

sinar

Quick Reference Sinar m

493.03.000

Introduction

We congratulate you on your purchase of your Sinar m camera and we appreciate your confidence in our products. We are convinced that the Sinar m will add significant convenience to your work. Its robust and precise construction will bring you long and trouble-free operation.

Before you use your Sinar m camera for the first time, please read this instruction manual carefully. It will help you to use the camera correctly, thus avoiding difficulties that might arise from improper use.

If you have any comments or recommendations regarding your Sinar m or this instruction manual, please do not hesitate to send us your opinions in writing to sinar@sinar.ch.

We sincerely wish you much satisfaction in working with the Sinar m camera and gratifying success with your photographs.



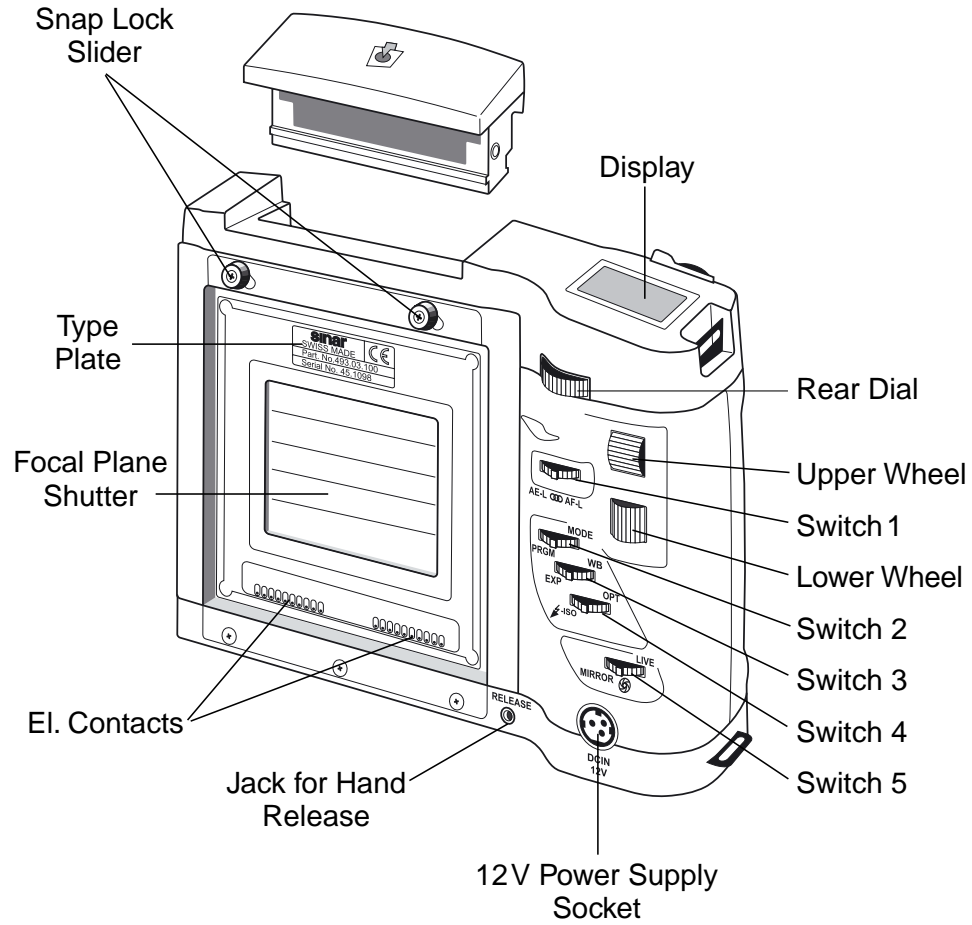


Diagram 1: Sinar m, rear view

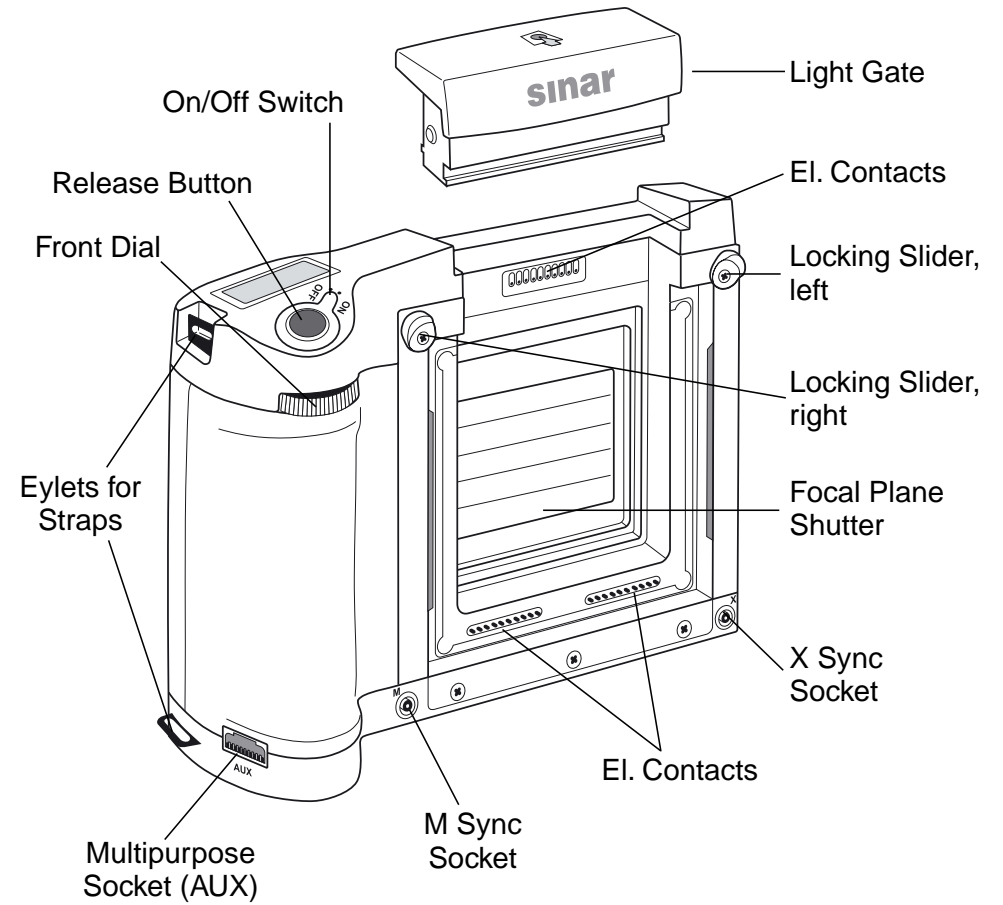


Diagram 2: Sinar m, front view

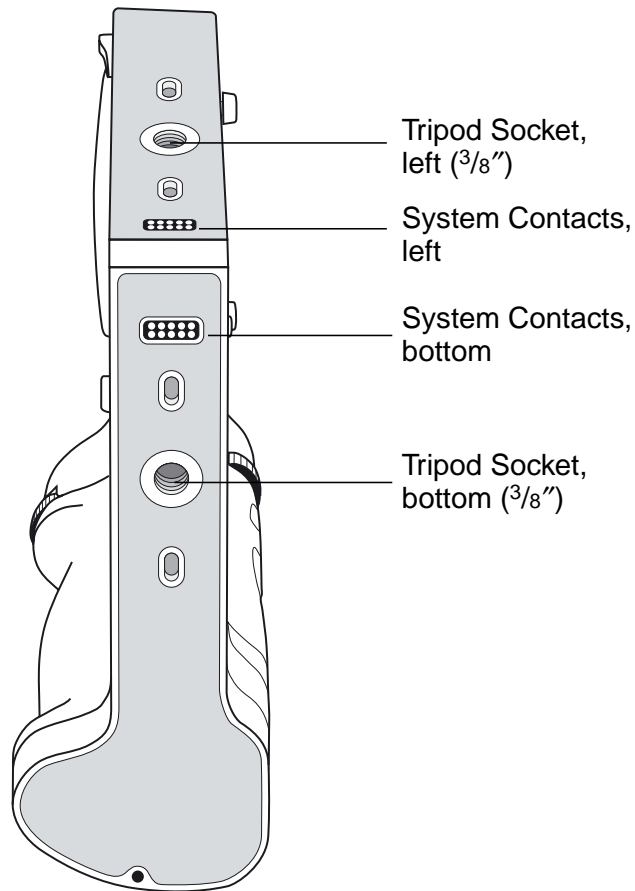


Diagram 3: Sinar m, view from the bottom and the left

