

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

## U Click a topic

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Basic functions

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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



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



Note-notes, usage tips, or additional information



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

Do not use your camera near fuels, combustibles, or flammable chemicals. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the camera or its accessories.

#### 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.

#### Prevent damage to subjects' eyesight

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

#### Handle and dispose of batteries and chargers with care

- Use only Samsung-approved batteries and chargers.
   Incompatible batteries and chargers can cause serious injuries or damage to your camera.
- Never dispose of batteries in a fire. Follow all local regulations when disposing of used batteries.
- Never place batteries or cameras on or in heating devices, such as microwave ovens, stoves, or radiators. Batteries may explode when overheated.

#### Avoid interference with pacemakers

Maintain a minimum of 15 cm (6 inches) between cameras and pacemakers to avoid potential interference, as recommended by manufacturers 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.



#### Handle and store your camera carefully and sensibly

- Do not allow your camera to get wet—liquids can cause serious damage. Do not handle your camera with wet hands. Water damage to your camera can void your manufacturer's warranty.
- 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 using or storing your camera in dusty, dirty, humid, or poorly-ventilated areas to prevent damage to moving parts and internal components.
- 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.
- Protect your camera from sand and dirt when using it on beaches or in other similar areas.
- Protect your camera and monitor from impact, rough handling, and excessive vibration to avoid serious damage.

- Exercise caution when connecting cables or adapters and installing batteries and memory cards. Forcing the connectors, improperly connecting cables, or improperly installing batteries and memory cards can damage ports, connectors, and accessories.
- Do not insert foreign objects into any of your camera's compartments, slots, or access points. Damage due to improper use may not be covered by your warranty.

# Protect batteries, chargers, and memory cards from damage

- Avoid exposing batteries or memory cards to very cold or very hot temperatures (below 0° C/32° F or above 40° C/104° F).
   Extreme temperatures can reduce the charging capacity of your batteries and can cause memory cards to malfunction.
- Prevent batteries from making contact with metal objects, as this can create a connection between the + and - terminals of your battery and lead to temporary or permanent battery damage.
- Prevent memory cards from making contact with liquids, dirt, or foreign substances. If dirty, wipe the memory card clean with a soft cloth before inserting in your camera.
- Do not allow liquids, dirt, or foreign substances to come in contact with the memory card slot. Doing so may cause the camera to malfunction.
- Turn off the camera when inserting or removing the memory card.

- Do not bend, drop, or subject memory cards to heavy impact or pressure.
- Do not use memory cards that have been formatted by other cameras or by a computer. Reformat the memory card with your camera.
- Never use a damaged charger, battery, or memory card.

#### Use only Samsung-approved accessories

Using incompatible accessories may damage your camera, cause injury, or void your warranty.

#### Protect your camera's lens

- Do not expose the lens to direct sunlight, as this may discolour the image sensor or cause it to malfunction.
- Protect your lens from fingerprints and scratches. Clean your lens with a soft, clean, debris-free lens cloth.

#### Follow all safety warnings and regulations

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

#### 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.

#### 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.

#### 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.



#### Allow only qualified personnel to service your camera

Do not allow unqualified personnel to service the camera or attempt to service the camera yourself. Any damage that results from unqualified service is not covered by your warranty.

#### Ensure maximum battery and charger life

- Overcharging batteries may shorten battery life. After charging is finished, disconnect the cable from your camera.
- Over time, unused batteries will discharge and must be recharged before use.
- Disconnect chargers from power sources when not in use.
- Use batteries only for their intended purpose.

# Exercise caution when using the camera in humid environments

When transferring the camera from a cold environment to a warm and humid one, condensation can form on the delicate electronic circuitry and memory card. In this situation, wait for at least 1 hour until all moisture has evaporated before using the camera.

#### 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.

#### Use your camera in the normal position

Avoid contact with your camera's internal antenna.

- Data transferred via WLAN or Bluetooth technology 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.

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- Camera specifications or contents of this manual may be changed without prior notice due to upgrade of camera functions.
- You can download firmwares from www.samsung.com or www.samsungcamera.com.
- We recommend using your camera within a country where you purchase it.

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## Organisation of the user manual **Basic functions** 13 Learn about your camera's layout, icons, and basic functions for shooting. **Extended functions** 30 Learn how to take a photo by selecting a mode and how to record a video or voice memo. **Shooting options** 41 Learn about the options you can set in Shooting mode. Playback/Editing 64 Learn how to play back photos, videos, or voice memos and edit photos or videos. Also, learn how to connect your camera to your photo printer, TV, or HDTV. Wireless network/Bluetooth 91 Learn to use several functions using wireless local area networks (WLANs) and the Bluetooth feature. **Appendixes** 107 Refer to settings, error messages, specifications, and maintenance tips.

#### Indications used in this manual

Shooting mode	Indication
Smart Auto	SMART
Auto	<b>©</b>
Program	<b>O</b> p
Scene	SCENE
DUAL IS	U)) DUAL
Movie	<u>~</u>

#### Shooting mode icons

These icons indicate that a function is available in the corresponding modes. The **SCENE** mode may not support functions for all scenes.

#### e.g.)



- Available in the Program, DUAL IS, and Movie modes

#### 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: Select $\rightarrow \bigcirc$ (represents Select $\rightarrow$ , and then $\bigcirc$ )
*	Annotation

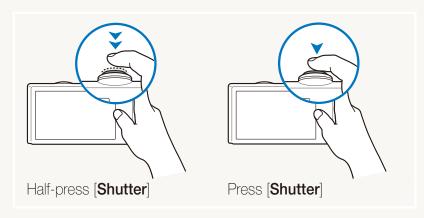
## Abbreviations used in this manual

Abbreviation	Definition
ACB	Auto Contrast Balance
AEB	Auto Exposure Bracket
AF	Auto Focus
AP	Access Point
DIS	Digital Image Stabilisation
DLNA	Digital Living Network Alliance
DPOF	Digital Print Order Format
EV	Exposure Value
GPS	Global Positioning System
OIS	Optical Image Stabilisation
WB	White Balance

## Expressions used in this manual

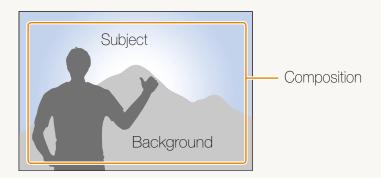
#### Pressing the shutter

- 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 of 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 speed. By altering the exposure, your photos will be darker or lighter.





Normal exposure

Overexposure (too bright)

# **Common questions**

You can get answers to common questions. Solve problems easily by setting shooting options.

70	The subject's eyes appear red.	This is caused by a reflection from the camera flash.  • Set the flash option to ● Red-eye or   Red-eye Fix. (p. 46)  • If the photo has already been taken, select   Red-eye Fix in the edit menu. (p. 79)
		The prioro has already been taken, select ( Thed-eye Fix in the edit mend. (p. 79)
	Photos have dust spots.	Dust particles floating in the air may be captured in photos when using the flash.  • Turn off the flash or avoid taking photos in a dusty place.
		Set ISO speed options. (p. 47)
4	Photos are blurred.	This may be caused by taking photos in low light conditions or holding the camera incorrectly.  • Use the mode. (p. 35)
		Press [Shutter] halfway down to make sure the subject is focused. (p. 28)
	Photos are blurred when	As the camera tries to let in more light, the shutter speed slows.
	shooting at night.	This can make it difficult to steady the camera and may result in camera shake.  • Turn on the flash. (p. 46)
		• Select *) Night in the SCENE mode. (p. 34)
		Set ISO speed options. (p. 47)
		Use a tripod to prevent your camera from shaking.
2	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 dark areas, the subject may come out shaded.  • Avoid shooting in front of the sun.
		• Select  A Backlight in the SCENE mode. (p. 32)
		• Set the flash option to <b>\$ Fill in</b> . (p. 46)
		Set the Auto Contrast Balance (ACB) option. (p. 57)
		Adjust the exposure. (p. 56)
		• Set the metering option to [•] Spot if a bright subject is in the centre of the frame. (p. 58)

## **Quick reference**



#### Taking photos of people

- **SEENE** mode > Beauty Shot, Portrait, Children ▶ 32
- Red-eye, Red-eye Fix (to prevent or correct red-eye)
   ▶ 46
- Face Detection ▶ 51



#### Taking photos at night or in the dark

- **SCENE** mode > Night, Dawn, Fireworks ▶ 32
- Flash options ▶ 46
- ISO speed (to adjust the sensitivity to light) ▶ 47



#### Taking action photos

• Continuous, Motion Capture ► 61



# Taking photos of text, insects, or flowers

- **SEENE** mode > Close Up, Text ▶ 32
- Macro, Auto Macro (to take close-up photos) ▶ 48
- White Balance (to change the colour tone) ► 59



#### Adjusting the exposure (brightness)

- ISO speed (to adjust the sensitivity to light) ► 47
- EV (to adjust exposure) ▶ 56
- ACB (to compensate for subjects against bright backgrounds) ► 57
- Metering ▶ 58
- AEB (to take 3 photos of the same scene with different exposures) ► 61



#### Applying a different effect

- Photo styles (to apply tones) ► 62
- Image adjustment (to adjust saturation, sharpness, or contrast) ► 63



#### Reducing camera shake

- Optical Image Stabilisation (OIS) ▶ 27
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# **Basic functions**

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

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# **Unpacking**

Check your product box for the following items.





