

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

# User Manual st200F

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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.

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 (6 inches) 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 damages or injuries caused by unauthorized 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 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.

These 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.

### When connecting the USB cable to the camera, be sure to insert the correct USB cable connector into the 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 ordnances.

### Copyright information

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- 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 purchase it.
  - You are not allowed to reuse or distribute any part of this manual without prior permission.
- For Open Source License information, refer to the 'OpenSourceInfo.pdf' in the provided CD-ROM.

### Outline of the User Manual

Basic functions	14
Learn about your camera's layout, icons, and basic functions for shooting.	
Extended functions	35
Learn how to capture a photo, record a video, and voice memo by selecting a mode.	
Shooting options	52
Learn how to set the options in Shooting mode.	
Playback/Editing	80
Leam how to play back photos, videos, or voice memos and edit photos or videos. Also, learn how to connect your camera to your computer, photo printer, or TV.	
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Learn to connect to wireless local area networks (WLANs) and use functions.	
Settings	127
Refer to options to configure your camera's settings.	
Appendixes	133
Get information about error messages, specifications, and maintenance.	

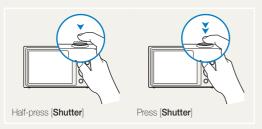
### Icons used in this manual

Icon	Function
	Additional information
<u>^</u>	Safety warnings and precautions
[]	Camera buttons. For example, [Shutter] represents the shutter button.
( )	Page number of related information
$\rightarrow$	The order of options or menus you must select to perform a step; for example: Touch ${\color{red} \blacksquare} {\color{black} \blacksquare}$
*	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 with shutter speed, aperture value, and 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.

10	The subject's eyes appear red.	Red eye is caused by the eyes reflecting light from the camera flash.  • Set the flash option to ◆ Red-eye or ◆ Red-eye Fix. (p. 57)
		If the photo has already been captured, select <b>Red-eye Fix</b> 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. 59)
*	Photos are blurred.	Blurring can occur if you capturing photos in low light conditions or hold the camera incorrectly.  Use the DIS function or half-press [Shutter] to ensure the subject is focused. (p. 33)
	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 take a clear picture and may result in camera shake.  Select Night Shot mode. (p. 39)  Tum on the flash. (p. 57)  Set ISO sensitivity options. (p. 59)  Use a tripod to prevent your camera from shaking.
21	Subjects come out too dark because of backlighting.	When the light source is behind the subject or when there is a high contrast between the light and darkareas, the subject may appear too dark.  Avoid shooting toward the sun.  Select <b>Backlight</b> in Scene mode. (p. 38)  Set the flash option to <b>F Fill in</b> . (p. 57)  Adjust the exposure. (p. 68)  Set the Auto Contrast Balance ( <b>ACB</b> ) option. (p. 69)
		• Set the metering option to • Spot if a bright subject is in the center of the frame. (p. 69)

### **Quick reference**



### Capturing photos of people

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## **Basic functions**

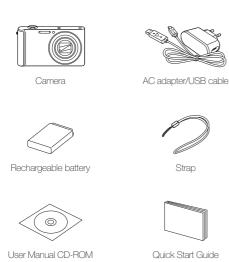
Learn about your camera's layout, icons, and basic functions for shooting.

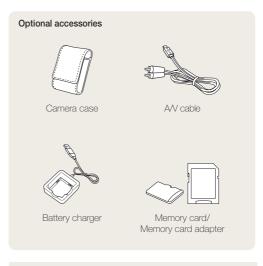
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## **Unpacking**

The following items are included in your product box.



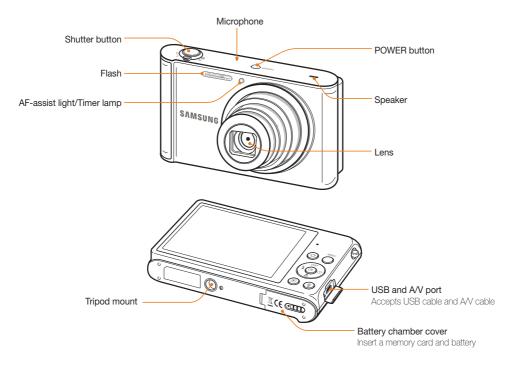


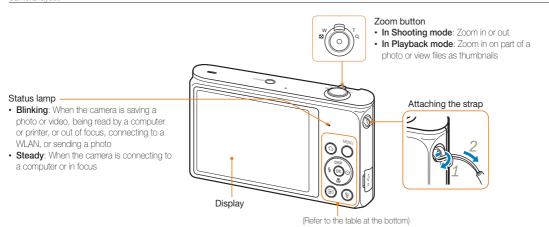


- The illustrations may differ slightly from the items shipped with your product.
- . The items included in the box may differ depending on the model.
- Purchase Samsung-approved optional items that are compatible with your camera at the service center or the store where you purchased your camera. We are not responsible for any damages caused by using items from other manufacturers.

## **Camera layout**

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



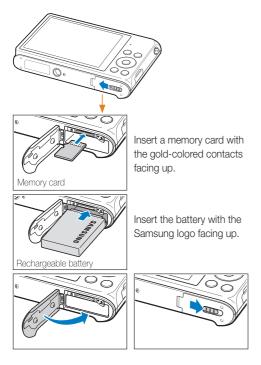


Icon	Description		
⇧	Access	the Home screen	
MENU	Access	options or menus	
		In Shooting mode	While setting
	DISP	Change the display option	Move up
\$ (OK) S	*	Change the macro option	Move down
*	4	Change the flash option	Move left
	ঙ	Change the timer option	Move right

Icon	Description
<b>OK</b>	Confirm the highlighted option or menu
(E)	Enter Playback mode
	Access options in Shooting mode     Delete files in Playback mode

## Inserting the battery and memory card

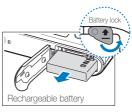
Learn how to insert the battery and an optional memory card into the camera.



### Removing the battery and memory card



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



Push the lock up to release the battery.

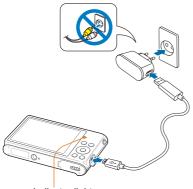


- You can use the internal memory as a temporary storage device when the memory card is not inserted.
- Insert a memory card in the correct direction. Inserting a memory card in the wrong direction may damage your camera and memory card.

## 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. When connecting the USB cable to the camera, insert the smaller connector into the camera and the other connector into the power adapter.



Indicator light

· Red LED is on: Charging

· Red LED is off: Fully charged



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. 20)



### Turning on your camera in Playback mode

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





If you turn on your camera by pressing and holding [Playback] for about 5 seconds, the camera does not emit any sounds.

## Performing the initial setup

When the initial setup screen appears, follow the steps below to configure the camera's basic settings.

1 Touch Language.



2 Select a language, and then touch **OK**.



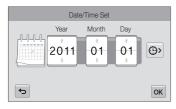
3 Touch Time Zone.