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Extent of Delivery

The extent of delivery of the Sinar m 493.03.000 includes:

- Sinar m Body
- Light Gate 493.03.208
- Two Shutter Protecting Covers 493.03.582
- CD-ROM with Sinar CaptureShop™
- Quick Reference 02.8302

Use

The Sinar m is a versatile modular camera body. It can be used as a shutter for the Sinar p3 view camera as well as a stand-alone 35 mm or medium format camera (see also the example configurations, *diagrams 4 to 11*).

Requirements

In order to work with the Sinar m you need, in addition to the accessories listed in the corresponding diagram, an Apple Power Macintosh G4 computer (or with higher performance) and the capture software Sinar CaptureShop™ version 4.1 or higher.

Sinar m on a Sinar p3

Configurations

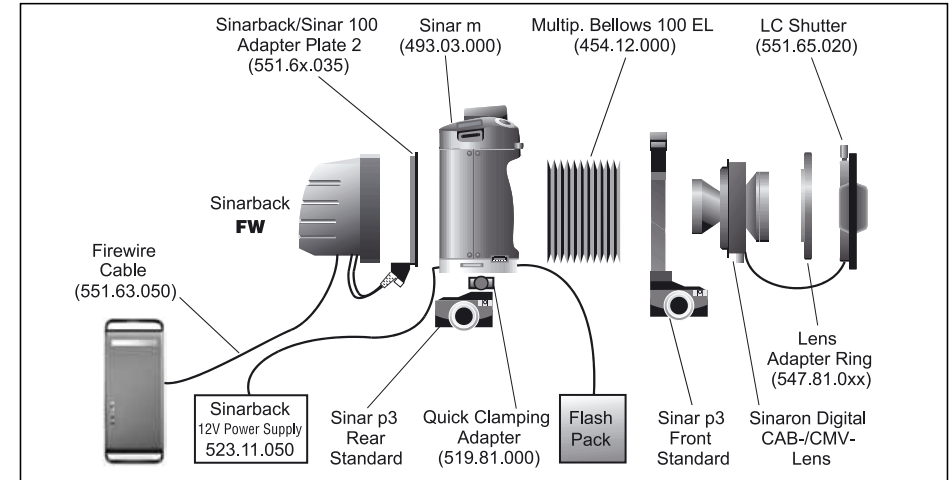


Diagram 4: Sinar m on a Sinar p3 with Sinarback (firewire), Sinaron Digital CAB Lens and LC Shutter

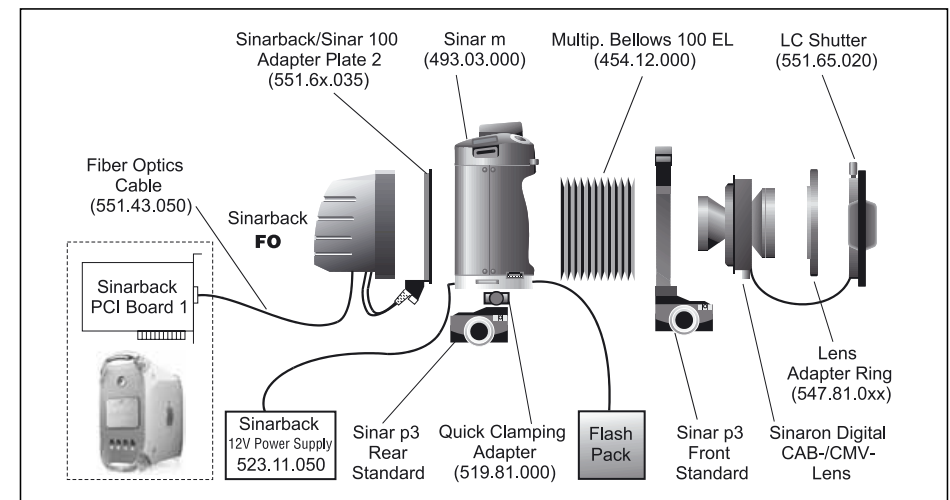


Diagram 5: Sinar m on a Sinar p3 with Sinarback (fiber optics), Sinaron Digital CAB Lens and LC Shutter, power supplied by a 12V Power Supply

