

sinar



2103L





sinarback philosophy

An Ingenious System

Carl Koch, photographer and founder of the company, established the fundamental Sinar philosophy: „By photographers for photographers“. In 1948 he had the inspired idea of designing Sinar cameras on the basis of a building block system, so that appropriate Sinar components could be assembled to create a camera that can be tailored to any application. This has made Sinar cameras the most flexible tools for photographers who cater to their client's wishes and who expect their cameras to do the same.

A Sinarback for Every Task

No matter how demanding the photographic challenge, Sinar digital backs master the tasks brilliantly and deliver optimal quality in every situation. Whether it is in the studio with high resolution multi-shot microscan exposures with a view camera or in a mobile application far from the nearest electrical connection – all Sinar System configurations offer maximal user friendliness and an attractive price /performance ratio.

Always at the leading edge of technology, Sinarbacks are the indispensable companions of the most demanding photographers around the world.

The Word About Quality Spreads Quickly

Our policy of providing our customers with the best tools is honored by photographers and recognized by the trade press, as eloquently proven by the fact that with the Sinarback 54 M Sinar has already been awarded the coveted TIPA Award for the third time. This recognition of quality is partly due to the fact that every Sinarback is subject to a stringent control- and calibration process to ensure optimal performance. Sinar: Quality comes first!

Maximal Compatibility

Sinarbacks do not only perform perfectly within their own system, a full line of adapters enables them to be used with all conventional medium format cameras.





sinarback 54 H

Down to the Tiniest Detail

In the 1-shot mode (for action photographs), in the 4-shot mode (for still lifes) and in the 16-shot mode (for the highest possible detail resolution), Sinar Digital Backs produce images that are needle-sharp, with faithful color rendition. To safeguard optimal results, the CCD sensor used in the Sinarback 54 H is cooled thermo-electrically. The unique Hardware Anti-Moiré function of the Sinarback 54 H even makes it possible to render critical action shots with delicate patterns faithfully.

With the multi-shot digital back, Sinar makes perfected micro-scanning possible: The sensor is shifted with the highest precision by half the width of a pixel in 16 exposures, so that the spaces between the sensor's pixels are also recorded. Like the 4-shot technique and unlike the 1-shot technique, micro-scanning produces complete color information for every pixel. By means of the four-fold data information available from a single exposure, the resolution can again be increased significantly. The combination of the microscan technique and high-resolution Sinaron lenses that is available exclusively in the Sinar System produces images with unique brilliance, sharpness and incredible resolution.





sinarback 54 M

Concentrated on the Essentials

In spite of its compact size and its light weight, the Sinarback 54 M is a thoroughly high-end product that produces images with maximal resolution in the 1-shot mode. In order to conform to the stringent Sinar quality standards, the CCD image sensor of the Sinarback 54 M is cooled by means of a Peltier element that is regulated by a temperature- and dew point sensor. As in the Sinarback 54 H, this reduces image noise to a minimum.

Small Dimensions, Fabulous Technology

Thanks to the integrated position sensor of the Sinarback 54 M, the images are automatically rotated into the correct orientation and before being stored. In combination with the modular Sinar m camera system, most Sinarback functions can be controlled via the direct connection between the Sinar m and the Sinarback 54 M. Only a single cable is required for this purpose – a Firewire connection with which image data and control signals are transmitted and through which the Sinarback is supplied with power.

For demanding tasks, such as photographs with wide-angle cameras without mirrors or studio photographs with a view camera, the Sinarback 54 M features a live image function for pixel-accurate focusing.





sinarback eMotion 22

Unlimited Mobility

Next to its mobility, the Sinarback eMotion offers the very distinct advantage of an intuitive and creative way of working. The digital back is impressive because of its compactness and its low weight. Images can also be taken without the need for an additional computer. The photographer already experiences the first pleasant impression of the quickness of this digital back when he or she presses the power button, after which the eMotion takes only two seconds to be ready for action. But the digital back furnishes even more convincing proof of highly efficient operation with its very high rate of exposure sequences. Parallel recording of image data on an internal solid-state memory or on a Compact Flash Card are options that guarantee the highest data security.



Intuitive Operation

Operation by means of the menu is very user-friendly because it is based on practical experience. This makes it possible for the photographer to concentrate fully on the photograph during the shooting session. Because of the absence of cumbersome cables, the Sinarback eMotion provides unlimited mobility on the set, in the studio, or out in the open and far away from any mains power supply.




Absolute Control

Picture evaluation is available immediately right on site by means of the bright OLED color display that is independent of the viewing angle. The 16x magnifier function, the histogram and the over-exposure warning are additional useful functions that are highly valued by many users and that greatly ease the photographer's work.

The digital back is powered either by Firewire or by a conventional lithium-ion battery. A charge is good for up to three hours of operation or approximately 250 exposures.



