight	Diameter: 76 mm / 3 inches Thickness: 17 mm / 11/16 inches Weight: 200 grams / 7 ounces

7. Sinar eShutter Accessories:

Sinar eShutter Control
552.15.001



Sinar eShutter Control Bracket
552.15.020



Sinaron Digital Lens with Sinar eShutter - 443.86.xxx



Sinar Power Supply 13.2 V, 4m
523.11.053



Sinarback Hand Release Cable
551.43.060



Sinar X-Contact Cable (RJ45 to X-Contact) -440.18.263



Sinar eShutter/eMotion Trigger Cable (RJ45 to Lemo Trigger-In)
- 50cm 440.18.262
- 100cm 440.18.272



Sinar eShutter/eVolution Trigger Cable (RJ45 to RJ12)
- 50cm 440.18.261
- 100cm 440.18.271

