sinar eXact

Sinar Digital Backs

Your Solution Provider
Ultimate Commitment to Best Image Quality

Sinar Digital Backs meet the Highest Quality Demands

Sinar One- and Multishot digital backs stand for the uncompromising dedication to the highest digital image quality. All Sinar digital backs deliver results that are clearly unsurpassed in terms of color accuracy and color resolution. Based on the well-proven Sinar Microscan Technology, the Sinar eXact achieves data sizes of up to 576 MB (RGB/8 bit) in impressive multishot quality. Thanks to the downscaling function, image data sizes of 12 up to 192 megapixels can be achieved with a single digital back, giving the Sinar eXact a broad range of new fields of applications.

The Trailblazing Step in the Evolution of Digital Backs

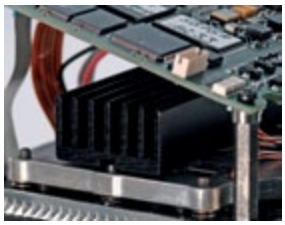
This innovation seamlessly expands the current Sinar line of proven digital backs. The Sinar eXact digital back optimally rounds out the highest segment of high-end professional photography. With this reasonable expansion, Sinar is proud to feature the widest assortment of digital backs for the professional studio, thus offering exactly the right digital product for every application.

Sinar Digital Backs can be operated by means of CaptureFlow Software on Mac and PC. With this program, the user gains a professional solution for the color calibration of incoming data and of the monitor.

CaptureFlow meets the requirements of a modern workflow and sets new standards for color accuracy.

Quality First

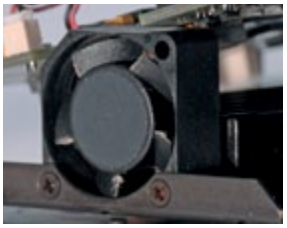
In addition to numerous other factors, the renowned highest quality of Sinar Digital Backs is due to their uncompromised design. Components generating heat and therefore color noise are consequently eliminated. Focusing on demanding studio photography and digitizations of all kinds, Sinar today produces digital backs that yield hitherto unachieved image quality without display, batteries and internal storage. In this context, Sinar places great emphasis on the cooling of sensors. Therefore, the well thought-out 2-stage active cooling is an important precondition for the very best image quality and it also assures the longevity of the product.



From 12 MP to 192 MP

This is the very first time that a manufacturer offers a unique digital back that covers the entire range from packshots all the way to absolutely high-end photography. The option of the downscaling function, coupled with the multishot technology allows flexible applications that have never been possible before now.

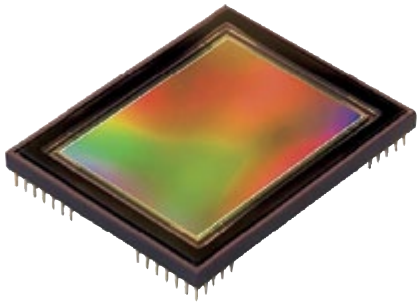
Everything in a single product, so that your requirements are met for every assignment, today and tomorrow. And that in the familiar Sinar high-end quality in all its applications!



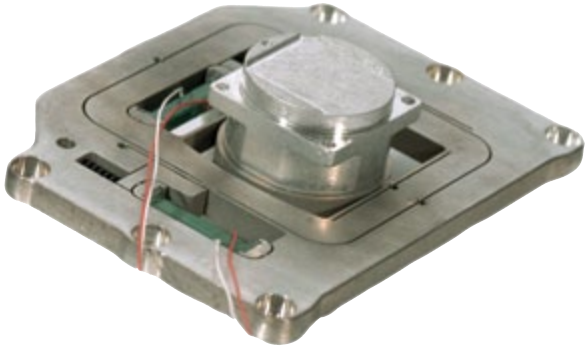
When a Single Exposure is not Sufficient for the Best Image

Wherever work is being performed in the field of still-life photography or image archiving, there are Sinar Digital Backs in use. Multishot backs produce 4x higher color resolution than simple Oneshot models. Such differences are obvious and they cannot be compensated by means of high-performance Oneshot products.

