CF Lens Adapter

User Manual

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SAU

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ENG

CF Lens Adapter

The CF Lens Adapter (3043500) allows the use of all C-type lenses from the V System on H cameras. Integral processors for data conversion bridge the two systems to access a number of the H-display and lens-control functions. The adapter allows:

- ***light metering at full aperture.***
- ***electronic focus confirmation on viewfinder display.***
- ***exploitation of databus connection with CFE lenses.***
- ***access to shutter speeds (manually set on lens) from 1s–1/500s including B and T mode.***

Functions such as autofocus and continuous drive are an integral part of the H System only so they are therefore not available when C lenses are used. Likewise, as the light measuring and aperture/shutter controls are also different between the two systems, then camera operation differs too. Some other restrictions also apply regarding specific lenses or combinations of lenses/converters.

Operation of the adapter is not difficult but requires an awareness of certain points that contrast with regular H operation. You can use the adapter immediately by going through the procedures described under the Quick Start heading but a thorough reading of this manual is advised to ensure optimum performance.

CF Lens Adapter compatibility

Please make sure your camera has the latest firmware which you can find at www.hasselblad.com.

The H6D camera requires firmware **1.19.0** or later for CF Lens Adapter use.

When using the CF lens Adapter together with an H6D camera, the function “My Lenses” is not available. Hence, all references to “My Lenses” is only valid for H5D cameras and earlier.

F/FE type lenses and video with H6D

For still images it is not possible to use F/FE type lenses as they don’t have a built-in shutter. However, they can be used on the H6D for making video capture.

Note that when attaching an FE 110 or FE 60-120 lens, there will be a message on the camera grip saying “**Lens type not supported**” and the camera is blocked for still image captures. It is however, possible to activate video mode and recording from the Sensor Unit user interface. F type lenses will not generate this message and you can activate video mode and control recording from the grip.

See H6D User Manual for more details.

All Lenses screen with the H6D camera

The illustration below shows the H6D grip screen that will appear when a lens is mounted on the CF Lens Adapter. This corresponds to illustration **5** on page 19.

The figures beside the headings refer to the relevant illustrations for that section. Rotation directions are described as seen when facing the camera.

Please note that the adapter requires firmware version 9.0.0 or later (H6D 1.19.0 or later) installed in the camera! (see camera manual for details).

Parts and Components 1

1. **Lens locating index**
2. **Connecting cable**
3. **Databus connector for CFE lenses**
4. **Lens cocking lever**
5. **Adapter locating index**
6. **Drive shaft**
7. **Adapter release catch**
8. **Camera databus connector**

Quick start 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

C-type lenses from the V System have changed over the years in functionality and appearance. The illustrations therefore show some variations that might not match the lenses you are using. The later CFE/i models, for example, have a locking device on the PC flash connector whereas earlier models did not. Please see the relevant user manual for details.

a. Align the red adapter locating index on the rear of the adapter with the red index on the camera body (illus 2) and rotate the adapter clockwise until it clicks into place.

b. Align the index on the lens with the red lens locating index on the adapter (illus 3) and rotate the lens clockwise until it clicks into place.

c. Attach the connecting cable to the PC socket on the lens (illus 4).

d. The grip LCD on the camera will automatically display the lens and converter choice screen (such as in illus 5).

e. Rotate the front control wheel to choose the lens and the rear control wheel to choose the converter (or No converter). For example, 150 mm lens with 'No converter', as in illus 6. Finally, press the button labelled "Save" to store the setting and automatically access the standard screen.

f. The focal length of the lens chosen (illus 7) as well as a 'X' symbol for a converter if chosen (illus 8) now appears on the LCD beneath the AF button.

g. Ensure the depth-of-field button on the lens is in the off position, illus 9.

h. When measuring the light, the camera will display setting information which has to be transferred to the lens, for example 1/60s at f/11 as in illus 10. See relevant lens user manual if you are not familiar with the settings on C lenses. This procedure varies according to the type of lens:

C/CF/CFi lenses — Rotate the front control wheel on the grip to scroll through the list of aperture/shutter combinations visible on the grip LCD and the viewfinder LCD. Transfer the chosen shutter speed / aperture combination settings (or EV visible on grip LCD) to the lens.

CFE lenses — Pre-set the aperture of your choice on the lens. This setting will appear on the grip and viewfinder LCD alongside the shutter speed chosen by the camera. Transfer the shutter speed setting from the grip or viewfinder LCD (or EV visible on the grip LCD) to the lens.

i. Make the exposure.

j. The message 'Cock the lens' now appears on the grip LCD (illus 11) and on the viewfinder LCD together with a warning triangle. Before another exposure can be made, the lens shutter must be re-cocked by pushing the lens cocking lever all the way up until it stops (illus 12).

Attaching the adapter 13

The adapter should be attached to the camera body first and then the lens to the adapter. When using a converter or extension tube see 'Converter/ Extension tubes' section for specific details.

Any resistance experienced when attaching a lens should be assumed to be a fault in fitting. If the lens does not click into place then check to see whether the lens shutter has been inadvertently tripped thereby causing the drive shaft to be out of alignment for attachment.

If this is the case, the lens shutter can be cocked again by inserting a small coin or similar in the slot on the drive shaft coupling and rotating it clockwise (about 4/5 turn) until it locks. See illus 13 for correct alignment.

