

5.31 BATTERY

CHARGE THE BATTERY

Note!

The battery will become fully charged after approximately 6 hours before first use.

- 1 Remove the battery from the camera (A).
- 2 Insert the jack plug from the battery charger into the socket on the battery grip (B).
- 3 Insert the battery charger into a standard (100–240V~/50–60 Hz) domestic socket.

During the charging procedure, the lamp on the charger shows the following:

- Standby (no battery connected)
- Charging
- Ready



CHECK THE BATTERY STATUS

- 1 On the Sensor Unit Menu Control Screen select the Battery symbol in the upper right corner.

The Grip Screen displays:

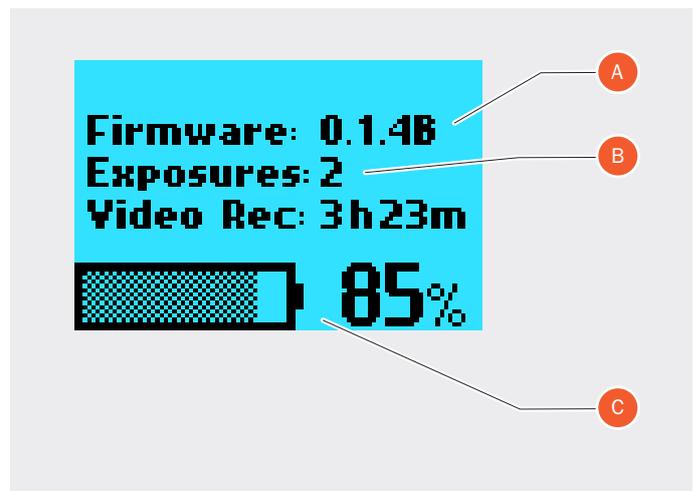
- The firmware version (A).
- The number of captures taken since the last battery recharge/change (B).
- A rechargeable-battery status icon (C) that provides a quick visual check as well as a figure estimate in percent.

Note!

Remember that these are only estimates and that there are a number of factors affecting remaining battery charge, ambient temperature for example, as well as general practice.

Note!

You can save battery consumption by changing the Display Off/Sleep/Power Off settings as well as the brightness settings of the display.



5.32 PROTECTIVE BASEPLATE

REMOVE THE PROTECTIVE BASEPLATE

- 1 Lift the securing catch while pushing the plate towards the lens.



ATTACH THE PROTECTIVE BASEPLATE

- 1 Slip it over the camera foot until it stops and the securing catch snaps into place.



5.33 STORE THE CAMERA

Caution!

Before you connect the sensor unit to the H6D camera after storage, always replace the protective CMOS/filter cover. This will prevent damage to the equipment.

Caution!

If you leave the camera unused for a long period, remove the batteries. This will prevent damage to the equipment.