With 4-shot exposures, the CCD pixel matrix is shifted 3-times from one exposure to the next by exact width of one pixel raster, so that every picture point is captured in each one of the primary colors (red, blue, 2x green). Another decisive argument in favor of the multishot technique is the clearly reduced Moiré effect, which, because of the controlled layering of colors, becomes barely noticeable. With this exposure technique, the image interpolation that is needed with oneshot backs, can be omitted completely.



Dalsa CCD sensors as the basis for the highest image quality of Sinar Digital Backs.



Highest precision piezo technology with the tightest tolerances for pixel-exact shifting in multishot exposures.

Technical Data

Characteristics	Sinar eXact	Sinar eVolution 86 H	Sinar eVolution 75 H
Sensor Type	Dalsa FTF 6080C - RGB Mosaic Filter, Full Frame Technology	Dalsa FTF 6080C - RGB Mosaic Filter, Full Frame Technology	Dalsa FTF 5066 C RGB Mosaic Filter, Full Frame Technology
Sensor Size	8000 x 6000 Pixel, 48.8 mio pixels 48.0 x 36.0 mm	8000 x 6000 Pixel, 48.8 mio pixels 48.0 x 36.0 mm	6668 x 4992 Pixel, 33,3 Mio Pixel 48.0 x 36.0 mm
File Format	DNG	DNG	DNG
File Size (RGB)	up to 576 MB (8 bit), 1152 MB (16 bit)	144 MB (8 bit), 288MB (16 bit)	95 MB (8 bit), 190MB (16 bit)
Exposure rate	up to 13 pictures per minute	up to 13 pictures per minute	up to 24 pictures per minute
Live Image	Yes	Yes	Yes
Exposure Time	1/10000 sec up to 32 sec	1/10000 sec up to 32 sec	1/10000 sec up to 32 sec
Nominal sensitivity	ISO 50 - 800	ISO 50 - 800	ISO 50 - 400
Digitization	48 bit (16 bit per Channel)	48 bit (16 bit per Channel)	48 bit (16 bit per Channel)
File Storage	via Firewire on Computer	via Firewire on Computer	via Firewire on Computer
Active Cooling	Yes (Ventilation and Peltier)	Yes (Ventilation and Peltier)	Yes (Ventilation and Peltier)
Power Supply	Firewire 800	Firewire 800	Firewire 800
Firewire Interface	IEEE 1394b (800 Mbps, compatible with IEEE 1394a 400 Mbps)	IEEE 1394b (800 Mbps, compatible with IEEE 1394a 400 Mbps)	IEEE 1394b (800 Mbps, compatible with IEEE 1394a 400 Mbps)
Exposure Software	Sinar CaptureFlow	Sinar CaptureFlow	Sinar CaptureFlow
Operating Systems	Mac OS X 10.7.x and higher Windows 7 and higher	Mac OS X 10.7.x and higher Windows 7 and higher	Mac OS X 10.7.x and higher Windows 7 and higher
System Requirements (minimal)	Apple Macintosh mit Intel Core 2 Duo 2 GHz with 8 GB RAM Windows: Core Duo 2, 8 GB RAM	Apple Macintosh mit Intel Core 2 Duo 2 GHz with 8 GB RAM Windows: Core Duo 2, 8 GB RAM	Apple Macintosh mit Intel Core 2 Duo 2 GHz with 8 GB RAM Windows: Core Duo 2, 8 GB RAM
Operating Temperature	0 – 45 °C / 32 – 113 °F	0 – 45 °C / 32 – 113 °F	0 – 45 °C / 32 – 113 °F
Dimensions and Weight	90 x 85 x 73 mm, 0.6 kg	90 x 85 x 73 mm, 0.6 kg	90 x 85 x 73 mm, 0.6 kg
Camera Interface	Sinar p3/p2/p/x view cameras, Sinar m, Hasselblad V, H; Mamiya 645 AFD, AFD II, 645 Super, Pro, Pro TL; any non-Sinar 4x5" view cameras via Graflok adapter	Sinar p3/p2/p/x view cameras, Sinar m, Hasselblad V, H; Mamiya 645 AFD, AFD II, 645 Super, Pro, Pro TL; any non-Sinar 4x5" view cameras via Graflok adapter	Sinar p3/p2/p/x view cameras, Sinar m, Hasselblad V, H; Mamiya 645 AFD, AFD II, 645 Super, Pro, Pro TL; any non-Sinar 4x5" view cameras via Graflok adapter

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