Hasselblad has raised the bar yet again concerning the capture of super high-quality images. It builds on the achievements and success of multi-shot capture technology with the H5D-50MS and the liberating characteristics of the H5D-50c – the world's first CMOS medium format camera. The H5D-200c MS MS takes still-life studio photography to mind-blowing moiré free 200Mpix resolution. Six shot 'microstep technology' takes maximum advantage of everything the HC lenses have to offer, which is a very great deal in itself, and combines it with the latest CMOS capabilities to produce a quality that is hard to believe is possible. From fine cars to miniature artworks and from delicate fabrics to diamonds – or quite simply where only the best reproduction is acceptable – the 200Mpix multi-shot image offers true color and moiré free capture, providing an astonishing level of detail.

As if that was not enough, this camera still claims all the advantages of the H5D line – True Focus, Ultra Focus, Digital Lens Correction plus being able to shoot regardless of lighting conditions as a result of the very high ISO settings that are capable of unforeseen high quality with remarkably little noise. These top of the range features make the H5D-200c MS such an outstanding camera choice – a studio workhorse to produce unsurpassable quality in a controlled environment to doubling up as a top flight, hand held single-shot camera for shots on the move. Versatility was always a Hasselblad cornerstone and remains so.

This is the camera that leaves all the others behind.

**IMPORTANT FEATURES**

- 200Mpix capability with faster multi-shot capture sequence
- 50 Mpixel CMOS sensor with amazing image quality
- Excellent high ISO performance (100-6400)
- Longer shutter speeds up to 34 minutes.
- Faster capture rate: 1.5 frames per second
- Live Video with high frame rate
- Live video on rear display
- Improved weather sealings
- True Focus auto-focus system with Absolute Position Lock and camera controls.
- A range of 12 high performing lenses with built-in central shutter.

**The H5D-200c MS camera** system has been especially designed to meet demands for both flexibility and ultimate image quality. This includes:

- the freedom to choose between eye-level and waist-level viewfinders both providing the best viewfinder image on any camera.
- the choice of combining point-and-shoot and tilt/shift to solve creative commercial challenges.
- the ability to combine working tethered and untethered to get the most of your camera system both on location and in the studio.
- the option of processing your raw images in Hasselblad's Phocus imaging toolbox, or working with your raw images directly in Adobe Photoshop Lightroom.
- Phocus Mobile app to control the camera and view images on your iPhone/iPad.
New CMOS sensor
The H5D-200c MS features a brand new CMOS sensor measuring 43.8 × 32.9mm - almost twice the physical size of the largest 35mm DSLR sensors. Basic ISO rating is from ISO 100 to ISO 6400. The high sensitivity of the new sensor enables completely new application areas for all professional medium format photographers. It is now totally possible to capture super high quality images even at high ISO settings making low light photography easy. This high sensitivity and fast capture speed together with the high dynamic range of 14 stops makes this camera a true all-round camera that can be used for almost any type of photography.

The H5D-200c MS is built around a high speed architecture that can capture full resolution images at the rate of 1.5 captures per second, working either mobile or tethered to a computer.

Non-compromising details and colors
The H5D-200c MS camera uses a 50Mpix CMOS sensor mounted onto the Hasselblad patented symmetrical multi-shot frame, which accurately positions the sensor with a sub-micron accuracy using piezo-electrical actuators. It can capture 6 shots with the sensor positioned accurately at a sequence of quadrants of the pixel and takes color information from the Bayer-patterned pixels to create a 200Mpix capture. This results in a leap in resolution that has to be seen to fully appreciate the tremendous difference it makes. Be prepared to be impressed beyond your expectations.

Medium Format digital capture advantage
In digital photography, the advantages of large format cameras have become even more obvious. The basic 6×4.5 cm design allows the H5D-200c MS to use one of the largest image sensors currently available in digital photography. Consequently the sensor holds more and larger pixels, which deliver the highest possible image quality in terms of moiré-free color rendering without gradation break-ups in even the finest lit surfaces.