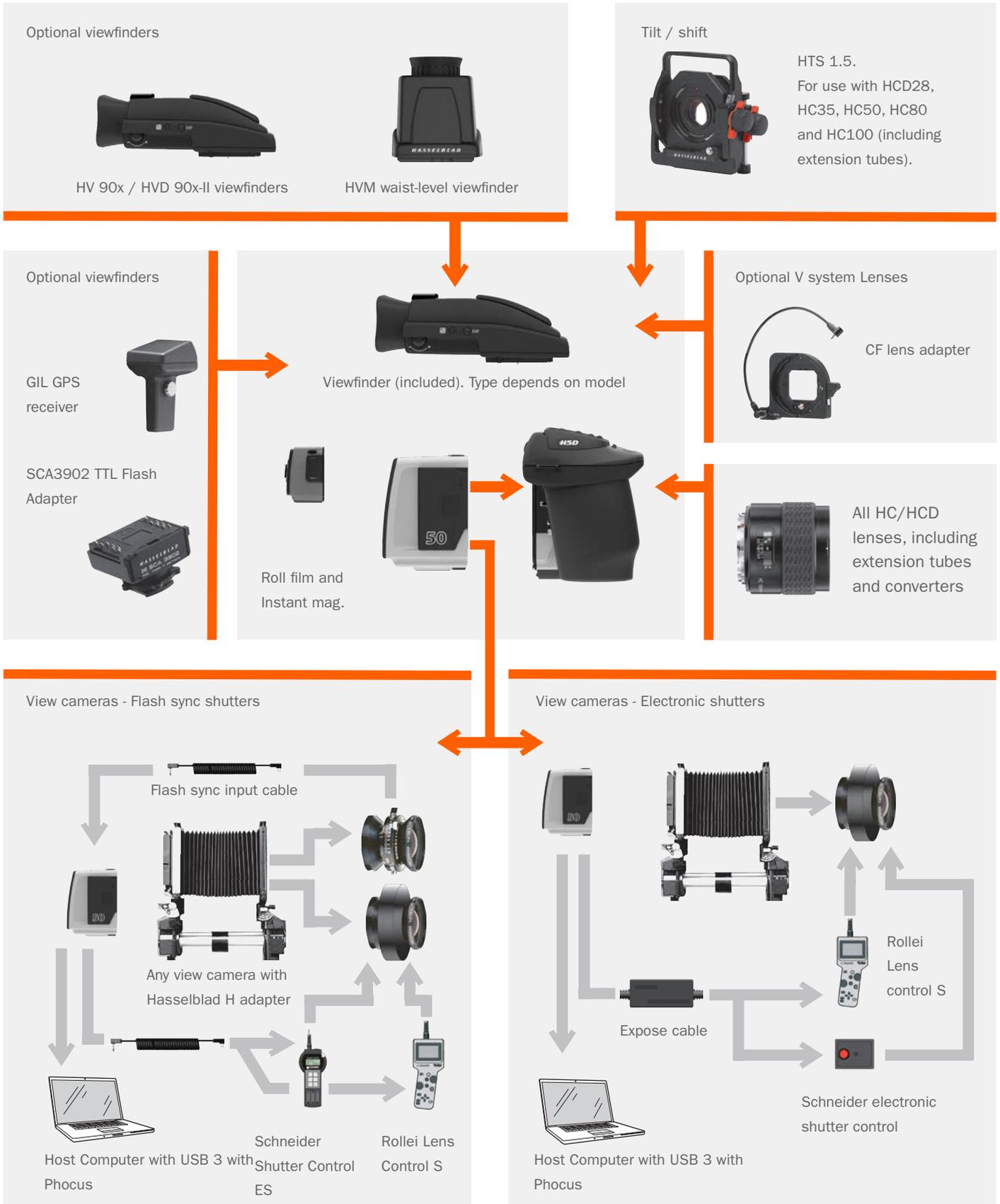
Caution!

Keep camera and equipment away from moisture. If your camera becomes wet, disconnect from electric power and let camera dry before further use. This will help prevent damage to the equipment.

Caution!

Store the equipment in a dry environment. This will help prevent damage to the equipment.

6.1 ACCESSORIES CONNECTIVITY DIAGRAM



6.2 HC 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

V system C type lenses with optional CF lens adapter



6.3 OPTIONAL HC LENS ACCESSORIES

HTS 1.5

(3043400)

The HTS 1.5 is a tilt and shift adapter designed for the HCD28mm, HC35mm, HC50mm, HC80mm and the HC100mm lenses. It not only solves technical challenges but also provides exciting opportunities for creative solutions.



CF ADAPTER

(3043500)

The CF adapter allows almost all lenses from the V-system to be used on H system camera bodies. This adapter expands the potential lens range for H cameras by more than a dozen different focal lengths.



H 13, 26 AND 52 EXTENSION TUBES

(3053513, 3053526 and 3053542)

The Extension tubes attach between the lens and the body to reduce the close focusing distance for close up photography. They are available in three sizes: 13 mm, 26 mm and 52 mm. As the H6D has a TTL light metering system, exposure compensation is automatic.



CONVERTER H 1.7X

(3023717)

The Converter attaches between the lens and the body to increase the focal length by a factor of 1.7. This provides a convenient way to expand your range of lenses. The Converter H 1.7 X features the same outstanding optical and mechanical quality as all the lenses in the Hasselblad H system. The optical design consists of 6 elements in 4 groups.



MACRO CONVERTER H

(5023720)

The Macro Converter is designed to improve the close range performance of wide angle H system lenses. Although primarily aimed for use in conjunction with the HC 50-II lens for optimum performance, it can also be used with any of the of the other H system wide angle lenses.



