HASSELBLAD CF2 / CF2 / CF3 / CF3 / CF3

The Hasselblad CF line of digital backs offers 22 and 39 megapixel digital solutions with the Hasselblad "I-adapter" open camera interface, and the ability to add true-color, Multi-shot capture. The CF backs bring a new level of flexibility to professional digital photographer, including the choice of storage media: CF card, 100GB Imagebank, or computer hard drive. All in all a level of flexibility which added to Hasselblad's image quality expands the horizons of leading edge digital photography.



Today's digital photography demands higher resolution, less noise, and improved compositional choice, all of which the CF backs provide. The sensors are 22 or 39 megapixels in size and they are both more than twice the physical size of today's 35mm sensors. This means more and larger pixels, which ensures the highest possible image quality and moiré free color rendering without gradation break-ups - in even the most subtly lit surfaces.

Multi-shot for still-life: the 4*Res upgrade option

In a still-life studio environment you can increase the color resolution of your captures by means of a unique Multi-shot technique controlled by the optional 4*Res module (patent pending). The result is maximum resolution and absolutely moiré free images. The CF can be upgraded to a CF-MS with the 4*Res module at any time. The CF-MS comes with the 4*Res module already built in.

Working with multiple cameras

By way of a simple 4-screw mounting plate, the CF is easily attached to most professional medium-format SLR cameras and view cameras on the market. This simple compatibility allows you to bring optimal digital capture to your existing cameras and lenses with the convenience of using only one digital back.

Unique Hasselblad Natural Color Solution

In the past, color management solutions have imposed limitations on professional digital photographers, because of the need to choose a specific color profile to suit a specific job in order to capture various skin tones, metals, fabrics, flowers, etc. Hasselblad has helped solve this dilemma, with the development of a single powerful color profile to be used with its FlexColor imaging software. Working with the new Hasselblad Natural Color Solution (HNCS) enables you to produce outstanding and reliable out-of-the-box colors, with skin tones, specific product colors and other difficult tones reproduced easily and effectively.



In order to support our new unique color system, we have developed a custom Hasselblad raw file format called 3FR RAW (3FR). The new 3F RAW file format is designed to ensure that images captured on Hasselblad digital products are quickly, effectively and safely stored on the chosen media. The file format includes lossless image compression, which reduces the required storage space by 33%. The 3FR file defines the colors in the Hasselblad RGB color space with its out-of-the-box quality, and applied in FlexColor it removes both the need for experimenting with different color profiles to obtain optimal colors and the need for selective color corrections.

DNG workflow

3FR files can be converted into Adobe's raw image format DNG ('Digital NeGative'), bringing this new technology standard to the professional photographer for the first time. In order to optimize the colors of the DNG file format, conversion from the 3FR must take place through FlexColor. The DNG file format enables raw, compressed image files to be opened directly in Adobe Photoshop. Hasselblad image files carry a full set of metadata, including capture conditions, keywords and copyright, facilitating workflow with image asset management solutions.

IAA – helping you classify and select images

Building on the success of its Audio Exposure Feedback technology, Hasselblad has created Instant Approval Architecture (IAA), an enhanced set of feedback tools, designed to liberate the photographer from the selection process and to concentrate on the shoot. Audible and visible signals as well as recorded information in the file and in the file name all promote a quick and easy classification in the field or in the lab. Sorting becomes automatic, accessible and very fast, facilitating reviewing the best images for immediate client presentation.

HASSELBLAD CF2 / CF2 / CF3 / CF3

FlexColor workflow for the professional photographer

FlexColor enables you to create an image processing workflow that gives you the highest degree of control for your studio photography. In tethered operation, tools such as overlay masking help bring productivity to advanced set composition. The latest version of the FlexColor software enables you to manipulate color temperature and compare image details across multiple images for precise image selection. FlexColor uses the 3FR files and runs on both Macintosh and Windows computers. The software is licensed to allow you to provide free copies for all your co-workers and production partners.