An impressive lens line outperforming even the Carl Zeiss icons
The highly renowned H system lens line includes 12 Auto-Focus lenses, all with central lens shutters. Range is from 24mm to 300mm, 50-110mm zoom, 35-90mm zoom, a 1.7X Converter and a dedicated wide angle Macro Converter. The built-in central shutter allows flash to be used at all shutter speeds down to 1/800s. Making flash photography in daylight easy. It also improves image quality by generating extremely low camera vibration.

The HTS 1.5 tilt/shift adapter delivers an easy to use, portable tilt/shift solution for 6 H System lenses ranging from 24mm to 100mm.

The CF lens adapter allows use of the classic CF-lenses from the Hasselblad V-camera, with full use of their central shutters, allowing flash to be employed at shutter speeds down to 1/500s. And thanks to the large format of the H System cameras, there is a considerably shallower depth of field range, making it much easier to utilize selective focus to creative effect.

A choice of bright viewfinders
One of the important traditional advantages of the medium format is the extra-large and bright viewfinder image, enabling extremely precise compositions and easy operation in dim lighting. The H5D-200c MS comes with the HVD 90x viewfinder designed for full performance over the large sensor. Hasselblad has added an interchangeable waist-level viewfinder, the HVM, for the entire range of H system cameras.

The bright and large viewfinder image is ideal for creative composing and the photographer is able to shoot in the fashion that suits them most: maintaining eye contact with the model, or gaining impact by shooting from a point lower than eye-level, for example.

Digital Lens Correction and Ultra-Focus for image perfection
The H5D-200c MS camera allows information from the lens and exact capture conditions to be fed to the camera processor for ultra-fine-tuning of the auto-focus mechanism, taking into account the design specifications of the lens and the optical specifications of the sensor. In this way the full H System lens program is even further enhanced, bringing a new level of sharpness and resolution. Detailed information about capture condition is also stored in the image file. This information is then used by Phocus to perform digital lens correction, which is an automatic correction of the images based on a combination of the various parameters concerning each specific lens for each specific shot, ensuring that each image represents the best that your equipment can produce. Digital Lens Correction is available regardless if Phocus or Adobe Photoshop Lightroom is used.
**Hasselblad H5D 200c MS**

**Improved handling**
Many new features have been added to the H5D 200c MS to make the use of the camera even easier than before. This includes the option to use the grip controls to control settings and operation of the sensor unit. E.g., you can control zoom, browsing, and menu selection without taking your hand off the grip. The Profile handling where you can store complete camera settings in memory for easy access. Now seven different camera set-ups can be stored and settings both from camera body and sensor unit are stored in the profile. In Phocus you can also easily manage your collection of profiles.

**Live Video and Live View**
The new CMOS sensor allows for much faster operations than CCD sensors. This makes it possible to provide a much improved Live Video in Phocus but also Live View on the rear display. Both modes are perfect for composing and focus checking.

**Phocus for professional level workflow**
Phocus provides an advanced software toolbox that has been especially designed to easily achieve optimum workflow and absolute image perfection from Hasselblad raw image files. With the H5D-200c MS camera system Phocus provides:
- **Uncompromising Image Quality**
- **Extended camera control** with which to operate your H5D-200c MS camera. Features, such as live video for easier shot set-up and workflow, or the ability to control the lens drive for focusing or camera settings when the camera is in a remote position or when the digital capture unit is mounted on a view camera.

**Electronic spirit level**
The H5D-200c MS has an integrated electronic spirit level to make it easy to produce a straight horizon. The spirit level is shown both in the viewfinder and on the rear LCD. You therefore don’t need to take your eye from the viewfinder to check camera alignment.

**Camera info on rear LCD**
To improve visibility in certain situations, the rear LCD can now show a copy of the camera grip LCD where you see all relevant shooting information.
Hasselblad's unique natural colors
Hasselblad's 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 incorporate our unique HNCS and DAC-features we have developed a custom Hasselblad raw file format called 3F RAW (3FR). This file format includes lossless image compression, which reduces the file size by 33%. The 3FR files can be opened directly in Apple or Adobe imaging environments.