6.4 OPTIONAL ACCESSORIES

HVM WAIST LEVEL VIEWFINDER

(3053328)

The HVM waist level viewfinder allows a comfortable lower viewing angle either for effect or where eye contact with the subject is desirable in portrait photography, for example. Autofocus function of all lenses fully retained. Intended for horizontal format shooting and not suitable for vertical format use.



PRO SHADE V/H 60 – 95

(3040740)

An adjustable bellows lens shade that provides highly efficient protection against stray light. Its compact, flat folding design saves space in the equipment case. With adapters it fits all HC lenses and virtually all V system lenses. Also features a filter holder for glass, gelatin, or plastic filters.



PRO SHADE ADAPTERS

(3043415, 3043417, 3043419)

67mm, 77mm and 95mm adapters with bayonet mount for HC lenses. Features lock to provide positive and secure attachment.



GIL (GLOBAL IMAGE LOCATOR)

(3053300)

The Hasselblad GIL (3053300) provides automatic creation and storage of GPS information for all H-system digital cameras. The data is tagged to each individual image file and can be read directly by Phocus. The back requires no extra external battery or power source and works seamlessly in the background for ease of use.



TRIPOD QUICK COUPLING H

(3043326)

Mounted on a tripod, this accessory facilitates rapid attachment and removal of the camera. The camera is firmly held in an exact and repeatable position. Two integrated spirit levels make horizontal positioning of the camera easy. The Tripod quick coupling H fits 1/4" and 3/8" tripod threads and has a safety catch.



FLASH ADAPTER SCA 3902

(3053393)

For connecting flashes compatible with the SCA 3002 system to the Hasselblad H6D.



UV-SKY FILTERS

Absorbs UV radiation and reduces blue haze without affecting colours. Also protects the front lens surface. Particularly recommended when the camera is used in harsh conditions. Available in three sizes to suit various lenses.

67mm: 3053470, 77mm: 3053474 and 95mm: 3053478



POLA FILTERS

Reduces non-specular reflections and glare. Increases colour saturation in general. Can intensify a blue sky. Available in three sizes.

67mm: 3053482, 77mm: 3053486 and 95mm: 3053490



SUPPORT STRAP WITH QUICK PLATE H

(3045154)

Improves comfort and security with hand held photography. Complete with quick plate H.



CAMERA STRAP H

(3053616)

Extra wide camera strap with anti slip backing. Supplied with the camera.

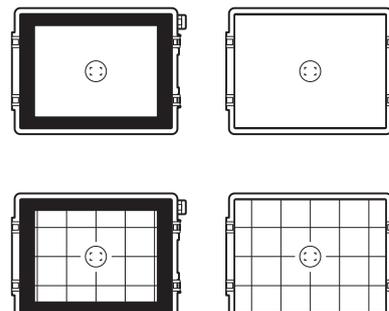


FOCUSING SCREENS

All focusing screens are of the Spherical Acute-Matte D type with or without grid and central markings for spot (\varnothing 7.5 and AF metering area. Grid patterns provide aid in technical, architectural, documentation and other similar fields.

H6D-50c (3043336), H6D-50c Grid (3043338)

H6D-100c (3043332), H6D-100c Grid (3043334)



RELEASE CORD H

(3043370)

Remote release cord with a cable length of 0.5 m.



HVM CORRECTION LENS HOLDER

(3053348)

Lens holder for custom made eyesight correction (lenses available from opticians). To be used for optimal viewing comfort and accuracy.



HVD 90X / HV 90X & 90X-II VIEWFINDERS

(3053330, 3053326, 3053334)

90 degrees reflex viewfinder, providing 100% field of view even when wearing eyeglasses. Includes built-in fill flash and multi-mode light metering system.



ANGLE FINDER H

(S100A12359A00)

Angle finder for the HV 90x and the HVD 90x viewfinders. Enables vertical viewing angle regardless of camera position. Requires a minor modification to the viewfinder eyepiece.



DC POWER GRIP

(3043350)

Removable H-camera grip with AC power adapter for supplying camera power from domestic mains supplies.



