HASSELBLAD

User Manual

H4D-200MS

H4D-60

H4D-50MS

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General overview
– controls and displays

This section provides an introduction to the control buttons' functions as well as the information provided on the display screens.

Photo: Claudio Napolitan / Hasselblad Masters

Button functions – overview

Below is an overview of the primary functions of the control wheels and buttons. Some controls have dual or triple functions according to the state of the menu or setting. A full description can be found further on in this manual.

Shutter release button

Releases shutter. Also activates camera from standby mode.

FLASH / (CONTROL LOCK) button

Locks settings to avoid inadvertent change. Also accesses flash settings as well as acting as Exit button.

AF button

Accesses focus modes.

ISO/WB button

Accesses ISO and White Balance settings. Also acts as Save button.

Front control wheel

Accesses and changes various settings.

MENU button

Accesses menu.

Illumination/Battery status button

Illuminates grip display. Accesses battery status and general information screen.

ON.OFF (PROFILES/ESC) button

Turns the camera on and off. Accesses Profiles and acts as escape button for other functions.

Rear control wheel

Accesses and changes various settings.

M.UP button

Raises and lowers mirror. Can be reassigned to another function.

Remote release cord port

For attaching a remote release cord (electrical).

STOP DOWN button

Stops down aperture to current setting. Can be reassigned to another function.

True Focus button

Activates True Focus function. Can be reassigned to another function.

Format button

Re-formats CF card.

AE-L button

Locks light reading made in both automatic and manual exposure modes. Can be reassigned to another function.

Eyesight correction adjustment wheel

Adjusts viewfinder image to suit individual eyesight.

EV correction adjustment button

Produces EV exposure compensation.

EXP button

Accesses exposure mode and metering method.

Display information – overview

This overview illustrates the functions and features most commonly needed when shooting, and how they are distributed on the three displays.

For example, aperture and shutter settings appear in both the viewfinder and on the grip displays in normal mode but can also appear on the sensor unit display if set to do so. ISO settings appear on the grip and on the sensor unit display but not on the viewfinder display.

Also, changing settings are mirrored throughout. For example, if you change the ISO setting on the grip, the change will automatically appear on the sensor unit display. Also, in this particular case, you are able to change the ISO setting on the sensor unit which will be mirrored on the grip display.

However, some settings, aperture and shutter settings for example, are only changed on the grip but are nevertheless mirrored in the viewfinder and sensor unit displays.

Please note that the grip and sensor unit displays also illustrate many more specialist settings. These are covered in detail further on in this manual.

VIEWFINDER INFORMATION

- Metering method
- Aperture setting
- Shutter speed
- Exposure method
- Capture counter
- Exposure compensation
- Focus assist
- Warning triangle
- Flash warning
- Spirit level

GRIP LCD INFORMATION

- Metering method
- Aperture setting
- Shutter speed
- Exposure method
- Capture counter
- ISO
- White Balance
- Flash indication
- Focus
- Drive
- EV
- Battery status

.....optional.....

- Histogram

REAR LCD INFORMATION *(Currently 60 Mpix model only)*

- ISO
- White Balance
- IAA rating
- Storage medium

.....optional.....

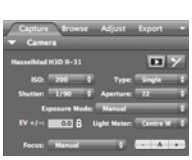
- Exposure compensation
- Histogram
- Date
- Time
- Focal length of lens
- Spirit level

Optional instantly accessible full-screen display of camera information to show:

Metering method
Aperture setting
Shutter speed
Flash indication
Focus
Drive
EV
Battery status
Exposure method
Capture counter
ISO
White balance