Two modes of operation and storage
The H5D-200c MS offers a choice of storage devices: CF cards or a computer hard drive. With these operating and storage options, you are able to select a mode to suit the nature of the work in hand, whether in the studio or on location.

Accessories including GPS Recording Flexibility
Hasselblad’s Global Image Locator (GIL) is an accessory for use with any Hasselblad H-System digital capture product. With the GIL device, all images captured outdoors are tagged with GPS coordinates, time and altitude. This data provides the key to a number of future applications involving image archiving and retrieval. One example is the direct mapping of images in Phocus software to the Google Earth application. Check out full list of accessories at: http://www.hasselblad.com/products/lenses-and-accessories/h-system-accessories.aspx

Options for working with tilt/shift
Two basic options are available for tilt/shift work with H5D-50c MS. A simple-to-use, portable adapter solution and the classic view camera solution.

The HTS 1.5 tilt/shift adapter for H5D-200c MS allows for portable tilt/shift with 6 of the H System lenses ranging from 24mm to 100mm. Effective focal lengths are 36 to 150mm.

Please refer to the separate datasheet on this product for details. To further increase usability, the H5D-200c MS has been designed to allow the digital capture unit to be detached and used on a view camera by way of an adapter.

Please refer to the separate datasheet on Hasselblad View Camera solutions for details.

Six H System lenses including Extension Tubes can be used with the HTS 1.5:
HCD24, HCD28, HC35, HC50, HC80 and the HC100.

H5D with HTS 1.5 tilt/shift adapter and a HCD 28mm lens.
Single-shot
The key to the single-shot quality from a CMOS sensor is the use of a Bayer Mosaic filter. This is a specific filter layout that is used in conjunction with software to interpret the color data from the sensor. A single-shot system delivers one colour per pixel, and the remaining two channels must be estimated and calculated using a best guess strategy. This is done in Hasselblad cameras by using algorithms that optimize color rendition and sharpness without disturbing the perception of the human eye by the artefacts always present in raw single shot captures.

Multi-shot
The advanced Hasselblad Multishot (4-shot and 6-shot) technology eliminates the issues that the single-shot interpolation routine can sometimes introduce, such as moiré and color rendering issues, by physically moving the sensor 1 pixel at a time, thereby capturing the red, green and blue information in each individual pixel point and then combining these captures into one. This results in a true color and moiré free capture with increased level of detail as there is no need for interpolation at all.

Ultimate Still Imaging
High precision piezo-electrical actuators control movements of the sensor in ½ and in one pixel increments. By combining six shots, offset by a combination of both ½ pixel increments and one pixel increments, the colors, Red, Green and Blue of each point are obtained with a double resolution in both the X and Y directions. The result is an astonishing 200Mpixel full color image with no artefacts, such as moiré.

The Bayer Mosaic filter pattern covers the pixels of the sensor. Moving the sensor in one pixel increments between shots, allows for the exact R, G, B values to be captured in every pixel. The multiple captures are then assembled to deliver the correct colors and ultimate definition of detail.

Adding captures, each offset by a ½ pixel sensor movement, creates space for extending the sensor resolution from 50Mpix to 200Mpix. The outstanding definition of color and detail is maintained.
Outstanding image quality
The use of multi-shot capture delivers true color accuracy and exact definition of detail. Depending on the subject matter, your choice of either the 4-shot or 6-shot capture mode will deliver an image quality not seen in any other camera system.
True Focus and Absolute Position Lock

True Focus helps solve one of the most lingering challenges that faces serious photographers today: true, accurate focusing throughout the image field. Without multi-point auto-focus a typical auto-focus camera can only correctly measure focus on a subject that is in the center of the image. When a photographer wants to focus on a subject outside the center area, they have to lock focus on the subject and then re-compose the image. In short distances especially, this re-composing causes focus error, as the plane of focus sharpness follows the camera’s movement, perpendicular to the axis of the lens.