Last, but Not Least

Naturally, as with all Hasselblad products, a new CF digital back affords access to the full range of Hasselblad service and support, ensuring that your investment will last a long time to come. And the latest firmware updates to your H-system back are always just a download away.



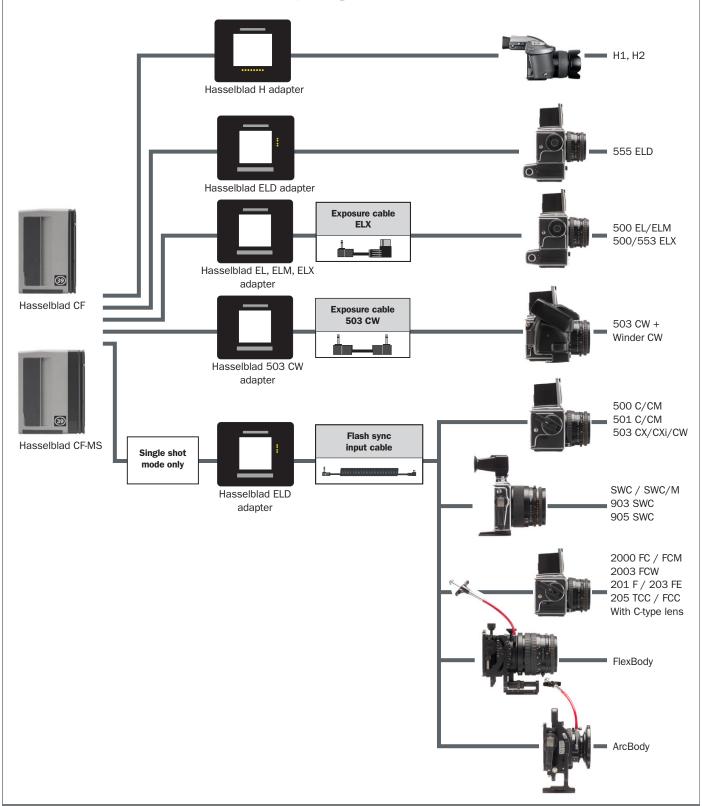
H2 camera with CF-39 singe shot back.



H2 camera with CF-39 MS multi-shot back.