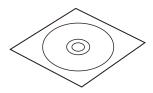




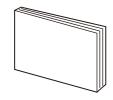
AC adapter/ USB cable

Rechargeable battery

Strap



User Manual CD-ROM



Quick Start Manual



The illustrations may differ from your actual items.

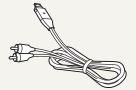
## Optional accessories



Camera case

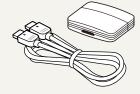


Memory card (microSD™)



AV cable

#### Sold as a set



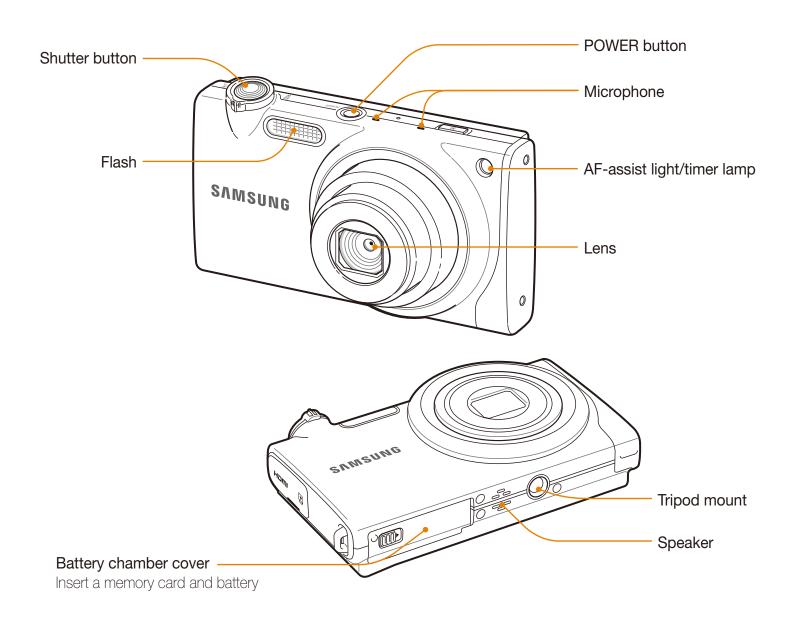
HDMI cable/ HDMI adapter

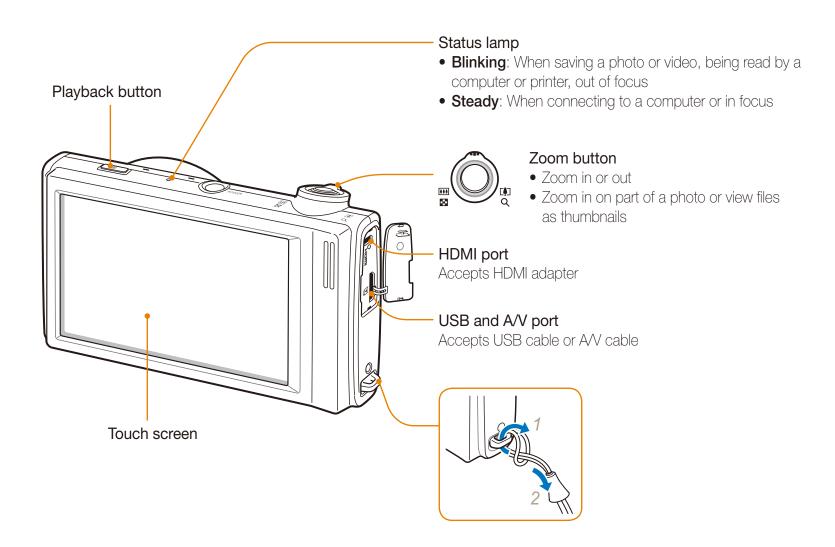


Remote control

# **Camera layout**

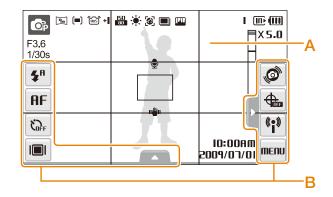
Before you start, familiarise yourself with your camera's parts and their functions.





# **Icons**

The icons displayed will change according to the mode you select or the options you set.



#### A. Status icons

Icon	Description
<b>O</b> p	Shooting mode
F3.6 1/30s	Aperture and shutter speed
<b>q</b> m	Photo resolution
<b>P</b> 311	Video resolution
	Metering
(OIS)	Optical Image Stabilisation (OIS)
<b>∃</b> 0	Frame rate
+	Exposure value
<u> 150</u> 9010	ISO speed
<b></b>	White balance
<b>(3)</b>	Face detection
	Burst mode
[PII]	Image adjustment (sharpness, contrast, saturation)

Icon	Description
<b>/</b> 5	Photo styles
I	Available number of photos
00:01:00	Available recording time
(II)	Internal memory
	Memory card inserted
(111)	<ul><li></li></ul>
<b>X5.0</b>	Zoom ratio
•	Voice memo
	Auto focus frame
П <b>Ш</b> П	Camera shake
•00	Option set 1 (of 3)
10:00 AM 2009/07/01	Current date and time
#	Grid lines

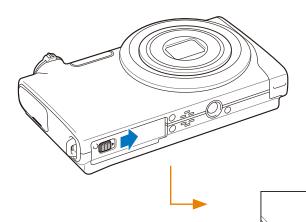
## B. Option icons (touch)

Icon	Description
<b>\$</b> <sup>₽</sup>	Flash option
AF	Auto focus option
<b>COFF</b>	Timer option
	Display type

Icon	Description
	Motion recognition
	GPS options and status
4	Network and Bluetooth menus
	MENU: Shooting options and
	settings menu
	Image setting options
	• Z: Exposure value
	White balance
	• 150 speed
	• • Face tone
	• 1/2: Face retouch
	Focus area option
	Face detection option
	Photo resolution
	Video resolution
•	Photo quality
	• 30: Frame rate
	• Goff: Exposure with ACB
	• [=]: Metering option
	Burst type
	non: Photo styles
	• IIII: Image adjustment (sharpness,
	contrast, saturation)
	• LT: Long time shutter
	Optical Image Stabilisation (OIS)
	Audio recording
	• <b>&lt;&gt;</b> : Another row of options

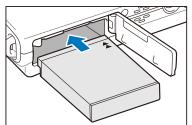
# Inserting the battery and memory card

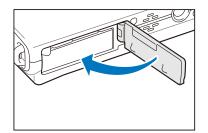
Learn to insert the battery and an optional microSD<sup>TM</sup> memory card into the camera.



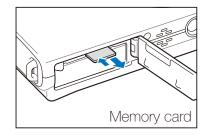
Insert a memory card with the gold-coloured contacts facing up.



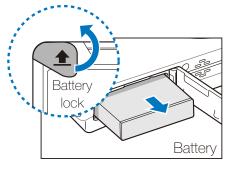




#### Removing the battery and memory card



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



Push the lock up to release the battery.

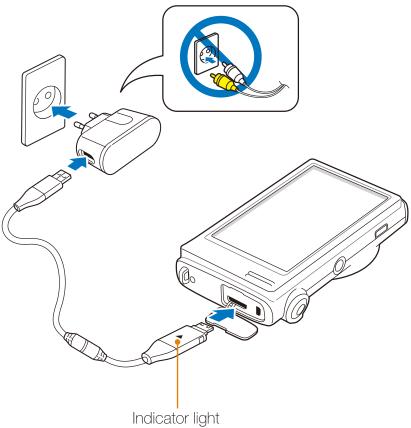


The internal memory can be used as a temporary storage device when the memory card is not inserted.

# Charging the battery and turning your camera on

## Charging the battery

Before using the camera for the first time, you must charge the battery. Attach the USB cable to the AC adapter and then plug the end of cable with the indicator light into your camera.



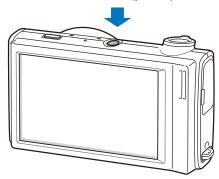
• Red: Charging

• Green: Fully charged

## Turning on your camera

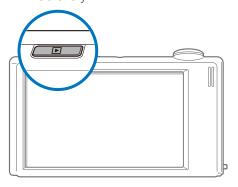
Press [POWER] to turn your camera on or off.

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





Press and hold [12] to mute camera sounds.

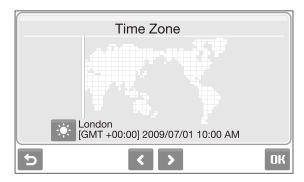
# Performing the initial setup

The initial setup screen appears to allow you to configure the camera's basic settings.

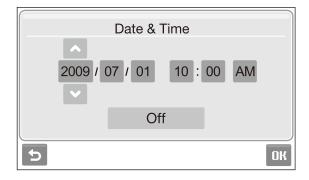
1 Select Language.



- 2 Select a language.
- 3 Select Time Zone (Time Zone).
- 4 Select a time zone and select **DK**.
  - To set the daylight-saving time, select .:



- 5 Select **Date & Time** (Date & Time).
- 6 Set the date and time, select a date format, and select **OK**.



7 Select **OK** to switch to the Shooting mode.

# Using the touch screen

Learn basic actions to use the touch screen. The touch screen works best when touched with the soft part of your finger.