The traditional solution for most DSLR cameras has been to equip the camera with a multi-point AF sensor. These sensors allow the photographer to fix an off-center focus point on an off-center subject, which is then focused correctly. Such multi-point AF solutions are often tedious and inflexible to work with. Due to the physics of an SLR-camera, the off-center focus points that are offered are all clustered relatively close to the center of the image. To set focus outside of this center area, the photographer is still forced to focus first, and then shift the camera to reframe, with the resulting loss of focus as a result.

To overcome this problem, Hasselblad has used modern yaw rate sensor technology to measure angular velocity in an innovative way. The result is the new Absolute Position Lock (APL) processor, which forms the foundation of Hasselblad’s True Focus feature.

The APL processor accurately logs camera movement during any re-composing, then uses these exact measurements to calculate the necessary focus adjustment, and issues the proper commands to the lens’s focus motor so it can compensate. The APL processor computes the advanced positional algorithms and carries out the required focus corrections at such rapid speed that no shutter lag occurs. The H5D’s firmware then further perfects the focus using the precise data retrieval system found on all H System lenses.

The plane of focus changes when the camera is tilted for composition.

The middle image shows the result when not using True Focus. While this image looks relatively sharp, the rightmost image where True Focus has been used, is razor sharp.

Photo: Marcel Pabst
### Technical specification

#### DIGITAL FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor type</td>
<td>CMOS, 50 Mpixels (8272 × 6200 pixels, 5.3 × 5.3 µm)</td>
</tr>
<tr>
<td>Sensor dimensions</td>
<td>43.8 × 32.9 mm</td>
</tr>
<tr>
<td>Image size</td>
<td>RAW capture 75/250/400 MB on average. TIFF 8 bit: 150/150/600MB (1-shot/4-shot/6-shot)</td>
</tr>
<tr>
<td>File format</td>
<td>Lossless compressed Hasselblad 3FR</td>
</tr>
<tr>
<td>Shooting mode</td>
<td>Single shot, 4-shot and 6-shot</td>
</tr>
<tr>
<td>Color definition</td>
<td>16 bit</td>
</tr>
<tr>
<td>ISO speed range</td>
<td>ISO 100, 200, 400, 800, 1600, 3200 and 6400</td>
</tr>
<tr>
<td>Storage options</td>
<td>CF card type U-DMA (e.g. SanDisk extreme IV) or tethered to Mac or PC</td>
</tr>
<tr>
<td>Color management</td>
<td>Hasselblad Natural Color Solution</td>
</tr>
<tr>
<td>Storage capacity</td>
<td>16 GB CF card holds 240 images on average</td>
</tr>
<tr>
<td>Capture rate</td>
<td>1.5 captures per second. 50 captures per minute</td>
</tr>
<tr>
<td>Display</td>
<td>3° TFT type, 24 bit color, 460, 320 pixels</td>
</tr>
<tr>
<td>Histogram feedback</td>
<td>Yes (on rear display and on camera grip display)</td>
</tr>
<tr>
<td>IR filter</td>
<td>Mounted on sensor</td>
</tr>
<tr>
<td>Acoustic feedback</td>
<td>Yes</td>
</tr>
<tr>
<td>Software</td>
<td>Phocus for Mac and Windows</td>
</tr>
<tr>
<td>Platform support</td>
<td>Macintosh: OS X 10.5/6/7/8/9; PC: XP/Vista/Windows 7 (32/64 bits)/8 ¹</td>
</tr>
<tr>
<td>Host connection type</td>
<td>FireWire 800 (IEEE 1394b) Hasselblad Tethered plug-in for Adobe Photoshop® and Adobe Lightroom®</td>
</tr>
<tr>
<td>View camera compatibility</td>
<td>Yes, Mechanical shutters controlled via flash sync. Electronic shutters can be controlled from Phocus</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 - 45 °C / 32 - 113 °F</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Complete camera with HC 80mm lens: 153 x 131 x 207 mm [W x H x D]</td>
</tr>
<tr>
<td>Weight</td>
<td>2500 g (Complete camera with HC 80mm lens, Li-Ion battery and CF card)</td>
</tr>
</tbody>
</table>