- 4 Touch Home, and then touch ✓ or ➤ to select a time zone.
  - When you travel to another country, touch Visit, and then select a new time zone.



- 5 Touch **OK** to save.
- 6 Touch Date/Time Set.

7 Touch the up or down arrows to set the date.



8 Touch (9), and then set the time.



- To set daylight-saving time, touch 🐆.
- 9 Touch **OK** to save.

- 10 Touch Touch Calibration.
- 11 Touch the target on the screen with your touch pen.

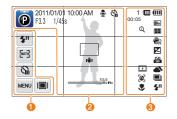


Touch directly in the center of the target for optimal performance.

12 Touch **OK** to save settings.

## **Learning icons**

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



### Option icons (touch)

Icon	Description
<b>≴</b> 8	Flash option
[eur]	Auto focus option
6 <u>0</u> 0	Timer option
MENU	Shooting options
	Display type

### Status icons

Icon	Description
<b>©</b>	Shooting mode
2011/01/01	Current date

Icon	Description
10:00 AM	Current time
F3.3	Aperture value
1/45s	Shutter speed
•	Voice memo
6 <u>0</u> 0	Timer
	Auto focus frame
11411	Camera shake
X5.5	Zoom indicator
X5.5	Zoom ratio
14m	Photo resolution when Intelli zoom is on
#	Grid lines

### Status icons

Icon	Description
1	Available number of photos
00:05	Available recording time
•	Memory card not inserted (Internal memory)
	Memory card inserted

Icon	Description
(11)	
<b>IO</b> m	Photo resolution
1280 HQ	Video resolution
30	Frame rate
€	Audio recording
	Metering
DIS	Digital Image Stabilization (DIS)
Z	Exposure value adjusted
150 80	ISO sensitivity
<b>a</b> >	White balance
	Burst type
<b>4</b> <sup>A</sup>	Flash
Q	Intelli zoom is on
	Smart filter
[III]	Image adjust
<b>[8</b> ]	Face detection
	Auto focus

## Using the touch screen

Learn how to use the touch screen. Use the supplied touch pen to touch or drag on the screen.



Do not use sharp objects, such as pens or pencils, to touch the screen. You can damage the screen.

### Touching

Touch an icon to select a menu or option.



### Flicking

Gently flick the touch pen across the screen.



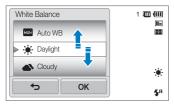
### Dragging

Touch and hold a part of the screen, and then drag the touch pen.



### Selecting an option

• Drag the option list up or down until you find the desired option. Touch the option, and then touch **0K**.



 If an option has a setting button, touch the button to turn it on or off.





- The touch screen may not recognize your inputs if you touch multiple items at the same time.
- The touch screen may not recognize your inputs if you touch the screen with your finger.
- When you touch or drag the screen, discolorations may occur.
   This is not a malfunction, but a characteristic of the touch screen.
   Touch or drag lightly to minimize the effect.
- The touch screen may not work properly if you use the camera in extremely humid environments.
- The touch screen may not work properly if you apply screen protection film or other accessories to the screen.
- Depending on the viewing angle, the screen may appear dim.
   Adjust the brightness or viewing angle to improve the resolution.

## Setting the touch screen and sound

Learn how to change the screen display type and the sound settings.

### Setting the display type for the touch screen

You can select from three screen display types. Each displays differently.

- 1 In Shooting mode, touch III.
- Select an option, and then touch OK.



Icon	Description
	Full: lcons are always displayed.
	<b>Hide:</b> Icons are hidden if you perform no operation for 5 seconds (touch the screen to display the icons again).
I⊞I	<b>Guide Line</b> : Grid lines are displayed. The grid lines are helpful for getting the photo aligned with a surface, such as the horizon or the edges of buildings.

### Setting the sound

Set your camera to emit or not to emit a sound when you perform functions.

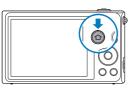
- 1 On the Home screen, touch .
- 2 Touch Sound.
- 3 Touch the setting button next to Beep Sound to turn the beep on or off.

## **Using the Home screen**

You can select a shooting mode or access the settings menu by touching 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		Description
	0	Touch an icon to access a mode or function.  Scroll to another page by dragging or flicking the touch pen on the screen.
	2	The number of the current page. (1) 2 3 4)

### Icons on the Home screen

Icon	Description
<b>(3)</b>	Smart Auto: Capture a photo by letting the camera select a scene mode automatically. (p. 36)
P	<b>Program</b> : Capture a photo by manually setting options. (p. 40)
	<b>Smart movie:</b> Record a video by letting the camera select a scene mode automatically. (p. 42)
	<b>Web</b> : Access a web site to upload photos and videos stored on the camera. (p. 115)
<b>6</b>	Email: Send photos stored on the camera as email attachments. (p. 111)
<b>9</b>	<b>Auto Backup</b> : Send new photos and videos to a PC or Blu-ray disc player wirelessly. (p. 123)
Base	Album: View files by category in Smart album. (p. 84)
$\otimes$	Settings: Adjust settings to match your preferences. (p. 128)
	Remote Viewfinder: Use a mobile phone as a remote shutter release via an ad-hoc wireless network. (p. 116)
	Camera to Camera: Connect your camera to another camera via a wireless network to share photos and videos. (p. 121)

Icon	Description
	AllShare: Connect your camera to an AllShare-enabled device via a wireless network and view your files on the connected device. (p. 118)
	Movie: Record a video. (p. 41)
SCN	<b>Scene</b> : Capture a photo with options that are preset for a specific scene. (p. 38)
	Vignetting: Capture a photo or record a video with a vignetting effect. (p. 48)
10	<b>Beauty Shot</b> : Capture a portrait with options to hide facial imperfections. (p. 39)
	Photo Editor: Edit photos with various effects. (p. 95)
	Magic Frame shot: Capture a photo with various frame effects. (p. 45)
<b>3</b>	<b>Photo Filter</b> : Capture a photo with various filter effects. (p. 45)
	<b>Movie Filter</b> : Record a video with various filter effects. (p. 47)
	Night Shot: Capture a night scene by adjusting shutter speed and aperture value. (p. 39)
	Palette Effect Shot: Record a video with palette effects. (p. 49)
*	Close Up: Capture close-up photos of subjects. (p. 38)

	Description
	<b>Simple Shot</b> : Capture a photo with simple adjustments to brightness and color. (p. 37)
0	Object Highlight: Capture a photo with the subject's background blurred. (p. 44)
	3D Album: View files with 3D effects. (p. 85)
	<b>Slide Show</b> : View photos as a slide show with effects and music. (p. 89)
	Voice Recorder: Record and save a voice memo. (p. 50)
	Magazine View: View files with page flip effect. (p.85)

### Rearranging icons

You can rearrange the icons on the Home screen in any order.

