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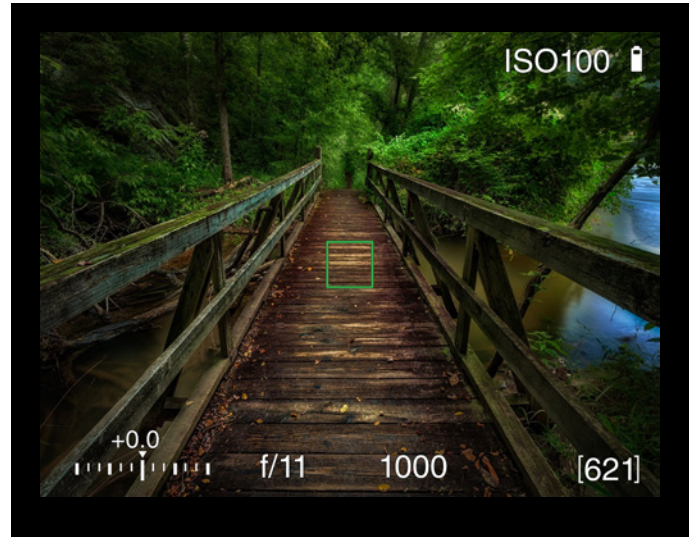
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1.1 MEDIUM FORMAT PHOTOGRAPHY



Medium Format Photography is about Quality. Camera System Design and Production have to be carefully crafted. The Usability needs to be simple and still detailed to assure Quality. The Captures have to be accurate in terms of Exposure, Focus, Color Quality and Reliability. Hasselblad knows this and strives to deliver it to you.

The Hasselblad X1D is a completely new Medium Format Camera with the Professional Quality inherited from the H6D that has been redeveloped from the ground up.

In this way all the previous workexperience based and branch-demanding features are automatically included. So, just when you think things can't get much better, they do. And the X1D is that model - all the good things from our past and ready for the future!

The X1D provides a reliable connection to the fleeting environment of digital imaging technology so when the wind changes direction, the X1D remains as the safeguarding companion to provide support.

True to Hasselblad philosophy, interchangeability and versatility span our product range regarding lenses and accessories with minimal restrictions. This applies not only to X1D but all H1, H2, H3, H4, H5 and H6 models as well. The all new XCD lens system additionally breaks rank regarding series limitations with the ability to use other lenses from the H system. In short, you

have access to a more comprehensive world to apply medium format quality to.

Hasselblad's best kept secret is knowing that every link in the chain that leads to the page in the magazine has to reach a certain standard; it is that simple.

That's why Hasselblad spends so much time and energy into checking those almost endless behind-the-scenes details and standards because We understand this simple concept.

There is no magical formula to Hasselblad's success other than an understanding of what is required to produce the best results available in the world today and an acceptance that there are no shortcuts in this process.

We do our best to produce the best, there is no other way to achieve the Hasselblad star quality.

X1D Features

Medium format advantages

Shallow depth of field.
Large sensor for unbeatable image resolution.
Super smooth color and tone rendition.
Enlargements in breathtaking quality.

HNCS - Hasselblad Natural Color Solution

HNCS saves time and enables high Color Quality in skin tones and specific product tones that are going to be rendered automatically and accurate.

True Focus

True Focus is a feature for many professional photographers who work fast and by instinct. They don't have the time to double check focus for every single split second shot and neither do they have the time to get it wrong. True Focus delivers the sharpness in an intuitive manner, at speed.

IFC - Immediate Focus Confirm

IFC are for True Focus users who have a second to spare and a desire to know the focus is exactly on target regarding specific areas. Intuitively and directly displays inspection of captures at 100% pinpointing the original focus selection.

JPEG & RAW files

The JPEG files are not only 1/4 resolution they are also HNC profiled so you can print straight from a folder for amazing quality. RAWs are retained of course for your final masterpieces.

Digital Lens Correction

The Digital Lens Correction is applied at the file editing stage, takes a discerning look at any colour aberration, distortion and light fall off however minor (which is inherent in any lens, anywhere) and resolves the situation automatically.



X1D Camera and Lenses features

Stainless steel/aluminium camera body.
Access to 12 H system lenses.
Access to most V system lenses by CF Adapter accessory.
Access to all H accessories.

XCD System lenses and accessories

XCD 45 Lens.
XCD 90 Lens.

H System Lenses and Accessories

Adapter to use H system Lenses.

Lenses: 24, 28, 35, 50, 80,100,150, 210, 300
120 Macro
50-110 & 35-90 zooms
1.7x converter & Macro converter
CF adapter (to be able to use V system lenses) HTS 1.5 tilt/
shift adapter
GIL (Global Image Locator)
Battery Adapter for technical camera use

1.2 CHECK THE DELIVERY



In the package

USB stick with X1D User Guide and Phocus Software.

Camera Body
Camera Front Protective Cover

Lens (if included in purchase)
Lens Hood
Lens Protection lid x2

Battery
Battery Protection Cover
Battery Charger

1 SD Card included

USB 3 Cable

Carrying Strap

Check the Delivery

- 1 Unpack all items.
- 2 Make sure that all the items listed on the attached package information are supplied.
- 3 Inspect all the items for damage.
- 4 If any items are missing or damaged, write down the product number of that item. If not, proceed to step 6.
- 5 Contact your Hasselblad dealer or distributor and tell them the product number of the item missing or damaged.
- 6 Keep the purchase details and the warranty in a safe place.



1.3 X1D TECHNICAL SPECIFICATIONS

| | |
|------------------------------|---|
| Camera type | Medium Format Mirror less Digital camera with Auto-focus, Auto-exposure, interchangeable Lenses. |
| Construction | Machined aluminium. Tripod socket 1/4" |
| Sensor type | CMOS, 50 megapixels (8272 × 6200 pixels, 5.3 × 5.3 µm) |
| Sensor dimensions | 43.8 × 32.9mm |
| Image size | Stills: RAW 3FR capture 65MB on average. TIFF 8 bit: 154MB; Video: HD (1920 x 1080p) |
| File format | Stills: Hasselblad 3FR Video: H.264 Compressed (25 fps) |
| Shooting mode | Single shot stills, Video |
| Colour definition | 16 bit; Dynamic range approx. 14 stops |
| ISO speed range | ISO 100, 200, 400, 800, 1600, 3200, 6400, 12800, 25600 |
| Storage options | Two SD cards or tethered to Mac or PC |
| Colour management | Hasselblad Natural Colour Solution, HNCS |
| Storage capacity | 16GB card holds 240 images on average |
| Capture rate | TBD |
| Display and User Interface | 3 inch TFT type, 24 bit colour, 920K pixels; Touch functionality: Yes, full support. Live View: On camera, host and iOS device with high frame rate. Full touch user interface, including swipe, scroll and pinch/spread to zoom. Camera grip with buttons and control wheels. Many camera functions and settings can be controlled from a tethered computer or iPhone/iPad over Wi-Fi. |
| Viewfinder (Electronic, EVF) | 2.4 MPixel Electronic Viewfinder (EVF) |
| Histogram feedback | Yes, on rear display and in viewfinder |
| IR filter | Mounted in front of sensor |
| Software | Phocus for Mac and Windows. Compatible with Adobe Camera and Adobe Photoshop Lightroom. |
| Platform support | Macintosh: OSX version 10.9; PC: XP/Vista/Windows 7 (32 and 64 bit)/ 8 / 10 |
| Host connection type | USB 3.0 (5 Gbit/s) Type-C connector |
| Additional connections | Mini HDMI, Audio In/Out |
| Operating temperature | -10 - 45 °C / 14 - 113 °F |
| Wi-Fi | 802.11 a, b, g, n (depending on region), ac |
| Dimensions | Complete camera w/ XCD 45mm lens: 148 x 97 x 125mm [W x H x D] |
| Weight | 1170 g (Complete camera w/ XCD 45mm lens, Li-Ion battery and card) |
| Lenses | Hasselblad XCD lenses with built-in electronically controlled shutter and aperture. Automatic or manual focusing with instant manual focus override. All HC/HCD lenses can be used with an adapter (optional). Lens shades can be mounted in reverse for transport. |
| Shutter | Electronically controlled lens shutter with speeds up to 1/2000. Flash sync at all speeds. |
| Shutter speed range | 60 minutes to 1/2000 sec with XCD lenses. 1/800 or 1/1000 with HC/HCD lenses. |
| Flash sync speed | Flash can be used at all shutter speeds. |
| Flash control | TTL centre-weighted system. Compatible with Nikon™ System flashes. ISO range 100 to 6400. Flash output can be adjusted (-3 to +3EV) for fill-in purposes independent of ambient light. Sync at all shutter speeds. |
| Focusing | Automatic and manual focusing with electronic focus aid in manual mode. Instant manual focus override. Automatic focusing using contrast detection. |
| Exposure metering | Spot, Center Weighted and Center Spot Metering range Spot: EV2 to 21, Center Weighted: EV1 to 21, Center Spot: EV1 to 21 |
| Auto Bracketing | Bracketing using predetermined number of captures (2, 3, 5, 7 or 9) and EV step difference intervals. |
| Power supply | Rechargeable Li-ion battery (7.2 VDC/3200 mAh) |
| Interval Timer | Number of captures from 2 to 'no limit' and interval from 1 second to 1 hour. |
| ISO Range | ISO 100 - 25600 |
| Customization | Some of the X1D's functions can be customized by the user to suit specific styles or situations through the built-in menu system. |