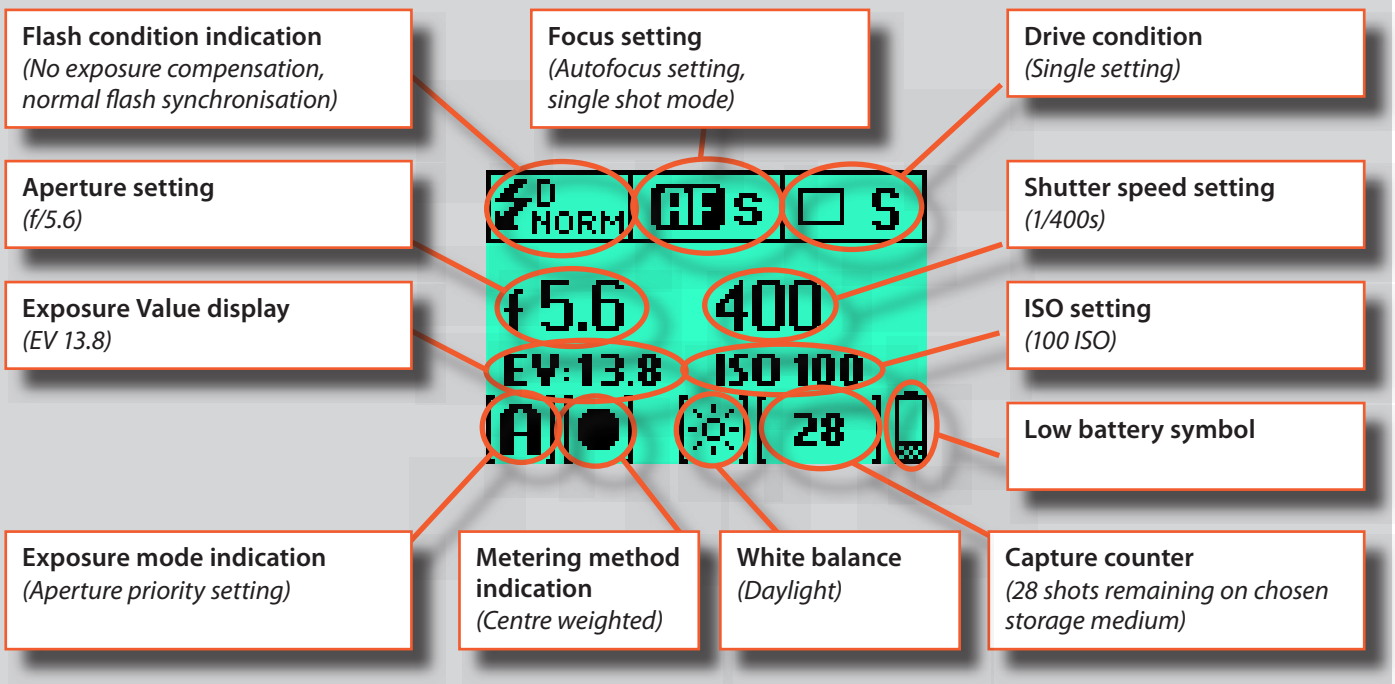
PHOCUS / PHOCUS MOBILE INFORMATION

- Metering method
- Aperture setting
- Shutter speed
- Exposure method
- ISO
- White Balance
- Flash indication
- Focus
- Drive
- EV



Grip display – overview

Typical camera grip display.



Typical camera grip display when changing settings.

Command indication

The upper row on the screens describes commands (which change according to the setting). The button immediately above each command effects the change. So in this case, for example, you would press the FLASH button to 'exit' from the screen. See note below.

Settings symbols

Symbolize the options available when settings are changed. The active symbol is depicted by a drop shadow.

Control wheel description and direction

Arrowheads symbolize which control wheel should be used to change the setting they are beside. In this case, the Bracketing option is chosen by the front control wheel and the number of captures in that option is chosen by the rear control wheel.

◀...▶ = front control wheel

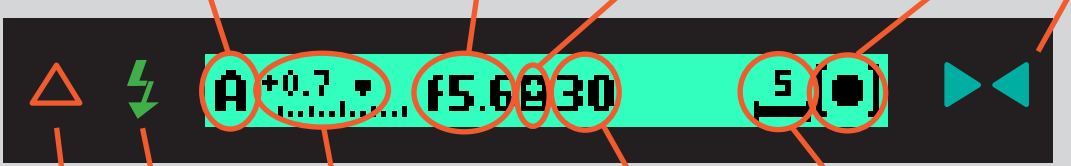
▲▼ = rear control wheel

Setting information

The lower row on the screen displays information about the current state of the setting. In short, the upper row displays what you can do, and the lower row displays the current state of settings or what you have done.

Viewfinder display – overview

Typical viewfinder display. Note the LEDs will only be visible when activated (by the camera or a setting).