1 Touch and hold an icon.



### 2 Drag it to a new location.

 To move an icon to another page, drag it to the left or right edge of the screen. When you drop the icon to a new location, the other icons will neatly slide out of the way.



## **Capturing photos**

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

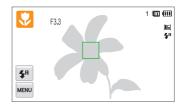
1 On the Home screen, touch ......



2 Align your subject in the frame.



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



4 Press [Shutter] to capture a photo.



See page 33 for tips to get clearer photos.

### Zooming

You can capture close-up photos by adjusting the zoom. Your camera has a 5X Optical zoom, 2X Intelli zoom, and 5X Digital zoom. The Intelli zoom and Digital zoom cannot be used at the same time.





Zoom ratio



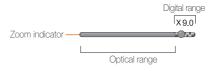
Zoom in



The available zoom ratio for videos differs from photo zoom ratio.

### Digital zoom

If the zoom indicator is in the digital range, your camera is using the Digital zoom. By using both the Optical zoom and Digital zoom, you can zoom in up to 25 times.

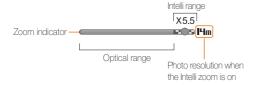




- The Digital zoom is available only in Program and Scene (except Text) modes.
- The Digital zoom is not available with a Smart Filter effect or Smart Touch AF option.
- If you capture a photo with the Digital zoom, the photo quality may deteriorate.

### 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.





- The Intelli zoom is available only in Smart Auto, Program, and Scene (except Text) modes.
- 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.
- The Intelli zoom is not available with the Smart Filter effect, or Smart Touch 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.

### Setting Intelli zoom

- 1 In Shooting mode, touch wenu.
- 2 Touch the setting button next to **Intelli Zoom**.

### Reducing camera shake (DIS)

Reduce camera shake digitally in Shooting mode.





Before correction

After correction

- 1 In Shooting mode, touch www.
- 2 Touch the setting button next to **DIS**.





- . DIS 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 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



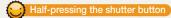


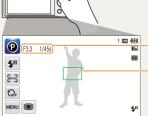
Ensure nothing is blocking the lens.

## Reducing camera shake



Set the Digital Image Stabilization option to reduce camera shake. (p. 32)





Half-press [Shutter] to 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.

## When we 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 take a clear picture.

- Use a tripod or set the flash option to Fill in. (p. 57)
- Set ISO sensitivity options. (p. 59)



### Preventing your subject from being out of focus

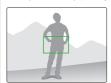
It may be difficult to get your subject in focus when:

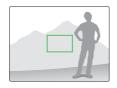
- there is little contrast between the subject and background (for example, when your subject is wearing clothing that is similar in color to the background)
- the light source behind the subject is too bright
- the subject is shiny or reflective
- the subject includes horizontal patterns, such as blinds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



### Use 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. 57)

· When subjects are moving rapidly



Use the Continuous or Motion Capture function. (p. 72)

## **Extended functions**

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

Using effect modes 44
Using the Object Highlight mode 44
Using the Magic Frame Shot mode 45
Using the Photo Filter mode 45
Using the Movie Filter mode 47
Using the Vignetting mode
Using the Palette Effect mode 49
Recording voice memos
Recording a voice memo
Adding a voice memo to a photo 5

# **Using shooting modes**

Capture photos or record videos by selecting the best shooting mode for the conditions.

#### 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.

- On the Home screen, touch .....
- 2 Align your subject in the frame.
  - · The camera automatically selects a scene and adjusts its settings. An appropriate scene icon appears at the top left of the screen. The icons are listed below.



Icon	Description
<u> </u>	Landscapes
WHITE	Scenes with bright white backgrounds
*	Landscapes at night (when the flash is off)

	Description
T.	Portraits at night
<sup>RF</sup> ♠	Landscapes with backlighting
<b>*</b>	Portraits with backlighting
	Portraits
*	Close-up photos of objects
*	Close-up photos of text
	Sunsets
<u> </u>	Clear skies
<b>A</b> \	Forested areas
	Close-up photos of colorful subjects
昂	Camera is stabilized or on a tripod (when shooting in the dark)
*	Fireworks (when using a tripod)
*K"	Actively moving subjects

- 3 Half-press [Shutter] to focus.
  - In several scenes, the camera automatically captures a photo when you half-press [Shutter].
- 4 Press [Shutter] to capture the photo.



- If the camera does not recognize an appropriate scene mode, it uses the default settings for the 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 node 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 Simple Shot mode

In Simple Shot mode, you can capture photos with simple adjustments to brightness and color.

- 1 On the Home screen, touch ==.
- 2 Drag the sliders or touch the sample photos to adjust Brightness and Color.



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

#### 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, touch ....
- 2 Touch a scene.



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

#### Using the Close Up mode

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

- 1 On the Home screen, touch ...
- 2 Align your subject in the frame, and then half-press [Shutter] to focus.

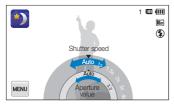


3 Press [Shutter] to capture the photo.

#### 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, touch 2
- 2 Drag the dials on the screen to the arrow directions below to adjust shutter speed and aperture value.



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

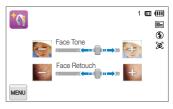


Use a tripod to prevent blurry photos.

#### 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, touch 1
- 2 Drag the sliders or touch the sample photos to adjust Face Tone and Face Retouch.
  - For example, increase the Face Tone setting to make skin appear lighter.



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

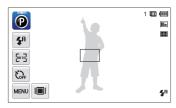


When using the Beauty Shot mode, the focus distance will be set to Auto Macro

#### 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, touch 1
- 2 Touch , and then set desired options. (For a list of options, refer to page 52.)



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

#### Setting the user buttons

In Program mode, you can add shortcuts for your favorite options to the left side of the screen.

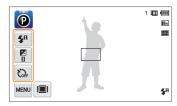
- 1 In Shooting mode, touch  $\longrightarrow$  My screen  $\longrightarrow$  **0K** .
- 2 Touch and hold any icon, except one of the icons in the column on the far left.



- 3 Drag the icon into a desired box on the left.
  - · To remove shortcuts, drag an icon to the right.



4 Touch **OK** to save.





You can create up to 3 shortcuts.

#### Using the Movie mode

In Movie mode, you can record high-definition 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 standard organizations ISO-IEC and ITI-I-T
- Some memory cards may not support high definition recording. In this case, set a lower resolution.
- Memory cards with slow writing speeds will not support highresolution videos and high-speed videos. To record high-resolution or high-speed videos, use memory cards with faster writing speeds.
- On the Home screen, touch 🔘.
- 2 Touch and then set desired options. (For a list of options, refer to page 52.)
- 3 Press [Shutter] or touch to start recording.
- 4 Press [Shutter] again or touch 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.