1.4 SYSTEM REQUIREMENTS

Storage and editing of images requires a certain minimum standard regarding computer capabilities. Large images require a reasonably high-performance computer with sufficient memory, advanced graphics capabilities and a recent operating system.

It is recommended that the computer has a USB 3 connector, which will allow you to load images more quickly from the camera. A USB SD card reader can also be used for image transfer from the SD cards.



1.5 ABOUT THIS USER GUIDE

The X1D User Guide is designed for onscreen PDF reading to take advantage of the interactivity functions and search tools.

INTERACTIVE PDF

You can navigate the User Guide by selecting a chapter in the Table of Contents. This interactive feature is available on nearly all PDF readers, computer platforms and webbrowsers.

SEARCH TOOLS

On most PDF readers you can use the Search Tool to find a specific subject, function or setting.



FORMAT AND PRINTING THE X1D USER GUIDE

Please note that the format is A4 to conform with the most common standard. Therefore if printing out to US Letter format or similar please ensure you select "Fit to Printable Area" in the page scaling dialogue.



2.1 SAFETY AND WARNINGS

Warning!

Do not place cables between camera and computer so that there is a risk for people to trip and fall. This can cause personal injury and/or damage to the equipment.

Warning!

If you use spare battery packs, make sure to use protective caps on the contacts. The contacts can short-circuit and catch fire if not protected. This can cause personal injury and/or damage to the equipment.

Warning!

Do not expose batteries (battery pack and batteries installed) to excessive heat such as sunshine, fire or similar. If exposed, the batteries can catch fire. This can cause personal injury, damage to the equipment and the surrounding environment.

Warning!

Be careful when working with strobe and flash units. This will prevent personal injury and/or damage to the equipment.

Warning!

Operation of this equipment in a residential area could cause radio interference.

2.2 CAUTIONS

Caution!

Be careful when you use the camera. The camera is a precision instrument. This will help prevent damage to the camera.

Caution!

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Caution!

Do not use batteries other than specified. This can cause damage to the batteries.

Caution!

Use protective covers as much as possible. The protective covers will help prevent damage to the equipment.

Caution!

Use a protective case or camera bag when you transport the equipment. This will help prevent damage to the equipment.

Caution!

Protect the equipment from oil fumes, steam, humid conditions and dust. This will help prevent damage to the equipment.

Caution!

Seal all equipment in a plastic bag or similar if you enter damp and humid condition from dry and cold condition. Wait until the equipment has acclimatized to the new temperature before you remove the equipment from bag. This will help prevent damage to the equipment.

Caution!

Avoid frequent and high temperature changes. This can cause 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.

Caution!

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

Caution!

Use the grip or strap when you lift and handle to camera. This will help prevent damage to the camera.

Caution!

Do not insert fingers into the camera body. This can cause damage to the equipment.

Caution!

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

Caution!

Do not touch the CMOS Sensor with your fingers. This can cause damage to the equipment.

Caution!

Keep all equipment out of reach of small children. This will prevent damage to the equipment.

Caution!

When cleaning the camera, remove the batteries. This will prevent damage to the camera.

Caution!

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

Caution!

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

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.

2.3 DISPOSAL



This product must be put in municipal waste.
Check local regulations for disposal.

2.4 FCC

Federal Communication Commission Interference Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The highest SAR value as reported to the authorities for the X1D-50c when tested for use by the Body is 0.10 W/kg and Extremity is 0.33W/kg against a limit of 1.6W/kg.

2.5 ISED

RSS-Gen Information for the Certification of Radio Apparatus
This device complies with ISED licence-exempt RSS standard(s).
Operation is subject to the following two conditions:

- 1 this device may not cause interference, and
- 2 this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme au(x) standard(s) RSS exempt(s) de licence de ISED. Son fonctionnement est sujet aux deux conditions suivantes:

- 1 cet appareil ne doit pas occasionner d'interférence
- 2 cet appareil doit supporter toutes les interférences, y compris celles qui pourraient provoquer un mauvais fonctionnement de cet appareil.

RSS-102 RF Exposure Compliance of Radiocommunication

Apparatus

The X1D-50c has been designed to comply with safety requirements for exposure to radio waves. SAR testing has been performed in accordance with RSS-102, with the X1D-50c transmitting at its highest certified power level in all used frequency bands. The highest Body SAR value for the X1D-50c when tested was 0.10 W/kg against a limit of 1.6 W/kg. Extremity SAR was measured to 0.33 W/kg. Please follow the instructions included in the user guide for product installation and use.

Le X1D-50c a été conçu pour se conformer aux exigences de sécurité en matière d'exposition aux ondes radio. Des tests SAR ont été effectués conformément à la RSS-102 avec le X1D-50c transmettant à son plus haut niveau de puissance certifié dans toutes les bandes de fréquences utilisées.

La valeur SAR la plus élevée pour la X1D-50c lors des tests était de 0,10 W/Kg contre une limite de 1.6 W/kg. On a mesuré l'extrémité SAR à 0,33 W/kg. Merci de suivre les instructions fournies dans le mode d'emploi pour l'installation et l'utilisation du produit.

2.6 CERTIFICATION INFORMATION

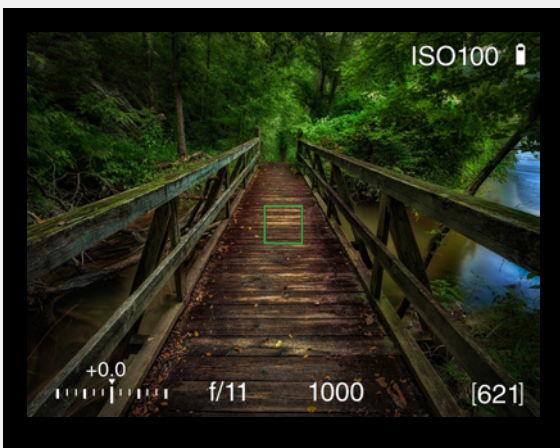
Depending on region certification information in addition to what is engraved on the camera bottom can be found on an e-label. From the Main Menu this label is reached by pressing General Settings > About > Certification.



