



This user manual includes detailed usage instructions for your camera. Please read this manual thoroughly.

USER MANUAL

DV180F

Click a topic

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Health and safety information

Always comply with the following precautions and usage tips to avoid dangerous situations and ensure peak performance of your camera.



Warning—situations that could cause injury to yourself or others

Do not disassemble or attempt to repair your camera.

This may result in electric shock or damage to the camera.

Do not use your camera near flammable or explosive gases and liquids.

This may cause a fire or explosion.

Do not insert flammable materials into the camera or store these materials near the camera.

This may cause a fire or electric shock.

Do not handle your camera with wet hands.

This may result in electric shock.

Prevent damage to subjects' eyesight.

Do not use the flash in close proximity (closer than 1 m/3 ft) to people or animals. If you use the flash too close to your subject's eyes, this can cause temporary or permanent eyesight damage.

Keep your camera away from small children and pets.

Keep your camera and all accessories out of the reach of small children and animals. Small parts may cause choking or serious injury if swallowed. Moving parts and accessories may present physical dangers as well.

Do not expose the camera to direct sunlight or high temperatures for an extended period of time.

Prolonged exposure to sunlight or extreme temperatures can cause permanent damage to your camera's internal components.

Avoid covering the camera or charger with blankets or clothes.

The camera may overheat, which may distort the camera or cause a fire.

Do not handle the power supply cord or go near the charger during a thunderstorm.

This may result in electric shock.

If liquid or foreign objects enter your camera, immediately disconnect all power sources, such as the battery or charger, and then contact a Samsung service center.

Comply with any regulations that restrict the use of a camera in a certain area.

- Avoid interference with other electronic devices.
- Turn off the camera when in an aircraft. Your camera can cause interference with aircraft equipment. Follow all airline regulations and turn off your camera when directed by airline personnel.
- Turn off the camera near medical equipment. Your camera can interfere with medical equipment in hospitals or health care facilities. Follow all regulations, posted warnings, and directions from medical personnel.

Avoid interference with pacemakers.

Maintain a minimum of 15 cm between this camera and all pacemakers to avoid potential interference, as recommended by the manufacturer and the independent research group, Wireless Technology Research. If you have any reason to suspect that your camera is interfering with a pacemaker or other medical device, turn off the camera immediately and contact the manufacturer of the pacemaker or medical device for guidance.



Caution—situations that could cause damage to your camera or other equipment

Remove the batteries from your camera when storing it for an extended period of time.

Installed batteries may leak or corrode over time and cause serious damage to your camera.

Use only authentic, manufacturer-recommended, Lithium-ion replacement batteries. Do not damage or heat the battery.

Inauthentic, damaged, or heated batteries may cause a fire or personal injury.

Use only Samsung-approved batteries, chargers, cables and accessories.

- Using unauthorized batteries, chargers, cables or accessories can cause batteries to explode, damage your camera, or cause injury.
- Samsung is not responsible for damage or injuries caused by unapproved batteries, chargers, cables or accessories.

Use the battery only for its intended purpose.

Misusing the battery may cause a fire or electric shock.

Do not touch the flash while it fires.

The flash is very hot when fired and may burn your skin.

When you use the AC charger, turn off the camera before you disconnect the power to the AC charger.

Failing to do so may result in fire or electric shock.

Disconnect the charger from the wall socket when not in use.

Failing to do so may result in fire or electric shock.

Do not use a damaged power supply cord, plug, or loose outlet when you charge batteries.

This may cause a fire or electric shock.

Do not allow the AC charger to come in contact with the +/- terminals on the battery.

This may cause a fire or electric shock.

Do not force the camera's parts or apply pressure to the camera.

This may cause your camera to malfunction.

Exercise caution when you connect cables or adapters and install batteries and memory cards.

If you force the connectors, improperly connect cables, or improperly install batteries and memory cards, you can damage ports, connectors, and accessories.

Keep cards with magnetic strips away from the camera case.

Information stored on the card may be damaged or erased.

Never use a damaged charger, battery, or memory card.

This may result in electric shock or camera malfunction or cause a fire.

Check that the camera is operating properly before use.

The manufacturer takes no responsibility for any loss of files or damage that may result from camera malfunction or improper use.

You must plug the small end of the USB cable into your camera.

If the cable is reversed, it may damage your files.

The manufacturer is not responsible for any loss of data.

Avoid interference with other electronic devices.

Your camera emits radio frequency (RF) signals that may interfere with unshielded or improperly shielded electronic equipment, such as pacemakers, hearing aids, medical devices, and other electronic devices in homes or vehicles. Consult the manufacturers of your electronic devices to solve any interference problems you experience. To prevent unwanted interference, use only Samsung-approved devices or accessories.

Use your camera in the normal position.

Avoid contact with your camera's internal antenna.

Data transference and your responsibilities

- Data transferred via WLAN could be leaked, so avoid transferring sensitive data in public areas or on open networks.
- The camera manufacturer is not liable for any data transfers that infringe on copyrights, trademarks, intellectual property laws, or public decency ordinances.

Copyright information

- Microsoft Windows and the Windows logo are registered trademarks of the Microsoft Corporation.
- Mac is a registered trademark of the Apple Corporation.
- microSD™, microSDHC™, and microSDXC™ are registered trademarks of the SD Association.
- Wi-Fi®, the Wi-Fi CERTIFIED logo, and the Wi-Fi logo are registered trademarks of the Wi-Fi Alliance.
- Trademarks and trade names used in this manual are the property of their respective owners.

- Camera specifications or contents of this manual may be changed without prior notice due to upgrade of camera functions.
- We recommend using your camera within the country where you purchased.
- Use this camera responsibly and adhere to all laws and regulations concerning its use.
- You are not allowed to reuse or distribute any part of this manual without prior permission.

Outline of the User Manual

Basic functions 13

Learn about your camera's layout, icons, and basic functions for shooting.

Extended functions 37

Learn how to capture a photo and record a video by selecting a mode.

Shooting options 56

Learn how to set the options in Shooting mode.

Playback/Editing 77

Learn how to play back photos or videos, and edit photos or videos. Also, learn how to connect your camera to your computer, photo printer, or TV.

Wireless network 98

Learn to connect to wireless local area networks (WLANs) and use functions.

Settings 118

Refer to options to configure your camera's settings.