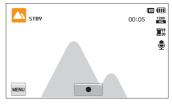
- Touch II to pause while recording.
- Touch 

   to resume.

#### 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, touch
- 2 Align your subject in the frame.
  - The camera automatically selects a scene and adjusts its settings. An appropriate scene icon will appear at the top left of the screen. The icons are listed below.



Icon	Description
<u></u>	Landscapes
	Sunsets
<u> As</u>	Clear skies
<u>A</u> x	Forested areas

- 3 Press [Shutter] or touch to start recording.
- 4 Press [Shutter] again or touch to stop recording.



- If the camera does not recognize an appropriate scene mode, it uses the default settings for the 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.
- Smart filter effects are not available in Smart Movie mode.

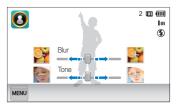
# **Using effect modes**

Capture photos or record videos with various effects.

#### Using the Object Highlight mode

The Object Highlight mode makes the subject more discernible by adjusting the depth of field.

- 1 On the Home screen, touch 1
- 2 Position the camera according to the optimum distance displayed on the screen.
  - The optimum distance will vary, based on the zoom ratio you use.
- 3 Drag the sliders or touch the sample photos to adjust **Blur** and **Tone**.



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

- When the camera can apply the Object Highlight effect, will appear.
- When the camera cannot apply the Object Highlight effect,
   will appear. If this occurs, adjust the distance from the camera to the subject.
- 5 Press [Shutter] to capture the photo.



- Available resolutions in Object Highlight mode are 3m and 1m.
   If the shooting distance is not within the optimum range, you can capture a photo but the Object Highlight effect will not be applied.
- . The Object Highlight effect cannot be used in dark places.
- The Object Highlight effect cannot be used with the Optical zoom at 3X or higher.
- · Digital zoom is not available in Object Highlight mode.
- Use a tripod to prevent camera shake as the camera captures 2 consecutive photos to apply the effect.
- The subject and the background should have a significant contrast in color.
- Subjects should be positioned far away from the background for the greatest effect.

#### Using the Magic Frame Shot mode

In Magic Frame Shot mode, you can apply various frame effects to your photos. The shape and the feel of the photos will change according to the frame you select.

- 1 On the Home screen, touch 2.
- 2 Select a desired frame.



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



In Magic Frame shot mode, the resolution is automatically set to 2.

#### Using the Photo Filter mode

In Photo Filter mode, you can apply various filter effects to your photos.





Miniature

Vignetting





Fish-eve

Sketch

- 1 On the Home screen, touch .
- 7 Touch a desired filter.
  - · To view the original photo, touch Before.
  - · To view the photo with the filter effect, touch After.



Option	Description
Miniature	Apply a tilt-shift effect to make the subject appear in miniature.
Vignetting	Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.
Soft-Focus	Hide facial imperfections or apply dreamy effects.
Old Film 1	Apply vintage film effect 1.
Old Film 2	Apply vintage film effect 2.
Half Tone Dot	Apply a halftone effect.
Sketch	Apply a pen sketch effect.
Fish-eye	Blacken the edges of the frame and distort objects to imitate the visual effect of a fisheye lens.

Option	Description
Defog	Make image clearer.
Classic	Apply a black and white effect.
Retro	Apply a sepia tone effect.
Negative	Apply a negative film effect.

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



- To apply filter effects to saved photos, touch 2.
- When you select **Sketch**, the resolution will change to **Sm** and below.
- When you select Fish-eye, the resolution will change to Sm and below.

#### Using the Movie Filter mode

In Movie Filter mode, you can record videos with various filter effects

- 1 On the Home screen, touch 2.
- 2 Touch a desired filter.



Option	Description
Miniature	Apply a tilt-shift effect to make the subject appear in miniature.
Vignetting	Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.
Half Tone Dot	Apply a halftone effect.
Sketch	Apply a pen sketch effect.
Fish-eye	Distort close objects to imitate the visual effect of a fisheye lens.
Defog	Make the image clearer.

Option	Description
Classic	Apply a black and white effect.
Retro	Apply a sepia tone effect.
Negative	Apply a negative film effect.

- 3 Press [Shutter] or touch to start recording.
- 4 Press [Shutter] again or touch to stop recording.

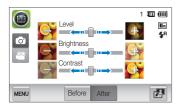


- If you select Miniature, the speed of the video will increase.
- If you select Miniature, the camera will not record sound.
- If you select Miniature, Vignetting, Half Tone Dot, Sketch, Fish-eye, or Defog, the recording speed will be set to "" and the recording resolution will be set to less than 640.

#### Using the Vignetting mode

In Vignetting mode, you can capture a photo or record a video with a vignetting effect.

- 1 On the Home screen, touch .
- 2 Select (photo) or (movie).
- 3 Drag the sliders or touch the sample photos to adjust Level, Brightness, and Contrast.
  - · To view the original photo, touch Before.
  - · To view the photo with the Vignetting effect, touch After.



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



To apply the Vignetting effect to saved photos in Shooting mode, touch 2.



#### Using the Palette Effect mode

In Palette Effect mode, you can record a video with effects to make specific colors stand out.

- 1 On the Home screen, touch .
- 2 Touch a desired palette.



Option	Description
Palette Effect 1	Create a vivid look with sharp contrast and a red color.
Palette Effect 2	Make scenes clean and clear by applying a soft blue tone.
Palette Effect 3	Apply a soft brown tone.
Palette Effect 4	Create a cold and monotone effect.

- 3 Press [Shutter] or touch to start recording.
- 4 Press [Shutter] again or touch to stop recording.

## **Recording voice memos**

Learn how to record a voice memo that you can play back later. You can also add a voice memo to a photo to remind you of shooting conditions.



You will get the best sound quality when you speak 16 in (40 cm) away from the camera.

#### Recording a voice memo

- 1 On the Home screen, touch **!**.
- 2 Press [Shutter] or touch to start recording.
  - Touch II to pause or touch to resume.
  - Each memo can be up to 10 hours long if memory is available.



3 Press [Shutter] again or touch ■ to stop recording.

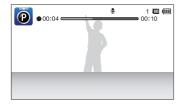


To view the list of saved voice memos, touch Es.

#### Adding a voice memo to a photo

In Program mode, you can add a voice memo to a captured photo.

- 1 On the Home screen, touch 10.
- 2 Touch , and then touch the setting button next to Memo.
- 3 Align your subject in the frame, and then capture a photo.
  - The camera begins to record a voice memo right after you capture the photo.



- 4 Record a short voice memo (10 seconds maximum).
  - Press [Shutter] to stop recording a voice memo before the 10 seconds are up.



You cannot add voice memos to photos in the burst mode.

# **Shooting options**

Learn how to set the options in Shooting mode.

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# Selecting a resolution and quality

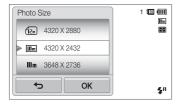
Learn how to change the image resolution and quality settings.