6.5 HM 16-32 FILM MAGAZINE

The Hasselblad HM 16-32 film magazine is a sophisticated semi-independent unit within the H system. It has its own power supply for individual information storage, LCD panel, illumination, etc. It features: automatic 120/220 compatibility, automatic wind on/wind off, automatic film advance, LCD information panel, integral dark slide, customizable data imprinting, illuminated LCD, bar code recognition, count-up or countdown film frame reminder choice and multi shot option.



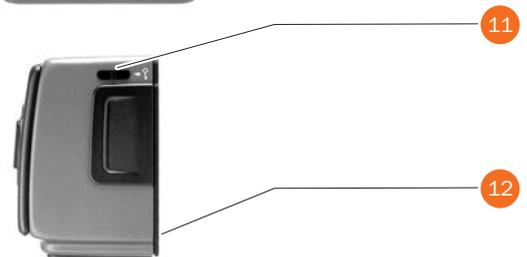
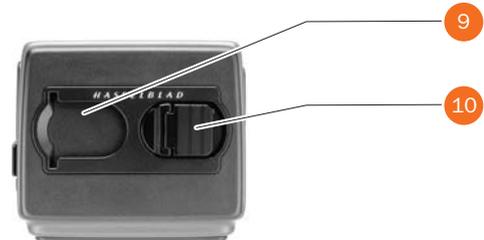
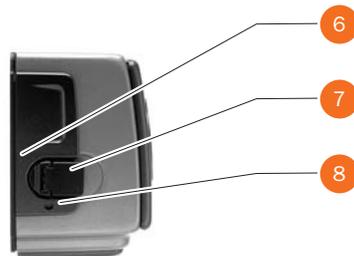
Parts and components

- 1 LCD panel
- 2 LCD illumination button
- 3 Change up button
- 4 Change down button
- 5 Function selector
- 6 Film plane index
- 7 Dark slide key
- 8 Dark slide indicator
- 9 Film tab holder
- 10 Film holder key
- 11 Magazine settings lock
- 12 Data bus interface



Note!

Information is transmitted and received between the Magazine and the camera body, so ensure the data bus connection is kept clean and not damaged in any way. It is advisable to fit the magazine protective cover when storing a film magazine to protect both the data bus connection and the dark slide.

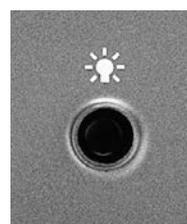
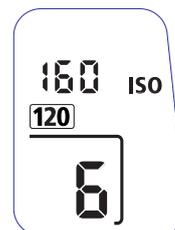


LCD Panel

The various functions are accessed by repeatedly pressing the function selector button (loop menu) and changes made by the 'change-up' and 'change-down' buttons. Any settings are automatically saved. At very low temperatures the LCD will require a few seconds to display new settings.

LCD illumination button

The LCD can be illuminated by pressing the display illumination button, which is accessible when the magazine is not attached to the camera. The LCD will remain illuminated all the time you keep the button depressed, up to a maximum of 10 seconds. After 10 seconds has expired, you must release the pressure on the button and press again to obtain a further 10 second period of illumination. Remember that using the illumination function very often will noticeably shorten the life of the battery in the magazine. When the magazine is attached to the camera, the button on the magazine is inaccessible but you can still illuminate the LCD by pressing the illumination button on the grip instead.



Accessories

Change Up / Change Down Button

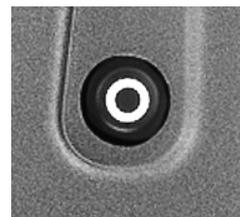
Can alter the settings 'upwards'. For example, to increase the film speed setting. Toggle action.

Can alter the settings 'downwards'. For example, to decrease the film speed setting. Toggle action.



Function Selector

Selects the four functions that can be changed on the magazine. The functions are on a menu loop so that repeated pressing of the selector button will successively access all functions in turn. After a time-out of five seconds of non-activity, the display returns to the main screen.



Note!

Changes can only be made when the settings lock switch is in the unlocked position.

Film Plane Index

Provides a measuring point for the actual position of the film plane in the magazine. Used for calculations in critical applications.



Dark slide Key

Withdraws and replaces the dark slide. Fold out the key and turn it counter-clockwise 360° (towards the open symbol) to withdraw it and clockwise 360° (towards the closed symbol) to replace it.