HASSELBLAD CF2 / CF3 / CF3 / CF3

Hasselblad camera connectivity diagram

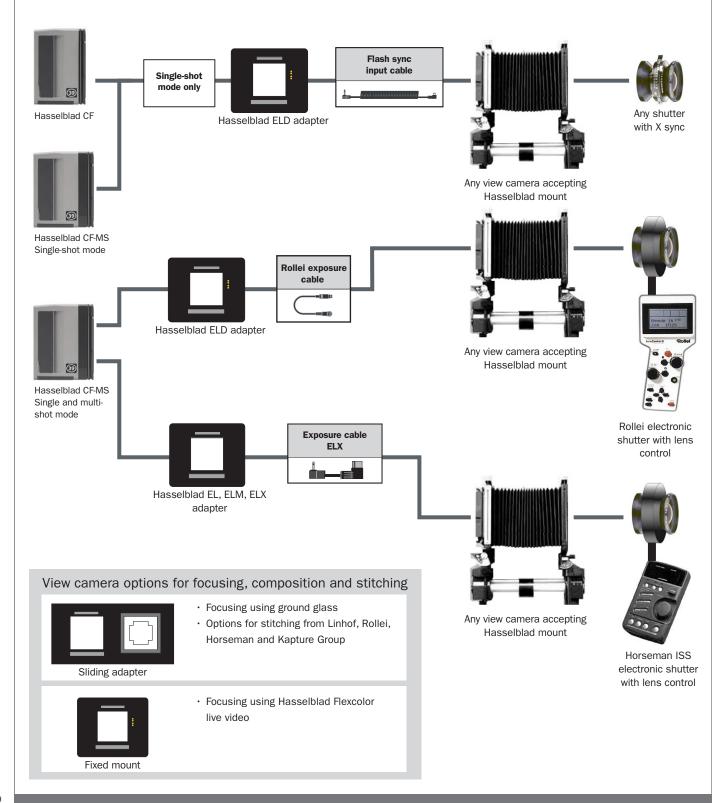


DIGITAL BACKS

HASSELBLAD CF2 / CF3 / CF3 / CF3 Horseman DigiFlex II Hasselblad ELD adapter Rollei exposure Flash sync input cable Fuji GX680 Fuji GX680 adapter Mamiya 645 AF Mamiya 645 AFD adapter Mamiya 645 Pro Hasselblad CF Mamiya 645 Pro adapter Mamiya RZ67 Mamiya RZ67 adapter Hasselblad CF-MS Flash sync input cable Single-shot Mamiya RB67 mode only Mamiya RB67 adapter Rollei AF adapter Rollei 6000 series + AF camera Rollei exposure cable Rollei adapter Contax 645 AF Contax 645 AF adapter

HASSELBLAD CF2 / CF3 / CF3 / CF3

View camera connectivity diagram



HASSELBLAD CF2 / CF3 / CF3 / CF3 / CF3

Technical specification

| SPECIFICATIONS | Hasselblad CF-22 | Hasselblad CF-39 | |
|-------------------------------------|---|---|--|
| Sensor size | 22 Mpixels (4080 x 5440 pixels) | 39 Mpixels (5412 x 7212 pixels) | |
| Sensor dimensions | 36.7 x 49.0 mm | | |
| Image size | RAW 3FR capture 30 MB on average. | RAW 3FR capture 50 MB on average. | |
| | TIFF 8 bit: 66 MB | TIFF 8 bit: 117 MB | |
| File format | Lossless compressed Hasselblad RAW 3FR | | |
| Shooting mode | Single shot | | |
| Color definition | 16 bit | | |
| ISO speed range | ISO 50, 100, 200 and 400 | | |
| Longest shutter speed | 32 seconds | | |
| Color management | Hasselblad Natural Color Solution | | |
| Image storage | CF card type II (write speed >20 MB/sec), New Imagebank 100 GB or tethered to Mac or PC | | |
| Storage capacity (single shot) | 2 GB CF card holds 66 images on average | 2 GB CF card holds 40 images on average | |
| Battery type | Sony™ InfoLithiumL NP-F series | | |
| Capture rate | 2 seconds per capture | | |
| Color display | Yes, 2.2 inch OLED type, 24 bit color | | |
| IR filter | Mounted on sensor | | |
| Histogram feedback | Yes | | |
| IAA - Instant Approval Architecture | Acoustic feed back and Metadata classification | | |
| Software | FlexColor (included for Mac and PC) | | |
| Platform support | Macintosh: OSX. PC: NT, 2000, XP | | |
| Host connection type | FireWire 800 (IEEE1394b) | | |
| Operating temperature | 0 - 45 °C / 32 - 113 °F | | |
| Camera support via i-adapters | Hasselblad H system and V system, Rollei 600X and AF, Contax 645AF, Mamiya 645 Pro, 645 AFD, RB and RZ67, Fuji GX680I/II/III. All view cameras via Hasselblad adapter. Horseman | | |
| | | | |
| | DigiFlex II and PrecisionWide 35 via Hasselblad adapter. | | |
| Dimensions | 81 x 81 x 53 mm [W x H x D] | | |
| Weight | 450 g (excluding battery and i-adapter) | | |

Multi-shot versions

| SPECIFICATIONS | Hasselblad CF-22MS | CF-39MS |
|------------------------|---|--------------------------|
| Shooting mode | Single & Multi-shot (4/16x) | Single & Multi-shot (4x) |
| Image size (8 bit RGB) | 4-shot: TIFF 66 MB / 16-shot: 264 MB | 4-shot: TIFF 117 MB |
| Color definition | 16 bit | |
| Dimensions | 81 x 81 x 68 mm [W x H x D] | |
| Weight | 600 g (excluding battery and i-adapter) | |