Exposure method indication *('aperture priority' mode)*

Aperture setting *(f/5.6)*

Exposure compensation setting reminder symbol

Metering method setting *(Centre weighted)*

Focus Assist LED

Flash LED

Warning triangle LED

Exposure compensation setting *(+0.7 EV)*

Shutter speed setting *(1/30 second)*

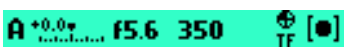
Capture counter

True Focus *(all models) and* ***HCD crop*** *(60 Mpix only) icons appear on right hand side of display when functions are activated.*

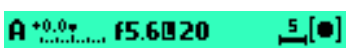
When activated, the integral spirit level replaces normal display. *(Currently 60 Mpix model only)*

Some examples of various viewfinder displays

Standard settings



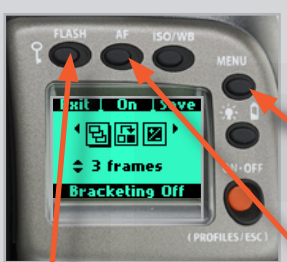
Normal screen with True Focus activated



Normal screen with AE lock activated

Normal screen with exposure compensation set

Viewfinder display according to setting



Drive mode

Menu mode

Flash mode

+0.0 Ev Flash Normal

-1.0 Ev Flash Normal

+0.0 Ev Flash Rear

AF mode

Manual AF

Continuos AF

Single AF

True Focus AF

Exposure compensation mode

EXPOSURE ADJUSTMENT +0.3 Ev

Exposure method and metering method mode examples

A Exp

S Exp

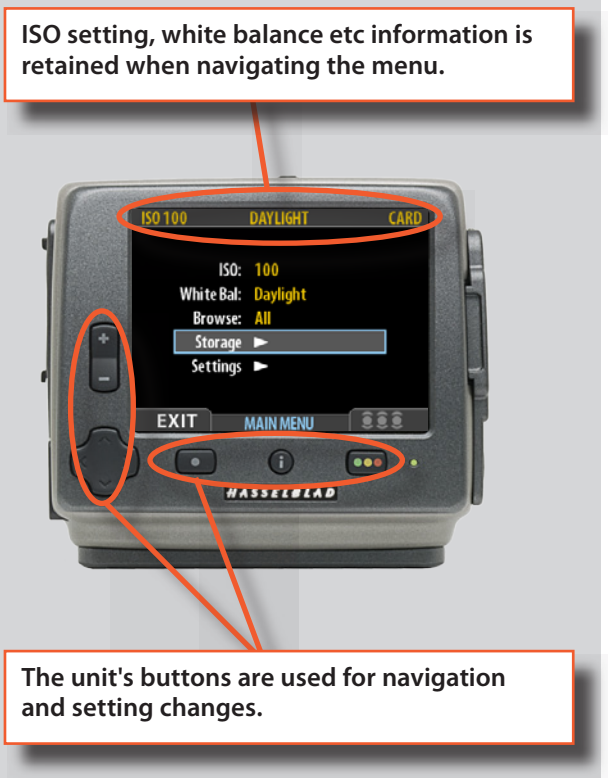
etc. where:

A = *Aperture priority*
S = *Shutter priority*
P = *Program*
Pv = *Program variable*
M = *Manual*

Centre Weighted = [●]
CentreSpot = [⊛]
Spot = [•]

Sensor unit display overview

When shooting, the sensor unit can display the information most often required for a quick settings check. The unit's buttons are used to navigate the main menu and change settings.



The control wheels on the grip can be set to duplicate the actions of several of the buttons on the unit if you wish.

See under ***Sensor unit – introduction*** for details.

(Currently 60 Mpix model only)

Camera information (such as: *aperture setting, shutter speed, flash indication, focus setting, drive, EV, battery status, exposure method, capture counter, ISO and white balance)* can also be displayed on the sensor unit by clicking the upper arrow on the **Navigation** button.

(Currently 60 Mpix model only)

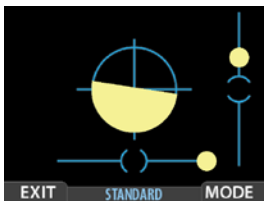
Spirit levels can be displayed on the sensor unit (a horizontal spirit level is also visible in the viewfinder simultaneously). This feature is activated by holding down the **View-mode** button for a second.

The display can call up all saved captures for browsing and enlarge them for detailed inspection.

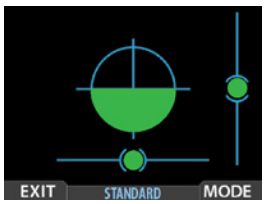
When shooting, you can control the amount of information visible together with the current preview by choosing various modes (see *Preview Modes* section further on in this manual). In the upper left example, the preview is showing a histogram overlay with ISO and white balance information etc as an example.