3.1 THE X1D INTERACTION DISPLAYS



Electronic Viewfinder Display, EVF



Electronic Viewfinder Display, EVF

The EVF on the Camera displays ISO, Focus action, Exposure compensation, Aperture, Shutter and Captures remaining. Press the MF / AF and the ISO / WB buttons to change settings. Use the Front Scroll Wheel or the Rear Scroll Wheel to select desired settings. Press the same button again to Exit and Save.

Touch Display



Touch Display

The X1D display is touch sensitive and you can use it in the same way you navigate on a smartphone. Swipe, select, pinch and spread to zoom for example. You can also navigate by using the 5 soft buttons to the right of the Touch Display and Scroll Wheels on the Camera.

3.2 TOUCH DISPLAY NAVIGATION

The Touch Display on the X1D Camera is similar to a Phone or Tablet with touch sensitivity. The following gestures can be used to navigate and control the camera:

| Action | Function |
|-------------|---|
| Swipe Right | Move back / Move image right. |
| Swipe Left | Move image left. Only in Browse mode. |
| Swipe Down | Display Control Screen. |
| Swipe Up | Hide Control Screen. |
| Tap / Press | Select action / button / setting. |
| Double Tap | Zoom in to 100%. Double Tap again to Zoom out to full View. |

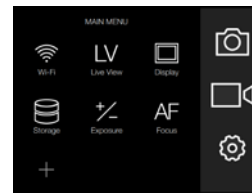
| Function | Action |
|------------------------|--|
| Select | Tap / Press with one finger. |
| Display Control Screen | Swipe down from the top of the screen. |
| Hide Control Screen | Swipe up. |
| Move back | Swipe right. |
| Zoom in | Spread (move two fingers apart). |
| Zoom out | Pinch (move two fingers together). |

Display Control Screen from Main Menu

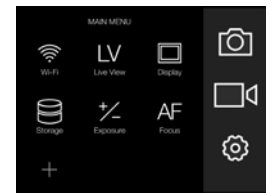
- 1 Swipe down over Main Menu to display the Control Screen. Swipe down by starting on the upper part of the Sensor Unit Display near the top edge.
- 2 The Control Screen displays the Camera Settings.
- 3 The Control Screen is interactive, select any of the settings to make a quick adjustment within the Control Screen Interface.
- 4 Swipe Up to hide the Control Screen and display the Main Menu.



Swipe Right



Swipe Left



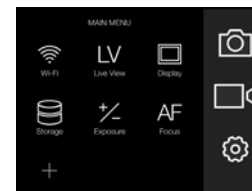
Swipe Down



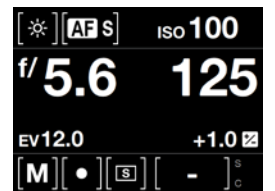
Swipe Up



Swipe Down

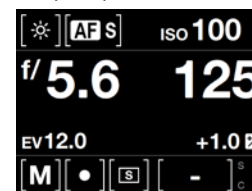


Main Menu

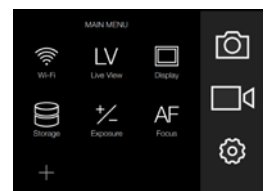


Control Screen

Swipe Up



Control Screen



Main Menu

ZOOM IN AND OUT ON THE TOUCH DISPLAY

The Touch Display on the X1D Camera is similar to a Phone or Tablet with touch sensitivity. The following gestures can be used to navigate and control the Camera:

| Function | Action |
|------------------------|---|
| Zoom in | Spread (move two fingers apart). |
| Zoom out | Pinch (move two fingers together). |
| Select | Tap / Press with one finger. |
| Move back | Swipe right. |
| Display Control Screen | Swipe down from the top of the screen. |
| Hide Control Screen | Swipe up. |
| Action | Function |
| Double Tap | Zoom in to 100%. Double Tap again to Zoom out to full View. |
| Swipe Right | Move back / Move image right. |
| Swipe Left | Move image left. Only in Browse mode. |
| Swipe Down | Display Control Screen. |
| Swipe Up | Hide Control Screen. |
| Tap / Press | Select action / button / setting. |

9 View Mode

9 View Mode displays an overview of up to 9 captures. Scroll down to display all Captures in the Folder.

Zoomed View



Standard Preview



9 View Mode



3.3 NAVIGATING THE MENUS

DESCRIPTION OF THE TOUCH DISPLAY MENU ITEMS

The X1D Display Screen is Touch Sensitive and you can click with one finger to select and swipe in different directions to move up, down, forward and backward through the user interface.

| Button | Screen function |
|------------------------|--------------------|
| 1 Browse Button | Go to image browse |
| 2 Soft Button | Up |
| 3 Image Rating Button | Select |
| 4 Soft Button | Down |
| 5 Menu / (EXIT) Button | Back to Main Menu |

1 Browse Button

Starts display and shows the last image. The user can review images, browse and zoom. Preview images and zoom in to view close-ups of previews for focus checking. Zoom out to view several at once and finally to view and select folders and media.

2 Soft Button

Function depends on screen information. Also acts as Delete Image button in Browse Mode.

3 Image Rating Button

Rate image 1-5 stars or green/yellow/red. Also works as soft button. Also toggles between 1-view and 9-view in Browse Mode.

4 Soft Button

Function depends on screen information.

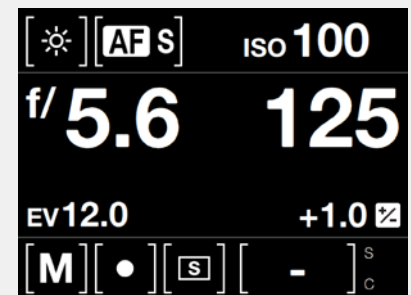
5 MENU / (EXIT) Button

This button opens the Main Menu. It is also used for other tasks (for example EXIT button) as you issue commands navigating the menu system.

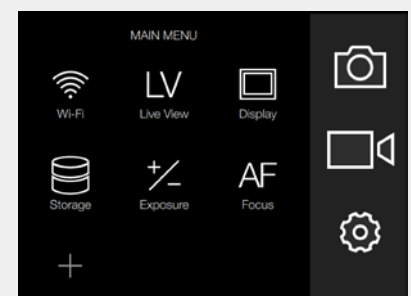
By using the buttons on the control panel and the scroll wheels on the grip you can navigate through the various levels in the menu. Here is an overview of the setting options available.



Control Screen



Main Menu



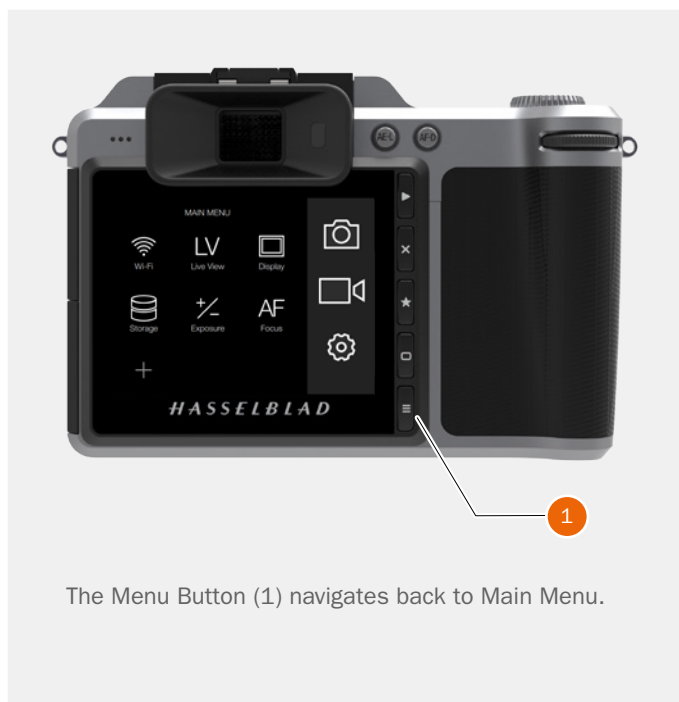
OVERVIEW OF MENUS AND SETTINGS ON TOUCH DISPLAY

The Touch Display can be controlled directly on the touch sensitive screen by pressing the menus and icons. You can scroll up, down and from left to right as described in previous chapters. You can also navigate the on screen menus by using the following buttons and scroll wheels:

- 1 Control buttons next to the Touch Display for example Menu / Exit button
- 2 Front Scroll Wheel
- 3 Shutter Release
- 4 Mode Dial
- 5 Rear Scroll Wheel

The Main Menu on the Touch Display:

On the right side of the Display there are three Main Function Settings, Camera Settings, Video Settings and General Settings. Above them the Favourite Settings Short Cuts are displayed. You can add or delete these Short Cuts to access your most used functions directly from the Main Menu for better work flow.