#### Selecting a resolution

As you increase the resolution, your photo or video will include more pixels, so it can be printed on larger paper or displayed on a larger screen. When you use a high resolution, the file size will also increase.

#### Setting a photo resolution

- 1 In Shooting mode, touch  $\longrightarrow$  Photo Size.
- 2 Select an option, and then touch **OK**.



Icon	Description
<b>14</b> m	<b>4320 X 3240</b> : Print on A1 paper.
(i2m)	<b>4320 X 2880</b> : Print on A1 paper in wide ratio (3:2).
10m	<b>4320 X 2432</b> : Print on A2 paper in panorama ratio(16:9) or play back on an HDTV.
10 m	<b>3648 X 2736</b> : Print on A2 paper.
Sm	<b>2592 X 1944</b> : Print on A4 paper.
∃m	<b>1984 X 1488</b> : Print on A5 paper.
2m	1920 X 1080: Print on A5 paper in panorama ratio (16:9) or play back on an HDTV.
Im	1024 X 768: Attach to an email.

#### Setting a video resolution

- 1 In Shooting mode, touch  $\longrightarrow$  Movie Size.
- 2 Select an option, and then touch **OK**.



	Description
1280 HQ	<b>1280 X 720 HQ</b> : Play back high-quality files on an HDTV.
1280	1280 X 720: Play back on an HDTV.
640	640 X 480: Play back on an analog TV.
320	<b>320 X 240</b> : Post on a web page.
320	For Sharing: Post on a website using the wireless network (30 seconds maximum).

#### Selecting image quality

Set the photo and video quality settings. Higher image quality settings will result in larger file sizes.

#### Setting the photo quality

The camera compresses and saves the photos you capture in the JPEG format.

- 1 In Shooting mode, touch  $\longrightarrow$  Quality.
- 2 Select an option, and then touch **OK**.

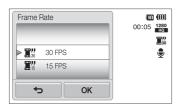


	Description
<b>₩</b> SF	Super Fine: Capture photos in super high quality.
<b>₩</b>	Fine: Capture photos in high quality.
<b>₩</b>	Normal: Capture photos in normal quality.

#### Setting the video quality

The camera compresses and saves the videos you record in the MP4  $\left(\text{H}.264\right)$  format.

- 1 In Shooting mode, touch  $\longrightarrow$  Frame Rate.
- 2 Select an option, and then touch **OK**.
  - As the frame rate increases, action appears more natural, but the file size also increases.



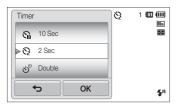
Icon	Description
30	30 FPS: Record 30 frames per second.
15	15 FPS: Record 15 frames per second.



# Using the timer

Learn how to set the timer to delay shooting.

- 1 In Shooting mode, touch  $\longrightarrow$  Timer.
- 2 Select an option, and then touch **OK**.



Icon	Description
(S)	Off: The timer is not active.
Ç10	10 Sec: Capture a photo after a 10-second delay.
3	2 Sec: Capture a photo after a 2-second delay.
రు <sup>ల</sup>	<b>Double</b> : Capture one photo after a 10-second delay and another photo after a 2-second delay.

Available options may differ depending on the shooting mode.

- 3 Press [Shutter] to start the timer.
  - The AF-assist light/timer lamp blinks. The camera will automatically capture a photo at the specified time.



- · Press [Shutter] to cancel the timer.
- Depending on the Face Detection option you have selected, the timer function or some of its options may not be available.
- Timer options are not available if you set Burst options.

# Shooting in the dark

Learn how to capture photos at night or in low light conditions.

#### Preventing red-eye

If the flash fires when you capture a photo of a person in the dark, a red glow may appear in the person's eyes. To prevent this, select **Red-eye** or **Red-eye Fix**. Refer to flash options in "Using the flash."







This option is available in Program, Beauty Shot and Night Shot modes.

#### Using the flash

Use the flash when you capture photos in the dark or when you need more light on your photos.

- 1 In Shooting mode, touch  $\longrightarrow$  Flash.
- 2 Select an option, and then touch **OK**.



	Description
<b>\$</b>	The flash will not fire. The camera will display the shake warning when you are shooting in low light.
<b>4</b> 8	<b>Auto</b> : The flash will fire automatically when the subject or background is dark.

#### Red-eye: . The flash will fire twice when the subject or background is dark to reduce the red-eye effect. **①** . There is an interval between the 2 bursts of the flash. Do not move until the flash fires a second time. Fill in: · The flash always fires. The camera automatically adjusts the flash's intensity. Slow Sync: · The flash fires and the shutter stays open longer. . This option is recommended when you want to capture ambient light to reveal more details in the 4s background. · Use a tripod to prevent your photos from blurring. • The camera will display the shake warning when you are shooting in low light. Red-eye Fix: . The flash fires twice when the subject or background is dark, and the camera corrects red-eyes through its de advanced software analysis. . There is an interval between the 2 bursts of the flash.

Do not move until the flash fires a second time.

Available options may differ depending on the shooting mode.

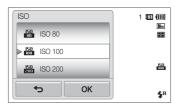


- Flash options are not available if you set burst options or select Self-Portrait or Blink Detection.
- Make sure that your subjects are within the recommended distance from the flash. (p. 146)
- If light from the flash is reflected or there is a substantial amount of dust in the air, tiny spots may appear in your photo.

#### Adjusting the ISO sensitivity

The ISO sensitivity is the measure of a film's sensitivity to light as defined by the International Organization for Standardization (ISO). The higher the ISO sensitivity you select, the more sensitive to light your camera becomes. With a higher ISO sensitivity, you can get a better photo without using the flash.

- 1 In Shooting mode, touch  $\longrightarrow$  ISO.
- 2 Select an option, and then touch **OK**.
  - Select Auto to have the camera select an appropriate ISO sensitivity based on the brightness of the subject and lighting.





Higher ISO sensitivities may result in more image noise.



# Changing the camera's focus

Learn how to adjust the camera's focus to suit the subject and the shooting conditions.

#### Using macro

Use macro to capture close-up photos of subjects, such as flowers or insects.



- $\mathbb{Z}$
- · Try to hold the camera firmly to prevent blurry photos.
- Turn off the flash if the distance to the subject is less than 16 in (40 cm).

- 1 In Shooting mode, touch  $\longrightarrow$  **Focus**.
- 2 Select Macro, and then touch OK.

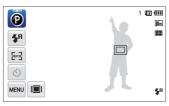




#### **Using Smart Touch focus**

Smart Touch AF allows you to track and auto focus on your subject, even when you are moving.

- 1 In Shooting mode, touch  $\longrightarrow$  Focus Area.
- 2 Select Smart Touch AF, and then touch OK.
- 3 Touch the subject you want to track in the touch area.