See *Sensor unit – introduction* further on in this manual for an overview of the information that is accessible on the sensor unit menu.

Normal (at default setting)

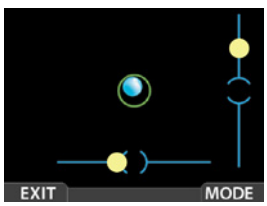


Not level

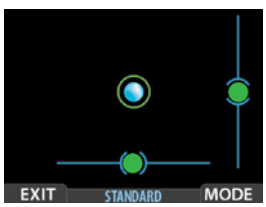


Level

Repro (at default setting)



Not level



Level

The spirit level as it appears in the viewfinder display.

Spirit level *(Currently 60 Mpix model only)*

The integrated electronic spirit level provides a rapid and accurate way of ensuring the camera is either horizontally neutral in alignment (level) and/or vertically neutral in alignment (plumb). It uses two methods that are fully visible on the sensor unit display and partly visible in the viewfinder. The method is selected by the camera automatically according to alignment. So, if the camera is in a relatively normal orientation, then **Normal** is selected and when the camera is in a more extreme orientation then ***Repro*** is selected. You can activate the spirit level (for both sensor unit and viewfinder displays) by holding down the **View Mode** button for a second, or, by re-assigning the **TRUE FOCUS / AE-L / STOP DOWN** or **M.UP** button as an activator. See **Custom Options #4, #5, #6** and **#7** for details.

Normal: Generally used when the camera is mounted on a tripod/stand in either landscape or portrait orientation. Allows the camera to be correctly aligned in two planes regardless of apparent deviations in the viewfinder. Particularly useful for landscape work where most of the horizon is hidden, for example, or architectural/interior work where wide angle lenses can often create a difficult situation to level the camera visually.

Repro: Normally used when the camera is mounted on a tripod/stand in a 'repro' alignment, that is, camera pointing directly downwards (this feature also works pointing directly upwards). Ensures that the camera is in a truly perpendicular alignment.

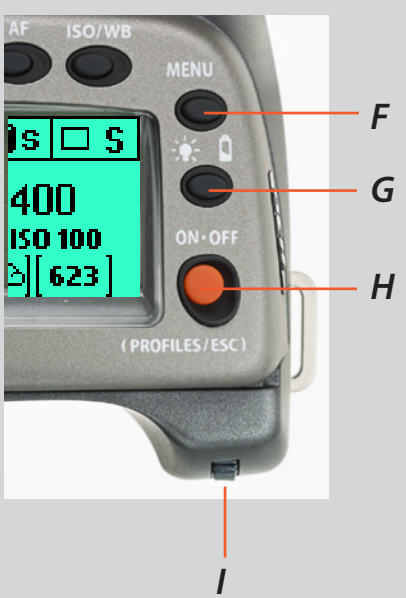
In use: ***Sensor unit display*** – Three scales can be seen in **Standard** mode. The scale along the lower edge and to the right hand side (in landscape mode) require you to alter the camera's orientation to center the yellow 'bubbles'. When centered, these bubbles become green. The third central scale consisting of a large circle with cross-hairs provides an alternative combined display. The content of the circle changes from yellow to green when the horizontal orientation is correct. In **Repro** mode, the central scale is also a 'bubble' type. Again, the two yellow bubbles become green when centered in their respective scales. As an alternative, the central blue bubble can be centered within the green circle (no color change to the bubble).

Viewfinder display – Only horizontal alignment can be seen in the viewfinder display. It uses the bubble method as described above except the bubble becomes black when the camera is level. Custom calibration can also be used.

Calibration: There is a default calibration for either mode which is selected automaticaly. However you can store a custom calibration for various purposes.

1) *Press the **Preview** button for one second (toggle function) to activate the spirit level feature.*
2) *The text along the bottom of the display reads **EXIT**, **Standard**, **MODE**.*
3) *Press the **MODE** button (**Approval/OK button**).*
4) *The text along the bottom of the display now reads **CAL**, **User**, **MODE**, and a green user icon appears in the top left of the display.*
5) *When you are satisfied that the camera is securely in the chosen orientation, press the **CAL** button (**Menu/Exit button**) to store the new setting.*
6) *Press the **MODE** button to toggle between default and custom settings.*

Custom settings are retained for future use. To make a new custom setting, repeat the above procedure.