The Menu Button (1) navigates back to Main Menu.



3.4 TOUCH DISPLAY MAIN MENU

MAIN MENU

In the Main Menu there are 3 different Main Settings. Camera Settings (1), Video Settings (2) and General Settings (3). The placement of these 3 Settings are fixed and cannot be changed.

The icons on the left part of the Main Menu are Favourite Shortlinks to Functions. These are:

Wi-Fi
 Live View mode (LV)
 Display
 Storage
 Exposure (+/-)
 Focus (AF)

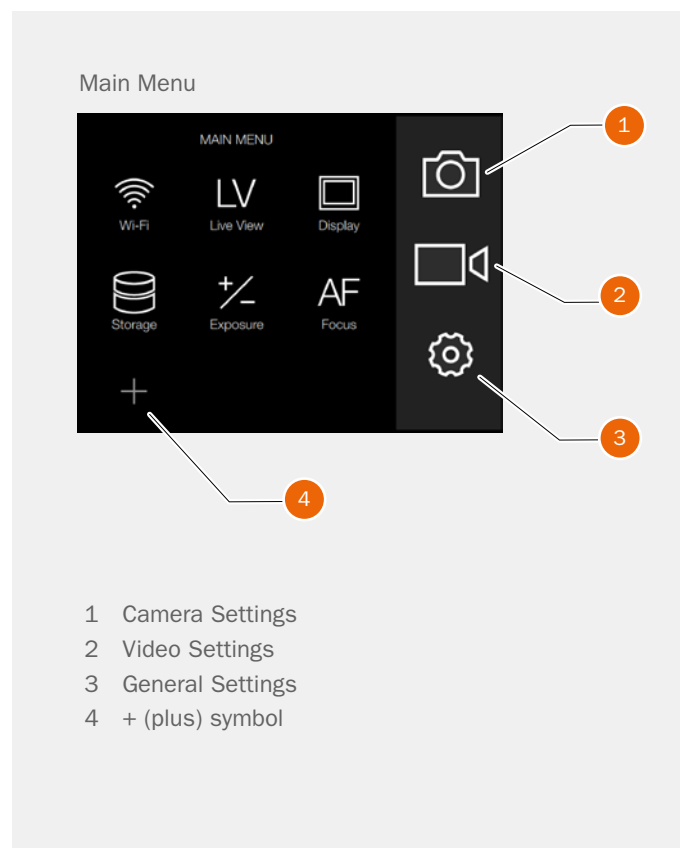
ADD SHORTLINKS TO MAIN MENU FAVOURITES

To create and speed up your own workflow you can add in the settings you use more frequently in the Favourite settings. To add your own functions, select the + icon (4) on the Main Menu. Select a new function from the list. This function will now be displayed on the Main Menu until you remove it and replace it by other Favourite settings.

The available functions to add are:

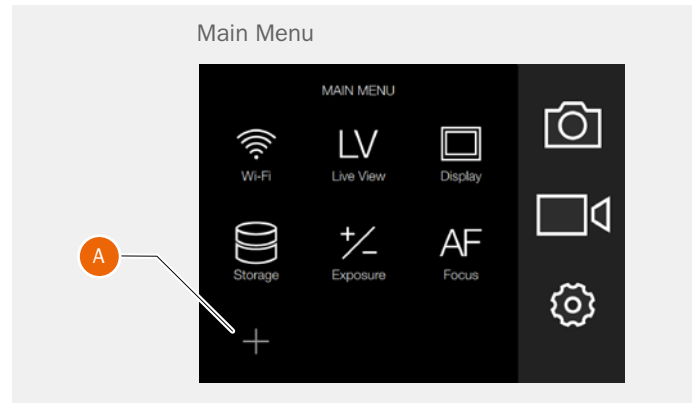
Quality RAW/JPG
 Self Timer
 Custom Buttons
 Configuration
 Image Info
 Video Quality 1080p
 Audio
 Profiles
 Sound
 Date & Time
 Power & Timeouts
 Language
 Service
 About

See detailed description on how to add and remove functions to your Favourite list on the following page.



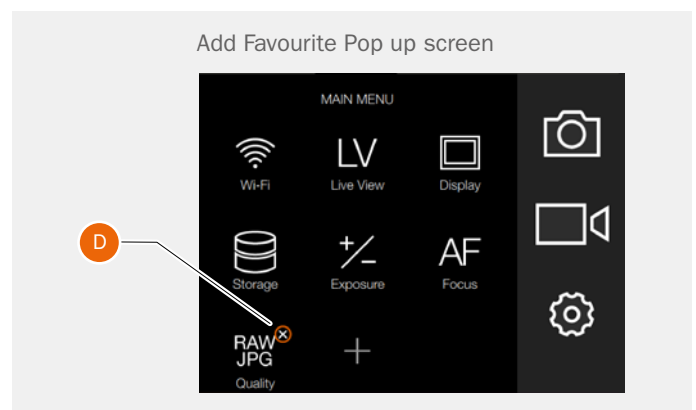
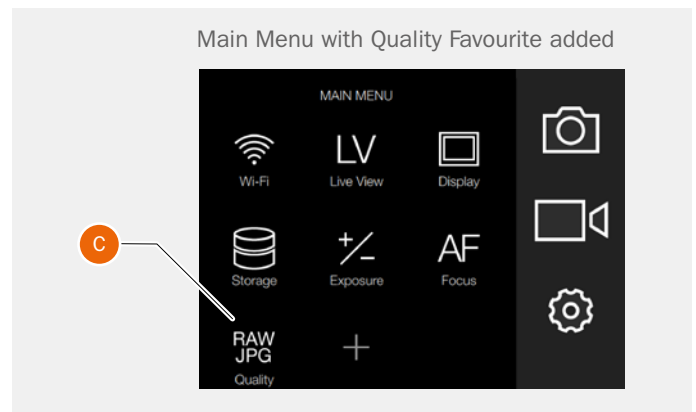
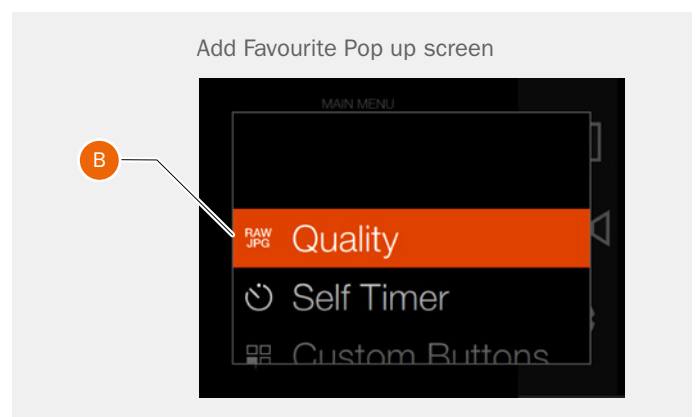
HOW TO ADD SHORTLINKS TO MAIN MENU

- 1 Select the + icon (A) on the Main Menu.
- 2 The Add Favourite Pop up screen displays the available options to add in a scroll list.
- 3 Select for example Quality RAW/JPG (B).
- 4 The RAW/JPG Quality icon is displayed on the Main Menu and the action is saved in the Camera Memory.