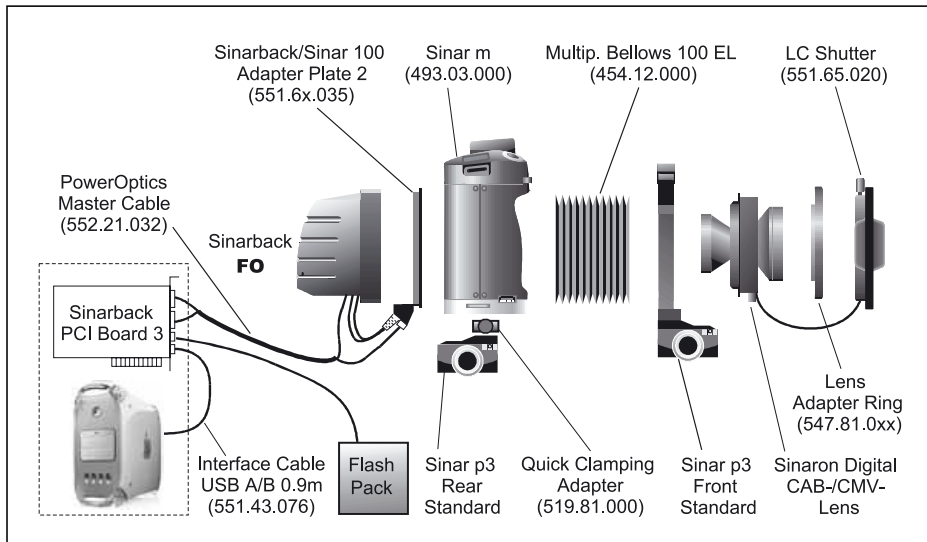


Diagram 6: Sinar m on a Sinar p3 with Sinarback (fiber optics), Sinaron Digital CAB Lens and LC Shutter, power supplied by PCI Board 3

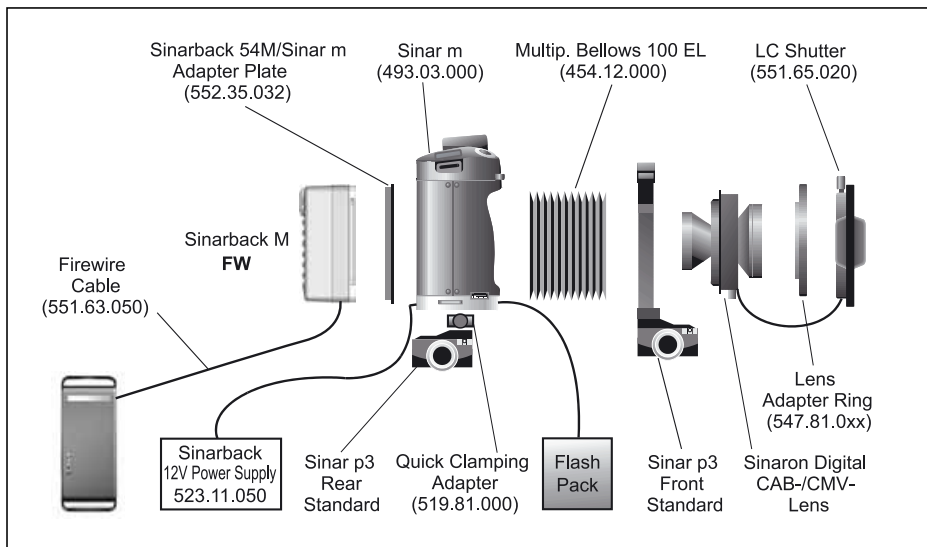


Diagram 7: Sinar m on a Sinar p3 with Sinarback (M-series, firewire), Sinaron Digital CAB Lens and LC Shutter, power supplied by a 12 Volt Power Supply

Set-Up

1. Mount the Sinar p3 on a sturdy tripod or stand.
2. Remove the carrier frame of the rear standard of the Sinar p3.
3. Mount the Quick Clamping Adapter m 519.81.000 in place of the carrier frame.
4. Screw both tripod screws that are included with the Quick Clamping Adapter in the bottom and on the left side of the Sinar m and tighten them with a small coin.
5. Place the Sinar m on the Quick Clamping Adapter and pull its clamping lever backwards.
6. Remove both protecting covers of the Sinar m: The rear one by sliding the snap lock slider to the left, the front one by pulling the left locking slider upwards to the left and the right locking slider upwards to the right.
7. Mount the Sinarback on the corresponding adapter plate (551.63.235/551.64.235/551.65.235 or 552.35.232), insert the adapter plate in the bottom groove on the backside of the Sinar m, and push the Sinarback towards the Sinar m until the snap lock slider snaps in automatically.

Notice: Check if the adapter plate is locked in place correctly.
8. Mount the bellows on the front of the Sinar m and lock it by pushing both locking sliders inwards. When using lenses with focal lengths shorter than 90mm we recommend the use of a wide angle bellows.
9. Attach the bellows to the carrier frame of the front standard of the Sinar p3.
10. Place the Sinaron Digital CAB or CMV lens in the carrier frame of the front standard.
11. Screw the matching lens adapter ring on to the lens.
12. Plug the cable of the LC Shutter in the corresponding socket on the lens.
13. Put the LC Shutter on the lens adapter ring and lock it in place with the clamping screw.

14. Connect the Sinarback with the Macintosh computer via firewire- or fiber optics cable, depending on the type of the Sinarback.
 15. Plug the 12 volt power supply in the corresponding socket on the rear side of the Sinar m and on the mains supply.
When using a Sinarback with fiber optics interface and a Power-Optics Master cable, the wide J14 plug has to be plugged into the socket of the adapter plate.
 16. Plug the flash sync cable in the X sync socket on the front of the Sinar m and on your flashlight unit. When using a Sinarback with fiber optics interface and a PowerOptics Master cable, this cable can also be plugged in the respective socket of the PCI Board 2, too.
 17. Start the Macintosh computer.
 18. Switch on the Sinar m by pushing the on/off switch forwards for about two seconds (confirmed with an acoustic signal).
 19. When using a Sinarback with fiber optics interface, the option “Back Power Supply” must be activated in the Sinar m in order to supply the Sinarback with power.
 20. Start now the Sinar CaptureShop™ software.
- Your camera is now ready to work.