Buttons and controls – details

Shutter release button A

This button has ***half-press*** and ***full-press*** positions. By pressing half-way (or softly) the camera, auto focus function and exposure meter can be activated. By pressing all the way down (or more firmly) the shutter will be released (or the chosen exposure procedure for example, the self timer is activated with this button).

FLASH / (CONTROL LOCK) button / (EXIT) B

This is a triple function button. If you press the button for one second, the beeper will sound (if set) and a key symbol will appear on the grip display signifying that the controls (except the shutter release) have been locked and therefore cannot be altered unintentionally in use. Press the button for one second again to unlock (this function can be altered to lock all controls or control wheels only in ***Custom Options #18***).

Quickly clicking the button will access the flash settings information on the display from the main screen. See under ***Flash /Strobe - controls and displays*** for full details.

This button also acts as the **EXIT** button for many other settings including an **EXIT** button when navigating the sensor unit menu.

AF button / (ON) / (SEL.) C

This is a triple function button. Press this button to directly access the autofocus/manual focus choice screen from the main screen. See under ***Lenses*** for full details. It also acts as the **ON** and **SEL.** (= select) buttons for many other settings.

ISO/WB button / (SAVE) / (ENTER) D

This is a triple function button. It provides direct access to the ISO and White Balance settings (see under ***Light Metering & Exposure Control*** for full details).

It also acts as the **SAVE** and **ENTER** buttons for many other settings as well as an **OK** button when navigating the sensor unit menu.

Front control wheel E

The front and rear control wheels are used to make changes in exposure settings, access the grip menu for settings as well as navigate the sensor unit's menu. The effect of the wheels' direction is customizable.

MENU button F

Accesses the first level of the menu for settings changes.

Illumination/Battery status button G

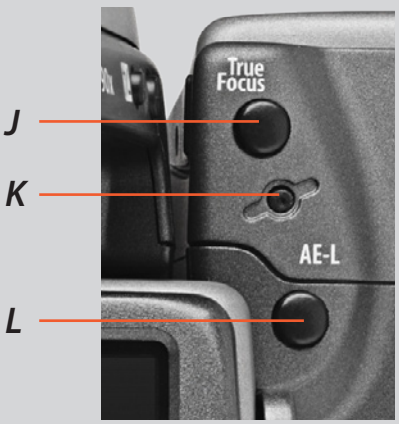
Press to illuminate the display. Remains active until camera enters standby mode. Hold down to access battery status/general information screen.

ON.OFF (PROFILES/ESC) button H

Press the button for 1 second to activate the camera. The H4D start-up logo will appear and then the main screen. After a few seconds (customizable) the camera will enter Standby mode.

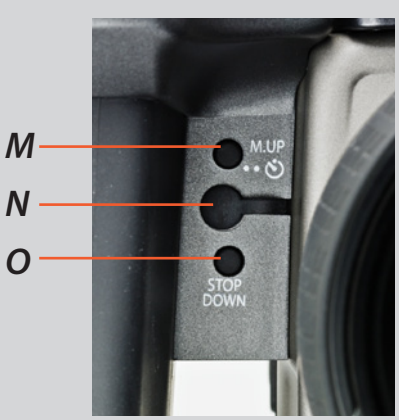
A long press of the button will turn the camera off completely (even from Standby mode) signified by an audible signal (if set). A quick 'click' on the button will access the Profiles section of the menu from the main screen.

Note the difference in results between a long press and a quick click of this button.



Note

Reassignable buttons are particularly useful and can save you a great deal of time and effort. You are advised to investigate their potential fully. See **Custom Options** *for full details.*



Rear control wheel *I*

The front and rear control wheels are used to make changes in exposure settings, access the various loop sections of the menu for settings as well as navigate the sensor unit's menu. The effect of the wheels' direction is customizable.

On the rear of the grip, as well as the rear control wheel, there are a further three control buttons:

True Focus *J*

Activates the True Focus setting. See separate section for explanation of this function.

Format button *K*

Re-formats a CF card. Purposefully recessed to prevent unintentional use. Dialogue appears for confirmation.

AE-L button *L*

This button can lock a light reading made in both automatic and manual exposure modes. It can also be used in Zone mode to take a new reading.

Can be reassigned in* Custom Options *to another function.

See section on the AE-L button for full details.

On the front of the grip there are two more control buttons plus the remote cord release port:

M.UP button *M*

Press this button to raise the mirror and press again to lower it (toggle function). A quick double press of the button (two within a half second) will immediately access the ***Self timer*** function.