HOW TO REMOVE SHORTLINKS ON THE MAIN MENU

- 1 Press and Hold on the icon you would like to remove from the Main Menu Favourites. RAW/JPG Quality (C) in this example.
- 2 A new icon is displayed near the selected function (D).
- 3 Select / Press the X in the orange circle to delete the icon and remove the function from the Main Menu Favourites.
- 4 The RAW/JPG Quality icon is no longer displayed in the Main Menu Favourites list. You can add the same function back again later at any time.



CONTROL SCREEN

You can access the most common settings via the Control Screen. You can easily change these settings by tapping on any function and adjust directly.

Display Control Screen

Swipe down from the top of the display on the Touch Display or press the soft button to the right of the display you can always display the Control Screen.

Close the Control Screen

Swipe up from the top of the display on the Touch Display or press the soft button again the display you can always display the Control Screen.

LOCKED PROGRAMS ON THE CONTROL SCREEN

P Mode

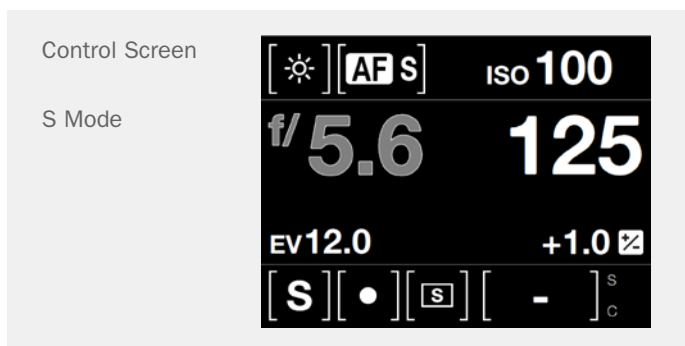
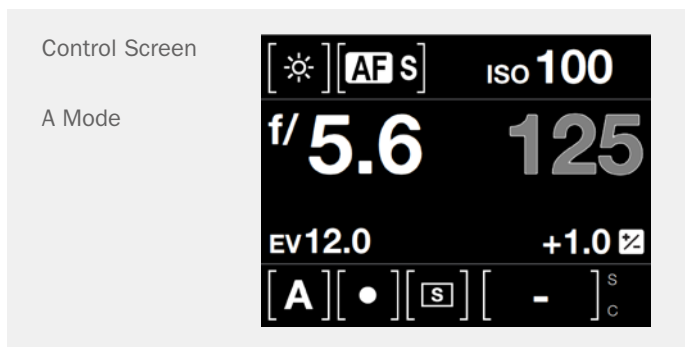
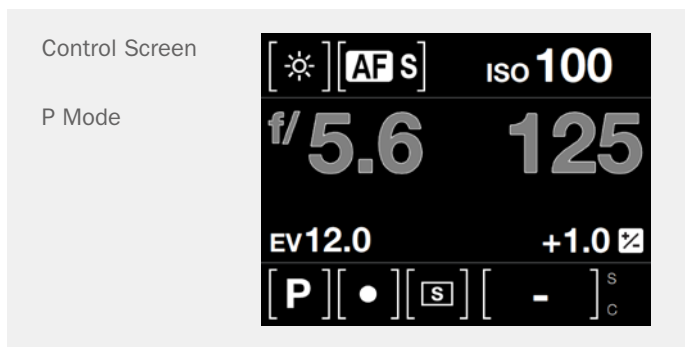
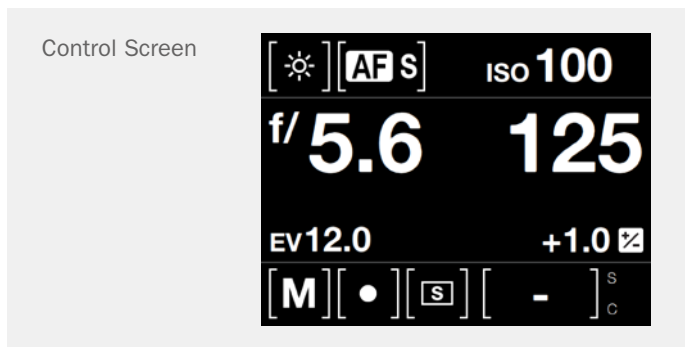
When you select P Mode the Aperture (5.6) and Shutter (125) are automatic and displayed in grey colour that indicates that you cannot change these settings.

A Mode

For Aperture priority (A) you can change the Aperture value and the Shutter value will be automatic and displayed in grey.

S Mode

For Shutter priority (S) you can change the Shutter value and the Aperture value will be automatic and displayed in grey.



SETTINGS ON THE CONTROL SCREEN

White Balance

- Cloudy
- Shade
- Daylight
- Tungsten
- Flourescent
- Flash
- Manual

AF Focus

- AF-S Single Focus
- AF-C Continuous Focus
- AF-T True Focus
- MF Manual Focus

ISO

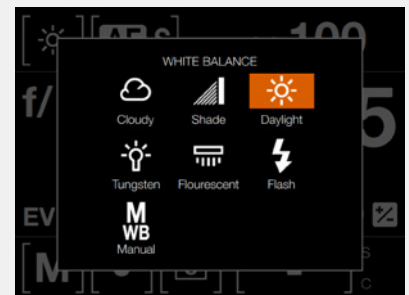
- Select ISO value.

Aperture

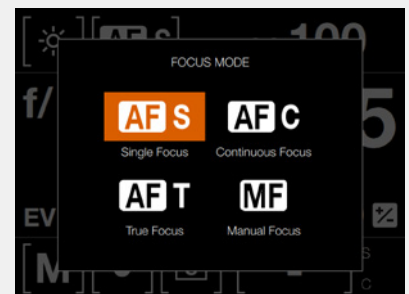
- Select Aperture value.

This Chapter continues on the next page.

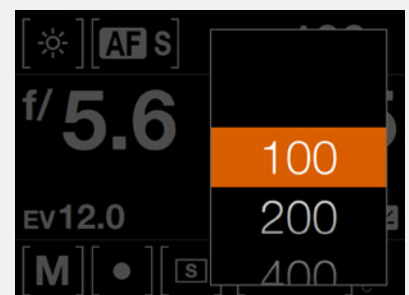
White Balance



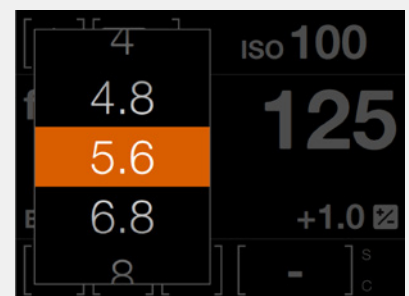
AF Focus



ISO



Aperture



Settings on the Control Screen

Shutter

- Select Shutter value.

Exposure Adjust

- Adjust Flash Exposure by sliding right (+) or left (-).
 - Adjust Exposure by sliding right (+) or left (-).

Exposure Mode

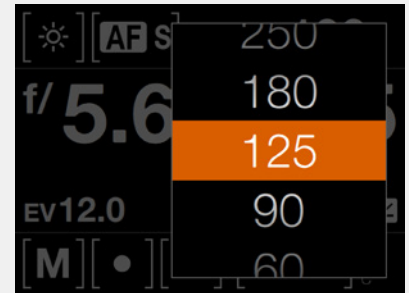
- M = Manual Mode
- Mq = Manual Quick Mode
- A = Aperture Priority Mode
- S = Shutter Priority Mode
- P = Program Mode
- C1 = Custom Program 1
- C2 = Custom Program 2
- C3 = Custom Program 3
- Video = Video Mode
- Rectangle = Automatic Mode (ISO and WB are also automatically set)

Metering Mode

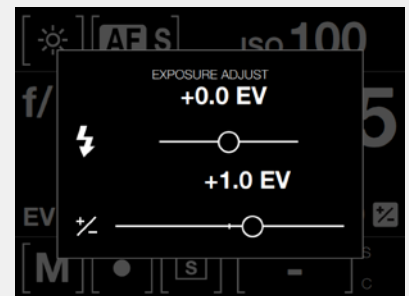
- Center Weighted
- Spot Weighted
- Center Spot Weighted

This Chapter continues on the next page.