Sinar m

Configurations

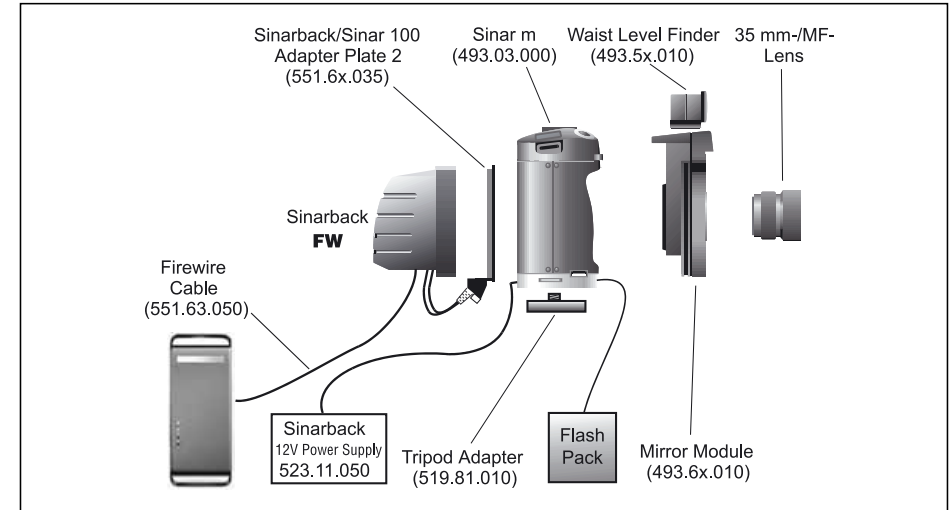


Diagram 8: Sinar m with mirror module and Sinarback (firewire)

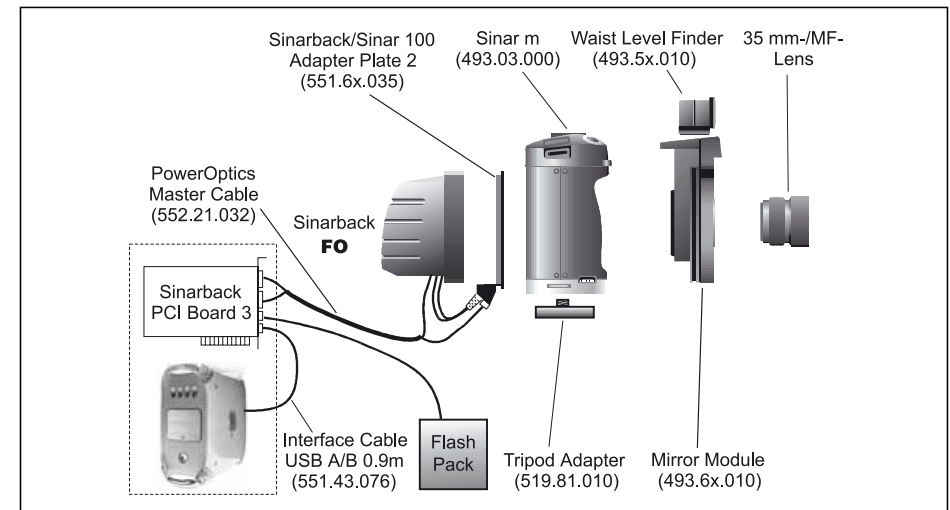


Diagram 9: Sinar m with mirror module and Sinarback (fiber optics)

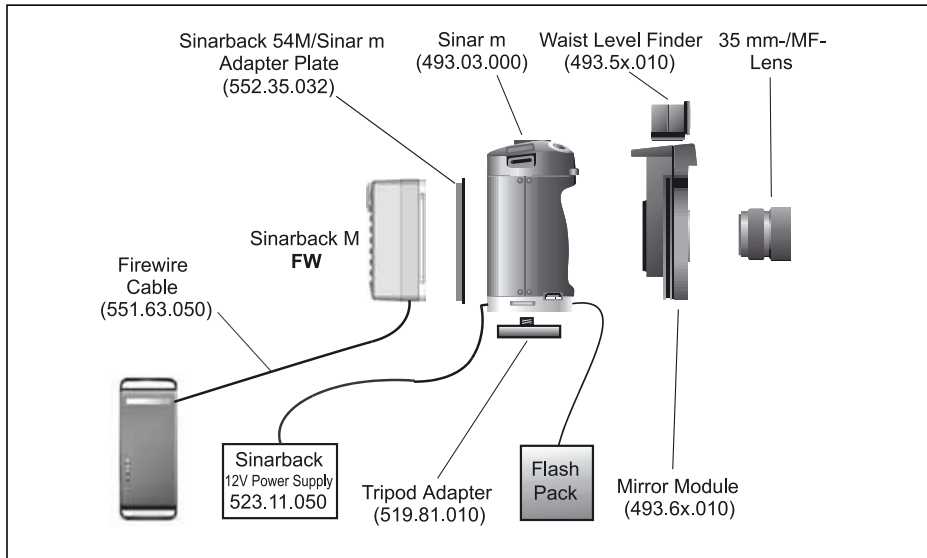


Diagram 10: Sinar m with mirror module and Sinarback (M-series, firewire)