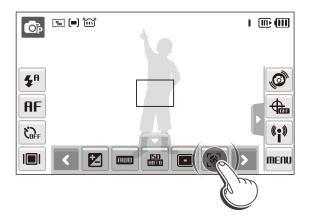
Do not use other sharp objects, such as pens or pencils, to touch the screen. Doing so may damage the screen.



- When you touch or drag on the screen, discolourations will occur. It is not a malfunction but a characteristic of the touch screen. Touch or drag lightly to reduce these annoying effects.
- The touch screen may not recognise your touches correctly when:
  - you touch multiple items at the same time
  - you use the camera in high humidity environments
  - you use the camera with an LCD protection film or another LCD accessory
- If you perform no operations for few seconds, the screen will dim to save battery life.

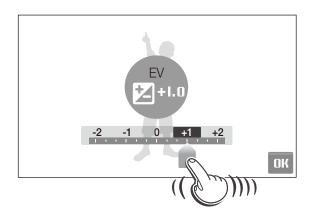
#### Touching

Touch an icon to select a menu or option.



#### Dragging

Drag left or right to scroll horizontally.



#### Using gestures

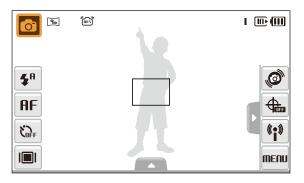
Perform certain functions by drawing commands on the touch screen.

Gesture	Description
•	Draw a horizontal bar to right or left to view the next or previous file.
$\times$	Draw an X to delete a photo.
$\bigcirc\bigcirc$	Draw a circle to rotate a photo.
5 d	Draw a diagonal to move the enlarged photo.

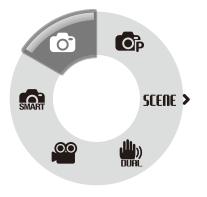
# Selecting a shooting mode

Learn how to select a shooting mode. Your camera provides you with various modes for shooting.

1 Select the mode icon.



2 Select a mode.



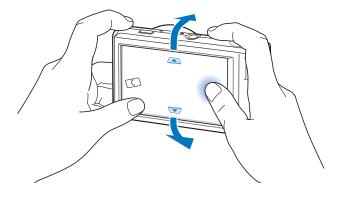
Mode	Description
SMART	Smart Auto: Take a photo by letting the camera select a scene mode as it detects. (p. 31)
<b>6</b>	<b>Auto</b> : Take a photo quickly and easily with minimal settings. (p. 25)
<b>O</b> P	Program: Take a photo by setting options. (p. 36)
SCENE	<b>Scene</b> : Take a photo with options preset for a specific scene. (p. 32)
dit)) bual	<b>DUAL IS</b> : Take a photo with options suitable for reducing camera shake. (p. 35)
000	Movie: Record a video. (p. 38)

# Selecting a shooting mode using motion recognition

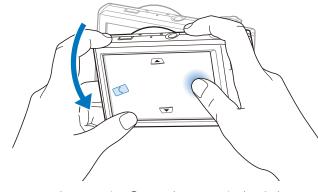
Your camera features a built-in motion sensor that allows you to quickly switch the shooting mode by tilting the camera.

In Shooting mode, tilt the camera while touching and holding .

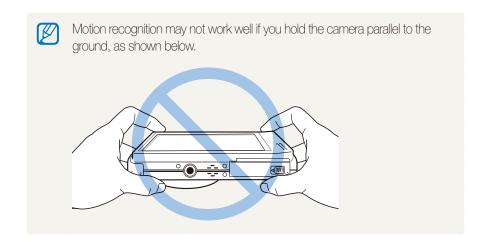
Access the Movie mode (p. 38)



Access the Program mode (p. 36)



Access the Smart Auto mode (p. 31)

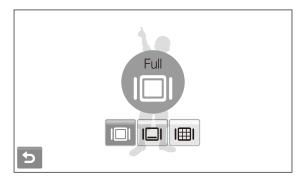


# Setting the touch screen and sound

Learn how to change the basic settings for the touch screen and sound according to your preferences.

## Setting the display type for the touch screen

- 1 In Shooting mode, select III. (In Playback mode, select III.)
- 2 Select an option.



Option	Description
	Full: Display the name of an option when you select an icon.
	<b>Basic</b> : Display icons without the name of an option. This option is available only in Playback mode.
	<b>Hide</b> : Hide icons on the screen if you perform no operations for 3 seconds (touch the screen to display icons again).
IIIIII	<b>Guide Line</b> : Display grid lines. The grid lines are helpful for getting the photo aligned with a surface, such as the horizon or the edges of buildings. This option is available only in Shooting mode.

## Setting the sound

Set whether your camera emits a specified sound when you operate your camera.

- 1 In Shooting or Playback mode, select **METIU**.
- 2 Select **◄**) → **Beep Sound**.
- 3 Select an option.

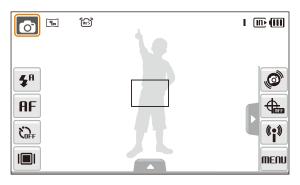
Option	Description
Off	The camera does not emit any sounds.
On	The camera emits sounds.

4 Select **to** return to the previous mode.

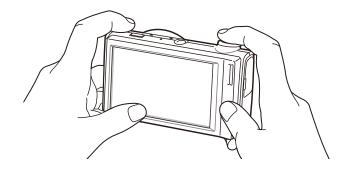
# **Taking photos**

Learn basic actions to take photos easily and quickly in the Auto mode.

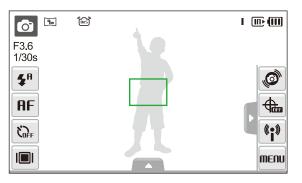
- 1 Make sure that the camera is in the mode (Auto), the camera's default shooting mode.
  - If not, select the mode icon  $\rightarrow$  **6**.



2 Align your subject in the frame.



- 3 Half-press [Shutter] to focus.
  - A green frame means the subject in focus.



4 Press [Shutter] to take a photo.

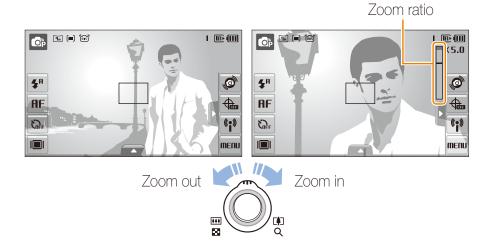


See page 28 for tips to get clearer photos.

## Zooming

You can shoot close-up photos by adjusting the zoom. Your camera has a 5X optical zoom and 5X digital zoom. By using both, you can zoom in up to 25 times.

Push [Zoom] right to zoom in on your subject. Push [Zoom] left to zoom out.

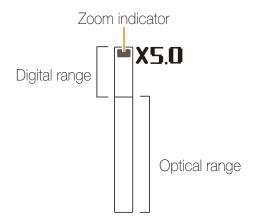




The zoom ratio available for videos differs.

#### Digital zoom

If the zoom indicator is in the digital range, your camera is using the digital zoom. The picture quality may deteriorate when you use the digital zoom.

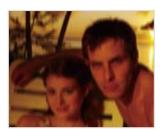




- It may take longer to save a photo when using the digital zoom.

## 

Reduce camera shake optically in Shooting mode.





Before correction

After correction

- 1 In Shooting mode, select  $\triangle \rightarrow >$  (once or twice)  $\rightarrow =$  (once or twice).
- 2 Select an option.

Option	Description
(OS) OFF	Off: Deactivate the OIS function.
(OIS)	On: Activate the OIS function.

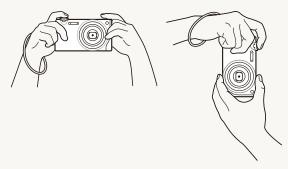


- OIS may not function properly when:
  - you move your camera to follow a moving subject
  - you use digital zoom
  - there is too much camera shake
  - the shutter speed is slow (e.g., when you select **Night** in the **SCENE** mode)
  - the battery is low
  - you take a close-up shot
- If you use 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 impacted, the display will be blurry. In this case, turn off the camera and turn it on again to use the OIS function correctly.

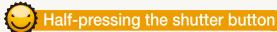
## Tips for getting a clearer photo

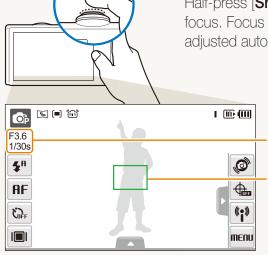


## Holding your camera correctly



Make sure nothing is blocking the lens.





Half-press [**Shutter**] and adjust the focus. Focus and exposure will be adjusted automatically.

The aperture value and shutter speed are automatically set.

#### Focus frame

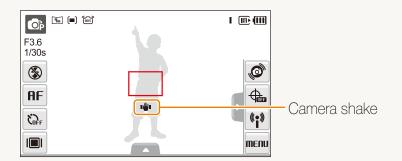
- Press [Shutter] to take the photo if displayed in green.
- Change the frame and half-press [Shutter] again if displayed in red.

# Reducing camera shake



- Set the Optical Image Stabilisation option to reduce camera shake optically. (p. 27)
- Select the www mode to reduce camera shake both optically and digitally. (p. 35)

# When ( is displayed



When shooting 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 still.