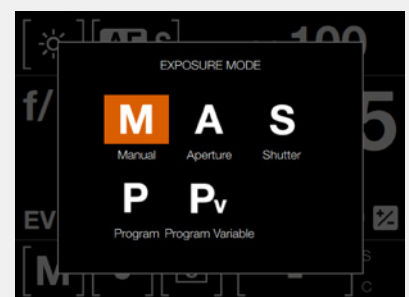
Shutter



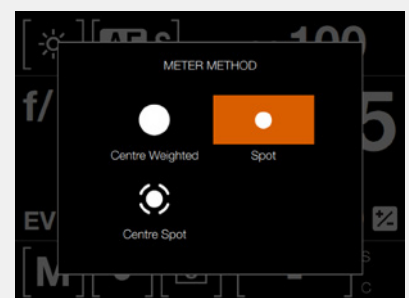
Exposure Adjust



Exposure Mode



Metering Mode



Settings on the Control Screen

Drive Mode

- Single Drive Mode.
- Continuous Drive Mode.

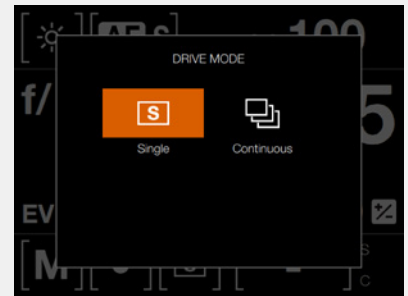
Remaining Captures

- Displays the number of remaining Captures.

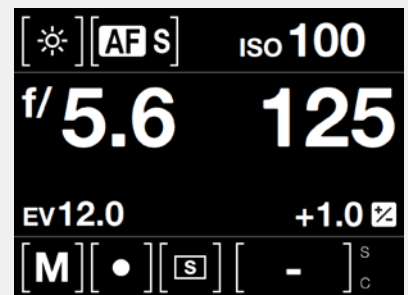
Memory Card

- SD 1 or SD 2 Card.

Drive Mode



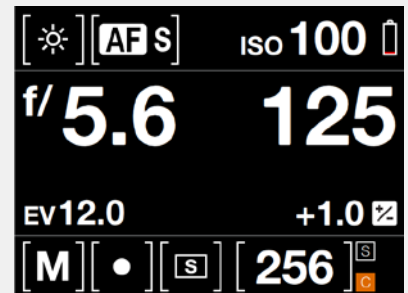
Remaining Captures



Memory Card

S1 - SD 1 Card.

S2 - SD 2 Card.



3.5 PARTS, COMPONENTS, BUTTONS AND CONTROLS

All parts here are described in detail elsewhere in this manual.

- 1 Mode Dial
- 2 Shutter Release Button
- 3 Front Scroll Wheel
- 4 AF Illuminator LED
- 5 Camera Grip
- 6 Stop Down Button



- 1 AE Lock Button
- 2 AF Drive Button
- 3 Rear Scroll Wheel
- 4 Browse Button
- 5 Soft Button
- 6 Image Rating Button
- 7 Delete Image / Soft Button
- 8 Menu Button



- 1 Electronic Viewfinder EVF
- 2 Speaker
- 3 Strap Lug
- 4 Eye Sensor
- 5 Touch Display
- 6 Status LED





- 1 Flash Hot Shoe
- 2 Dioptre Adjustment Dial
- 3 Electronic Viewfinder EVF
- 4 Touch Display
- 5 Shutter Release Button
- 6 Mode Dial
- 7 On / Off Button
- 8 Strap Lug

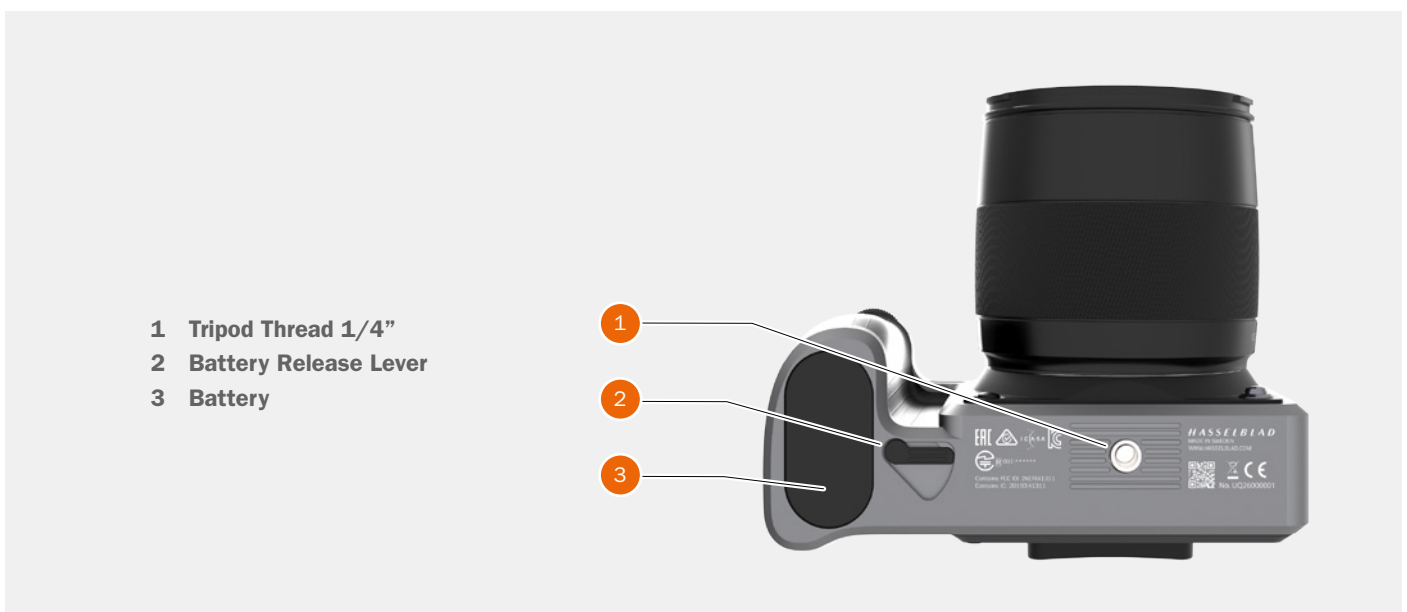


- 1 Microphone Right
- 2 Microphone Left
- 3 Strap Lug
- 4 Image Plane Mark
- 5 SD Cards Slot Lid
- 6 Connectors Slot Lid
- 7 Lens Release Button