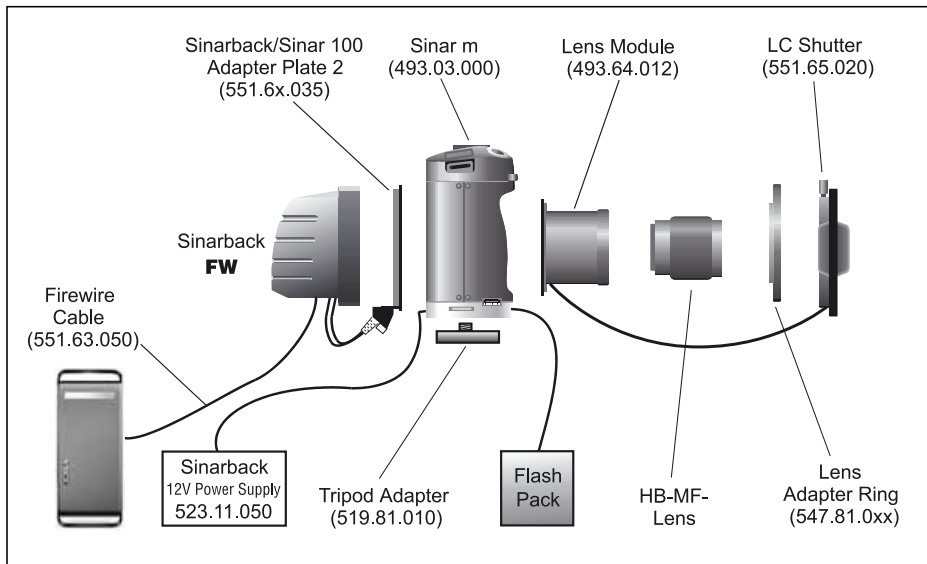


Diagram 11: Sinar m with Hasselblad lens module, Sinarback (firewire) and LC Shutter

Set-Up

1. Screw the Tripod Adapter 519.81.010 on to the Sinar m and tighten the screw with a coin.
2. Mount the Sinar m on a sturdy tripod or stand.
3. Remove both protecting covers of the Sinar m: The rear one by sliding the snap lock slider to the left, the front one by pulling the left locking slider upwards to the left and the right locking slider upwards to the right.
4. Mount the Sinarback on the corresponding adapter plate (551.63.235/551.64.235/551.65.235 or 552.35.232), insert the adapter plate in the bottom groove on the backside of the Sinar m, and push the Sinarback towards the Sinar m until the snap lock slider snaps in automatically.

Notice: Check if the adapter plate is locked in position correctly.

5. Remove the Light Gate of the Sinar m (except when a Hasselblad Lens Module 493.64.012 is used).
6. Mount the mirror module or the lens module on the front of the Sinar m and lock it by pushing both locking sliders inwards. Check if the mirror module or the lens module is locked in position correctly.
7. Mount the view finder and the desired lens in the mirror module respectively the lens in the lens module.
- 8a. When using a Hasselblad Lens Module, screw the matching lens adapter ring on the lens bayonet.
- 8b. Plug the cable of the LC Shutter in the corresponding socket on the lens module.
- 8c. Put the LC Shutter on the lens adapter ring and lock it in place with the clamping screw.
9. Connect the Sinarback with the Macintosh computer either via the firewire or fiber optics cable depending on the type of the Sinarback.
10. Plug the 12 Volt power supply in the corresponding socket on the rear side of the Sinar m and on the mains supply.

When using a Sinarback with fiber optics interface and a Power-Optics Master cable, the wide J14 plug has to be plugged into the socket of the adapter plate.

11. Plug the flash sync cable in the X sync socket on the front of the Sinar m and on your flashlight unit. When using a Sinarback with fiber optics interface and a PowerOptics Master cable, this cable can also be plugged in the respective socket of the PCI Board 2, too.
12. Start the Macintosh computer.
13. Switch on the Sinar m by pushing the on/off switch forwards for about two seconds (confirmed with an acoustic signal).
14. When using a Sinarback with fiber optics interface, the option "Back Power Supply" must be activated in order to supply the Sinarback with electrical power.
15. Start now the Sinar CaptureShop™ software.
 - Your camera is now ready to work.

Operation

The operation of the camera and the selection of individual functions are mainly performed by means of the two menu dials and the five rocker switches (also see the illustrations on the fold-out pages C and D).

On/Off Switch

- To **activate** the Sinar m, press this switch forward to "ON" for approximately two seconds. A successful activation of the camera is confirmed with an acoustic signal.
- To **switch** the camera **off**, press the switch towards the back to "OFF". An acoustic signal will resound (when the feature "Acoustic Signal" is activated).

Shutter Release Button

The shutter release button has two steps:

- When the release button is pressed all the way down (second step) an exposure is made.
- By touching the release button (first step), you exit the respective camera menu (Switches 2, 3 or 4), which you may have activated, and the displayed setting will be confirmed.

Every time the shutter release button is actuated, an acoustic signal will resound (when the function "Acoustic Signal" is activated).

Menu Dials/Scrolling Wheels

- The **Front Dial** permits the selection of functions listed in the **upper line in the display**, and the setting of the working aperture.
- The **Rear Dial** allows the selection of functions listed in the **lower line of the display**, and the setting of the exposure time.






Please check the tables on pages 16 to 19 to see all the functions that are available and how the menu is structured.

The two **Scrolling Wheels** are foreseen for future tasks. In the current version of the Sinar m program they have no function.

Rocker Switches

The rocker switches can be activated in three positions: switch pressed to the left, switch pressed to the right and switch pressed at the center position. The Switches 2, 3 and 4 lead to a different operation level. By touching the release button you will return to the capturing level.

- Switch 1:** “AE-L” locks the automatic exposure measurement;
 “AF-L” locks the autofocus function;
 “” locks both functions together.
- Switch 2:** “PRGM” opens the menu for the program modes of the Sinar m;
 “MODE” opens the menu of the exposure modes.
- Switch 3:** “EXP” opens the menu for the exposure measurement;
 “WB” opens the menu for the white balance.
- Switch 4:** “/ISO” opens the menu for selecting a flash setting and for the exposure sensitivity;
 “OPT” opens the menu for all the possible options.
- Switch 5:** “Mirror” enables to lock the mirror up before the exposure is made;
 “” enables to stop the iris diaphragm down to the working aperture;
 “LIVE” starts/ends the live image generated by the Sinarback.

Flash Connections

The Sinar m is equipped with two synchro flash connectors: “X” and “M”.

- The “**X**” **contact** triggers the flash either at the instant when the shutter window has reached its largest opening (setting “Early Flash”), or immediately before the shutter begins to close again (setting “Late Flash”). This is the contact that is normally used.

The “X” contact can also be switched off (setting “Off”).

- The “**M**” **contact** triggers the flash at the moment when the shutter begins to open. The “M” contact cannot be switched off.