Appendixes 124

Get information about error messages, specifications, and maintenance.

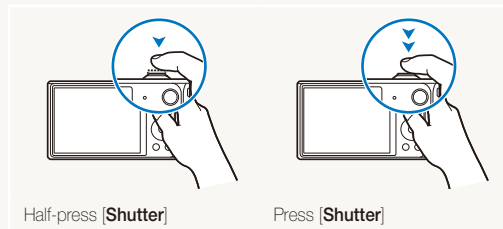
Icons used in this manual

Icon	Function
	Additional information
	Safety warnings and precautions
[]	Camera buttons. For example, [Shutter] represents the shutter button.
()	Page number of related information
→	The order of options or menus you must select to perform a step; for example: Select Face Detection → Normal (represents Select Face Detection , and then select Normal).
*	Annotation

Expressions used in this manual

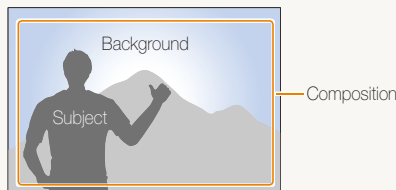
Pressing the shutter

- Half-press [Shutter]: Press the shutter halfway down
- Press [Shutter]: Press the shutter all the way down



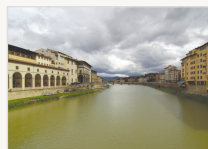
Subject, background, and composition

- **Subject:** The main object in a scene, such as a person, animal, or still life
- **Background:** The objects around the subject
- **Composition:** The combination of a subject and background

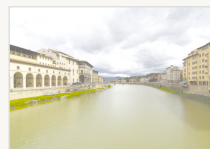


Exposure (Brightness)

The amount of light that enters your camera determines the exposure. You can alter the exposure by changing the shutter speed, aperture value, or ISO sensitivity. By altering the exposure, your photos will be darker or lighter.



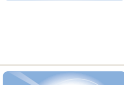
▲ Normal exposure



▲ Overexposure (too bright)

Basic troubleshooting

Learn to solve common problems by setting shooting options.

	The subject's eyes appear red.	Red eye occurs when the subject's eyes reflect light from the camera flash. - Set the flash option to  Red-eye or  Red-eye Fix. (p. 64) - If the photo has already been captured, select  Red-eye Fix in the edit menu. (p. 97)
	Photos have dust spots.	If dust particles are present in the air, you may capture them in photos when you use the flash. - Turn off the flash or avoid capturing photos in a dusty place. - Set ISO sensitivity options. (p. 66)
	Photos are blurred.	Blurring can occur if you capture photos in low light conditions or hold the camera incorrectly. Use the OIS function or half-press [Shutter] to ensure the subject is focused. (p. 35)
	Photos are blurred when shooting at night.	As the camera tries to let in more light, the shutter speed slows. This can make it difficult to hold the camera steady long enough to capture a clear photo and may result in camera shake. - Select Night Shot mode. (p. 51) - Turn on the flash. (p. 64) - Set ISO sensitivity options. (p. 66) - Use a tripod to prevent your camera from shaking.
	Subjects come out too dark because of backlighting.	When the light source is behind the subject or when there is a high contrast between light and dark areas, the subject may appear too dark. - Avoid shooting toward the sun. - Select Backlight in Scene mode. (p. 42) - Set the flash option to  Fill in. (p. 64) - Adjust the exposure. (p. 74) - Set the Auto Contrast Balance (ACB) option. (p. 75) - Set the metering option to  Spot if a subject is in the center of the frame. (p. 75)

Quick reference



Capturing photos of people

- Picture in Picture mode ► 45
- Self Shot mode ► 46
- Children mode ► 48
- Beauty Shot mode ► 50
- Intelligent Portrait mode ► 51
- Red-eye/Red-eye Fix (to prevent or correct red-eye) ► 64
- Face Detection ► 70



Capturing photos at night or in the dark

- Scene mode > Sunset, Dawn ► 42
- Night Shot mode ► 51
- Flash options ► 64
- ISO sensitivity (to adjust the sensitivity to light) ► 66



Capturing action photos

- Continuous, Motion Capture ► 78



Capturing photos of text, insects, or flowers

- Scene mode > Text ► 42
- Close-up Shot mode ► 52
- Macro ► 67



Adjusting the exposure (brightness)

- ISO sensitivity (to adjust the sensitivity to light) ► 66
- EV (to adjust exposure) ► 74
- ACB (to compensate for subjects against bright backgrounds) ► 75
- Metering ► 75
- AEB (to capture 3 photos of the same scene with different exposures) ► 78



Capturing photos of scenery

- Scene mode > Landscape ► 42
- Live Panorama mode ► 43



Applying effects to photos

- Magic Frame mode ► 53
- Funny Face mode ► 54
- Photo Filter mode ► 55
- Split Shot mode ► 57
- Artistic Brush mode ► 58
- Motion Photo mode ► 59
- Image Adjust (to adjust Sharpness, Contrast, or Saturation) ► 79



Applying effects to videos

- Movie Filter mode ► 56



Reducing camera shake

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Basic functions

Learn about your camera's layout, icons, and basic functions for shooting.

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Unpacking

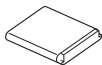
The following items are included in your product box.