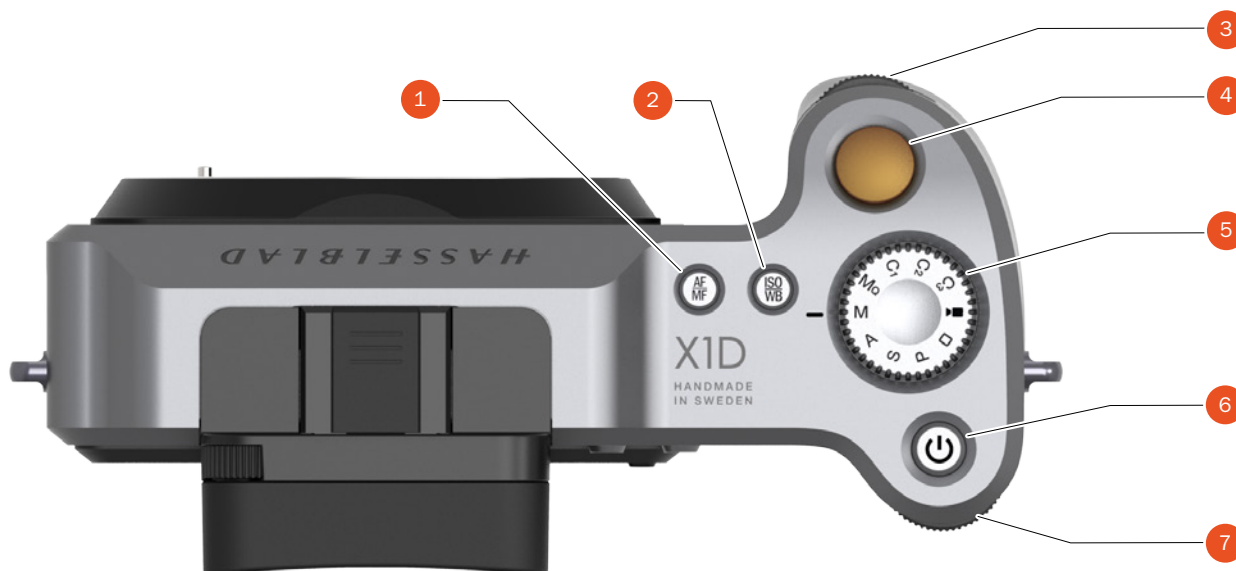
ADJUST DIOPTR

- 1 Dioptr Adjustment Wheel.
- 2 Rotate the Dioptr Adjustment Wheel to adjust to desired setting.



- 1 Tripod Thread 1/4"
- 2 Battery Release Lever
- 3 Battery

3.6 GRIP BUTTONS AND CONTROLS



1 AF / MF button

The AF /MF button toggles between Autofocus and Manual Focus.

2 ISO / WB button

This is a double function button. It provides direct access to the ISO and WB settings. Press one time to change ISO settings. Press again to change WB settings.

3 Front scroll wheel

The front and rear scroll wheels are used to make changes in exposure settings, navigate the sensor unit's menu as well as acting as browse controls.

4 Shutter release button

This button has two positions. Press half-way (or soft) to activate the camera, auto focus function and exposure meter. Press all the way down (or more firm) to release the shutter. The chosen exposure procedure and the self timer are also activated with this button.

5 Mode Dial

Select any of the 10 programs. M, A, S, P, Full Automatic mode, Video mode and 3 Custom modes C1, C2 and C3.

6 ON / OFF button

Press the button for 1 second to activate the camera. The X1D startup logo will appear and then the main screen. After a few seconds (customizable) the camera will enter Display

Off mode. A long press on the button turns the camera off completely (even from Display Off mode) signified by an audible signal (if set).

7 Rear scroll wheel

The scroll wheel is used to make changes in exposure settings, to navigate the sensor unit's menu as well as acting as browse control.

Note!

Some of the buttons have multiple functions according to the settings made.

3.7 CAMERA BODY BUTTONS AND CONTROLS

1 AE-L Button

This button activates AE-L that locks a light reading made in both automatic and manual exposure modes. It also acts as a Zoom out button when browsing or as Exit button when making a setting change on the sensor unit, according to mode. This button can be programmed to have other functions.

AF-D Button

The AF Drive button (AF-D) starts the Autofocus process. Press to start Autofocus and release to stop the Autofocus function. This button can be programmed to have other functions. The square symbol in the middle of the Viewfinder changes colour depending on the Autofocus process.

White - Normal mode. Autofocus is not analysing the subject.
 Orange - Autofocus is analysing the subject.
 Green - Autofocus performed and focus is set correct.
 Red - Autofocus failed to focus and is not set correct.

2 Rear Scroll Wheel

The Rear Scroll Wheel controls different settings according to the selected function.

3 Shutter Release Button

This button has two positions. Press half-way (or soft) to activate the camera, auto focus function and exposure meter. Press all the way down (or firm) to release the shutter. The chosen exposure procedure and the self timer are also activated with this button.

4 Front Scroll Wheel

The Front Scroll Wheel controls different settings according to the selected function.

5 Stop Down Button

Press 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. This button can be programmed to have other functions.



Note!

Customizable buttons AE-L, AF-D and Stop Down, are very useful and can save time and effort. See separate sections for full details.

3.8 MODE DIAL



Mode Dial Selector

The Mode Dial (1) displays the Camera Mode in use. There are 10 different programs selectable on the Mode Dial.

How to Lock the Mode Dial

Lock the Mode Dial

The Mode Dial Selector can be locked by pushing it down (2).

Unlock the Mode Dial

When in locked mode, push once to unlock the Mode Dial Selector (3).

The Different Camera Modes

- M = Manual Mode
- Mq = Manual Quick Mode
- A = Aperture Priority Mode
- S = Shutter Priority Mode
- P = Program Mode
- C1 = Custom Program 1
- C2 = Custom Program 2
- C3 = Custom Program 3
- Video = Video Mode
- Rectangle = Automatic Mode (ISO and WB are also automatically set)



3.9 EXPOSURE PROGRAM MODES

There are 7 different fixed programs and 3 Custom Programs, C1,C2 and C3. The Programs can be selected by turning the Mode Dial or you can access the Control Screen on the Touch Display

Programs

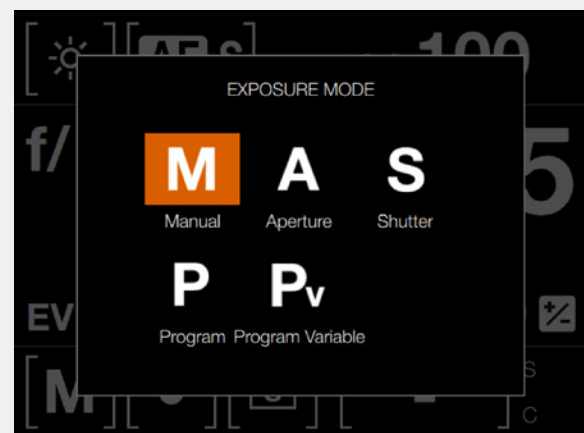
- M = Manual Mode
- Mq = Manual Quick Mode
- A = Aperture Priority Mode
- S = Shutter Priority Mode
- P = Program Mode
- C1 = Custom Program 1
- C2 = Custom Program 2
- C3 = Custom Program 3
- Video = Video Mode
- Rectangle = Automatic Mode (ISO and WB are also automatically set)



In manual mode, aperture is set by the front scroll wheel and the shutter speed by the rear scroll wheel.

In the automatic modes, the aperture and shutter speed settings are controlled by the camera, either partially or completely according to setting. Within this mode there are four choices.

Exposure Modes



MANUAL EXPOSURE MODE

To change the Exposure mode Swipe Down to display the Control Screen or press the EXP button on the Viewfinder.

Manual mode provides total user control of the shutter and aperture settings. In this mode the shutter speed and aperture settings are manually chosen by turning the front and rear scroll wheels.

The standard exposure setting is obtained when the pointer over the exposure scale is positioned above the central index (in the viewfinder display).

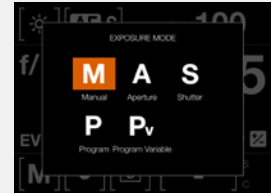
Any deviation from this standard setting is displayed by:

- the pointer appearing elsewhere than above the central index
- by figures above the scale representing the amount of adjustment in EV's.

A '+ 0.7' above the scale in the display, would indicate a '0.7 EV overexposure' setting. Conversely, a '-2', for example, would indicate a '2EV underexposure' setting. Note that the appearance of a +/- symbol on the grip and viewfinder displays in manual mode means that a change has been made to the exposure compensation setting. See later section on Exposure compensation.