Default Settings

In order to reactivate the default setting of the **Camera Settings** (menus), proceed as follows:

1. First, switch the camera off.
2. While pressing the shutter release button, switch on the camera at the same time.

In the diagrams in the chapter *Menu Structure of the Sinar m* the parameters that correspond to the default factory settings are highlighted gray.

To restore the default setting of the **Display** (brightness and contrast), proceed as follows:

1. First, switch the camera off.
2. Hold down Switches 1 and 5 at the same time (at their centers) and turn the camera on again.

Display

The display on the Sinar m camera has the following modes:

Display of All the Relevant Settings

When the camera is ready for an exposure, all the settings relevant to that exposure that are supported by attached modules are displayed. Illustration no. 12 on page 15 shows which camera functions will be indicated in a particular location within the display. The symbols change in conformity with the status of the corresponding function.

Setting the Camera Parameters

As soon as Switches 2, 3 and 4 are actuated, a display divided into three sections will appear:

- In the center, the respective overall **menu title** of the operation level is displayed.
- The parameters indicated above the title can be varied by turning the **Front Dial**.
- The parameters indicated below the title can be varied by turning the **Rear Dial** (also see chapter *Menu Structure of the Sinar m* on page 16).



Notice: Some of the settings exclude each other mutually or are depending one from another. Accordingly the options available may vary.

Messages

Error reports, warnings and notes regarding unusual operating situations, such as “Busy” or “Operation locked” etc., are also communicated by this display.

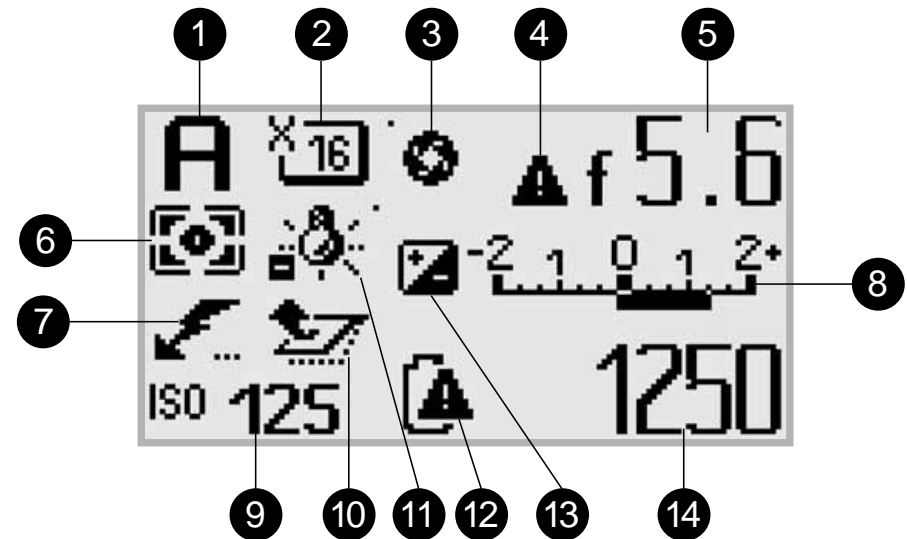
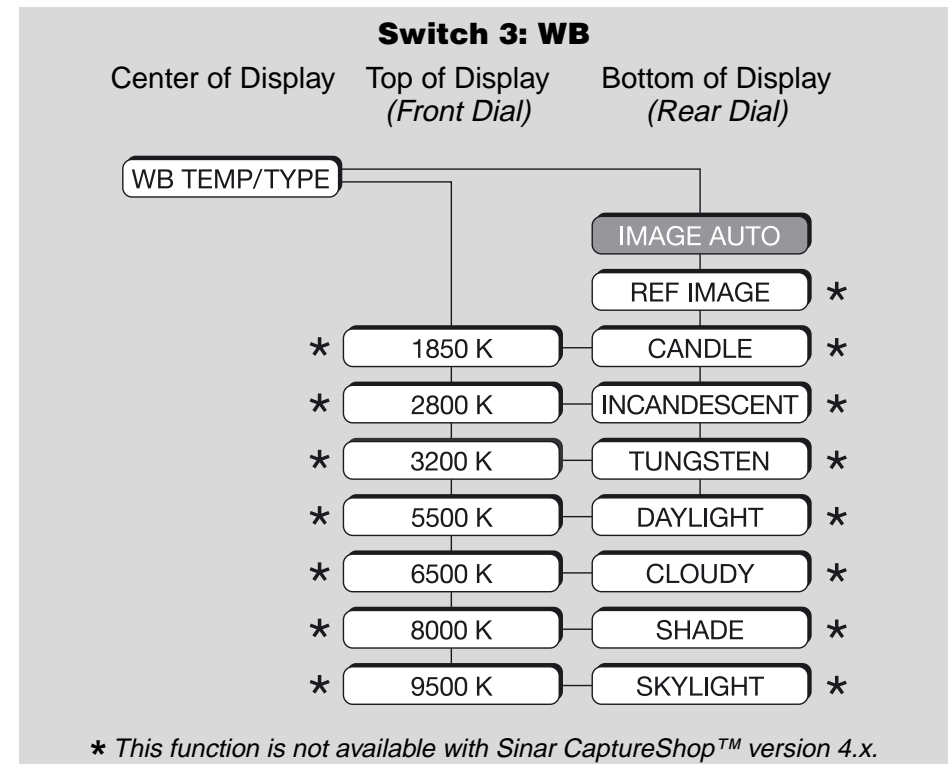
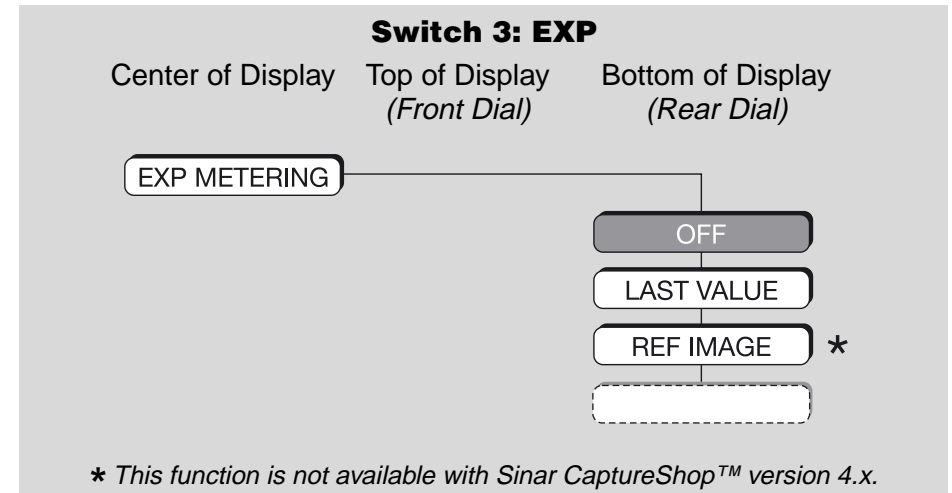
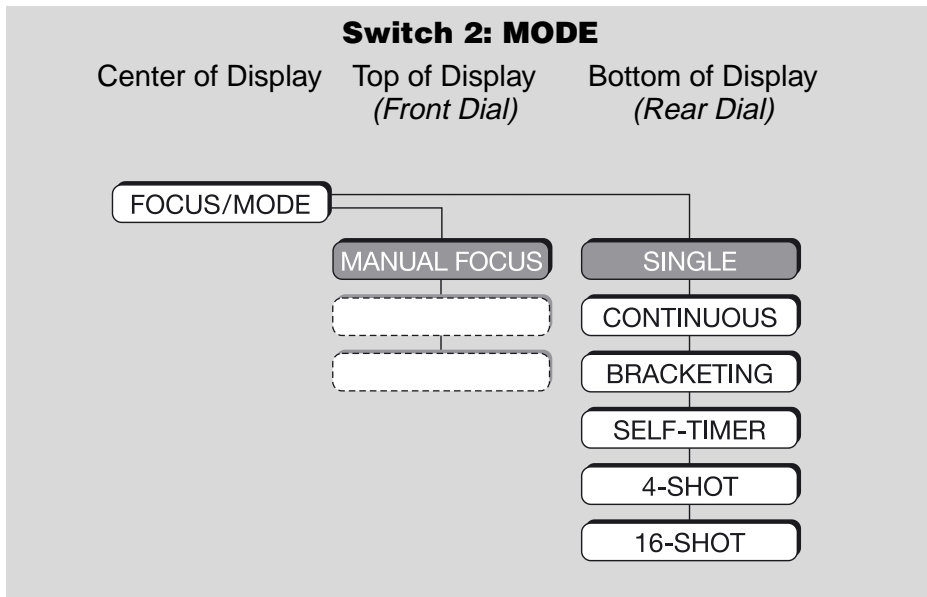
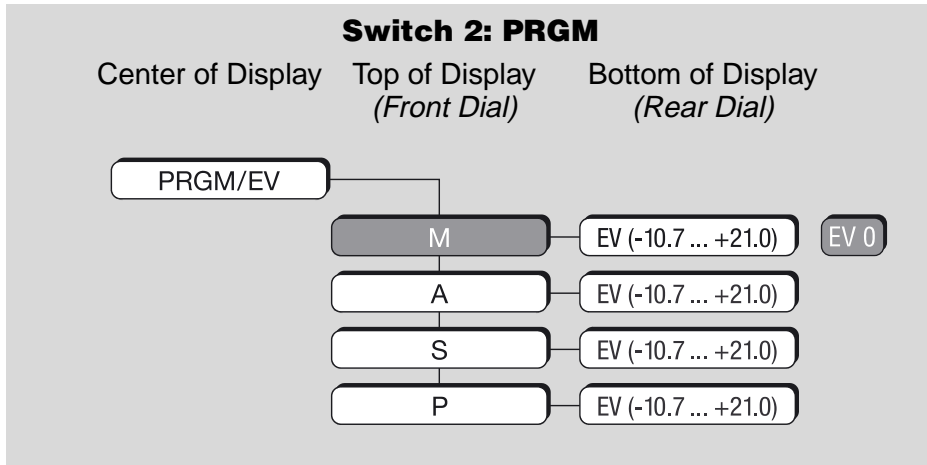