- The white frame means that your camera is tracking the subject.
- The green frame means that your subject is in focus when you half-press [Shutter].

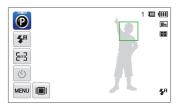


- If you do not touch any area on the screen, the focus frame will appear in the center of the screen.
- · Tracking a subject may fail when:
  - the subject is too small
  - the subject moves excessively
  - the subject is backlit or you are shooting in a dark place
  - colors or patterns on the subject and the background are the same
  - the subject includes horizontal patterns, such as blinds
  - the camera shakes excessively
- When tracking a subject fails, the focus frame will appear as a white single-line frame (
  ).
- If the camera fails to track the subject, you must reselect the subject to track.
- If the camera fails to focus, the focus frame will change to a red single-line frame (
  ).
- If you use this function, you cannot set self timer options,
   Face Detection options, Smart Filter options, and burst options.

#### Using one touch shooting

You can focus on a subject and capture a photo with the touch of your finger.

- 1 In Shooting mode, touch  $\longrightarrow$  Focus Area.
- 2 Select One Touch Shooting, and then touch OK.
- 3 Touch a subject to capture the photo.





If you use this function, you cannot set Self Timer options, burst options, and Smart Filter effects.

#### Adjusting the focus area

You can get clearer photos by selecting an appropriate focus area according to your subject's location in the scene.

- 1 In Shooting mode, touch  $\longrightarrow$  Focus Area.
- 2 Select an option, and then touch **OK**.



Icon	Description
+	<b>Center AF</b> : Focus on the center of the frame (suitable when subjects are located at or near the center).
<b>:::</b>	Multi AF: Focus on one or more of 9 possible areas.
[6]	One Touch Shooting: Focus on the subject by touching the image on the screen. Touch and hold the subject to capture the photo. (p. 62)
	Smart Touch AF: Focus on and track the subject that you touch on the screen. (p. 61)

# **Using face detection**

If you use Face Detection options, your camera can automatically detect a human face. When you focus on a human face, the camera adjusts the exposure automatically. Use **Blink Detection** to detect closed eyes or **Smile Shot** to capture a smilling face. You can also use **Smart Face Recognition** to register faces and prioritize the focus on them.



- . The camera automatically tracks the registered face.
- · Face detection may not be effective when:
  - the subject is far from the camera (The focus frame will appear orange for Smile Shot and Blink Detection.)
  - it is too bright or too dark
  - the subject is not facing the camera
  - the subject is wearing sunglasses or a mask
  - the subject's facial expression changes drastically
- the subject is backlit or the lighting conditions are unstable
- Face Detection is not available when you set Smart Filter effects or Smart Touch AF.
- Depending on the shooting options, available Face Detection options may differ.
- Depending on the Face Detection options you selected, the timer function may not be available or available timer options may differ.
- When you set the Face Detection options, some burst options are not available.
- When you capture photos of detected faces, they will be registered in the face list.
- You can view registered faces in order of priority in Playback mode.
   (p. 84) Even though faces are registered successfully, they may not be classified in Playback mode.
- A face detected in Shooting mode may not appear in the face list or Smart Album.

#### **Detecting faces**

Your camera automatically detects up to 10 human faces in one scene.

- 1 In Shooting mode, touch ■■■ → Face Detection.
- 2 Select Normal, and then touch OK.



The nearest face appears in a white focus frame and the rest of the faces appear in gray focus frames.



- The closer you are to the subjects, the quicker your camera will detect faces
- To focus on a subject in a gray focus frame, touch the face in the frame.
- The camera may not register detected faces if you set burst options such as Continuous, Motion Capture, and AEB.

#### Capturing a self portrait shot

Take photos of yourself. The focus distance will be set to closeup and your camera will emit a beep.

- 1 In Shooting mode, touch  $\longrightarrow$  Face Detection.
- 2 Select Self-Portrait, and then touch OK.
- 3 When you hear a quick beep, press [Shutter].



When faces are located in the center, the camera beeps rapidly.



If you turn **Volume** off in the sound settings, the camera will not emit a beep. (p. 129)

#### Capturing a smile shot

The camera automatically releases the shutter when it detects a smiling face.

- 1 In Shooting mode, touch  $\longrightarrow$  Face Detection.
- 2 Select Smile Shot, and then touch OK.
- 3 Compose your shot.
  - The camera automatically releases the shutter when it detects a smilling face.





When your subject smiles broadly, your camera can detect the smile more easily.

#### Detecting eye blinking

If your camera detects closed eyes, it will automatically capture 2 photos in succession.

- 1 In Shooting mode, touch  $\longrightarrow$  Face Detection.
- 2 Select Blink Detection, and then touch OK.







- Hold your camera still while "Capturing" is displayed on the screen.
- If blink detection fails, the "Picture taken with eyes closed." message appears. Capture another photo.

#### **Using Smart Face Recognition**

The camera automatically registers faces that you frequently photograph. The Smart Face Recognition feature will automatically prioritize the focus on those faces and on favorite faces. The Smart Face Recognition feature is available only when you use a memory card.

- 1 In Shooting mode, touch  $\longrightarrow$  Face Detection.
- 2 Select Smart Face Recognition, and then touch **OK**.



The nearest face appears in a white focus frame and the rest of the faces appear in gray focus frames.

- —: Faces that you have registered as favorites. (To register faces as favorites, refer to page 66.)
- $\bullet$   $\hfill \square$  : Faces that the camera automatically registers.



- The camera may recognize and register faces incorrectly depending on lighting conditions, drastic changes in the subject's pose or face, and whether or not the subject is wearing glasses.
- The camera can automatically register up to 14 faces. If the camera recognizes a new face when 14 faces have already been registered, it will replace the lowest priority face with the new one.
- The camera can detect up to 5 favorite faces in one scene.

#### Registering faces as your favorites (My Star)

You can register your favorite faces to prioritize the focus and exposure on those faces. This feature is available only when you use a memory card.

- 1 In Shooting mode, touch MENU → Smart FR Edit.
- 2 Select My Star, and then touch OK.
- 3 Align your subject's face with the oval guideline, and then press [Shutter] to register the face.





- If the subject's face is not aligned with the oval guideline, the white frame will not appear.
- . Capture photos of one person at a time when registering faces.
- Capture 5 photos the subject's face for best results: one each from the front, left, right, above, and below.
- When capturing photos from the left, right, above, and below, instruct the subject not to turn his or her face more than 30 degrees.
- You can register a face even if you capture one photo of the subject's face.

- - Your favorite faces are indicated with a \* on the face list.



- · You can register up to 6 favorite faces.
- . The flash will not fire when you register a favorite face.
- If you register the same face twice, you can delete one of the faces in the face list.

#### Viewing your favorite faces

- 1 In Shooting mode, touch  $\longrightarrow$  Smart FR Edit.
- 2 Select Face List, and then touch OK.