The connecting cable should be attached whether you intend to use flash or not as it not only conveys information about flash synchronisation but completion of the shutter action as well. The adapter/lens combination

will work correctly (except for the lack of flash synchronisation) if the cable is not connected but film advance is consequently delayed by 1.5 seconds. Please note that with some older lens types there may be a delay anyway, even if the cable is correctly attached.

Removing the adapter

After exposure, you can remove the adapter from the camera without re-cocking the lens but you cannot remove a lens from the adapter without re-cocking the lens.

Remove a lens from the adapter by pressing the lens adapter catch on the adapter and rotating the lens in an anticlockwise direction.

Remove the adapter from the camera body as you would a lens by pressing the lens release button on the camera and rotating the adapter in an anticlockwise direction.

Converters, extension tubes and lenses should be removed in reverse order to attachment, that is, lens first followed by the converter or extension tube. Avoid removing a lens and converter/extension tube as a combined unit as separation will cause the lens shutter to trip. See note above under 'Attaching the adapter' for details.

Lens choice and H display 5, 6, 7, 8,16

Attachment of the adapter or adapter/lens combination automatically causes the camera to display the lens/converter choice screen on the grip LCD. The grip screen is scrollable or partly so, depending on lens type (see below). There are two possible screens (shown by the setting information on the lower row of the LCD), namely **All lenses** (as in illus 14) and **My lenses**.

Toggle between these two screens by pressing the **AF** button (signified by the commands **Next** in the top row on the screen). The **My lenses** screen will provide access to a list you have already created (see below for details) while the **All lenses** will provide access to all lenses available.

When a C/CF/CFi type lens is attached, all 'C' lenses are available (by scrolling) on the list.

To simplify operation however, when a CFE lens is attached, only CFE lenses that share the same widest aperture appear on the list. For example, when attaching a CFE4/40 mm lens, the CFE4/120 mm and the CFE4/180 mm will also appear as they both have f/4 as their widest aperture. Therefore when attaching a CFE 2.8/80 mm lens, only that lens appears as it is the only f/2.8 lens in the CFE range. Please note that this feature functions by way of the databus connections and therefore will not work if the converter/extension tubes have no databus connectors.

Whether choice is manual as in C/CF/CFi type lenses or semi-automatic with CFE lenses, a choice must still be made regarding a converter at least, and then saved. It is essential that the lens/converter information is correct as failure to do so can cause errors in light metering while the camera will appear to behave normally.

If you want to correct your choice afterwards then press the **AF** button in the standard screen mode to access the lens choice screen again.

To set or reset a lens /converter choice proceed as follows:

1. *Press the* **AF** *button to access the lens choice screen.*
2. *Toggle the* **AF** *button to access either the '***My lenses***' or '***All lenses***'.*
3. *Rotate the front control wheel to choose the lens attached and the rear control wheel to choose converter (or No converter). For example, 150 mm lens with '***No converter***', as in illus 6.*
4. *Press the button labelled "Save" to store the setting and automatically access the standard screen. Note that the focal length of the lens attached now appears on the LCD beneath the* **AF** *button, illus 7, along with an 'X' symbol to signify a chosen converter, illus 8.*

Remember to check and save the lens/converter settings when attaching a lens!

Remember to check the lens/converter settings each time you change lenses or converters!

The camera cannot recognize CFE or CF lenses when used in conjunction with converters or extension tubes without databus connectors so consequently manual settings must be made.

Creating and using a 'My lenses' setting 14, 15, 16, 17

If you regularly use the same lenses, you might want to speed up lens choice when changing lenses by creating a personal **My lenses** list that matches your equipment. This method also helps to avoid errors in choice. Until you create such a list the **My lenses** screen will display the **Empty! Select lenses in "My lenses" menu** message. You can add to the list at any time by following the same procedure and you can delete any or all lenses at any time by using the same procedure simply by choosing **No** instead of **Yes** and saving. Note that CFE lenses will override a favourite list (see previous section) and automatically implement the correct setting (though the use of a converter still has to be set). However, if you attach a CFE lens that is not on the **My lenses** list, the All lenses will display all the CFE lenses with the same maximum aperture instead.

1. *Press the '***Menu***' button, illus 14.*
2. *Rotate the front control wheel until screen 4 '***Settings***' (illus 15) is displayed on the grip LCD and press the button labelled "Enter".*
3. *Rotate the front control wheel until screen 4.5 '***My lenses***', illus 16, appears and press the button labelled "Enter".*

4. ***Rotate the front control wheel until the desired lens appears, then rotate the rear control wheel until 'Yes' appears, illus 17.***

5. ***When you have matched all lenses of your choice that you want on the list with a 'Yes' and each lens you don't want on the list has been matched with a 'No', finally press the button labelled "Save".***

When accessed, the 'Lens choice' screen will now only display the lenses you have chosen when you rotate the front control wheel, allowing much faster choice. Please note that the correct lens still has to be chosen and the any converter must also be chosen before **SAVE** is pressed.

Converters cannot be included on a favourite list and always remain as a choice that has to be set. "My Lenses" is not applicable to the H6D.

Focusing

Although the autofocus function is not available with V System lenses, the H focus confirmation aid LEDs in the viewfinder function as normal with exception of lenses slower than f/6.7. This function remains customizable in **Custom Options #14**. Operation is identical as with HC lenses. See the H user manual for full details.

The focus confirmation function automatically shuts down with lenses slower than f/6.7 (as it does with HC lenses) on condition that the correct lens/converter settings have been made. However, this automatic shutdown does not take place if extension tubes are fitted.