Camera



AC adapter/
USB cable



Rechargeable battery



Strap

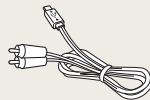


Quick Start Guide

Optional accessories



Camera case



A/V cable



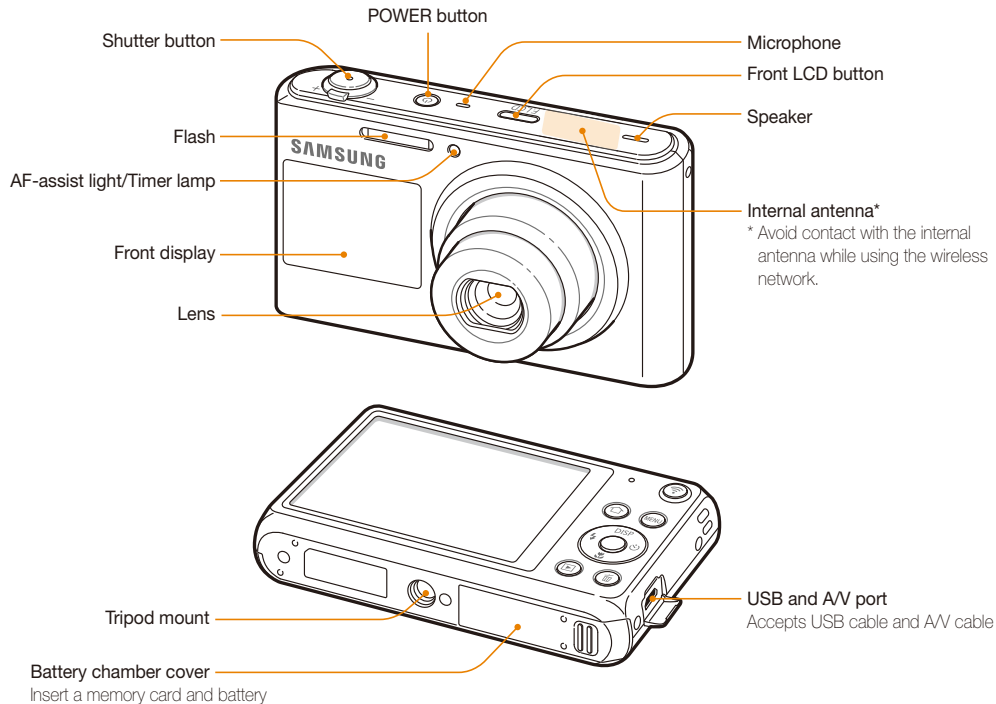
Memory card/Memory card adapter

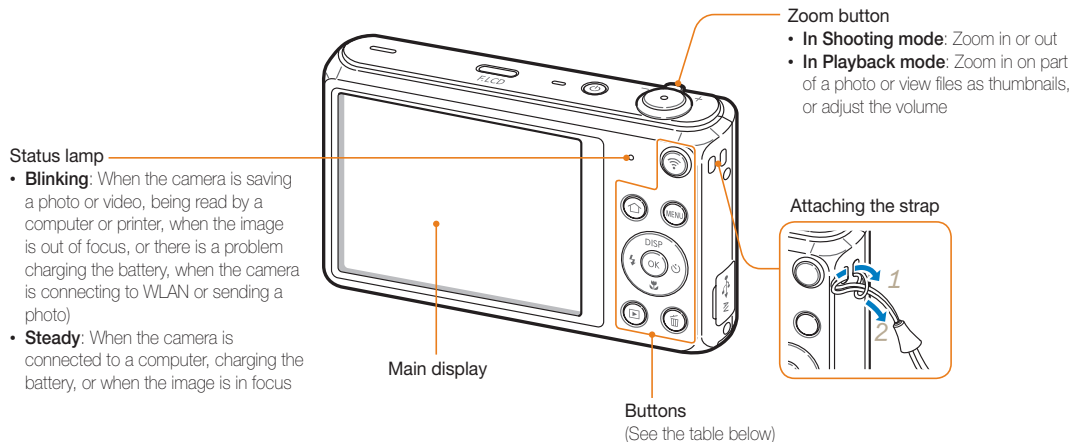


- The illustrations may differ slightly from the items shipped with your product.
- The items included in the box may differ depending on the model.
- You can purchase optional accessories at a retailer or a Samsung service center. Samsung is not responsible for any problems caused by using unauthorized accessories.

Camera layout

Before you start, familiarize yourself with your camera's parts and their functions.



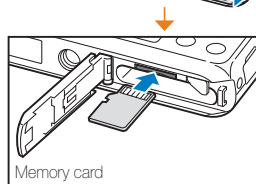
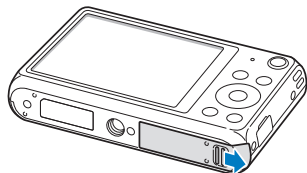


Button	Description
	Access the Home screen.
	Access options or menus.
	Enter Playback mode.
	Delete files in Playback mode.

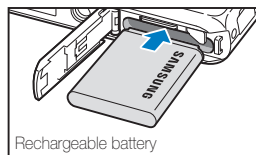
Button	Description	
	Basic functions	Other functions
	DISP	Change the display option. Move up
		Change the macro option. Move down
		Change the flash option. Move left
		Change the timer option. Move right
	Confirm the highlighted option or menu.	

Inserting the battery and memory card

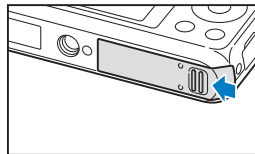
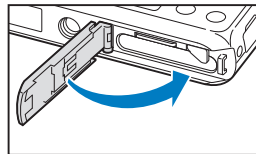
Learn how to insert the battery and an optional memory card into the camera.



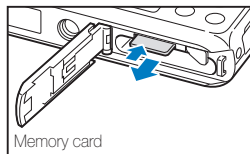
Insert a memory card with the gold-colored contacts facing up.



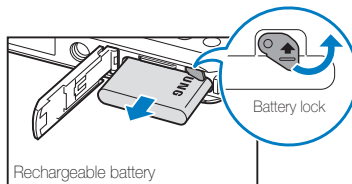
Insert the battery with the Samsung logo facing up.



Removing the battery and memory card



Push the card gently until it disengages from the camera, and then pull it out of the slot.



Slide the lock to the right to release the battery.

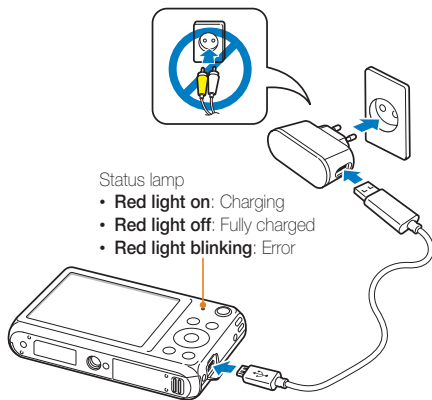


You can use the internal memory for temporary storage if a memory card is not inserted.

Charging the battery and turning on your camera

Charging the battery

Before you use the camera for the first time, you must charge the battery. Plug the small end of the USB cable into your camera, and then plug the other end of the USB cable into the AC adapter.