- Use a tripod or set the flash option to **Fill in**. (p. 46)
- Set ISO speed options. (p. 47)



#### Preventing your subject from being out of focus

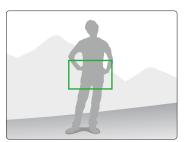
It may be difficult to get your subject in focus when:

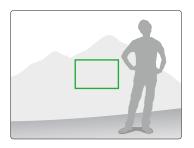
- there is little contrast between the subject and background (When your subject is wearing a colour of clothing that is similar to the background)
- the light source behind the subject is too bright
- the subject is shiny
- the subject includes horizontal patterns, such as blinds
- the subject is not positioned in the centre 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 take your photo.





When you take photos in low light



Turn on the flash. (p. 46)

When subjects are moving fast



Use the continuous or motion capture function. (p. 61)

# **Extended functions**

Learn how to take a photo by selecting a mode and how to record a video or voice memo.

Shooting modes	3
Using the Smart Auto mode	3
Using the Scene mode	3
Using the Beauty Shot mode	3
Using the frame guide	3
Adjusting the exposure in the Night mode	3
Using the DUAL IS mode	3
Using the Program mode	3
Taking photos with location information	3
Recording a video	38
Recording voice memos	4
Recording a voice memo	4
Adding a voice memo to a photo	40

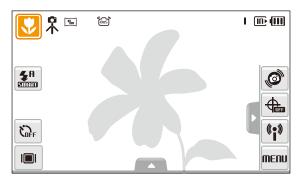
# **Shooting modes**

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

## Using the Smart Auto mode

In this mode, your camera automatically chooses the appropriate camera settings based on a detected type of scene. It will be helpful if you are not familiar with the camera settings for various scenes.

- 2 Align your subject in the frame.
  - The camera selects a scene automatically. An appropriate mode icon will appear at the top left of the screen.



Icon	Description
<u></u>	Appears when taking photos of landscapes.
WHITE	Appears when taking photos of bright backgrounds.

Icon	Description
*)	Appears when taking photos of landscapes at night. This is available only when the flash is off.
	Appears when taking portraits at night.
<b>™</b>	Appears when taking photos of landscapes with backlighting.
	Appears when taking portraits with backlighting.
	Appears when taking portraits.
*	Appears when taking close-up photos of objects.
	Appears when taking close-up photos of text.
	Appears when taking photos of sunsets.
	Appears when taking photos of clear skies.
	Appears when taking photos of forested areas.
	Appears when taking close-up photos of colourful subjects.
<b>©</b> ;	Appears when taking close-up portraits of people.
₽	Appears when the camera and subject are stable for a while.
<b>**</b>	Appears when taking photos of actively moving subjects.

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



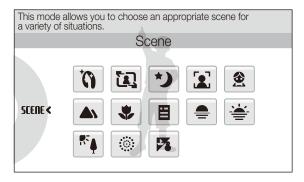
- If the camera does not recognise a proper scene mode, and will not change and the default settings will be used.
- Even if there is a face detected, the camera may not select a portrait mode depending on the subject's position or lighting.
- The camera may not select the correct scene depending on shooting environments, such as camera shake, lighting and distance to the subject.
- Even if you use a tripod, the \* mode may not be detected depending on the subject's movement.

## Using the Scene mode

Take a photo with options preset for a specific scene.

1 In Shooting mode, select  $\bigcirc$   $\rightarrow$  **SCENE**.

2 Select a scene.

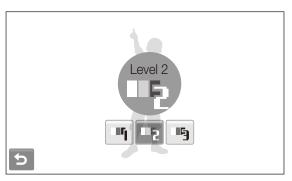


- For the Beauty Shot mode, see "Using the Beauty Shot mode" on page 33.
- For the Frame Guide mode, see "Using the frame guide" on page 34.
- For the Night mode, see "Adjusting the exposure in the Night mode" on page 34.
- 3 Align your subject in the frame and half-press [Shutter] to focus.
- 4 Press [Shutter] to take the photo.

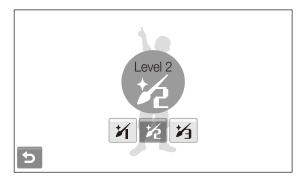
## Using the Beauty Shot mode

Take a photo of a person with options to hide facial imperfections.

- 1 In Shooting mode, select  $\bigcirc$   $\rightarrow$  SEENE  $\rightarrow$   $\bigcirc$ .
- 2 To make the subject's skin tone appear lighter (face only), select ▲ → ■¹ → an option.
  - Select a higher setting to make skin tone appear lighter.



- 3 To hide facial imperfections, select ▲ → ★ → an option.
  - Select a higher setting to hide a greater number of imperfections.



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

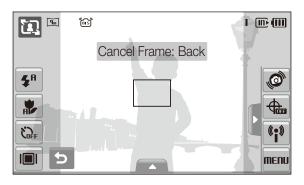


The focus distance will be set to **Auto Macro**.

## Using the frame guide

When you want another person to take a photo of you, you can compose the scene with the frame guide feature. The frame guide will help the other person take a photo of you by showing the part of the pre-composed scene.

- 1 In Shooting mode, select  $\bigcirc$   $\rightarrow$  SEENE  $\rightarrow$   $\bigcirc$   $\bigcirc$ .
- 2 Align your subject in the frame and press [Shutter].
  - Transparent guides will appear on the left and right of the frame.

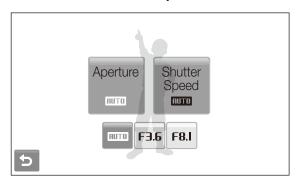


- 3 Ask another person to take a photo.
  - The person must align the subject in the frame by using the guides, and then press [Shutter] to take the photo.
- 4 To cancel the guides, select **5**.

## Adjusting the exposure in the Night mode

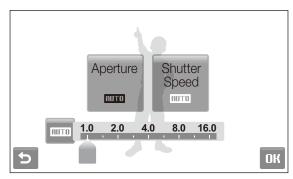
In the Night mode, you can catch brief flashes of light as curved streaks by extending the exposure. Use a slow shutter speed to extend the time until the shutter closes. Increase the aperture value to prevent overexposure.

- 1 In Shooting mode, select  $\bigcirc$   $\rightarrow$  SEENE  $\rightarrow$   $\stackrel{\bigstar}{\rightarrow}$ .
- 2 Select  $\triangle \rightarrow LT \rightarrow Aperture$ .



3 Select an option.

4 Select ▲ → LT → Shutter Speed.



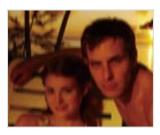
- 5 Select a value to adjust the shutter speed and select **DK**.
- 6 Align your subject in the frame and half-press [**Shutter**] to focus.
- 7 Press [Shutter] to take the photo.



Use a tripod to prevent your photos from blurring.

## Using the DUAL IS mode

Reduce camera shake and prevent blurred photos with Optical and Digital Image Stabilisation functions.





Before correction

After correction

- 2 Align your subject in the frame and half-press [**Shutter**] to focus.
- 3 Press [Shutter] to take the photo.

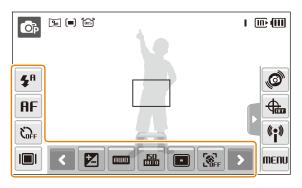


- The digital zoom will not work in this mode.
- The camera will correct photos optically only when you take them with a light source that is brighter than fluorescent light.
- If your subject is moving rapidly, the photo may be blurry.
- Set the Optical Image Stabilisation option to reduce camera shake in different shooting modes. (p. 27)

# Using the Program mode

Set various options (except for shutter speed and aperture value) in the Program mode.

- 1 In Shooting mode, select  $\bigcirc$   $\rightarrow$   $\bigcirc$ .
- 2 Set options. (For a list of options, refer to "Shooting options.")



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

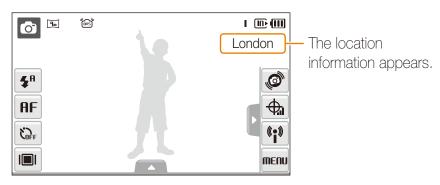
# 

Learn to take photos with location information using the Global Positioning System (GPS). The internal GPS antenna will receive signals from GPS satellites. When location information is recorded in the photo properties, you can later view where the photo was taken and upload it to websites that support map services.

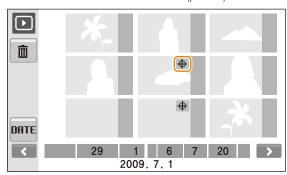
- 1 In Shooting mode, select ...
- Select GPS Mode → On.
- 3 Customise the GPS settings.

Option	Description
GPS Valid Time Settings	Set the time to use the last location information when the camera fails to receive GPS signals. (If the camera fails to receive GPS signals after the specified time, the location information will not be recorded onto the photos.)
Location Display	Set to display the location information on the top right screen of Shooting mode. (The location information will appear in English regardless of the display language.)
GPS Reset	Set to search for GPS satellites around the current position.

# 4 Select 5.



- 5 Align your subject in the frame and half-press [Shutter] to focus.
- 6 Press [Shutter] to take the photo.
  - A photo with the location information will be taken.
  - While viewing files as thumbnails, you can see which files include location information. (p. 69)



• You can also view the location information for a file with Intelli-studio.