The actual aperture settings and shutter speeds are indicated to the right of the exposure scale in the conventional manner. (Note: 'full-stops', 'half-stops' and 'third-stops' are also displayed, according to setting (see increment setting). For example, a setting between f/8 and f/11 will appear as f/9,5 if 'half-stop' is chosen).

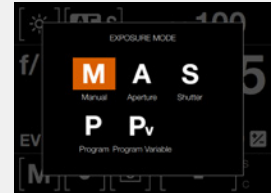
Exposure Modes Sensor Unit Display.



MANUAL QUICK EXPOSURE MODE

To change...

Exposure Modes
Sensor Unit Display.



AUTOMATIC EXPOSURE MODE

To change the Exposure mode Swipe Down to display the Control Screen or press the EXP button on the Viewfinder.

Automatic exposure provides a choice of two ways to control the shutter speed and aperture settings semi-automatically and two ways fully automatically:

Aperture priority A

The aperture is manually chosen by you by turning the front scroll wheel, and the shutter speed is automatically chosen by the camera.

Shutter priority S

The shutter speed is manually chosen by you by turning the front scroll wheel, and the aperture is automatically chosen by the camera.

Programmed P

In this mode, an aperture/shutter combination is chosen by the camera according to the EV measured (metering method remains as your choice), though only within pre-set appropriate limitations to suit various requirements and applications.

Custom Modes C1, C2 and C3

To write

Video Mode

To Write

Rectangle Mode (Rename)

To Write

In Automatic mode the front scroll wheel selects alternative aperture/shutter combinations while maintaining the same EV and the rear scroll wheel alters the amount of exposure compensation. The compensation appears as a +/- symbol on the grip display and viewfinder display.

Note!

Aperture and shutter speed settings can both be changed even while the busy light on sensor unit is flashing.

Exposure Modes Sensor Unit Display.



CUSTOM MODES

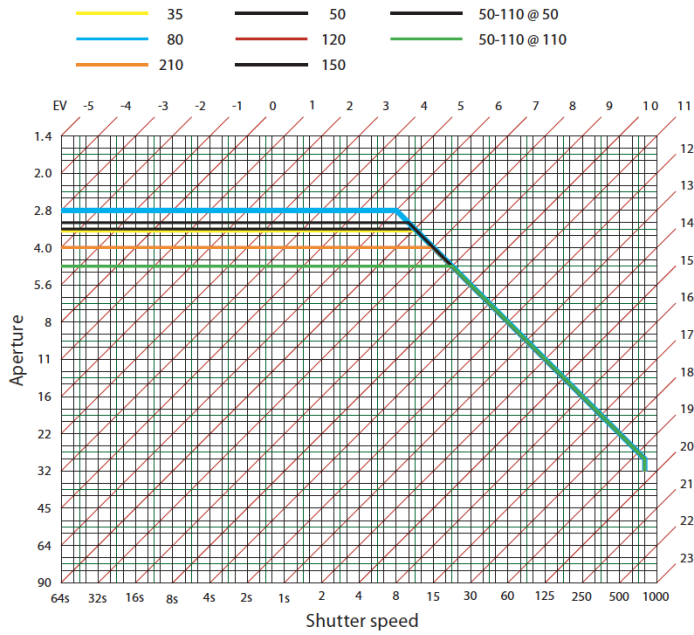
C1,C2, C3

Exposure Modes
Custom Modes

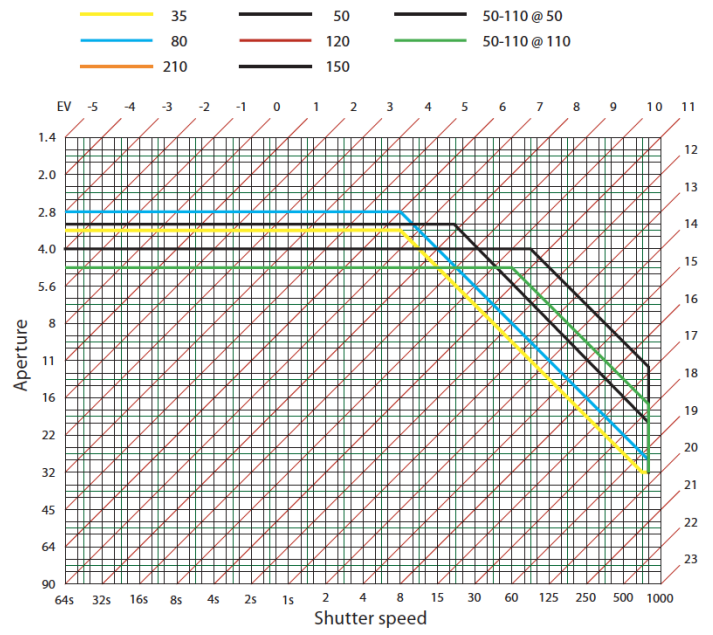


AUTOMATIC EXPOSURE - P MODE

P Mode



Pv Mode



AE-L BUTTON

The AE-L button (1) has two main functions that can be incorporated in various working methods involving exposure locking. It also has an extra function for the flash measure capability (see AE-L section under Flash). The AE-L button can:

Lock an EV setting in manual and automatic modes

When the button is pressed, the light metering facility is locked to the EV setting at that moment. An L (=locked) symbol appears between the shutter speed and the aperture indication on the Touch Display and Electronic Viewfinder Display to confirm the status. Press the AE-L button again to unlock (a toggle function).

In the locked setting, the aperture and shutter speed become interlocked. In this way, a new aperture/shutter combination that still represents the same EV, can be rapidly chosen. For example, if the shutter is set to 1/125s and the aperture to f/8 and are locked together, you can access new EV-equivalent combinations of, for example, 1/30s at f/16 or 1/500s at f/4 just by moving the front scroll wheel.

In practice this means you can, for example, in auto mode position the metering area (spot setting) over an area in the subject that you determine to be equivalent to a mid-grey and lock it with the AE-L button. You can then recompose the picture with the metering zone positioned over an area much brighter or darker while still retaining the original exposure setting and choose a new combination of aperture and shutter speed settings.

Zone System placement button

The AE-L button also allows the spot metering function to make zone placements. When the AE-L button is pressed, the metered area is saved as a mid-grey (Zone 5). When the spot area is then placed over another part of the scene, the new area is then compared to the saved area and the difference can be read off the scale seen in the Viewfinder. For example, in a landscape situation you could meter the foreground, lock the reading with the AE-L button (thereby locking that area to be reproduced as the equivalent to a mid-grey 18%), point the camera at some rocks to see by how much darker they are compared to the foreground by the EV difference read off the scale.

If you have chosen Spot together with Zone display as well as one of the automatic modes A, S, or P, point the spot marking at an area that you decide should be a Zone 5 and click the AE-L button. The meter will now display different parts of the subject as zone values in the viewfinder display, instead of EV deviations, as you move the spot marking over the subject. (Included are Lo and Hi to signify areas beyond the range of the sensor).



Alternatively you can choose to reclassify an area as another zone and then check the rest of the subject to see how other areas fall on the zone scale. Do this by following the above procedure and then turning the rear scroll wheel until you see the new desired zone value in the viewfinder display. You will also see the new exposure that will now produce that new zone. For example, you might have measured a rock at zone 5 but wish to make it darker. By moving the rear scroll wheel you could re-classify it as zone 4. You will then be able to see, for example, whether white clouds are now falling within the exposure range by their new zone classification.

Alternatively, you can also preset the initial zone reading in order to save time and effort where there is no freely available 'zone 5' subject for light measuring. For example, you might be on a sandy beach where you know that sand is normally classified as zone 6. You can preprogramme the zone placement by holding down the AE-L button while choosing the new zone value and turning the front scroll wheel until zone 6 appears. All new placements will then be zone 6.