- To change the ranking of your favorite faces, touch 📆. (p. 83)
- To delete a favorite face, touch 🟂.



# Adjusting brightness and color

Learn how to adjust the brightness and color for better image quality.

#### Adjusting the exposure manually (EV)

Depending on the intensity of the ambient light, your photos may be too bright or dark. In these cases, you can adjust the exposure to get a better photo.





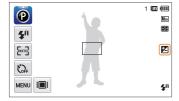


Dainei

Neutral (0)

Brighter (+)

- 1 In Shooting mode, touch  $\longrightarrow$  EV.
- 2 Select a desired value, and then touch **OK**.
  - · The photo will be brighter as exposure increases.
  - When you adjust the exposure value, the icon will appear as shown below.





- Once you adjust the exposure, the setting will be stored automatically. You may need to change the exposure value later to avoid overexposure or underexposure.
- If you cannot decide on an appropriate exposure, select AEB (Auto Exposure Bracket). The camera will capture 3 consecutive photos, each with a different exposure: normal, underexposed, and overexposed. (p. 72)

#### Compensating for backlighting (ACB)

When the light source is behind your subject or there is high contrast between your subject and the background, your subject is likely to appear dark in the photo. In this case, set the Auto Contrast Balance (ACB) option.





Without ACB

With ACB

- 1 In Shooting mode, touch MENU
- 2 Touch the setting button next to ACB.



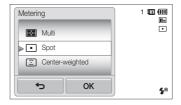


- The ACB feature is always on in Smart Auto, Scene (Beach & Snow) modes.
- The ACB feature is not available when you set Continuous, Motion Capture, or AEB options.

#### Changing the metering option

The metering mode refers to the way in which a camera measures the quantity of light. The brightness and lighting of your photos will vary depending on the metering mode you select.

- 1 In Shooting mode, touch  $\longrightarrow$  Metering.
- 2 Select an option, and then touch **OK**.



frame.

	Description
Æ	Multi:     Your camera divides the frame into several areas, and then measures the light intensity of each area.     Suitable for general photos.
•	Spot: Your camera measures only the light intensity of the very center of the frame. If a subject is not in the center of the frame, your photo may be improperly exposed. Suitable for a subject with backlighting.
<b>3</b>	Center-weighted: Your camera averages the meter reading of the entire frame with emphasis placed on the center. Suitable for photos with subjects in the center of the

#### Selecting a light source (White balance)

The color of your photo depends on the type and quality of the light source. If you want the color of your photo to be realistic, select a white balance setting that is appropriate for the lighting conditions, such as Auto WB, Daylight, Cloudy, or Tungsten.







Daylight





Cloudy

- 1 In Shooting mode, touch  $\longrightarrow$  White Balance.
- 2 Select an option, and then touch **OK**.

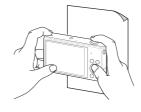


Icon	Description
FWD	<b>Auto WB</b> : Automatically set the White Balance based on the lighting conditions.
•	Daylight: For outdoor photos on a sunny day.
<b>a</b> >	Cloudy: For outdoor photos on a cloudy day or in shadows.
· <b>#</b>	Fluorescent_H: For shooting under a daylight fluorescent or 3-way fluorescent light.
# <b>#</b>	Fluorescent_L: For shooting under white fluorescent light.
<b>.</b>	Tungsten: For shooting indoor photos under incandescent bulbs or halogen lamps.
	<b>Custom Set</b> : Use White Balance settings that you defined.

#### Defining your own white balance

You can customize the White Balance by capturing a photo of a white surface, such as a piece of paper, under the lighting conditions in which you intend to capture a photo. The White Balance feature will help your camera reproduce the colors that are in the scene accurately in your photo.

- 1 In Shooting mode, touch  $\longrightarrow$  White Balance.
- 2 Select Custom Set, and then touch OK.
- 3 Aim the lens at a piece of white paper, and then press [Shutter].



### **Using burst modes**

It can be difficult to capture photos of fast-moving subjects or capture natural facial expressions and gestures of your subjects in photos. In these cases, select one of the burst modes to rapidly capture multiple photos.



- 1 In Shooting mode, touch  $\longrightarrow$  **Drive**.
- 2 Select an option, and then touch **OK**.



lc		Description
		Single: Capture a single photo.
		Continuous: While you are pressing [Shutter], the camera continuously captures photos. The maximum number of photos depends on the capacity of your memory card.
		<b>Motion Capture:</b> While you are pressing [ <b>Shutter</b> ], the camera captures VGA photos (6 photos per second; maximum of 30 photos).
	AEB	AEB:  • Capture 3 consecutive photos, each with a different



You can use the flash, timer, ACB, and Smart Filter only when you select **Single**.

exposure: normal, underexposed, and overexposed.

 When you select Motion Capture, your camera will set the resolution to VGA and set the ISO sensitivity to Auto.

Use a tripod to prevent blurry photos.

 Depending on the Face Detection option you selected, some burst options may not be available.

# Applying effects/Adjusting images

#### Applying Smart Filter effects

Apply various filter effects to your photos and videos to create unique images.





Miniature

Vignetting





Fish-eye

Sketch

- 1 In Shooting mode, touch  $\longrightarrow$  Smart Filter.
- 2 Select a filter, and then touch  $\mathbf{0K}$ .

#### Available filters in Program mode

con	Description
	Normal: No effect
3	<b>Miniature</b> : Apply a tilt-shift effect to make the subject appear in miniature.
<b>(</b>	<b>Vignetting</b> : Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.
	<b>Soft-Focus</b> : Hide facial imperfections or apply dreamy effects.
⊞Ō	Old Film 1: Apply vintage film effect 1.
⊞Ō	Old Film 2: Apply vintage film effect 2.
	Half Tone Dot: Apply a halftone effect.
	Sketch: Apply a pen sketch effect.
	Fish-eye: Blacken the edges of the frame and distort objects to imitate the visual effect of a fisheye lens.
	Defog: Make a photo clearer.
<b>3</b>	Classic: Apply a black and white effect.

#### Applying effects/Adjusting images

	Description
<b>A</b> R	Retro: Apply a sepia tone effect.
<b>3</b>	Negative: Apply a negative film effect.
EG3	Custom RGB: Customize a color value.



- When you select **Sketch**, the resolution will change to **Sm** and below.
- When you select Fish-eye, the resolution will change to Sm and below.