In Shooting mode, the colour of  $\ensuremath{\Phi}$  indicates the GPS signal status.

Colour	Description
(Green)	The camera is receiving GPS signals.
Red)	The camera is not receiving GPS signals.
(Yellow)	The camera has not received GPS signals and the GPS valid time has not expired.
(Gray)	The GPS feature is deactivated.



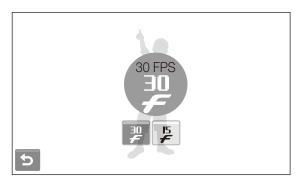
- The location information will be recorded for photos taken using **Continuous** or **AEB**.
- The location information will not be recorded for photos taken after the valid time has expired while you are taking photos using Continuous or AEB.
- The location information will not be recorded for photos taken using Motion Capture.
- It may take some time to receive GPS signals depending on GPS satellites.
- It may be difficult to receive GPS signals in the following conditions:
  - Between buildings
  - In lowlands
  - Near reflectors, such as mirrors
  - In bad weather conditions
- Take photos outdoors to get GPS signals better.
- The recorded location information may have an error depending on the positioning environment.
- The recorded location information may differ somewhat from the local designation, as place names are subject to change.
- The time obtained the location information will not be recorded onto photos.
- Location information cannot be recorded onto movies.
- The camera uses the World Geodetic System of 1984 (WGS 84).
- The camera receives will receive GPS signals but may not display and record location information, due to environmental factors.
- The camera may consume more battery power when the GPS feature is active.
- 73 nations support the GPS feature including Canada, China, France, Germany, Great Britain, India, Italy, South Korea, Spain, and the United States. In China, you can receive GPS signals only for cameras purchased in China.

# Recording a video

Record videos of up to 20 minutes in length in high definition. The recorded video is saved as an H.264 (MPEG-4.AVC) file.



- H.264 (MPEG-4 part10/AVC) is a high-compression video format established by international standard organisations ISO/IEC and ITU-T.
- When the Optical Image Stabilisation ((a)) is activated, your video may be recorded with the OIS operation sound.
- 1 In Shooting mode, select  $\bigcirc$   $\rightarrow$   $\square$ .
- 2 Select  $\triangle \rightarrow \stackrel{30}{\cancel{\smile}} \rightarrow$  a frame rate (the number of frames per second).
  - As the number of frames increases, action appears more natural, but the file size is increased.





50 is available only when the video resolution is 320 X 240.

3 Select  $\triangle \rightarrow \triangleright \rightarrow \bigcirc \rightarrow$  a sound option.

Option	Description
<b>E</b>	Off: Record a video without sound.
•	On: Record a video with sound.

- 4 Set other options as desired. (For options, refer to "Shooting options.")
- 5 Press [Shutter] to start recording.
- 6 Press [Shutter] again to stop recording.

#### To pause recording

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

Select 

I to pause while recording. Select 

to resume.



# **Recording voice memos**



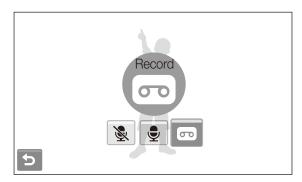
Learn how to record a voice memo that you can play back at any time. You can add a voice memo to a photo as a short reminder of shooting conditions.



You will get the best sound quality when recording 40 cm away from the camera.

### Recording a voice memo

1 In Shooting mode, select  $\triangle \rightarrow \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ .

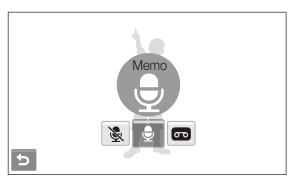


- 2 Press [Shutter] to record.
  - Select I I to pause and to resume.
  - The available recording time will be displayed on the top of the screen.
  - You can record voice memos of up to 10 hours in length.
- 3 Press [Shutter] to stop.
- 4 Select 

  to switch to Shooting mode.

# Adding a voice memo to a photo

1 In Shooting mode, select  $\triangle \rightarrow \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ .



- 2 Align your subject in the frame and take a photo.
  - You will begin recording a voice memo right after taking the photo.
- 3 Record a short voice memo (10 seconds maximum).
  - Press [Shutter] to stop recording a voice memo.

# **Shooting options**

Learn about the options you can set in Shooting mode.

Selecting a resolution and quality 42	Detecting eye blinking
Selecting a resolution	Using smart face recognition 53
Selecting image quality	Registering faces as your favourites
Using the timer	(My Star) 54
Shooting in the dark 46	Adjusting brightness and colour 56
Preventing red-eye	Adjusting the exposure manually (EV) 56
Using the flash	Compensating for backlighting (ACB) 57
Adjusting the ISO speed	Changing the metering option 58
Changing the camera's focus 48	Selecting a light source (White balance) 59
Using macro	Using burst modes
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Using macro	
Using macro	Improving your photos
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Using macro48Using auto focus48Using smart touch focus49Using one touch shooting50Adjusting the focus area50Using face detection51	Improving your photos62Applying photo styles62Defining your own RGB tone62

# Selecting a resolution and quality

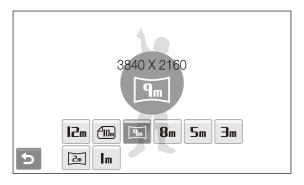
Learn how to change the image resolution and quality settings.

# Selecting a resolution 🔝 💿 🗞 SEER 🧤 🖴

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.

#### When taking a photo:

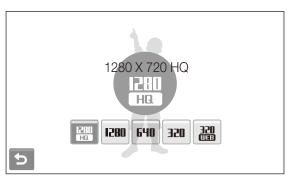
- 1 In Shooting mode, select  $\triangle \rightarrow \bigcirc \rightarrow \bigcirc$   $\bigcirc$  (In some modes, select  $\triangle \rightarrow \bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$  .)
- 2 Select an option.



Option	Description
12m	<b>4000 X 3000</b> : Print on A1 paper.
(IOm	<b>3984 X 2656</b> : Print on A2 paper in wide ratio (3:2).
<b>q</b> <sub>m</sub>	<b>3840 X 2160</b> : Print on A2 paper in panorama ratio (16:9) or play back on an HDTV.
8m	<b>3264 X 2448</b> : Print on A3 paper.
5m	2560 X 1920: Print on A4 paper.
3m	<b>2048 X 1536</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	<b>1024 X 768</b> : Attach to an email.

#### When recording a video:

- 1 In the  $\stackrel{\text{def}}{=}$  mode, select  $\triangle \rightarrow \stackrel{\text{def}}{=}$ .
- 2 Select an option.



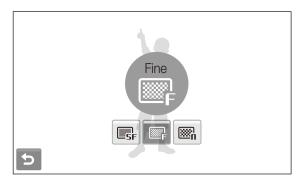
Option	Description
280 HQ	<b>1280 X 720 HQ</b> : Play back high-quality files on an HDTV.
1280	1280 X 720: Play back on an HDTV.
640	640 X 480: Play back on a general TV.
320	<b>320 X 240</b> : Post on a web page.
<b>320</b>	For Sharing: Post on a website using the wireless network (30 seconds maximum).

# 



Photos you take are compressed and saved in JPEG format. Higher quality images will result in larger sizes.

- 1 In Shooting mode, select  $\triangle \rightarrow \rightarrow \square$ F. (In some modes, select  $\triangle \rightarrow \blacksquare$ F.)
- 2 Select an option.

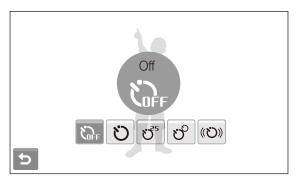


Option	Description
SF	Super Fine
<b>∭</b> F	Fine
<b>™</b> n	Normal

# Using the timer of some the same the sa

Learn how to set the timer to delay shooting.

- 1 In Shooting mode, select 🔭.
- 2 Select an option.



Option	Description
COFF	Off: The timer is not active.
C	10 Sec: Take a photo in 10 seconds.
ರ್⁵	2 Sec: Take a photo in 2 seconds.
ව	<b>Double</b> : Take a photo in 10 seconds and take another in 2 seconds.
<b>((ひ))</b>	Motion Timer: Detect your movement and then take a photo. (p. 45)

The options may differ depending on the shooting mode.

#### 3 Press [Shutter] to start the timer.

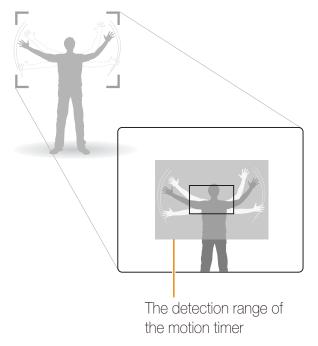
• The AF-assist light/timer lamp blinks. The camera will automatically take a photo at the specified time.



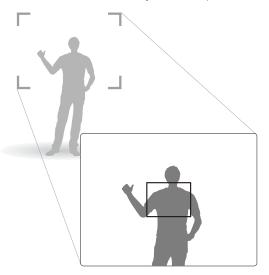
- Select the timer icon or press [Shutter] to cancel the timer.
- Depending on the selected face defection option, the timer is not available or some timer options are not available.