Light metering 9

For all types of lenses, choice remains between metering methods in the camera – average, centre weighted and spot – as well as exposure compensation.

Remember to ensure the depth-of-field check/ stop down button is in the 'off' position when taking a light meter reading (illus 9).

*An error message -'***Stopped down***' - appears on the grip LCD and a warning triangle appears in the viewfinder LCD if you have forgotten to open the aperture again after stopping down for a depth-of-field check, but only with CFE lenses. No warnings are possible with C/CF/CFi lenses as they have no databus connections.*

Exposure 18, 11

When the exposure button is pressed (or the remote release) the conventional sequence of events takes place. However, after exposure, the shutter in the lens remains closed and so consequently there is no image in the viewfinder.

If you forget to re-cock the shutter, camera operation is blocked and the message '**Cock the lens**' appears on the grip LCD (illus 11) and in the viewfinder LCD alongside a red warning triangle. The standard screen returns again on the grip LCD when the lens has been cocked.

Avoid pushing up the lens cocking lever or holding it half way up when making an exposure as this will cause errors. An error message – 'Lens cocking lever problem' (illus 18)– appears to warn you of this.

B- and T-release 19, 20

For B exposures, proceed as follows:

1. *Ensure the connecting cable is connected between the lens and adapter.*
2. *Set the shutter on the lens to "B".*
3. *Program the USER button (AE-L button on H4D) to "B mode" by first pressing the the MENU button and then the USER/AE-L button. Rotate the rear control wheel to set the function to "B mode".*
4. *Press the USER/AE-L button to activate "B mode".*
5. *Make the exposure (elapsed time shown on the grip LCD) as normal by maintaining pressure on the exposure button or remote release cord for the desired amount of time.*

For T exposures, proceed as follows:

1. *Ensure the connecting cable is connected between the lens and adapter.*
2. *Set the shutter on the lens to "B".*
3. *Program the USER button (AE-L button on H4D) to "T mode" by first pressing the the MENU button and then the USER/AE-L button. Rotate the rear control wheel to set the function to "T mode".*
4. *Press the USER/AE-L button to activate "T mode".*

5. *Start the exposure (elapsed time shown on the grip LCD) by pressing the exposure button or remote release cord. The button can now be released. Stop the exposure by pressing the exposure button or remote release cord button again.*

In both cases, the **Mirror Up** function can be used as normal.

*An error message – '**Set lens to B**' (illus 19) – appears if you made the wrong shutter setting on the lens (T exposures only).*

*An error message – '**Check cable**' (illus 20) – appears if you have omitted to attach the connecting cable (T exposures only).*

Converters / Extension tubes

Converters or extension tubes are attached and removed in the conventional manner. They should be attached to the adapter first. When removing however, remove the lens first and then the converter/extension tube. If you remove the lens and converter/extension tube together as a unit and then separate them, there is a possibility that the shutter in the lens will be tripped. In this case see the special note in the 'Attaching the adapter' section and illus 13 about how to re-cock the shutter when detached from the camera.

If you remove a C/CF/CFi lens but leave the converter attached to the adapter which in turn is still attached to the camera, then you must manually make a new lens choice from the list and save it. This also applies to CFE lenses if the converter does not have databus connectors.

Only V-series converters and extension tubes can be used with the adapter.

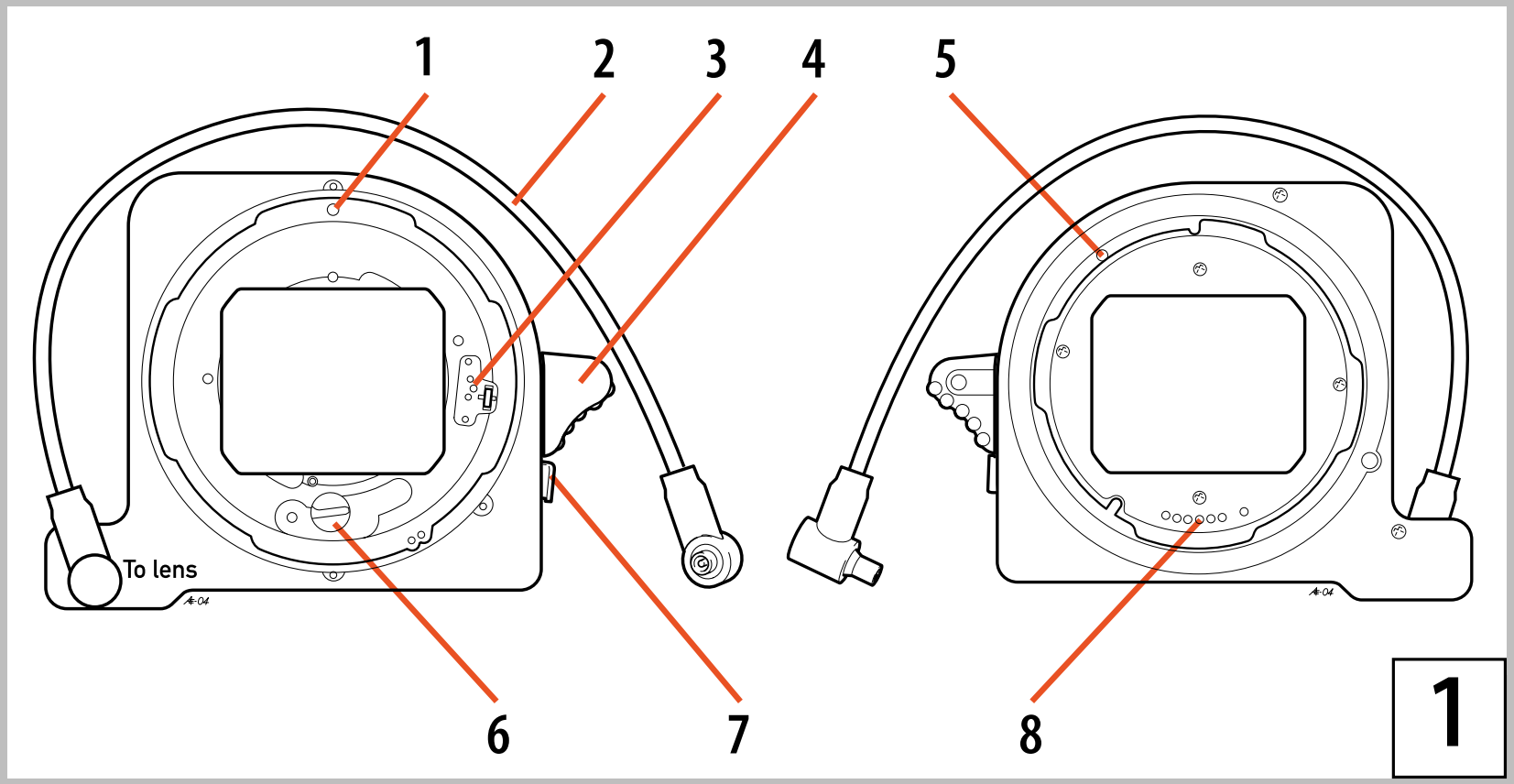
When a converter or extension tube is attached, the camera cannot recognize lens changes when it is not active and therefore the semi-automatic choice facility normally available with CFE lenses is temporarily lost. The camera can only recall the information from the last lens change made when the camera was active. This means you should check settings carefully in these cases or simply ensure the camera is active when you make changes.