Status lamp

- **Red light on:** Charging
- **Red light off:** Fully charged
- **Red light blinking:** Error

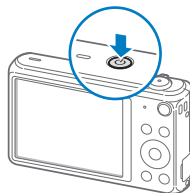


Use only the AC adapter and USB cable supplied with your camera. If you use another AC adapter (such as SAC-48), the camera battery may not charge or work properly.

Turning on your camera

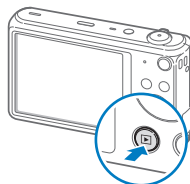
Press **[POWER]** to turn your camera on or off.

- The initial setup screen appears when you turn on the camera for the first time. (p. 19)



Turning on your camera in Playback mode

Press **[▶]**. The camera turns on and immediately accesses Playback mode.

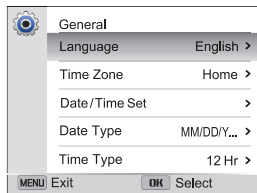


If you turn on your camera by pressing and holding **[▶]** until the status lamp blinks, the camera does not emit any sounds.

Performing the initial setup

When you turn on your camera for the first time, the initial setup screen appears. Follow the steps below to configure the camera's basic settings.

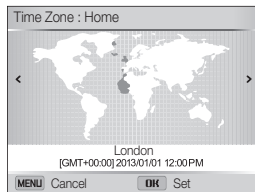
- 1 Verify that **Language** is highlighted, and then press [🔧] or [OK].



- 2 Press [DISP/🌐] to select a language, and then press [OK].
- 3 Press [🌐] to select **Time Zone**, and then press [🔧] or [OK].

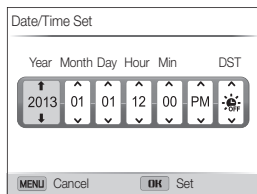
- 4 Press [DISP/🌐] to select **Home**, and then press [OK].
 - When you travel to another country, select **Visit**, and then select a new time zone.

- 5 Press [🌐/🔧] to select a time zone, and then press [OK] → [MENU].



- The screen may differ depending on the language selected.

- 6 Press [] to select **Date/Time Set**, and then press [] or [**OK**].



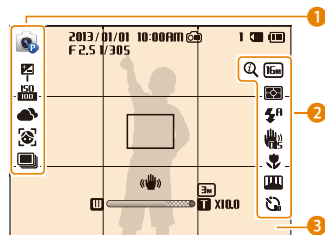
- The screen may differ depending on the language selected.

- 7 Press [/] to select an item.
- 8 Press [**DISP**/] to set the date, time, and daylight-saving time, and then press [**OK**].

- 9 Press [] to select **Date Type**, and then press [] or [**OK**].
- 10 Press [**DISP**/] to select a date type, and then press [**OK**].
- 11 Press [] to select **Time Type**, and then press [] or [**OK**].
- 12 Press [**DISP**/] to select a time type, and then press [**OK**].
- 13 Press [**MENU**] to finish the initial setup.

Learning icons

The icons the camera displays on the screen change according to the mode you select or the options you set.



1 Shooting options (left)

Icon	Description
	Shooting mode
	Exposure value adjusted
	ISO sensitivity
	White balance
	Face detection
	Face tone
	Burst option

2 Shooting options (right)

Icon	Description
	Intelli zoom on
	Photo resolution
	Video resolution
	Metering
	Frame rate
	Flash
	Sound Alive on
	Optical Image Stabilization (OIS)
	Auto focus option
	Image adjustment (sharpness, contrast, and saturation)
	Timer

3 Shooting information

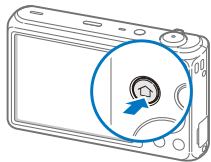
Icon	Description
2013/01/01	Current date
10:00AM	Current time
	Front display is on
1	Available number of photos
	Memory card inserted
	: Fully charged : Partially charged : Empty (Recharge)
F2.5	Aperture value
1/305	Shutter speed
00:10	Available recording time
	Auto focus frame
	Camera shake
	Zoom indicator
3m	Photo resolution when the Intelli zoom is on
X10.0	Zoom ratio

Using the Home screen

You can select a shooting mode or access the settings menu by selecting the icons on the Home screen.

Accessing the Home screen

In Shooting or Playback mode, press [**HOME**]. Press [**HOME**] again to return to the previous mode.



No.	Description
	Current Home screen • Rotate [Zoom] to the left or right to switch to another Home screen.
1	• Press [DISP] to scroll to the Home screen name, and then press [⚡/☺] to switch to another Home screen. • Press [⚡/☺] repeatedly to switch to another Home screen.
2	Mode icons • Press [DISP/⚡/☺] to scroll to a desired mode, and then press [OK] to access the mode.

Icons on the Home screen

<Basic>

Icon	Description
	Smart Auto: Capture a photo with a scene mode selected automatically by the camera. (p. 38)
	Program: Capture a photo with settings you have adjusted manually. (p. 39)
	Smart Movie: Record a video with a scene mode selected automatically by the camera. (p. 40)
	Movie: Record a video. (p. 41)
	Scene: Capture a photo with options that are preset for a specific scene. (p. 42)
	Live Panorama: Capture and combine a series of photos to create a panoramic image. (p. 43)
	Settings: Adjust settings to match your preferences. (p. 129)

<Wi-Fi>

Icon	Description
	MobileLink: Send photos or videos to a smart phone. (p. 112)
	Remote Viewfinder: Use a smart phone as a remote shutter release and see a preview on your smart phone of an image from your camera. (p. 113)
	Social Sharing: Upload photos or videos to file sharing websites. (p. 115)
	Email: Send photos or videos stored on the camera via email. (p. 117)
	Cloud: Upload photos to a cloud server. (p. 120)
	Auto Backup: Send photos or videos that you captured with the camera to a PC wirelessly. (p. 121)
	TV Link: View photos or videos that you captured with the camera on a widescreen TV. (p. 123)

<Scene>

Icon	Description
	Picture in Picture: Capture a background photo and insert a smaller photo or video into the foreground. (p. 45)
	Self Shot: Use the front display when you capture a self portrait. (p. 46)
	Children: Attract children's attention with a short animation on the front display. (p. 48)
	Jump Shot: Let your subjects know the best moment to jump with a countdown on the front display. (p. 48)
	Beauty Shot: Capture a portrait with options to hide facial imperfections. (p. 50)
	Intelligent Portrait: Save 2 additional portraits automatically using the face detection functions. (p. 51)
	Night Shot: Capture a night scene by adjusting shutter speed. (p. 51)
	Close-up Shot: Capture close-up photos of subjects. (p. 52)