Diagram 12: Display overview

1. Selected program mode
2. Selected capture mode
3. Stopped down to working aperture/focus mode
4. Aperture control not coupled with lens
5. Selected working aperture
6. Type of exposure metering
7. Flash mode
8. Light balance/Exposure value
9. Selected sensitivity in ISO
10. Status of the shutter/mirror
11. White balance
12. State of charge/warning of the battery
13. Exposure correction activated
14. Selected exposure time in $\frac{1}{x}$ seconds resp. in seconds x"

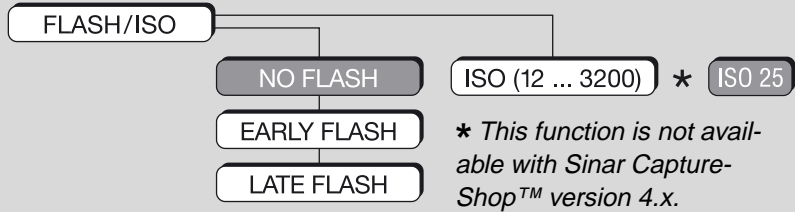
Menu Structure of the Sinarm (V 1.0)

The highlighted boxes corresponds to the default condition.



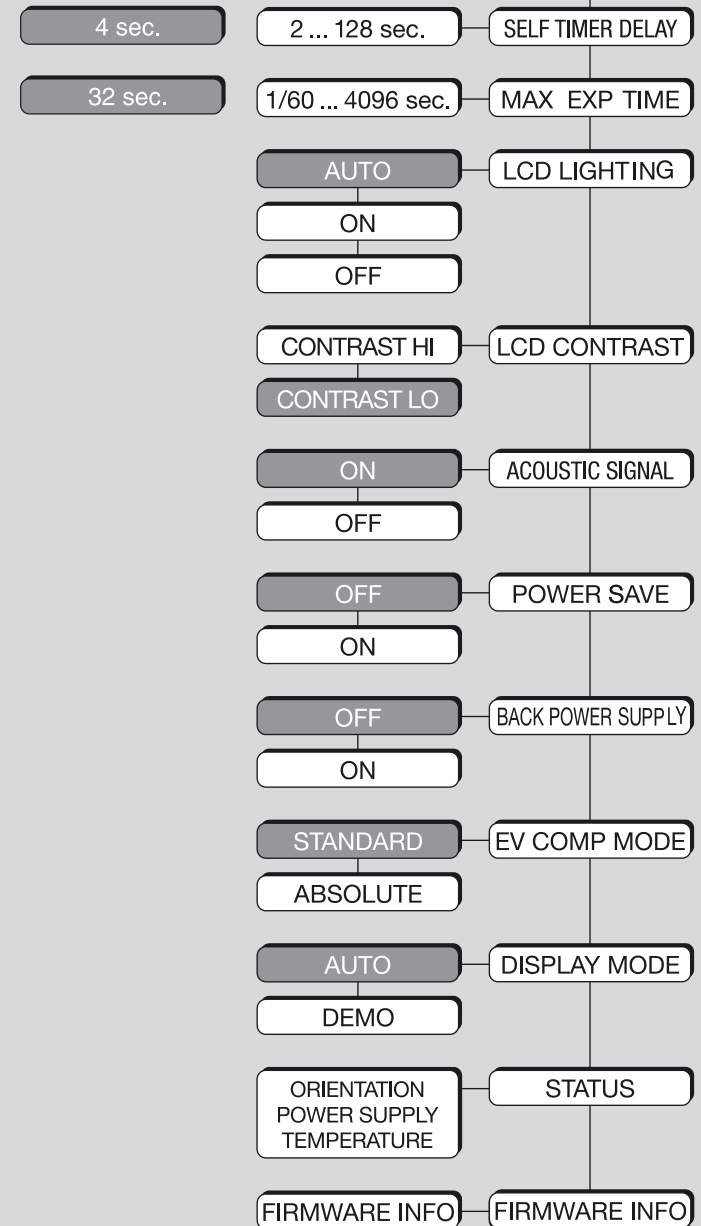
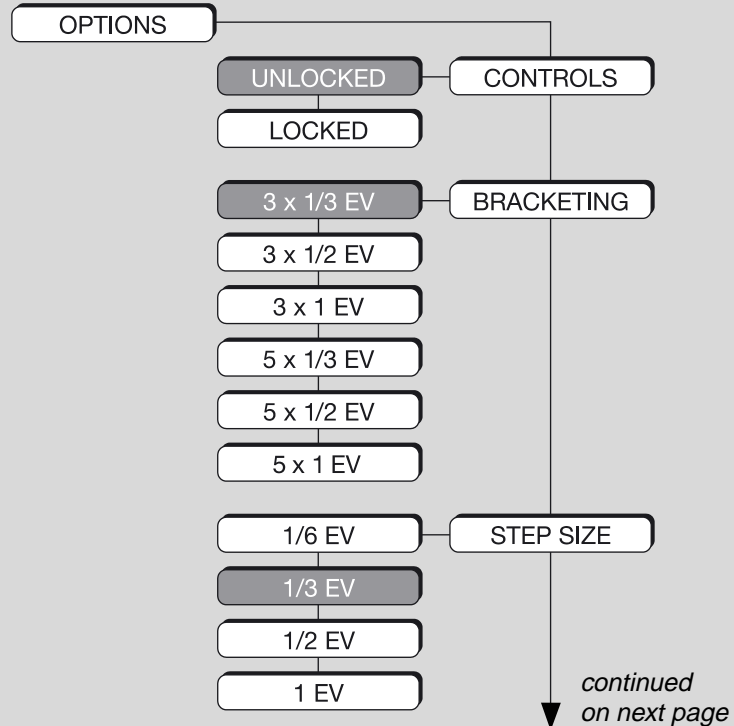
Switch 4: ⚡/ISO

Center of Display Top of Display (Front Dial) Bottom of Display (Rear Dial)



Switch 4: OPT

Center of Display Top of Display (Front Dial) Bottom of Display (Rear Dial)



Notes Regarding Sinar CaptureShop™ 4.x

Please note that if you work with Sinar CaptureShop™ version 4.x, the interaction between Sinar m and Sinar CaptureShop™ is limited in some situations.

- For example, the **live video** can only be switched on and off at the Sinar m.
- The **exposure time** chosen on the Sinar m has to be as long as or shorter than the exposure time chosen on the Sinar CaptureShop™.
- When using an LC shutter and/or a CMV lens, the option “**Power Save**” MUST NOT be activated.

As of **Sinar CaptureShop™ version 5.x** the Sinar m and the capture software communicate together on all levels.

Care and Maintenance

Maintenance of the Sinar m camera only requires simple cleaning work:

- You can use a cleaning cloth lightly soaked (not dripping!) with Sinar Agent Blue, ethanol or a mild soap solution. The two first mentioned agents are also part of the Sinar Cleaning Kit 551.33.090, which can be ordered separately.
- **Under no circumstances** use **solvents** (like acetone) or **abrasive agents** for cleaning.
- Make sure that no wetting reaches the shutter blades during the cleaning procedure or during outdoor use of the Sinar m camera.
- Take special care not to touch, handle or press the shutter blades inadvertently. That can deform the blades or hinder their movement characteristics, which could result in the reduction of their operating reliability.
- Whenever you are not using the Sinar m camera, we recommend that you always store it with the protective covers in place.

Technical Data

Dimensions:	180×140×67 mm (approx. 7×5 ¹ / ₂ ×2 ⁵ / ₈ "
Weight:	0.8 kg (approx. 28 oz)
Lenses:	Sinaron Digital CAB, Sinaron Digital CMV, Hasselblad V-System, Nikon (further adaptations are in preparation)
Shutter Type:	Electronically controlled, vertically moving focal plane shutter
Shutter Size:	56×42 mm (approx. 2 ¹ / ₄ ×1 ⁵ / ₈ "
Shutter Durability:	Typical 50,000 release cycles
Exposure Times:	1/2000 second to 68 minutes (depending on the configuration)
Flash Sync Time:	1/100 second
Tripod Socket:	2× 3/8" (1× bottom, 1× left)
Power Supply:	12 Volt DC
Operating Temperature:	+5° to +45°C (+41°F to +113°F)
Storage Temperature:	-10° to +60°C (+14°F to +140°F)
Relative Humidity:	5% to 80%, not condensing



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