Points to note

- *The camera must have firmware version 9.0.0 or later (H6D 1.19.0 or later) installed.*
- *Continuous drive is disabled.*
- *Interval timer is disabled.*
- *Rear flash sync is disabled.*
- *Bracketing is disabled.*
- *The stop down button on the camera is disabled.*
- *Ensure the stop down button on the lens is in the open position for light metering.*
- *H System converters and extensions tubes cannot be used.*

Technical specifications

Dimensions:	*approx. 86 x 112 x 20 mm*
Weight:	*135 g*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2
3
4
5
To lens
6
7
8
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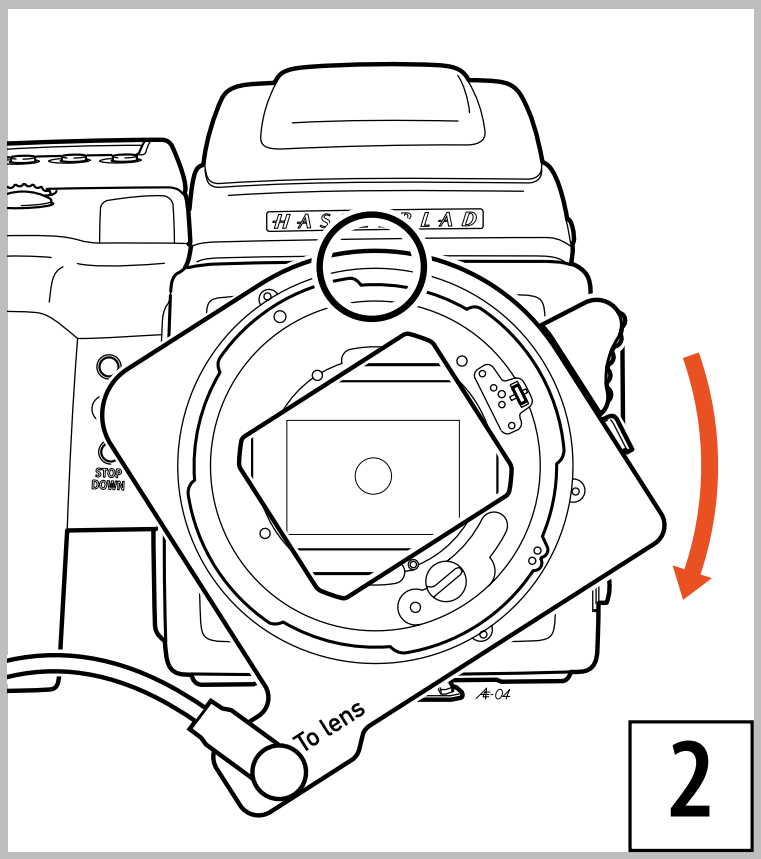
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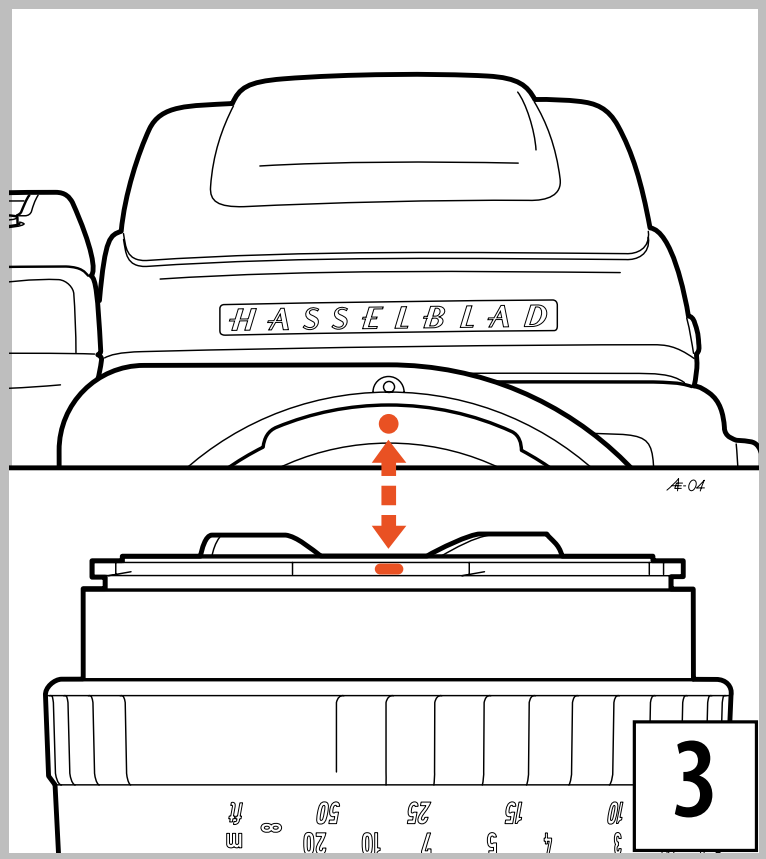
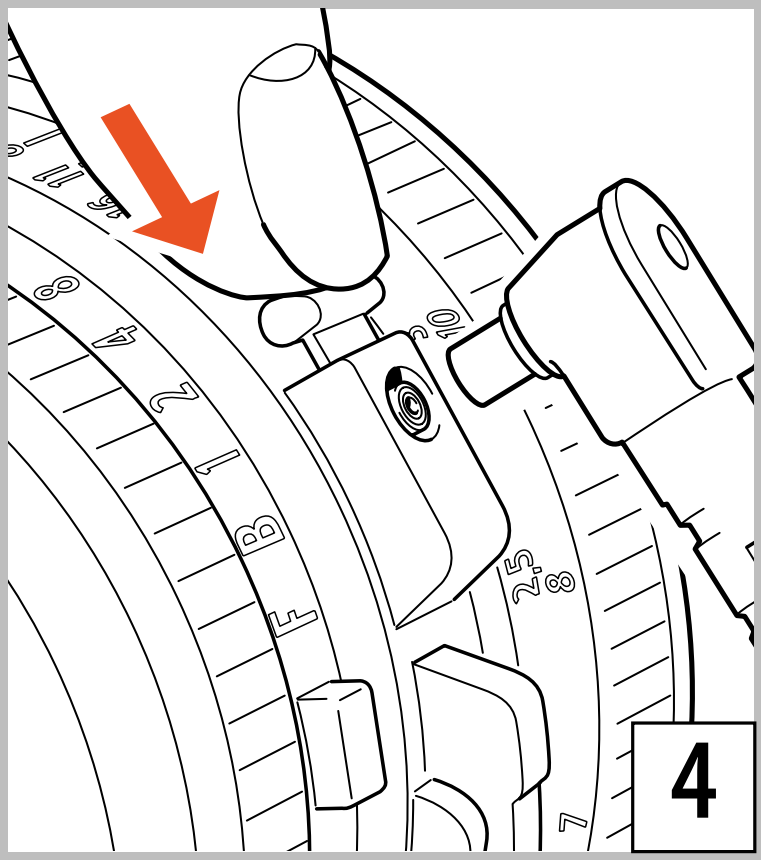
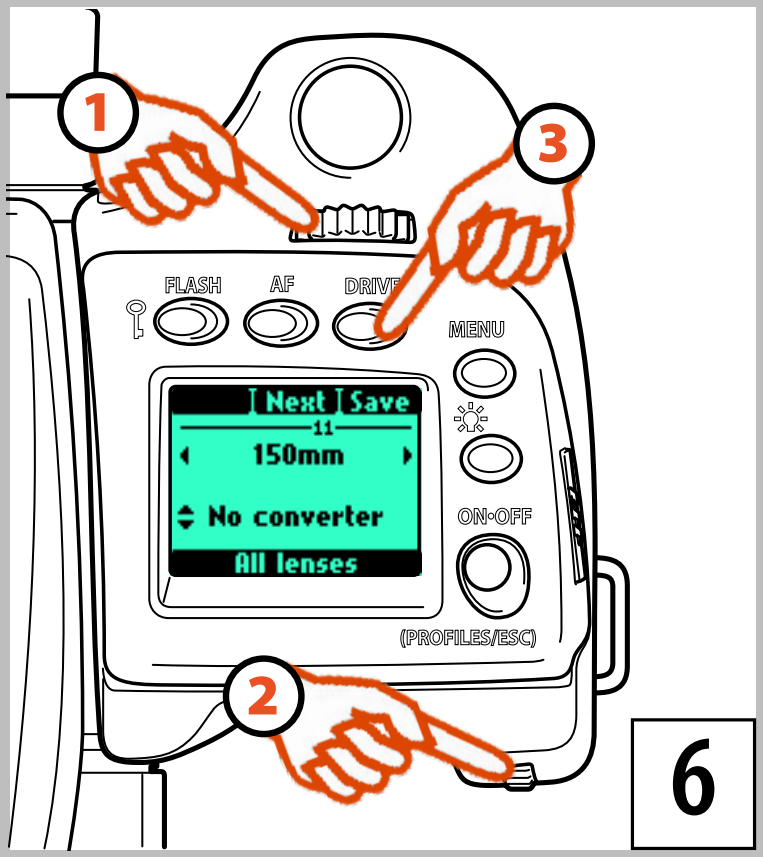
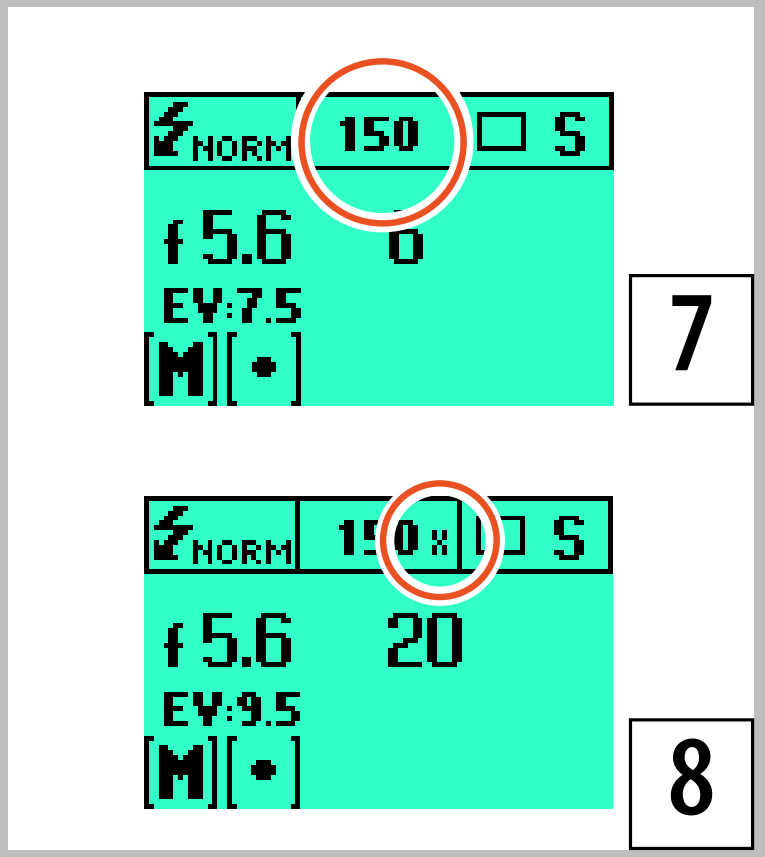
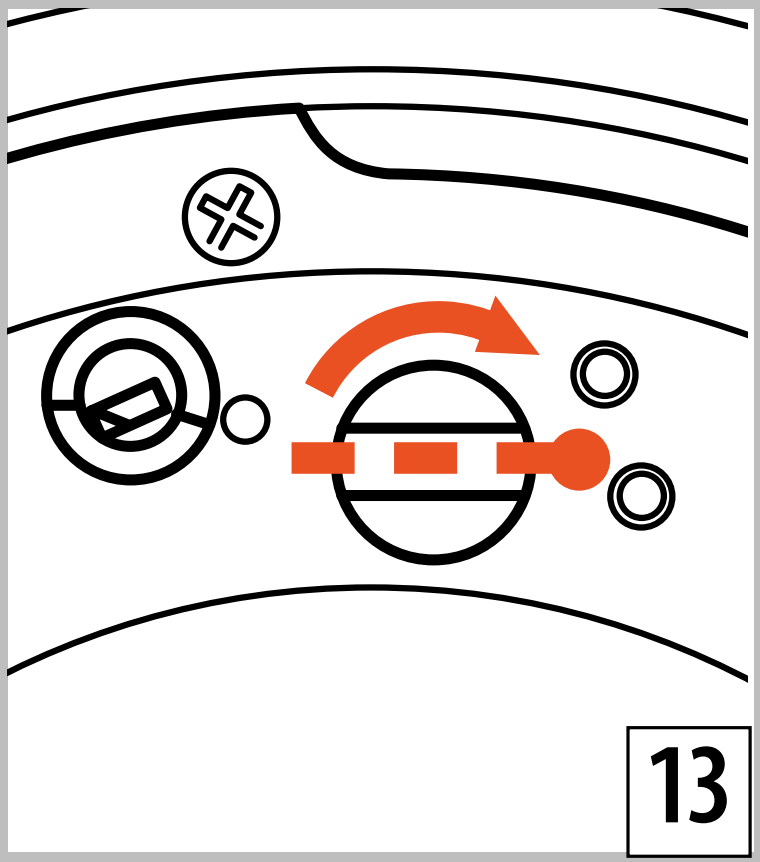