The Sinarbacks at a Glance

Model	Sinarback 54 H 	Sinarback 54 M 	Sinarback eMotion ²² 
Application	Digital camera back for 1-, 4- and 16-shot exposures with all types of light sources	Digital camera back for 1-shot exposures with all types of light sources	Digital camera back for 1-shot exposures with all types of light sources
Active sensor size	49.0 x 36.7 mm	49.0 x 36.7 mm	48.0 x 36.0 mm
Sensor resolution	5440 x 4080 pixels	5440 x 4080 pixels	5344 x 4008 pixels
File size at 16 bit TIFF	1- and 4-shot: 130 MB; 16-shot: 510 MB	1-shot: 130 MB	1-shot: 124 MB or 33 MB
Exposure frequency	Up to 12 images per minute	Up to 24 images per minute	Up to 50 images per minute
Live Image viewfinder mode	Yes	Yes	No
Shutter speeds	≤ 1/4000 to 4 seconds; long time exposures: 4 to 32 seconds	≤ 1/4000 to 4 seconds; long time exposures: 4 to 32 seconds	≤ 1/4000 to 4 seconds; long time exposures: 4 to 32 seconds
Dynamic range (contrast)	More than 11 aperture stops	More than 11 aperture stops	More than 11 aperture stops
Digitalization	14 bit per color channel (RGB)	16 bit per color channel (RGB)	16 bit per color channel (RGB)
Active cooling	Yes	Yes	No
Nominal sensitivity	ISO 25 (adjustable from 25 to 200)	ISO 25 (adjustable from 25 to 200)	ISO 25 (adjustable from 25 to 200)
Piezo microscanning	Yes	n.a.	n.a.
Interface	1x IEEE 1394A Firewire	2x IEEE 1394A Firewire	1x IEEE 1394 Firewire
Power supply	Alternatively via Firewire or external 12-Volt supply	Alternatively via Firewire or external 12-Volt supply	Alternatively via Firewire or interchangeable lithium-ion battery
On-board battery	n.a.	n.a.	Operating time: up to 3 hours or approximately 250 exposures
On-board data storage	n.a.	n.a.	Solid state memory 3 GB; optionally also interchangeable Compact Flash Card
On-board monitor	n.a.	n.a.	2.2" OLED, 16 million colors
Exposure software	Sinar CaptureShop™ Version 4.1 or 5.0 and higher	Sinar CaptureShop™ Version 5.0 or higher	Sinar CaptureShop™ Version 5.1 or higher
Dimensions	114 x 90 x 90 mm	87 x 85 x 45 mm	92 x 81 x 71 mm
Weight	870 grams	400 grams	600 grams
Camera adapters*	Sinar p3/p2/p/x view cameras, Sinar m, Sinarcam 2; Bronica SQ-A, ETR-S; Contax 645 AF; Fuji GX 680 I, II, III; Hasselblad Vseries; Mamiya RZ 67 II, RB 67, 645 AF, AFD, Super, Pro, Pro TL; Rolleiflex 6001, 6003, 6008/Integral/AF	Sinar p3/p2/p/x/f3/f2/f1 view cameras, Sinar m, Sinarcam 2; Contax 645 AF; Fuji GX 680 I, II, III; Hasselblad V series, H1; Mamiya RZ 67 II, RB 67, 645 AFD, 645 Super, Pro, Pro TL; Rolleiflex 6001, 6003, 6008/Integral/AF	Sinar p3, Sinar m; Contax 645 AF; Hasselblad 500 line, H1; Mamiya RZ 67 II, 645 AFD; 645 Pro, Pro TL; Rolleiflex 6001, 6003, 6008; 4x5" view cameras via Hasselblad V adapter

* Certain technical limitations are possible with some of the camera/Sinarback combinations.

Sinar CaptureShop™ 5

- User-friendly operating surface, can be arranged at will thanks to the dynamic plug-in structure
- Live Image viewfinder mode
- Color Live Image magnifier with full resolution for pixel-accurate focusing
- Clearly arranged, multifunctional and printable contact sheet
- Quick Zoom for fast evaluation of detail sharpness
- Various data export formats, such as JPEG, TIFF, Photoshop, and others

- Full ICC color management support
- Integrated camera control (flash, shutter speed, aperture)

Lenses

Sinar m:
High-resolution Sinaron Digital 28 mm to 210 mm as well as Sinaron Digital HR lenses with electronic aperture control (CAB). Lenses from Nikon and Hasselblad cameras can also be used on the Sinar m camera.

Sinar p2 or Sinar x view camera with Sinarcam 2 or Sinar Auto Aperture shutter:

High-resolution Sinaron Digital 28 mm to 210 mm as well as Sinaron Digital HR lenses in DB auto-aperture mounts (DB).

Sinar p3 view camera:

High-resolution Sinaron 28 mm to 180 mm as well as Sinaron Digital HR lenses with magnetic shutters (CMV).

Computer

Recommended outfit:

- Apple Power Macintosh
- Processor G4 or G5
- Clock frequency at least 1 GHz
- Mac OS 10.3.8 or higher
- Firewire IEEE 1394A interface
- At least 1 GB RAM
- 24 bit graphic card
- At least 32 MB VRAM
- At least 20" Monitor

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Printed in Switzerland
Technical modifications reserved
951.05/03.xx.xxx e – 01.3802
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