#### Using the motion timer

- 1 In Shooting mode, select ເຖື
- 2 Press [Shutter].
- 3 Stand within 3 m from the camera within 6 seconds after pressing [Shutter].
- 4 Make a motion, such as waving your arms, to activate the timer.
  - The AF-assist light/timer lamp will start to blink rapidly when the camera detects you.



- 5 Pose for your photo while the AF-assist light/timer lamp is blinking.
  - The AF-assist light/timer lamp will stop blinking just before the camera automatically takes a photo.





The motion timer may not work when:

- you are more than 3 m away from the camera
- your movements are too subtle
- there is too much light or backlight

# Shooting in the dark

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

# 

If the flash fires when you take a photo of a person in the dark, a red glow may appear in the eyes. To prevent this, select **Red-eye** or **Red-eye Fix**.

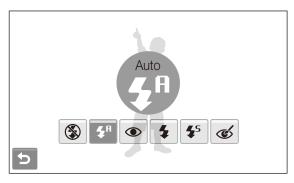




# Using the flash 🛕 🙃 🙃 SEEME

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

- 1 In Shooting mode, select 5<sup>n</sup>.
- 2 Select an option.



Option	Description
<b>\$</b>	<ul> <li>Off:</li> <li>The flash will not fire.</li> <li>Camera shake warning (□□□) will be displayed when shooting in low light.</li> </ul>
<b>4</b> A	Auto: The camera will select a proper flash setting for the detected scene in the mode.
<b>\$</b> <sup>8</sup>	<b>Auto</b> : The flash fires automatically when the subject or background is dark.

Option	Description
•	<ul> <li>Red-eye*:</li> <li>The flash fires when the subject or background is dark.</li> <li>The camera reduces red-eyes.</li> </ul>
4	<ul><li>Fill in:</li><li>The flash always fires.</li><li>Light intensity is adjusted automatically.</li></ul>
<b>4</b> 5	<ul> <li>Slow Sync:</li> <li>The flash fires and the shutter stays open longer.</li> <li>Select this when you want to capture ambient light to reveal more details in the background.</li> <li>Use a tripod to prevent your photos from blurring.</li> </ul>
Ć	<ul> <li>Red-eye Fix*:</li> <li>The flash fires when the subject or background is dark.</li> <li>The camera corrects red-eyes through its advanced software analysis.</li> </ul>

The options may differ depending on the shooting mode.

\* There is an interval between two bursts of the flash. Do not move until the flash fires a second time.



- Flash options are not available if you set burst options or select **Blink Detection** or **Self-Portrait**.
- Make sure that your subjects are within the recommended distance from the flash. (p. 121)
- If there is reflected light or much dust in the air, tiny spots may appear on your photo.

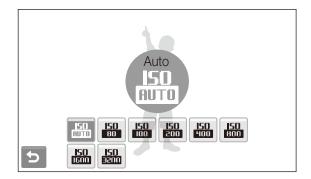
# Adjusting the ISO speed •

The ISO speed is the measure of a film's sensitivity to light as defined by the International Organisation for Standardisation (ISO). The higher ISO speed you select, the more sensitive to light your camera becomes. With a higher ISO speed, you can get a better

- 1 In Shooting mode, select  $\triangle \rightarrow \blacksquare$ .
- 2 Select an option.

photo without using the flash.

• Select to use an appropriate ISO speed based on the brightness of the subject and lighting.





The higher ISO speed you select, the more image noise you may get.

# Changing the camera's focus

Learn how to adjust the camera's focus according to your subjects.

# 



Use macro to take close-up photos of subjects, such as flowers or insects. Refer to macro options in "Using auto focus."



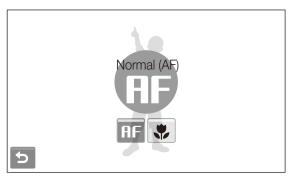


- Try to hold the camera very still to prevent blurry photos.
- Turn off the flash if the distance to the subject is less than 40 cm.

# 

To take sharp photos, select the appropriate focus according to your distance from the subject.

- In Shooting mode, select **AF**.
- Select an option.



Option	Description
AF	Normal (AF): Focus on a subject farther than 80 cm.
H	<b>Auto Macro</b> : Focus on a subject farther than 5 cm (farther than 50 cm when using zoom).
*	<b>Macro</b> : Focus on a subject 5 - 80 cm (50 - 80 cm when using zoom).

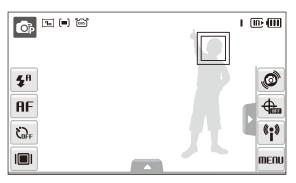
The options may differ depending on the shooting mode.

### Using smart touch focus of the state of the



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

- 1 In Shooting mode, select  $\triangle \rightarrow \blacksquare \rightarrow \blacksquare$ .
- Touch the subject you want to track in the touch area (indicated by a frame).
  - A focus frame will appear on the subject and will follow the subject as you move the camera.



- 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 centre of the screen.
- Tracking a subject may fail when:
  - the subject is too small or the subject moves
  - the subject is backlit or you are shooting in a dark place
  - colours or patterns on the subject and the background are the
  - the camera shakes excessively

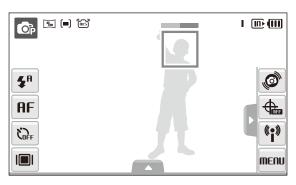
In these cases, the focus frame will appear as a white single-line frame.

- If the camera fails to track the subject, you must reselect the subject to track.
- If the camera fails to fix the focus, the focus frame will change to a red single-line frame.
- If you use this function, you cannot set face detection and photo style options.

# Using one touch shooting one sum when the same of the

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

- In Shooting mode, select  $\triangle \rightarrow \blacksquare \rightarrow \clubsuit$ .
- Touch a subject to focus.
- Touch and hold the subject to take the photo.
  - Touch and hold until the level indicator fills up.





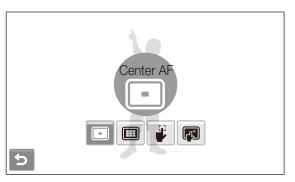
When you use face detection, you should touch and hold the image of detected face. If you touch and hold any other area, the frame to detect faces will change to a normal frame.

# 



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

- In Shooting mode, select  $\triangle \rightarrow \blacksquare$ .
- Select an option.



Option	Description
	Center AF: Focus on the centre (suitable when subjects are located in the centre).
	Multi AF: Focus on one or more of 9 possible areas.
<b>F</b>	One Touch Shooting: Focus on the subject by touching the image on the screen. Touch and hold the subject to take the photo.
( <del>/</del> t)	Smart Touch AF: Focus on and track the subject that you touch on the screen. (p. 49)

The options may differ depending on the shooting mode.

# 



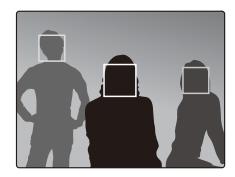
If you use face detection options, your camera can automatically detect a human face. When you focus on a human face, the camera adjusts the exposure automatically. Take photos quickly and easily by using Blink Detection to detect closed eyes or Smile Shot to capture a smiling face. You can also use **Smart Face Recognition** to register faces and prioritise the focus on them.



- In some scene modes, face detection is unavailable.
- 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 is in backlighting or the lighting condition is unstable
  - the subject's facial expression changes remarkably
- Face detection is not available when using a photo style.
- When you use the face detection option, the digital zoom will not work.
- Depending on the selected face defection option, the timer is not available or some timer options are not available.
- Depending on the selected face detection option, some burst options are not available.
- When you take 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. 68) Even though faces are registered successfully, they may not be classified in Playback mode.
- The detected face in Shooting mode may not appear in the face list or Smart Album.

# **Detecting faces**

Your camera automatically detects human faces (up to 10 human faces).



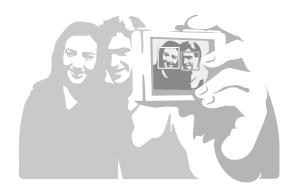
In Shooting mode, select  $\triangle \rightarrow \Re_{FF} \rightarrow \bigotimes$ . The nearest face appears in a white focus frame and the rest of the faces appear in gray focus frames.



- The closer you are to the subject, the quicker your camera will detect faces.
- If you want to focus faces in gray focus frames, touch them to focus.
- When you use the burst option, the detected faces may not be registered.

# Taking a self portrait shot

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



- 1 In Shooting mode, select  $\triangle \rightarrow \Re_{FF} \rightarrow \Im$ .
- 2 When you hear a quick beep, press [Shutter].

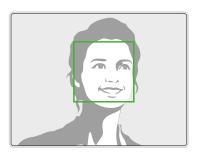


To turn the beep on or off, select **Self-Portrait** in the sound settings. (p. 109)

# Taking a smile shot

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





In Shooting mode, select  $\triangle \rightarrow \Re_{FF} \rightarrow \bigcirc$ . 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 take 2 photos in succession.



In Shooting mode, select  $\triangle \rightarrow \bigcirc_{FF} \rightarrow \square$ .



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

# Using smart face recognition

The camera automatically registers faces that you frequently photograph. This feature will automatically prioritise the focus on those faces and favourite faces. This feature is available only when you use a memory card.



In Shooting mode, select  $\triangle \rightarrow \bigcirc \blacksquare$ . The nearest face appears in a white focus frame and the rest of the faces appear in gray focus frames.

- \(\subseteq\) : Indicate favourite faces (To register favourite faces, see page 54).
- ullet Indicate faces that the camera automatically registers.