HASSELBLAD
3


4

FLASH
AF
DRIVE
MENU
Next Save
11
150mm
No converter
All lenses
ON·OFF
(PROFILES/ESC)
5


1
2
3
FLASH
AF
DRIVE
MENU
Next Save
11
150mm
No converter
All lenses
ON·OFF
(PROFILES/ESC)
6


NORM
150
S
f 5.6
0
EV:7.5
M
7
NORM
150
S
f 5.6
20
EV:9.5
M
8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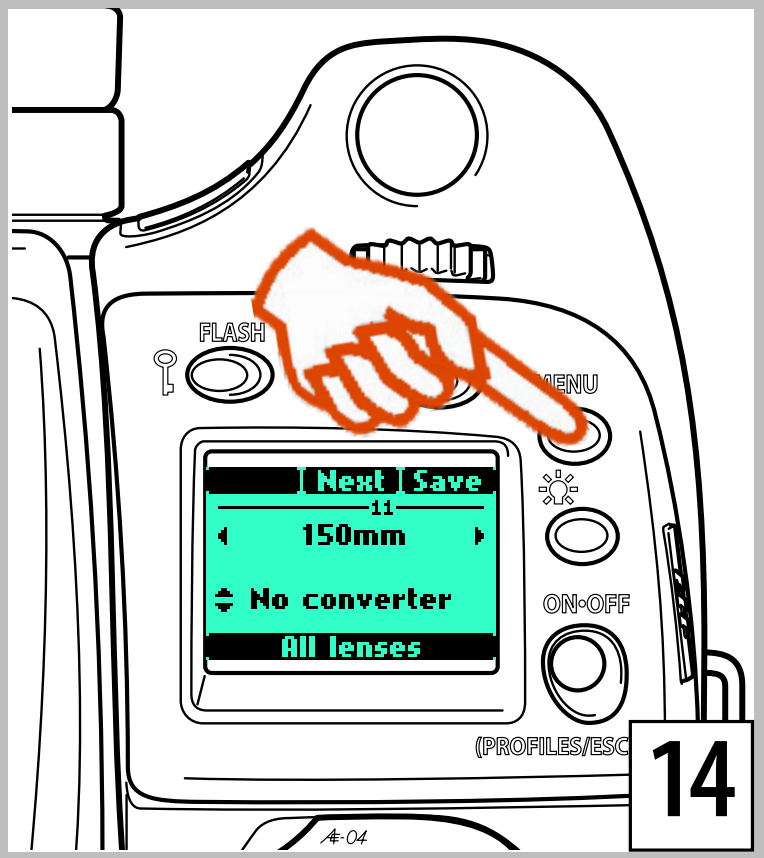
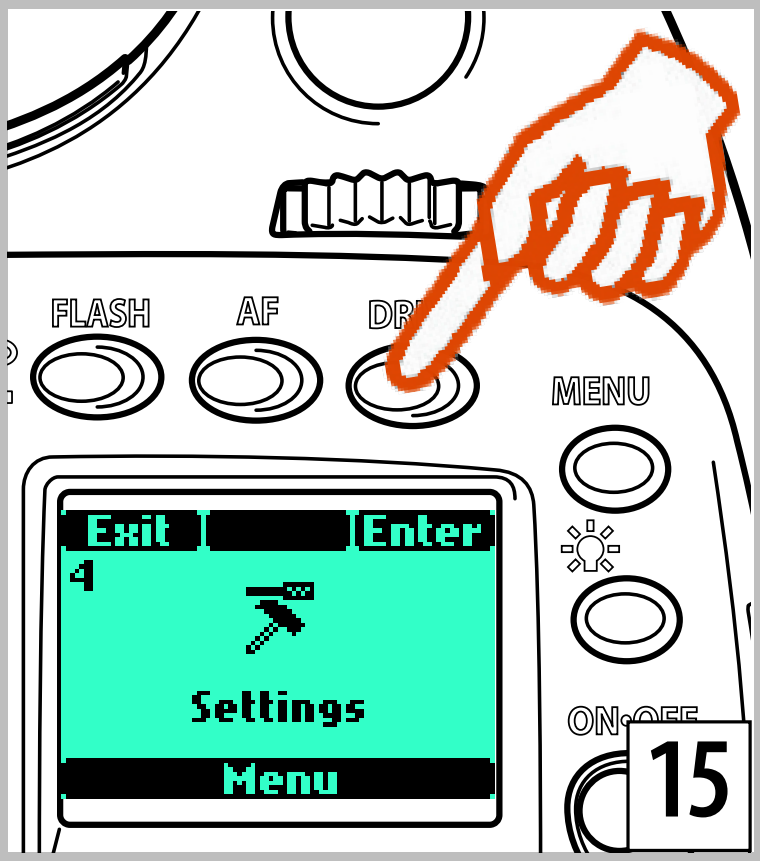
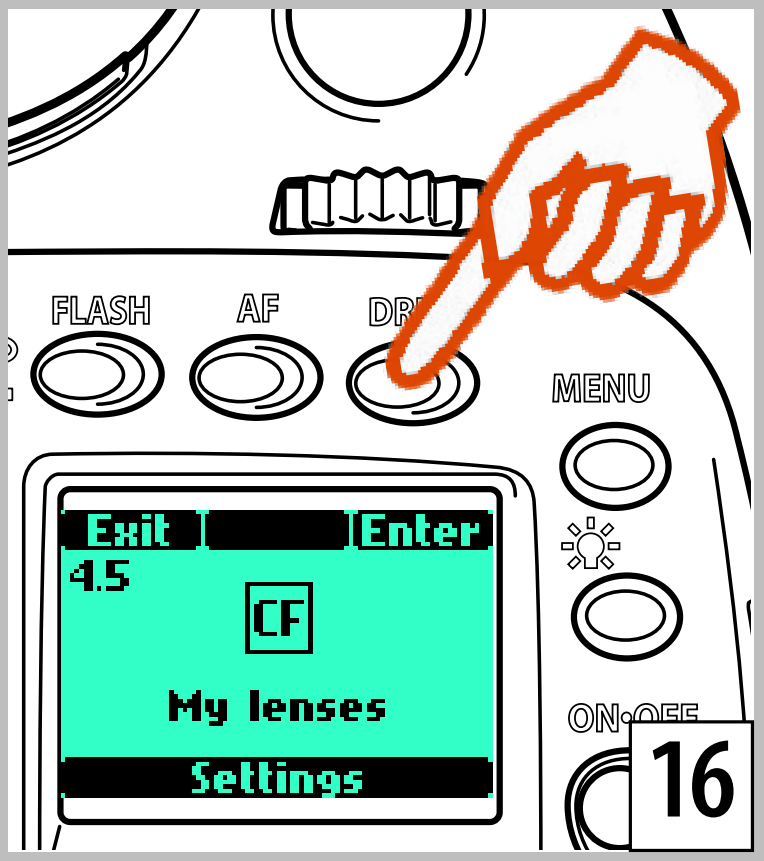
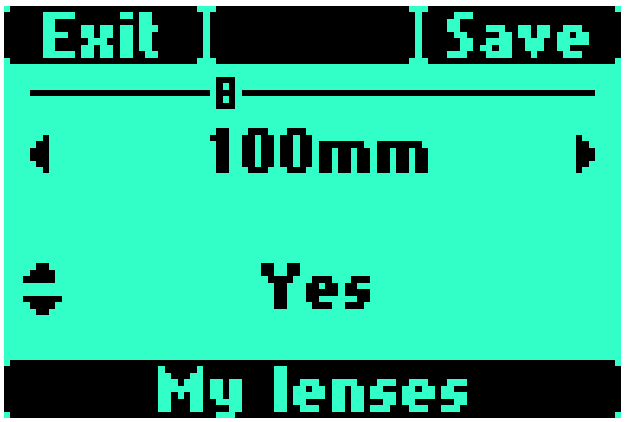