¹ Phocus 2.8 or later 64 bit only

#### CAMERA FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera type</td>
<td>Large sensor medium format DSLR</td>
</tr>
<tr>
<td>Lenses</td>
<td>Hasselblad H system lens line with integral central lens shutter</td>
</tr>
<tr>
<td>Shutter speed range</td>
<td>34 minutes to 1/800 second</td>
</tr>
<tr>
<td>Flash sync speed</td>
<td>Flash can be used at all shutter speeds</td>
</tr>
<tr>
<td>Viewfinder options</td>
<td>· HVD 90x: 90° eye-level viewfinder w. diopter adjustment (-5 to +3.5D). Image magnification 3.1 times. Integral fill-flash (G.No. 12 @ ISO100). Hot shoe for SCA3002-system flashes from Metz™</td>
</tr>
<tr>
<td></td>
<td>· HV 90x: 90° eye-level viewfinder w. diopter adjustment (-4 to +2.5D). Image magnification 2.7 times. Integral fill-flash (G.No. 12 @ ISO100). Hot shoe for SCA3002-system flashes from Metz™</td>
</tr>
<tr>
<td></td>
<td>· HVM: Waist-level viewfinder. Image magnification 3.2 times</td>
</tr>
<tr>
<td>Focusing</td>
<td>Autofocus metering with passive central cross-type sensor. Ultra focus digital feedback. Instant manual focus override. Metering range EV 1 to 19 at ISO 100</td>
</tr>
<tr>
<td>Flash control</td>
<td>Automatic TTL centre weighted system. Uses built-in flash or flashes compatible with SCA3002 (Metz™). Output can be adjusted from -3 to +3 EV. For manual flashes a built-in metering system is available</td>
</tr>
<tr>
<td>Exposure metering</td>
<td>Metering options: Spot, Centre Weighted and CentreSpot. Metering range Spot: EV2 to 21, Centre Weighted: EV1 to 21, CentreSpot: EV1 to 21</td>
</tr>
<tr>
<td>Power supply</td>
<td>Rechargeable Li-ion battery (7.2 VDC / 2900 mAh)</td>
</tr>
<tr>
<td>Film compatibility</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Victor Hasselblad AB reserves the right to make changes without notice to the above specifications
Hasselblad H5D 200c MS

Connectivity diagram

Optional viewfinders
- HV 90x viewfinder
- HVM waist-level viewfinder

Tilt/Shift
- HTS 1.5, for use with HCD28, HC35, HC50, HC80 and HC100 (including extension tubes)

Host computer with FireWire, running Phocus
- Schneider Shutter Control ES
- Rollei Lens-Control S

Any view camera with Hasselblad H adapter
- Flash sync input cable
- Expose cable

View cameras – Flash sync shutters
- Sensor unit (included)
- Camera body
- Lenses
  - All H System lenses, including extension tubes and converter

View cameras – Electronic shutters
- Host computer with FireWire, running Phocus
- Schneider electronic shutter control
- Optional V system lenses
- CF lens adapter

Accessories
- GIL GPS receiver
- SCA3902 TTL Flash Adapter

Optional viewfinders
- HV 90x viewfinder
- HVM waist-level viewfinder

View cameras – Flash sync shutters
- Flash sync input cable
- Any view camera with Hasselblad H adapter
- Host computer with FireWire, running Phocus

View cameras – Electronic shutters
- Expose cable
- Any view camera with Hasselblad H adapter
- Host computer with FireWire, running Phocus
- Schneider electronic shutter control
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Hasselblad H5D 200c MS

H5D-200c MS lens range

- HCD 4.8/24mm
- HCD 4/28mm
- HC 3.5/35mm

- HC 3.5/50-IImm
- HC 2.8/80mm
- HC 2.2/100mm

- HC Macro 4/120-IImm
- HC 3.2/150mm
- HC 4/210mm

- HC 4.5/300mm
- HC 3.5–4.5/50–110mm
- HCD 4.0–5.6/35–90mm

Most V system C type lenses with optional CF lens adapter