Can be reassigned in* Custom Options *to another function.

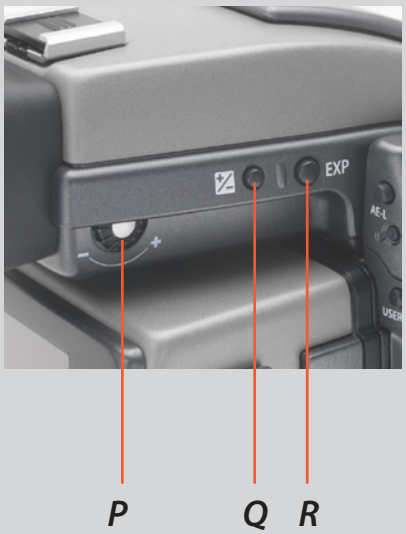
Remote release cord port *N*

For attaching a remote release cord (electrical). The Hasselblad accessory jack plug socket is protected by a captive rubber plug.

STOP DOWN button *O*

Press this button to make a visual check of the depth-of-field on the viewfinder screen at the chosen aperture. The aperture will close according to the setting and remain closed as long as the pressure is maintained. You can alter the aperture at the same time to see the changes taking place.

Can be reassigned in* Custom Options *to another function.



There are also two control buttons on the viewfinder, as well as the eyesight correction adjustment wheel:

Eyesight correction adjustment wheel *P*

The personal eyesight adjustment facility has a diopter range of -5 to +3.5, to suit most users.

EV correction adjustment button *Q*

Press this button to access the EV compensation screen. Settings are made with either the front or rear control wheels. An EV correction symbol appears on the grip and viewfinder display as confirmation.

EXP button *R*

The **EXP** (Exposure) button accesses the exposure mode and metering method options screen. Settings are made with the front and rear control wheels and the appropriate symbols appear on the grip and viewfinder displays accordingly.

Audio feedback

There are fourteen different sounds to help provide immediate information. A button press has a normal mechanical 'click' sound while the remaining actions listed here are more musical. For example, a capture rated as overexposed is signified by three rapid notes going up the musical scale, whereas an underexposed capture has three rapid notes going down the musical scale, as illustrated here.

See ***User Interface*** section for activation and volume control details.

ON:

OFF:

Error:

Ready:

Low Battery:

Overexposure:

Underexposure:

5 images left:

1 image left:

Medium full:

IAA yellow:

Overwrite red:

Transfer complete:

Saving settings changes on the grip

The basic principle behind making changes is that the appropriate button is first pressed to access the menu and then settings altered by way of the control wheels. The appropriate control wheel is designated by arrowheads alongside the setting description.

- *Some buttons have a toggle function, the ON.OFF button has a quick 'click' action as well as a longer (half-second) 'press' action and the shutter release has two positions: 'half-press' and 'full-press'.*
- *Several buttons on the grip are multifunctional, according to the state of the menu. In the example illustrated here, the FLASH button functions as the EXIT button, the AF button functions as the ON button and the ISO/WB button functions as the SAVE button.*
- *The front and rear control wheels can also be used to navigate the menu on the sensor unit.*
- *At very low temperatures the displays require a few seconds to present new settings.*
- *The control wheels are also used to navigate the menu on the sensor unit.*
- *The FLASH button also acts as an EXIT button and the ISO/WB button acts as an OK button when navigating the sensor unit menu.*

Examples

The following is a list of the various terms describing the various actions that appear in the menu (on the grip display):

Enter: moves screen down one level on the menu.

Exit: moves screen back up one level on the menu. Does not save any settings.

Off: deactivates the particular function being set.

On: activates the particular function being set.

Sel.: (Select) - selects the character marked for image info and profile name

ESC: (Escape) - terminates an action and returns to the main screen. Does not save any settings.

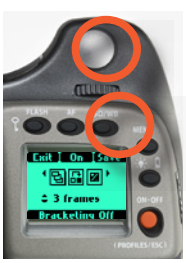
Save: saves a setting and also moves screen back up one level on the menu. Can save many changes made in a setting sequence.

Remember the following groupings of 'saved' and 'not-saved' actions when making settings changes:

SAVED

'Quick save' - half-press shutter release button

Save - press save button (ISO/WB button)



NOT SAVED

Escape - press ESC button (PROFILES /ESC button)

Exit - press exit button (FLASH button)

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