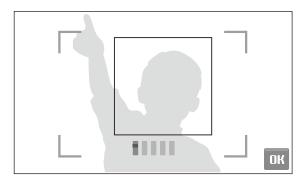


- The camera may recognise and register faces incorrectly depending on lighting conditions, remarkable changes in the subject's pose or face, and whether or not the subject is wearing glasses.
- The camera can automatically register up to 14 faces. If the camera recognises a new face when there are 14 registered faces, it will replace the face in the lowest priority with the new one.
- The camera can detect up to 10 faces and register 5 faces in one scene.

# Registering faces as your favourites (My Star)

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

- 1 In Shooting mode, select  $\triangle \rightarrow \Re_{FF} \rightarrow \& \uparrow$ .
- 2 Align your subject and press [Shutter] to register the face.
  - You can register up to 5 photos for one face. For better recognition of the face, take photos of the left, right, and front of the subject's face.



- 3 Select **DK** to register the face as one of your favourites.
- 4 Select when the face list appears.
  - Your favourite faces are indicated with a \*\pm on the face list.



- You can register up to 6 favourite faces.
- The flash option will be set to Off.
- If you register the same face twice, you can delete one of the faces in the face list.

#### Viewing your favourite faces

In Shooting mode, select  $\triangle \rightarrow \bigcirc \longrightarrow \bigcirc \longrightarrow$ 

• Select to change the ranking of your favourite faces.



See page 67 for more information about the face list.

# Adjusting brightness and colour

Learn how to adjust the brightness and colour 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.





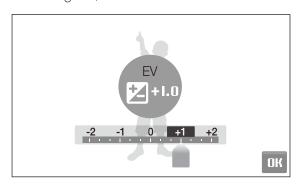


Darker (-)

Neutral (0)

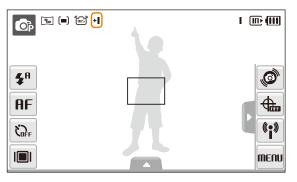
Brighter (+)

- 1 In Shooting mode, select  $\triangle \rightarrow \square$ .
- 2 Select a value to adjust the exposure.
  - +: brighter, -: darker



#### 3 Select **OK**.

• The adjusted exposure value will appear as shown below.





- Once you adjust the exposure, the setting will remain the same. 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 takes photos with different exposures: normal, underexposed, and overexposed. (p. 61)

# 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.

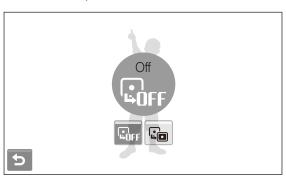




Without ACB

With ACB

- 1 In Shooting mode, select  $\triangle \rightarrow \rightarrow \bigcirc$   $\rightarrow \bigcirc$   $\rightarrow \bigcirc$  In Shooting mode, select
- 2 Select an option.



Option	Description
GOFF.	Off: ACB is off.
	On: ACB is on.

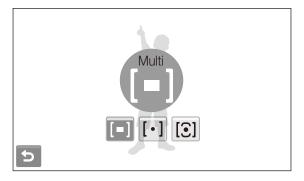


- The ACB feature is always on in the mode.
- This feature is not available when **Continuous**, **Motion Capture**, or **AEB** is in use.

# Changing the metering option of the metering

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, select  $\triangle \rightarrow \rightarrow [-]$ . (In the  $\bigcirc$  mode, select  $\triangle \rightarrow [-]$ .)
- 2 Select an option.



Option	Description
[=]	<ul> <li>Multi:</li> <li>Your camera divides the scene into several areas, and then measures the light intensity of each area.</li> <li>Suitable for general photos.</li> </ul>

Option	Description
[•]	<ul> <li>Spot:</li> <li>Your camera measures only the light intensity of the very centre of the frame.</li> <li>If a subject is not in the centre of the scene, your photo may be improperly exposed.</li> <li>Suitable for a subject with backlighting.</li> </ul>
[3]	<ul> <li>Center-weighted:</li> <li>Your camera averages the meter reading of the entire frame with emphasis placed on the centre.</li> <li>Suitable for photos with subjects in the centre of the frame.</li> </ul>

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

The colour of your photo depends on the type and quality of the light source. If you want the colour of your photo to be realistic, select an appropriate lighting condition to calibrate the white balance, such as Auto WB, Daylight, Cloudy, or Tungsten.









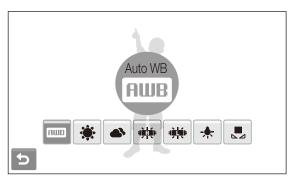




Cloudy

- Tungsten

- 1 In Shooting mode, select ▲ → RUB.
- 2 Select an option.

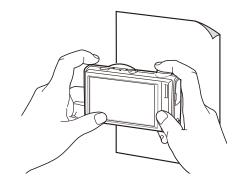


Icon	Description
АШВ	<b>Auto WB</b> : Use automatic settings depending on the lighting conditions.
*	<b>Daylight</b> : Select when taking outdoor photos on a sunny day.
	<b>Cloudy</b> : Select when taking outdoor photos on a cloudy day or in shadows.
1	Fluorescent_H: Select when shooting under a daylight fluorescent or three-way fluorescent light.
1	Fluorescent_L: Select when shooting under white fluorescent light.
- <b>.</b>	<b>Tungsten</b> : Select when taking indoor photos under incandescent bulbs or halogen lamps.
	Custom Set: Use your pre-defined settings. (p. 60)

#### Defining your own white balance

You can customise the white balance by taking photos of a white surface, such as a piece of paper. This will help you to match the colours in your photo with the actual scene according to your lighting condition.

- 1 In Shooting mode, select  $\triangle \rightarrow \blacksquare \blacksquare \blacksquare \rightarrow \blacksquare$ .
- 2 Aim the lens at a piece of white paper.



3 Press [Shutter].

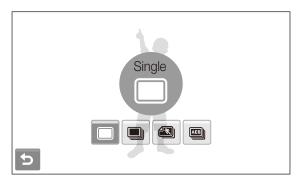
# **Using burst modes**



It can be difficult to take 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.



- 1 In Shooting mode, select  $\triangle \rightarrow \rightarrow \rightarrow \blacksquare$ .
- 2 Select an option.



Option	Description
	Single: Take a single photo.
	<ul> <li>Continuous:</li> <li>While you are pressing [Shutter], the camera takes photos continuously.</li> <li>The maximum number of photos depends on the capacity of your memory card.</li> </ul>

Option	Description
	Motion Capture: While you are pressing [Shutter], the camera takes VGA photos (6 photos per second; maximum of 30 photos).
	<ul> <li>AEB:</li> <li>Take 3 photos with different exposures: normal, underexposed, and overexposed.</li> <li>Use a tripod to prevent blurry photos.</li> </ul>

The options may differ depending on the shooting mode.



- You can use the flash and timer and ACB only when you select **Single**.
- When you select **Motion Capture**, the resolution will be set to VGA and the ISO speed will be set to **Auto**.
- Depending on the selected face detection option, some burst options are not available.

# Improving your photos

Learn how to improve your photos by applying photo styles or colours, or make some adjustments.

### Applying photo styles on the sum of the sum



Apply different styles to your photos, such as Soft, Vivid, or Forest.





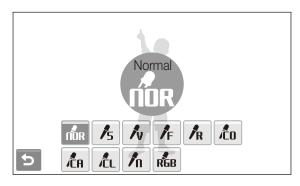


Soft

Vivid

Forest

- In Shooting mode, select  $\triangle \rightarrow >$  (once or twice)  $\rightarrow$  nor.
- 2 Select an option.
  - Select RGB to define your own RGB tone.

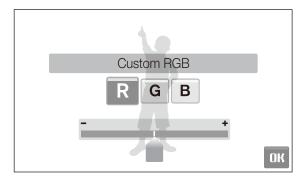




Depending on the selected photo style, you may not set the face detection and image adjustment options.

# Defining your own RGB tone

- In Shooting mode, select  $\triangle \rightarrow >$  (once or twice)  $\rightarrow$  nor → RER.
- Select a colour (R: Red, G: Green, B: Blue).
- Adjust the amount of the selected colour.

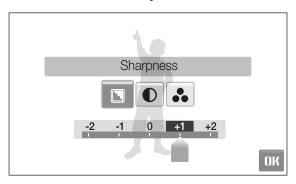


Select **DK**.

# Adjusting your photos •

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

- 1 In Shooting mode, select  $\triangle \rightarrow$  (twice)  $\rightarrow \blacksquare$ .
- 2 Select an adjustment option.
  - E: Sharpness
  - **O**: Contrast
  - 🌲: Saturation
- 3 Select a value to adjust the selected item.



Sharpness option	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 option	Description
-	Decrease the colour and brightness.
+	Increase the colour and brightness.
Saturation option	Description
-	Decrease the saturation.
+	Increase the saturation.



Select **0** if you do not want to apply any effects (suitable for printing).

# 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 photo printer, TV, or HDTV.

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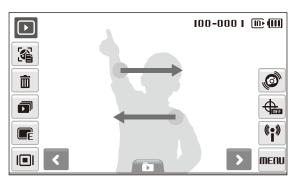
# **Playing back**

Learn actions to play back photos, videos, or voice memos, and managing files.