<Magic>

Icon	Description
	Magic Frame: Capture a photo with various frame effects. (p. 53)
	Funny Face: Capture a photo with funny face effects. (p. 54)
	Photo Filter: Capture a photo with various filter effects. (p. 55)
	Movie Filter: Record a video with various filter effects. (p. 56)
	Split Shot: Capture several photos and arrange them with preset layouts. (p. 57)
	Artistic Brush: Capture a photo and save a video that shows how to apply the filter effect. (p. 58)
	Motion Photo: Capture and combine a series of photos, and then select an area to be animated to create a GIF animation. (p. 59)

<Album>

Icon	Description
	Album: View files by category in Smart album. (p. 86)
	Photo Editor: Edit photos with various effects. (p. 95)

Setting Wallpaper

Set wallpaper for the Home screen with the desired image.

1 On the Home screen, scroll to **<Basic>**.

2 Select .

3 Select **Display** → **Wallpapers**.

4 Select an option.

Option	Description
Wallpaper Gallery	Select the desired wallpaper from the default gallery.
Album	Set a photo you have captured as wallpaper.

5 Scroll to the desired wallpaper, and then press **[OK]**.

- If you select a photo you have captured, you can set a specified area as wallpaper. Rotate **[Zoom]** to the left or right to reduce or enlarge the area. Press **[DISP/👉/👈/🔄]** to move the area.

6 Press **[OK]** to save.



You can also set the photo you are viewing as wallpaper by pressing **[MENU]**, and then selecting **Set Wallpaper** in Playback mode.

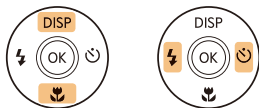
Selecting options or menus

To select an option or a menu, press **[MENU]**, and then press **[DISP/⬇️/⚡/☺]** or **[OK]**.

1 In Shooting mode, press **[MENU]**.

2 Select an option or a menu.

- To move up or down, press **[DISP]** or **[⬆️]**.
- To move left or right, press **[⚡]** or **[☺]**.



3 Press **[OK]** to confirm the highlighted option or menu.

Going back to the previous menu

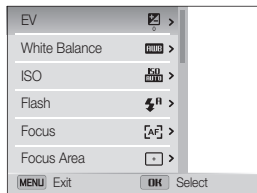
Press **[MENU]** to go back to the previous menu.



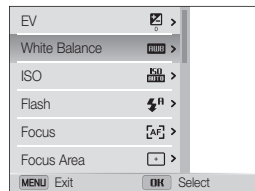
Half-press **[Shutter]** to return to Shooting mode.

For example, to select a White Balance option in Program mode:

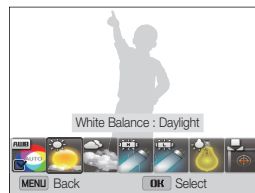
- 1 On the Home screen, scroll to <Basic>.
- 2 Select .
- 3 Press [MENU].



- 4 Press [DISP/⬇️] to select **White Balance**, and then press [⬅️] or [OK].



- 5 Press [⚡/☺️] to select a White Balance option.



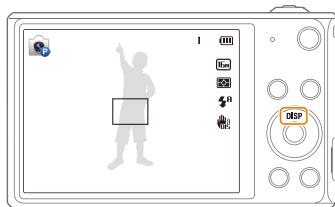
- 6 Press [OK] to save your settings.

Setting the display and sound

Learn how to change the basic display information and sound settings.

Setting the display type

You can select a display type for the Shooting or Playback mode. Each type displays different shooting or playback information. See the table below.



Press **[DISP]** repeatedly to change the display type.

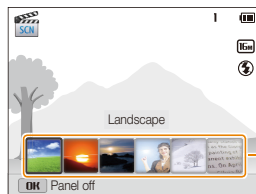
Mode	Display type
Shooting	• Hide all information about shooting options. • Show all information about shooting options.
Playback	• Hide all information about the current file. • Hide all information about the current file except basic information. • Show all information about the current file.

Setting the option display view

You can hide or show the option display appearing in some modes.

Press **[OK]** repeatedly.

- Hide the option display.
- Show the option display.



▲ For example, in Scene mode

Setting the sound

Turn the sound your camera emits when you perform functions on or off.

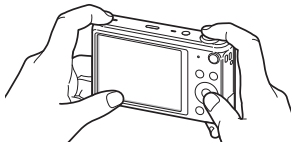
- 1 On the Home screen, scroll to **<Basic>**.
- 2 Select .
- 3 Select **Sound** → **Beep Sound**.
- 4 Select an option.

Option	Description
Off	The camera does not emit any sounds.
On	The camera emits sounds.

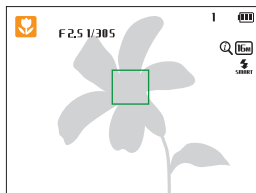
Capturing photos

Learn how to capture photos easily and quickly in Smart Auto mode.

- 1 On the Home screen, scroll to **<Basic>**.
- 2 Select .
- 3 Align your subject in the frame.



- 4 Half-press **[Shutter]** to focus.
 - A green frame means the subject is in focus.
 - A red frame means the subject is out of focus.



- 5 Press **[Shutter]** to capture a photo.
- 6 Press **[▶]** to view the captured photo.
 - To delete the photo, press **[🗑]**, and then select **Yes**.
- 7 Press **[▶]** to return to Shooting mode.



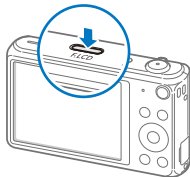
See page 35 for tips to get clearer photos.

Turning on the front display

The front display helps you capture photos while viewing yourself.

In Shooting mode, press **[F.LCD]**.

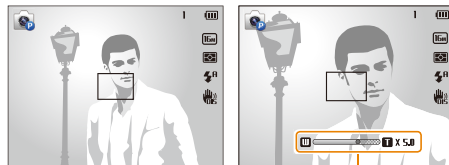
- Press **[F.LCD]** again to turn it off.