FLASH
MENU
Next
Save
11
150mm
No converter
All lenses
ON·OFF
(PROFILES/ESC
14


FLASH
AF
MENU
Exit
Enter
4
Settings
Menu
15


FLASH
AF
MENU
Exit
Enter
4.5
CF
My lenses
Settings
16


Exit
Save
100mm
Yes
My lenses

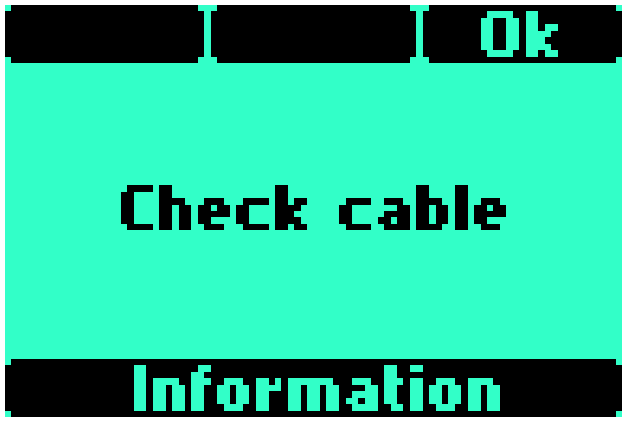
17

Ok
Lens cocking lever problem
Error

18

Ok
Set lens to B
Information

19


Ok
Check cable
Information

20

	Lens designation Objektivbezeichnung Denominación del objetivo Désignation de l'objectif Descrizione dell'obiettivo Objectiefaanduiding Designação da objetiva Objektivbeteckning	Lens designation on LCD Objektivbezeichnung auf LCD Denominación del objetivo en el LCD Désignation de l'objectif sur l'écran Descrizione dell'obiettivo sul display LCDObjectiefaanduiding op LCD Designação da objetiva no display LCD Objektivbeteckning i LCD-displayen
30	• C30	30mm
	• CF30	30mm
	• CFi30	30mm
40	• C40	C40mm
	• CF40	C40mm
	• CFE40	40mm CFE
	• CFE40IF	40mmIF CFE
50	• C50	50mm
	• CF50	50mm
	• CF50	50mmFLE
	• CFi50	50mmFLE
60	• C60	60mm
	• CB60	60mm
	• CF60	60mm
	• CFi60	60mm
80	• C80	80mm
	• CF80	80mm
	• CFE80	80mm CFE
	• CB80	CB80mm
100	• C100	100mm
	• CF100	100mm
	• CFi100	100mm
120	• C120	C120
	• CF120	120mm
	• CFi120	120mm
	• CB120	120mm
	• CFE120	120mm CFE

135	• C135	135mm
	• CF135	135mm
140-280	• Variogon C140-280	140-280mm
	• Variogon CF140-280	140-280mm
150	• C150	150mm
	• CF150	150mm
	• CFi150	150mm
160	• CB160	160mm
180	• CF180	180mm
	• CFi180	180mm
	• CFE180	180mm CFE
250	• C250	250mm
	• CF250	250mm
	• CFi250	250mm
	• C250Sa	250mmSA
250	• CF250Sa	250mmSA
	• CFi250Sa	250mmSA
	• CFE250Sa	250mmSA CFE
350	• C350	350mm
	• CF350	350mm
	• CFE350Sa	350SA CFE
500	• C500	C500mm
	• CF500	500mm

Item no:

3043500

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