Note!

The dark slide can only be withdrawn when the magazine is attached to the camera.

Dark slide Indicator

Indicates whether the dark slide is in place or withdrawn:

RED = stop ! = exposure CANNOT be made
(magazine can be removed from camera)

WHITE = ok ! = exposure CAN be made
(magazine cannot be removed from camera)



If you attempt to make an exposure when the dark slide is closed, however, you will receive a warning message in the viewfinder and grip LCD's – 'The dark slide is closed'.

Accessories

Film Tab Holder

Holds an ID tab from the film roll pack as a reminder of the type of film loaded. Remember to change it if you change film type!

Film Holder Key

Secures the film holder in the magazine. Fold out the key and turn counter-clockwise 90° to remove the film holder and turn clockwise 90° to lock the film holder in place.

Magazine Settings Lock

All settings can be locked to avoid inadvertent changes. To change the settings, slide the settings lock (see illustration) to the right until it stops. After the changes have been made, slide the settings lock to the left (see symbol on magazine) again to secure the new settings.

Data bus Interface

Data interface between magazine and camera. Ensure the contacts are kept clean and protected from damage. Keep the protective cover on when the magazine is being stored or transported.

Battery

The magazine uses a battery to retain information and settings when unattached from the camera. When attached to the camera body, the magazine takes its power requirements from the camera batteries. The magazine battery will normally be effective for 1-2 years depending on use (off camera illumination, for example). When the battery is in a very low condition, (approx. 1 month of use left), a low battery symbol appears on the magazine LCD as a warning. The magazine will continue to function with no battery power left as long as it remains attached to the camera body. However, when detached, the settings will not be stored.

Battery Replacement

Release the film holder by folding out the film holder key and rotating it 90° in a counter-clockwise direction. Withdraw the film holder completely. On the bottom plate on the inside of the film magazine housing you will find a slotted circular battery cover. Insert a small coin or similar into the slot and rotate the cover about 20° in a counter-clockwise direction. The cover will be freed and the battery can be removed. Replace with a fresh CR2032 / 3V lithium (or equivalent) battery. Observe the polarity and ensure the positive (+) face is uppermost and replace the cover (ensure the retaining lugs are inserted in the battery compartment slots), locking it into place by rotating it in a clockwise direction until it stops. If you inadvertently



insert the battery incorrectly, the film magazine will not be damaged though it will not function. Try to avoid touching the surface of the battery with your bare fingers as sweat residue can decrease the electrical conductivity of the battery casing and might cause corrosion. After battery replacement, the magazine's parameters return to the default settings (Bar code, 120, Data-on, Count up).

Attach and Remove the Magazine

You cannot remove a magazine from the camera body if the magazine dark slide is not in place, (when the magazine dark slide indicator on the magazine shows white). Neither can you withdraw the magazine dark slide when the magazine is not attached to the camera. Both these restrictions therefore prevent accidental film loss caused by fogging.

Attachment

Position the magazine retention groove onto the magazine support on the camera body ensuring that they are correctly positioned. Swing the magazine towards the camera body and firmly press into place with a click. If there is resistance, the magazine retaining catch on the camera has probably been inadvertently released. In that case, push the release button again to reset the catch. You can attach and remove the magazine with or without the film holder in place. If you just want to change to a new film, you can remove and reload the film holder without having to remove the whole magazine.



Removal

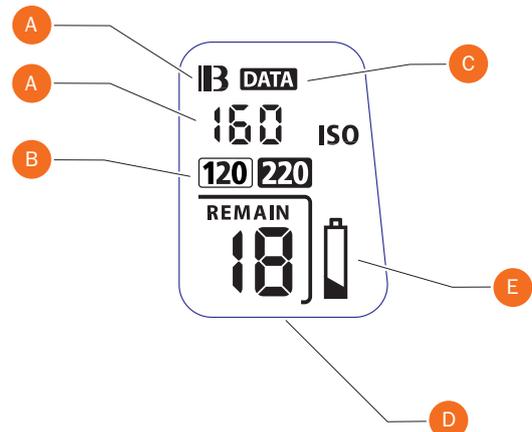
Ensure that the dark slide indicator on the magazine shows red (signifying that the dark slide is closed). Firstly push the lever of the magazine release button to the right (fig. 4/1) and while maintaining that position press the centre of the button firmly inwards towards the camera body (fig. 4/2) to finally release the magazine.