- Several buttons are not available when the front display turns on.
- In Self Shot, Children, and Jump Shot modes, the front display will activate automatically.
- When you set timer options, the front display will remain active. (p. 63)
- When you use the camera in brightly lit or sunny areas, you may not be able to see the front display clearly.
- The front display will not activate when you press **[F.LCD]** in Playback mode.
- When the front display is on, the camera consumes more battery power.

Zooming

You can capture close-up photos by adjusting the zoom.



Zoom ratio

Zoom out



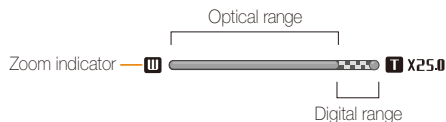
Zoom in



When you rotate the zoom button, the zoom ratio shown on the screen may change inconsistently.

Digital zoom

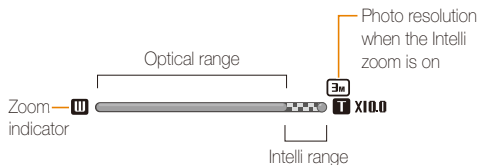
The Digital zoom is supported by default in Shooting mode. If you zoom in on a subject in Shooting mode and the zoom indicator is in the digital range, your camera is using the Digital zoom. By using both the 5X Optical zoom and 5X Digital zoom, you can zoom in up to 25 times.



- The Digital zoom is not available with the Tracking AF option.
- If you capture a photo with the Digital zoom, the photo quality may be lower than normal.

Intelli zoom

If the zoom indicator is in the Intelli range, your camera is using the Intelli zoom. Photo resolution varies according to the zoom rate if you use the Intelli zoom. By using both the Optical zoom and Intelli zoom, you can zoom in up to 10 times.



- Intelli zoom is not available with the Tracking AF option.
- The Intelli zoom helps you capture a photo with less quality deterioration than the Digital zoom. However, the photo quality may be lower than when you use the Optical zoom.
- The Intelli zoom is available only when you set a 4:3 resolution ratio. If you set another resolution ratio with Intelli zoom on, the Intelli zoom will be turned off automatically.

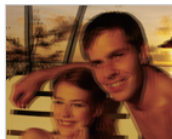
Setting Intelli zoom

- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Intelli Zoom**.
- 3 Select an option.

Icon	Description
	Off: The Intelli zoom is deactivated.
	On: The Intelli zoom is activated.

Reducing camera shake (OIS)

Reduce camera shake optically in Shooting mode.



▲ Before correction



▲ After correction

- 1 In Shooting mode, press **[MENU]**.
- 2 Select **OIS**.
- 3 Select an option.

Icon	Description
	Off: OIS is deactivated.
	On: OIS is activated.

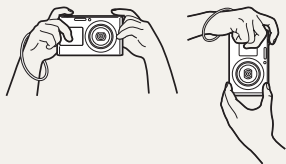


- OIS may not function properly when:
 - you move your camera to follow a moving subject
 - you use the Digital zoom
 - there is too much camera shake
 - the shutter speed is slow (for example, when you capture night scenes)
 - the battery is low
 - you capture a close-up shot
- If you use the OIS function with a tripod, your images may be blurred by the vibration of the OIS sensor. Deactivate the OIS function when you use a tripod.
- If the camera is hit or dropped, the display will be blurry. If this occurs, turn off the camera, and then turn it on again.

Tips for getting a clearer photo



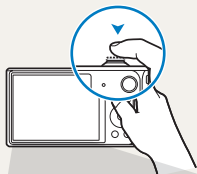
Holding your camera correctly



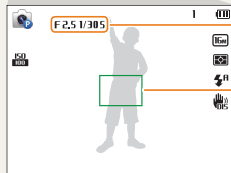
Ensure nothing is blocking the lens, flash, or microphone.



Half-pressing the shutter button



Half-press **[Shutter]** and adjust the focus. The camera adjusts the focus and exposure automatically.



The camera sets the aperture value and shutter speed automatically.

Focus frame

- Press **[Shutter]** to capture the photo if the focus frame appears in green.
- Change the composition and half-press **[Shutter]** again if the focus frame appears in red.



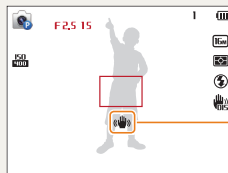
Reducing camera shake



Set the Optical Image Stabilization option to reduce camera shake optically. (p. 33)



When «» is displayed



Camera shake

When you shoot in the dark, avoid setting the flash option to **Slow Sync** or **Off**. The aperture remains open longer and it may be harder to hold the camera steady long enough to capture a clear photo.

- Use a tripod or set the flash option to **Fill in**. (p. 64)
- Set ISO sensitivity options. (p. 66)



Preventing your subject from being out of focus

It may be difficult to get your subject in focus when:

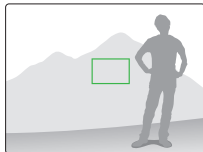
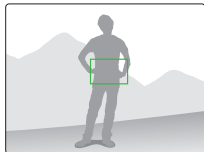
- there is little contrast between the subject and background (for example, when your subject is wearing clothing that is similar in color to the background)
- the light source behind the subject is too bright
- the subject is shiny or reflective
- the subject includes horizontal patterns, such as blinds
- the subject is not positioned in the center of the frame



Using the focus lock

Half-press **[Shutter]** to focus. When the subject is in focus, you can reposition the frame to change the composition.

When you are ready, press **[Shutter]** to capture your photo.

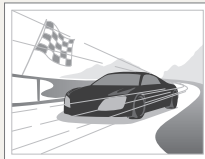


- When you capture photos in low light



Turn on the flash.
(p. 64)

- When subjects are moving rapidly



Use the Continuous
or Motion Capture
function. (p. 78)

Extended functions

Learn how to capture a photo and record a video by selecting a mode.

Using Basic modes	38	Using Magic modes	51
Using the Smart Auto mode	38	Using the Magic Frame mode	51
Using the Program mode	39	Using the Photo Filter mode	52
Using the Smart Movie mode	40	Using the Movie Filter mode	53
Using the Movie mode	41	Using the Split Shot mode	54
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Using the Live Panorama mode	43		
Using the Self Shot mode	45		
Using the Children mode	46		
Using the Jump Shot mode	47		
Using the Beauty Shot mode	48		
Using the Night Shot mode	49		
Using the Close-up Shot mode	50		

Using Basic modes

Capture photos or record videos using basic modes. You can also use the Scene mode and the Live Panorama mode.