#### Available filters in Movie mode

Icon	Description
	Normal: No effect
İŏı	Palette Effect 1: Create a vivid look with sharp contrast and red color.
İδ	Palette Effect 2: Make scenes clean and clear by applying a soft blue tone.
ŧά	Palette Effect 3: Apply a soft brown tone.
įχ	Palette Effect 4: Create a cold and monotone effect.

	lescription  finiature: Apply a tilt-shift effect to make the subject  ppear in miniature.
_ N	117
ap	рреантинацие.
1((+))1	<b>lignetting</b> : Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.
Ш Н	alf Tone Dot: Apply a halftone effect.
S	sketch: Apply a pen sketch effect.
IRLURI	<b>ish-eye</b> : Distort close objects to imitate the visual effect of fisheye lens.
D D	defog: Make image clearer.
<b>€</b> C	Classic: Apply a black and white effect.
® R	tetro: Apply a sepia tone effect.
■ N	legative: Apply a negative film effect.
C C	Custom RGB: Customize a color value.

#### Defining your own RGB tone

- 1 In Shooting mode, touch → Smart Filter.
- 2 Select Custom RGB, and then touch OK.
- 3 Drag up or down to adjust the values of each color.
  - . The higher the value, the brighter the photo.
  - . The lower the value, the darker the photo.



4 Touch **OK** to save your changes.

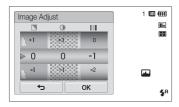


- If you select Miniature when you are recording a video, the speed of the video will increase.
- If you select Miniature when you are recording a video, the camera will not record sound.
- If you select Miniature, Vignetting, Half Tone Dot, Sketch,
   Fish-eye, or Defog while recording a video, the recording speed will be set to \( \mathbb{R}'' \) and the recording resolution will be set to less than 640.
- If you set Smart Filter effects, you cannot use the Face Recognition options, ACB, burst options, Image Adjustment options, Intelli zoom, or Smart Touch AE.

#### Adjusting your photos

Adjust the sharpness, saturation, or contrast of your photos.

- 1 In Shooting mode, touch → Image Adjust.
- 2 Drag up or down to adjust each value.
  - Sharpness
  - O: Contrast
  - III: Saturation



3 Touch **OK** to save your changes.

Sharpness	Description
-	Soften the edges on your photos (suitable for editing the photos on your computer).
+	Sharpen the edges to improve the clarity of your photos. This may also increase the noise on your photos.

Contrast	Description
-	Decrease the color and brightness.
+	Increase the color and brightness.

Saturation	Description
-	Decrease the saturation.
+	Increase the saturation.



- Select 0 if you do not want to apply any effects (suitable for printing).
- If you set adjustment functions, you cannot use Smart Filter options.

# Reducing the zoom sound

When you use the zoom while recording videos, the camera can record the sound of the zoom in the videos. Use the Sound Alive function to reduce the zoom noise.

- 1 In Shooting mode, touch  $\longrightarrow$  Voice.
- 2 Select an option, and then touch **OK**.







- Do not block the microphone when you use the Sound Alive function.
- Recordings made with Sound Alive may differ from actual sounds.

# Available shooting options by shooting mode

For details about shooting options, refer to "Shooting options".

				Close Up				
Resolution	0	0	0	0	0	0	0	0
Quality	-	0	0	0	0	0	0	0
Timer	Δ	0	0	0	0	0	0	Δ
Flash	Δ	Δ	Δ	-	Δ	Δ	0	-
ISO sensitivity	-	-	-	-	-	-	0	-
Macro	Δ	Δ	Δ	Δ	-	Δ	0	0
Focus area	-	-	-	-	-	-	0	-
Face detection	Δ	-	Δ	-	-	Δ	0	-
EV	-	-	-	-	-	-	0	0
ACB	Δ	-	Δ	-	-	-	0	-
Metering	-	-	-	-	-	-	0	0
White balance	-	-	-	-	-	-	0	0
Drive	-	-	-	-	-	-	0	-
Smart filter	-	-	-	-	-	-	Δ	Δ
Image adjust	-	-	-	-	-	-	0	-
Sound Alive	-	-	-	-	-	-	-	0
Digital zoom	-	-	Δ	-	-	-	0	-
Intelli zoom	Δ	-	Δ	-	-	-	Δ	-
DIS	0	0	0	0	0	0	0	-
Voice memo	-	-	-	-	-	-	0	-

O All options are available.  $\triangle$  In these modes, some options are limited or a certain option is set by default.

	Smart movie	Object Highlight	Magic Frame shot	Photo Filter	Movie Filter	Vignetting (photo)	Vignetting (movie)	Palette Effect Shot
Resolution	0	Δ	-	0	0	0	0	0
Quality	0	0	0	0	-	0	0	0
Timer	Δ	0	0	0	Δ	0	Δ	Δ
Flash	-	Δ	0	Δ	-	Δ	-	-
ISO sensitivity	-	-	-	-	-	-	-	-
Macro	Δ	-	-	-	Δ	-	Δ	Δ
Focus Area	-	-	-	-	-	-	-	-
Face detection	-	-	-	-	-	-	-	-
EV	-	-	-	-	-	-	-	-
ACB	-	-	-	-	-	-	-	-
Metering	-	-	-	-	-	-	-	-
White balance	-	-	-	-	-	-	-	-
Drive	-	-	-	-	-	-	-	-
Smart filter	-	-	-	Δ	Δ	-	-	Δ
Image adjust	-	-	-	-	-	-	-	-
Sound Alive	0	-	-	-	0	-	0	0
Digital zoom	-	-	-	-	-	-	-	-
Intelli zoom	-	-	-	-	-	-	-	-
DIS	-	-	-	-	-	-	-	-
Voice memo	-	-	-	-	-	-	-	-

O All options are available.  $\triangle$  In these modes, some options are limited or a certain option is set by default.

# Playback/Editing

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

Viewing photos or videos in
Playback mode 8
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Playing a video
Playing a voice memo
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Resizing photos
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Applying Smart Filter effects
Adjusting your photos
Creating a print order (DPOF)

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computer	99
Transferring files with Intelli-studio	100
Transferring files by connecting the	
camera as a removable disk	102
Disconnecting the camera	
(for Windows XP)	103
Transferring files to your Mac	
computer	104
Printing photos with a PictBridge photo	
printer	105

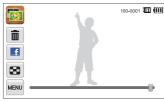
# Viewing photos or videos in Playback mode

Learn how to play back photos, videos, or voice memos and how to manage files.

#### Starting Playback mode

View photos or play videos and voice memos stored in your camera.

#### 1 Press [Playback].



- · The most recent file will be displayed.
- If the camera is off, it will turn on and display the most recent file.



- To view files by category, touch on the Home screen. (p. 84)
- To send an email, touch → Share → Email. To upload the file to the web sites, touch → Share → an web site.

2 Drag the image left or right to move to another file.



- To skip files quickly, tilt the camera to the direction you want to flip files. (p. 82)
- You can also touch and hold the left end or right end of the screen to skip files quickly.
- You can also drag the slider left or right to move to the previous or next file.





- If you want to view files stored in the internal memory, remove your memory card.
- The camera will not properly play back files of unsupported sizes or files that were captured with other cameras.