- Ensure you press on the centre of the button, not on the lever.
- You cannot remove a magazine if the dark slide is not closed.
- If the film holder is inadvertently removed mid-film, then exposed frames will naturally be lost due to light fogging. However, if the film holder is reinserted, the film will automatically be advanced by three frames to position fresh unexposed film. The film counter will also correspondingly add on three frames to the original number recorded before the film holder was removed.

Press the function selector (button) repeatedly to successively access:

- A Film speed (ISO / Bar Code)
- B Film length (120/220/ Number of frames)
- C Data (on/off)
- D Frame counter (count down / count up)
- E Low-battery warning symbol



Film Speed Setting / Bar code

The film speed (ISO / ASA) can be set automatically or manually. Automatic setting uses a Bar code (only some films have this feature, notably Fujifilm). This is the default setting.

Film settings (ISO / film length) are automatic only if the magazine is set at Bar code automatic. That is, a bar coded film cannot override a manual film speed setting but a manual setting can override the film speed of a bar coded film.

Films without a bar code must have their speed set manually. A manual setting must also be made if you want to override the speed setting of a bar coded film.

To access Manual setting:

- 1 Ensure the magazine settings lock is in the unlocked position.
- 2 Press the button until a figure (or bar code symbol) appears together with ISO.
- 3 Press either the or the button to reach the required setting.
- 4 The new setting will be saved automatically after a time out of five seconds.
- 5 Return the LCD settings lock to the locked position.

Note!

If you use both standard and bar coded films (or overridden bar coded films), check that you have changed the settings accordingly.

Film Length / Number of Frames

Both 120 and 220 films can be used. 120 film will produce 8 (for use with 'half length' 120 films only) or 16 frames and 220 film will produce 32 frames. If the film has a bar code, then film length setting (and film speed setting) is automatic. The LCD will automatically show the bar code symbol and the appropriate film length. (Note that film speed can be overridden with bar coded films, but not film length).

If, however, the film has no bar code then proceed as follows:

To access film type setting:

- 1 Ensure the magazine settings lock is in the unlocked position.
- 2 Press the button until the 120 or 220 symbol appears.
- 3 Press either the or the button to change the desired setting.
- 4 The new setting will be saved automatically after timeout.
- 5 Return the magazine settings lock to the locked position.



EXAMPLE



Film Speed

Film Length

Data

Frame Counter

Data Imprint Setting

Data imprinting can be activated or deactivated through the magazine menu.

Access data setting:

- 1 Ensure the magazine settings lock is in the unlocked position.
- 2 Press the button until the Data symbol appears.
- 3 Press either the or the button to reach On or Off.
- 4 The new setting will be saved automatically after a time out of five seconds.
- 5 Return the magazine settings lock to the locked position.

Note!

Operation and changes made to the data imprinting function are accessed through the camera menu. Please see separate section for full details.

Frame Counter Setting

The frame counter can be set to show either how many unexposed frames remain on a film or how many frames have already been exposed. The LCD shows your choice of setting by adding the word Remain as a reminder of the number of frames remaining or 'countdown'. Absence of this word implies the opposite, namely, 'count-up', so it denotes the number of the next frame to be used (for example, the figure 4 means three frames have already been exposed). This information is also automatically displayed on the grip LCD and viewfinder LCD though only as a figure above a symbol.

Access frame counter setting:

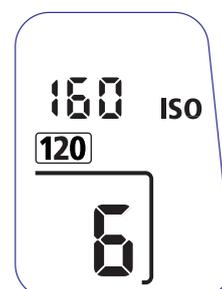
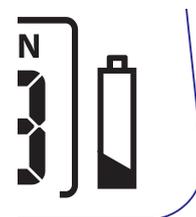
- 1 Ensure the magazine settings lock is in the unlocked position.
- 2 Press the button until Remain appears.
- 3 Press either the button or the button to reach the desired setting (toggle function).
'on' will show the number of frames remaining on the roll.
'off' will show the number of the next frame in the series.
- 4 The new setting will be saved automatically after a time out of five seconds.
- 5 Return the magazine settings lock to the locked position.