Using the Smart Auto mode

In Smart Auto mode, your camera automatically chooses the appropriate camera settings based on the type of scene it detects. The Smart Auto mode is helpful if you are not familiar with the camera settings for various scenes.

- 1 On the Home screen, scroll to **<Basic>**.
- 2 Select .
- 3 Align your subject in the frame.
 - The camera automatically selects a scene. An appropriate scene icon appears at the top left of the screen. The icons are listed below.



Icon	Description
	Landscapes
	Scenes with bright white backgrounds

Icon	Description
	Landscapes at night
	Portraits at night
	Landscapes with backlighting
	Portraits with backlighting
	Portraits
	Close-up photos of objects
	Close-up photos of text
	Sunsets
	Blue skies
	Forested areas
	Close-up photos of colorful subjects
	Camera is stabilized or on a tripod (when shooting in the dark)
	Actively moving subjects
	Fireworks (when using a tripod)

4 Half-press [**Shutter**] to focus.

5 Press [**Shutter**] to capture the photo.



- If the camera does not recognize an appropriate scene mode, it uses the default settings for Smart Auto mode.
- Even if it detects a face, the camera may not select a portrait mode depending on the subject's position or lighting.
- The camera may not select the correct scene depending on the shooting conditions, such as camera shake, lighting, or distance to the subject.
- Even if you use a tripod, the camera may not detect the  mode if the subject is moving.
- In Smart Auto mode, the camera consumes more battery power, because it changes settings often to select appropriate scenes.

Using the Program mode

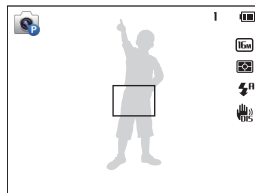
In Program mode, you can set most options, except the shutter speed and aperture value, which the camera sets automatically.

1 On the Home screen, scroll to **<Basic>**.

2 Select .

3 Set the desired options.

- For a list of options, refer to "Shooting options". (p. 60)



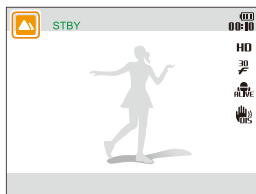
4 Align your subject in the frame, and then half-press [**Shutter**] to focus.

5 Press [**Shutter**] to capture the photo.

Using the Smart Movie mode

In Smart Movie mode, your camera automatically chooses the appropriate camera settings based on the scene it has detected.

- 1 On the Home screen, scroll to **<Basic>**.
- 2 Select .
- 3 Align your subject in the frame.
 - The camera automatically selects a scene. An appropriate scene icon will appear at the top left of the screen.



Icon	Description
	Landscapes
	Sunsets
	Blue skies
	Forested areas

- 4 Press **[Shutter]** to start recording.
- 5 Press **[Shutter]** again to stop recording.



- If the camera does not recognize an appropriate scene mode, it uses the default settings for Smart Movie mode.
- The camera may not select the correct scene depending on the shooting conditions, such as camera shake, lighting, and distance to the subject.

Using the Movie mode

In Movie mode, you can customize settings to record HD videos of up to 20 minutes in length. The camera saves recorded videos as MP4 (H.264) files.

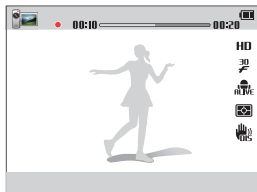


- H.264 (MPEG-4 part10/AVC) is a high-compression video format established by the international standards organizations ISO-IEC and ITU-T.
- Some memory cards may not support high definition recording. If your card does not, set a lower resolution.
- Memory cards with slow writing speeds will not support high-resolution videos. To record high-resolution videos, use memory cards with faster write speeds.
- If you activate the OIS function while recording a video, the camera may record the operating sound of the OIS function.
- If you use the zoom function when recording a video, the camera may record the noise of the zoom operating. To decrease zoom noise, use the Sound Alive function. (p. 80)

- 1 On the Home screen, scroll to **<Basic>**.
- 2 Select .
- 3 Set desired options.
 - For a list of options, refer to "Shooting options". (p. 60)
- 4 Press **[Shutter]** to start recording.
- 5 Press **[Shutter]** again to stop recording.

Pause recording

The camera allows you to temporarily pause a video while recording. With this function, you can record separate scenes as a single video.

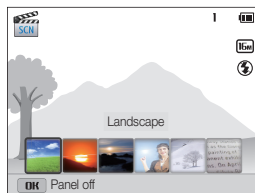


- Press **[OK]** to pause while recording.
- Press **[OK]** to resume.

Using the Scene mode

In Scene mode, you can capture a photo with options that are preset for a specific scene.

- 1 On the Home screen, scroll to **<Basic>**.
- 2 Select **SCN**.
- 3 Select a scene.



Option	Description
Landscape	Capture still-life scenes and landscapes.
Sunset	Capture scenes at sunset, with natural-looking reds and yellows.
Dawn	Capture scenes at sunrise.
Backlight	Capture backlit subjects.
Beach & Snow	Reduce underexposure of subjects caused by sunlight reflected from sand or snow.
Text	Clearly capture text from printed or electronic documents.

- 4 Align your subject in the frame, and then half-press **[Shutter]** to focus.
- 5 Press **[Shutter]** to capture the photo.

Using the Live Panorama mode

In Live Panorama mode, you can capture a wide panoramic scene in a single photo. Capture and combine a series of photos to create a panoramic image.



▲ Shooting example

- 1 On the Home screen, scroll to **<Basic>**.
- 2 Select .
- 3 Align your subject in the frame, and then half-press **[Shutter]** to focus.
 - Align the camera with the far left or the far right, or very top or bottom, of the scene you want to capture.
- 4 Press and hold **[Shutter]** to start shooting.

5 With **[Shutter]** pressed, slowly move the camera in the direction that will let it capture the rest of the panorama.

- When the viewfinder is aligned with the next scene, the camera captures the next photo automatically.



6 When you are finished, release **[Shutter]**.

- When you have captured all the necessary shots, the camera combines them into one panoramic photo.

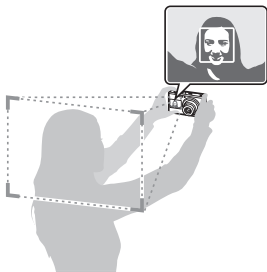


- For best results when capturing panoramic photos, avoid the following:
 - moving the camera too quickly or too slowly
 - moving the camera too little to capture the next image
 - moving the camera at irregular speeds
 - shaking the camera
 - changing the camera direction while capturing a photo
 - shooting in dark places
 - capturing moving subjects nearby
 - shooting conditions where the brightness or color of light is changing
- Selecting Live Panorama mode will disable the digital and optical zoom functions. If you select Live Panorama mode while the lens is zoomed in, the camera automatically zooms out to the default position.
- In Live Panorama mode, some shooting options are not available.
- The camera may stop shooting due to the shooting composition or movement within the scene.
- In Live Panorama mode, your camera may not capture the last scene in its entirety if you stop moving the camera exactly where you want the scene to end. To capture the entire scene, move your camera slightly beyond the point where you want the scene to end.

Using the Self Shot mode

Conveniently capture photos of yourself with the front display.

- 1 On the Home screen, scroll to **<Scene>**.
- 2 Select .
 - Your camera will automatically detect your face and display a frame to indicate the detected face.



- 3 Half-press **[Shutter]** to focus.
- 4 Press **[Shutter]** to capture the photo.



In Self Shot mode, the front display will activate automatically.

Capturing an Easy Self Shot

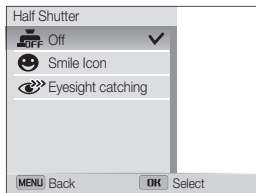
If you press **[F.LCD]** when the power is off, the front display turns on in Easy Self Shot mode. Because the main display is off, the camera consumes less battery power and you can prevent others from viewing the main display.

- The camera will turn off when you press **[F.LCD]** again or press **[POWER]**.
- The front display will turn off and the main display will turn on when you press .

Customizing the front display

You can let subjects know when to smile or attract their attention to the lens.

- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Half Shutter** → an option.



Icon	Description
	Off: No icon will appear on the front display.
	Smile Icon: Set an icon to appear that prompts the subject to smile.
	Eyesight catching: Set an icon to appear to attract the subject's attention to the lens.

Using the Children mode

The Children mode attracts children by showing a short animation on the front display.

- 1 On the Home screen, scroll to **<Scene>**.
- 2 Select .
 - The front display will activate and play the preset animation.
- 3 Press **[MENU]**.
- 4 Select **Background Music** → an option.
- 5 Align your subject in the frame, and then half-press **[Shutter]** to focus.
- 6 Press **[Shutter]** to capture the photo.



You can download animations for the front display from Intelli-studio. (p. 102)

Using the Jump Shot mode

Capture a photo of people jumping. An icon will appear on the front display to tell your subjects when to jump.



1 On the Home screen, scroll to **<Scene>**.

2 Select .

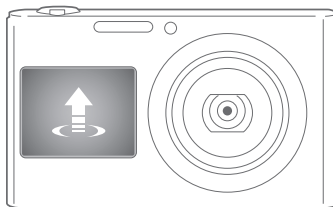
- To capture animated jump shots, refer to "Capturing animated jump shots". (p. 49)

3 Press **[Shutter]**.

- The AF-assist light/timer lamp blinks.
- The front display will start a countdown a few seconds before shooting.

4 Jump when the jump icon appears on the front display.

- The camera will capture multiple shots.



- If you are capturing photos using the jump shot timer in low light conditions or indoors, photos may appear dark.
- Use a tripod to prevent your camera from shaking.

Capturing animated jump shots

Capture multiple jump shots, and then save them as a GIF animation. This feature is available only when you insert a memory card into the camera.

1 In Jump Shot mode, press [MENU].

2 Select **Jump Shot** → **GIF animation**.

- The camera saves an animated GIF and one JPG of the middle scene from the GIF file. You cannot view the JPG file on your camera. To view it, connect your camera to a PC. (p. 101)



- If you select **GIF animation**, the resolution is automatically set to **VGA**.
- If you select **GIF animation**, it may take longer to save files.
- Use a tripod to prevent your camera from shaking.

Using the Beauty Shot mode

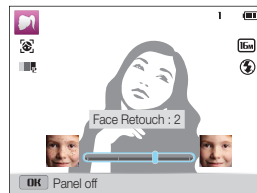
In Beauty Shot mode, you can capture a portrait with options to hide facial imperfections.

1 On the Home screen, scroll to **<Scene>**.

2 Select .

3 Press [/] to adjust **Face Retouch**.

- For example, increase the face retouch setting to hide more imperfections.

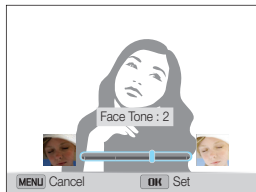


4 Press [MENU].

5 Select **Face Tone**.

6 Press [**⚡/☺**] to adjust **Face Tone**.

- For example, increase the face tone setting to make skin appear lighter.



7 Press [**OK**] to save the setting.

8 Align your subject in the frame, and then half-press [**Shutter**] to focus.

9 Press [**Shutter**] to capture the photo.

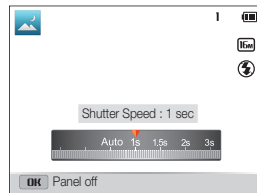
Using the Night Shot mode

In Night Shot mode, you can use a slow shutter speed to extend the time the shutter stays open. Increase the aperture value to prevent overexposure.

1 On the Home screen, scroll to **<Scene>**.

2 Select .

3 Press [**⚡/☺**] to adjust the shutter speed.



4 Align your subject in the frame, and then half-press [**Shutter**] to focus.

5 Press [**Shutter**] to capture the photo.

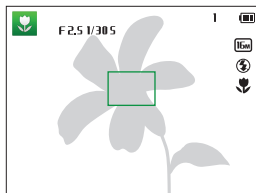


Use a tripod to prevent blurry photos.

Using the Close-up Shot mode

In Close-up Shot mode, you can capture close-up photos of subjects, such as flowers or insects.

- 1 On the Home screen, scroll to **<Scene>**.
- 2 Select .
- 3 Align your subject in the frame, and then half-press **[Shutter]** to focus.



- 4 Press **[Shutter]** to capture the photo.