Low Battery Symbol

The low-battery symbol only appears on the magazine LCD when the battery needs changing.

Example

- 120 film length set manually
- the film speed (ISO160) has been set manually
- 5 frames already been exposed (with regular 120 film, 11 frames remain)
- the battery is functional



Film Loading

The film magazine can be loaded either on or off the camera. Regularly check the interior of the magazine and remove dust, particles or any scraps of paper from previous rolls of film. Load and unload film magazines away from direct light sources.

- 1) Fold out the film holder key and turn it counter-clockwise 90° A. Withdraw the film holder completely B.
- 2) Place an empty take-up spool in the upper spool holder by placing one end over the fixed stud in the holder and the other end underneath the sprung spool retaining arm. Rotate the spool a little if necessary until it clicks into position.
- 3) Completely remove the retaining paper band from a new roll of film and place it in the lower spool holder. See diagram for correct orientation. Ensure you do not place the film spool the wrong way around!
- 4) Pull 8–10 cm (3–4 in.) of paper backing from the film roll and insert the tongue of the backing paper into the slot in the take-up spool. Turn the spool one complete turn to ensure the tongue is firmly held in place by the overlying paper backing.
- 5) Re-insert the film holder into the main body of the film magazine ensuring the correct orientation. Press firmly inwards towards the magazine and pay particular attention to see that both sides are level with the magazine body A before turning the film holder key clockwise 90° to lock the film holder in place and fold the key back into its stored position B. You might find that increased pressure on the left hand side of the film holder will more easily ensure a positive and correct positioning in the magazine. If the camera is active or in standby mode the film will be wound automatically by the camera to position the first frame (this function can be changed in 'Custom options' so that the film is advanced only when the shutter release button is pressed the first time).



Beeper

The beeper sounds immediately after last-but-one frame has been exposed. This function can be turned off in Options.

Film Wind On and Off

Wind on: See 'Film wind-on' under Custom Options for a setting choice. Wind off: When the last frame has been exposed, the film will automatically be wound off. However, to wind off a film sooner, press the film wind off button. Use a ballpoint pen or similar to activate it. You must also confirm the message on the grip LCD before the film winds off.



Unloading a film

Remove the film holder in the same manner as when loading a film. Grip the exposed roll of film firmly and remove. Ensure the paper backing is wound tightly and that it is sealed with the band properly (the band may need to be moistened to activate the adhesive depending on type). Store exposed films away from strong light sources and contact with sharp objects. Move the remaining empty spool to the take-up spool compartment.



Problem	Possible cause	Suggested correction
Error message	-	See chapter 7.1 Error Messages.
Camera is deactivated	<p>The camera can be affected by a discharge of electricity. This can happen when the area around the control buttons on the grip accidentally touches a conductive cord or material connected to earth.</p> <p>This can deactivate the camera and does not cause any damage.</p>	Press the red ON - OFF button on the grip to activate the camera.
Wrong language	If the sensor unit has been set to a language you don't understand (on a rented camera, for example), you can navigate to your preferred language by following the actions and appearance in the illustrations here.	See chapter 7.2 To Change Language On Sensor Unit From Unknown Language.
Dark or coloured spots or lines in your images	Dirt or particles on the surface of the camera lens	See chapter 7.3 To Clean The Lens Glass.
	Dirt or particles on the surface of the sensor unit's infrared (IR) filter	See 7.4 To Clean the sensor unit filter.
Temperature warning icon appears	<p>Rapidly taken captures make heavy demands on the processor in the sensor unit which in turn produces heat. This can in combination with high ambient temperature result in noise in the image files.</p> <p>At ca. 60°C a warning dialogue appears notifying that the sensor unit is temporarily shutting down to allow the sensor unit to cool.</p>	Let the sensor unit cool down for at least 20 minutes.
Time and date settings on the sensor unit does not work	Time and date settings on the sensor unit (which are included with files and folder labels) are updated automatically through a USB3/Phocus connection. These settings are retained for about two consecutive weeks by a small rechargeable cell that is automatically recharged by the main battery or USB3 with regular use.	Leave the sensor unit ON for 12 hours.

7.1 ERROR MESSAGES

If any error message is shown, do as follows:

Caution!

Be careful when you attach/detach the components to/from the camera. This will help prevent damage to the data bus connections.

- 1 Detach the components from the camera.
- 2 Attach the components to the camera again.

If the error message still shows, do as follows:

- 3 Detach the battery grip.
- 4 Wait 10 seconds.
- 5 Attach the battery grip again.
The camera's processor have now been reset.

If the error message still shows, do as follows:

- 6 Write down the error message.
- 7 Contact your local Hasselblad Authorized Service Center.

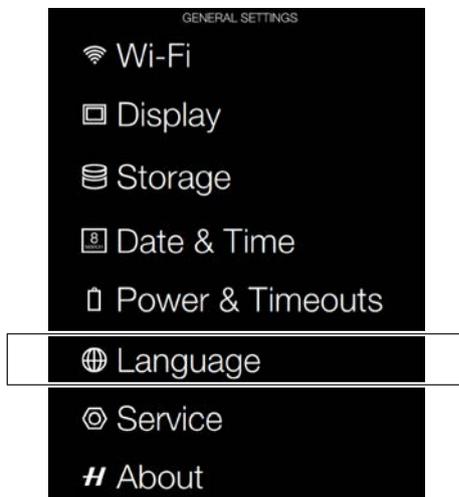
7.2 CHANGE LANGUAGE ON SENSOR UNIT FROM UNKNOWN LANGUAGE

MAIN MENU > GENERAL SETTINGS > LANGUAGE

- 1 Press the General Settings icon on the Sensor unit display.
- 2 The General Settings Menu will appear.
- 3 Navigate to the menu item with a Globe icon (number 6 on the list from the top, Language).
- 4 Scroll down to select your Language.

Swipe right or press Menu / EXIT button to get back to Main Menu.

General Settings Menu



Language Menu



7.3 CLEAN THE LENS GLASS

REMOVE DUST

Caution!

Do not touch the glass surface with your fingers. This can cause damage to the equipment.

If there is dust on the lens glass, do as follows:

- 1 Remove the dust with a blower brush or very soft lens brush.

REMOVE SMEAR

Caution!

Do not touch the glass surface with your fingers. This can cause damage to the equipment.

If there is smear on the lens glass, do as follows:

- 1 If you are not sure how to remove the smear, contact your local Hasselblad Authorized Service Center.
- 2 Clean the lens glass with a high quality lens cleaning solution on a tissue.

7.4 CLEAN THE SENSOR UNIT FILTER

Caution!

Be careful when you attach/detach the components to/from the camera. This will help prevent damage to the data bus connections.

Caution!

When you remove the sensor unit, keep foreign objects away from the camera opening. The camera opening is very sensitive. This will help prevent damage to the equipment.

- 1 Remove USB 3 cable if connected.
- 2 Rotate the sensor unit release button to the right.
- 3 Maintain the position and press the centre of the button firmly inwards towards the camera body (X) to finally release the magazine.
- 4 Carefully clean the outside surface of IR filter by using clean compressed air.

Caution!

If you use canned compressed air to clean the glass of IR filter, read the instructions very carefully before use. This will help prevent damage to the filter.

If compressed air did not remove all the problems on the filter, use an E-wipe. Do as follows:

- 5 Tear at the notch to break seal.
- 6 Remove an E-wipe from the package and fold the tissue to match the width of the IR filter.
- 7 Apply firm pressure using two or three fingers at the edge of the wipe to ensure an even, firm contact with filter surface.
- 8 Wipe the surface in one unbroken motion.

Note!

Do not use same side of the E-wipe twice as you will be likely to reapply particles removed in the first pass.

- 9 Attach the sensor unit again to the camera immediately after cleaning.
- 10 Capture a number of images.
- 11 Inspect the images.

If you still see spots on your images, you may have dust either on the inside of the IR filter or on the CMOS itself. Do as follows:



Caution!

Do not try to remove the glass IR filter from the front of the sensor (due to dust or similar). This can cause damage to the equipment. Always contact your local Hasselblad Authorized Service Center.

Contact your local Hasselblad Authorized Service Center.

User Guide for Hasselblad H6D

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