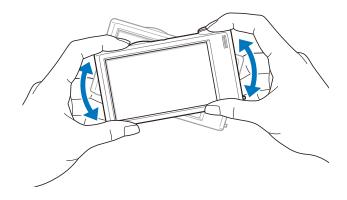
# Starting Playback mode

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

- 1 Press [▶].
  - The most recent file you have taken or recorded will be displayed.
  - If the camera is off, it will turn on.
- 2 Draw a horizontal bar left or right to scroll through files.
  - Select \( \) to view the previous file. Hold to view files quickly.
  - Select > to view the next file. Hold to view files quickly.



You can also view files by tilting the camera.
 (Motion recognition may not work well if you hold the camera parallel to the ground.)



To deactivate this function, select METU → ➤ → Gesture
 View → Off in Playback mode.



- If you want to view files stored in the internal memory, remove your memory card.
- The camera will not properly play back files that are too large or those taken with cameras from other manufacturers.

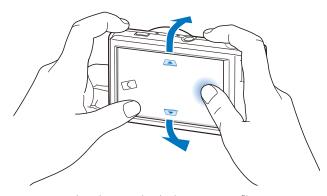
#### Selecting a menu using motion recognition

Your camera features a built-in motion sensor that allows you to quickly select a menu by tilting the camera.

In Playback mode, tilt the camera while touching and holding ...

Set the current photo as your favourite photo\*

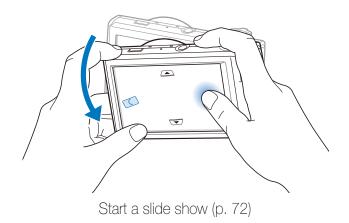
( will appear on the top of the file.)

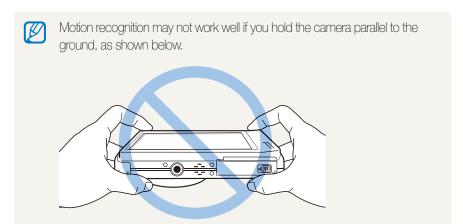


Lock or unlock the current file (mo will appear on the top of the file.)

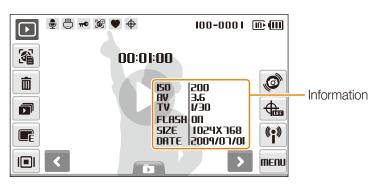


- \* You cannot set files as favourites for:
- videos or voice memos
- photos with errors or locked photos
- photos taken with cameras from other manufacturers
- photos taken using the motion capture option set
- photos that are too large for the available memory





#### Display in Playback mode



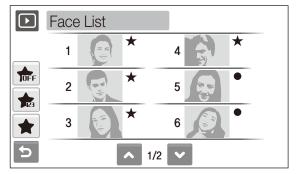
Icon	Description
•	Photo includes a voice memo
00	Video file
	Print order has been set (DPOF)
π€	Protected file
	Photo includes a registered face; Available only when you use a memory card
•	Favourite file
<del>+</del>	Photo includes location information
100-0001	Folder name – File name
	Open the face list (p. 67); Available only when you use a memory card
â	Delete files (p. 70)
	Play a slide show (p. 72)
	Edit photos (p. 76)

Icon	Description
	Select a display type (p. 24)
	Select a menu using motion recognition (p. 66)
	Set GPS options and view signal status (p. 36)
(°i))	Use network menus and the Bluetooth feature (p. 91)
MENU	Playback and settings menus
00:01:00	Playback time of videos or voice memos
0	Play videos or voice memos (Video p. 73/Voice memo p. 74)

#### Ranking your favourite faces

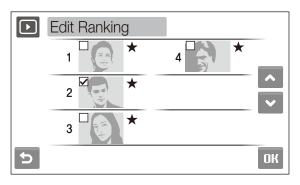
You can change the ranking of your favourite faces or delete them. This feature is available only when you use a memory card.

1 In Playback mode, select 3.



- Select to cancel your favourite faces.
- Select 
  to view your favourite faces or view all faces.

2 Select  $\Rightarrow$  a face.

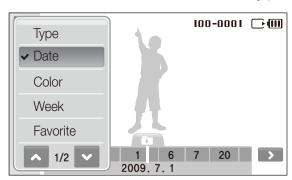


3 Select ∧ or ∨ to change the ranking of the face and select **□K**.

#### Viewing files by category in Smart Album

View and manage files by categories, such as date, file type, or week.

- 1 In Playback mode, select → DATE → a category.
  - You can also access Smart Album by pushing [Zoom] left.



Option	Description	
Туре	View files by the file type.	
Date	View files by the date they were saved.	
Color	View files by the dominant colour of the image.	
Week	View files by the weekday they were saved.	
Favorite	View your favourite files.	
Location	View files by recorded location information	
Face	View files by recognised faces and favourite faces. (Up to 20 people)	



It may take some time for the camera to open Smart Album or to change the category and reorganise files.

- 2 Select a date, file type, weekday, colour, location, or face.
- 3 Select ✓ or ➤ to scroll through files.
- 4 Select to return to the normal view.



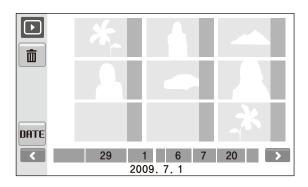
Once you select a category and a menu that displays thumbnails (such as deleting multiple files or protecting selected files), the camera will display all files sorted by category or only those that match the category option.

#### Viewing files as thumbnails

Scan thumbnails of files.



In Playback mode, push [**Zoom**] left to display 9 or 16 thumbnails (push [**Zoom**] right to return to the previous mode).



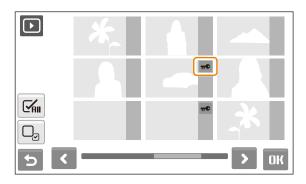
То	Do this
Scroll through files	Select <b>&lt;</b> or <b>&gt;</b> .
View a file	Select a thumbnail.
Delete files	Select <b>m</b> or drag a file to <b>m</b> . (p. 70)
Select a category	Select DATE.

#### Protecting files

Protect your files from accidental deletion.

#### To select and protect files,

- 1 In Playback mode, select **MEIIU**.
- Select Protect → Select.
- 3 Select files you want to protect.
  - Select no select all files.



4 Select OK.

#### To protect all files,

- 1 In Playback mode, select **MENU**.
- 2 Select Protect → All → Lock.

#### Deleting files

Delete single files or all files at once. You cannot delete protected files.

#### To delete a single file,

- 1 In Playback mode, select a file  $\rightarrow \hat{\mathbf{m}}$ .
- Select Yes to delete the file.

#### To delete multiple files,

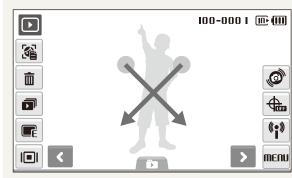
- 1 In Playback mode, select m → Multiple Delete.
- 2 Select files you want to delete.
  - Select to select all files on the current screen.
  - Select 🕎 to cancel your selection.
- 3 Select  $\mathbf{D}\mathbf{K} \to \mathbf{Yes}$ .

#### To delete all files,

- 1 In Playback mode, select **METU**.
- 2 Select Delete → All → Yes.

#### Alternate way to delete a file

While viewing a file in Playback mode, draw an X on the screen.



#### Using the recycle bin

If you activate the recycle bin, files you delete will be sent to the recycle bin instead of being deleted permanently. This applies to single files or selected files only—if you choose to delete all files, those files will not be sent to the recycle bin.

#### To activate the recycle bin,

- 1 In Playback mode, select **MENU**.
- 2 Select **Recycle Bin** → **On**.

#### To restore files from the recycle bin,

- 1 In Playback mode, select **MENU**.
- 2 Select Recycle Bin → Retrieve.



- This function does not work for videos or voice memos.
- It may take longer to delete files when using the recycle bin function.
- If you format the internal memory, all files in the recycle folder will be deleted.
- The recycle bin will hold up to 10 MB of files. Once you exceed the 10 MB limit, the camera asks you whether to empty the recycle bin.
   Select Yes to empty the recycle bin or No to delete only the current file.

#### Copying files to the memory card

You can copy files from the internal memory to a memory card.

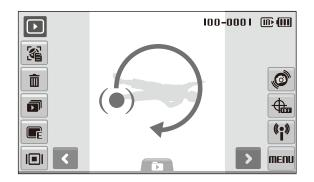
- 1 In Playback mode, select **MENU**.
- 2 Select → Copy to Card.
- 3 Select **Yes** to copy files.

# Viewing photos

View a photo by changing the orientation by gesture or zooming in on part of a photo or view photos as a slide show.

#### Rotating a photo by gesture

While viewing a single file, drag your finger as shown below to rotate the photo 90°.



#### Viewing files by rotating the photo automatically

You can view vertical photos in landscape view without rotating your camera. Vertical photos will be automatically rotated to an upright position in landscape view once you set this option and take vertical photos.

#### To activate the automatic rotation,

- 1 In Shooting or Playback mode, select  $\mathbf{MEIU} \rightarrow \mathbf{\diamondsuit} \rightarrow \mathbf{v}$ .
- 2 Select Auto Rotate → On.
- 3 Select **5**.



This option may not be effective for:

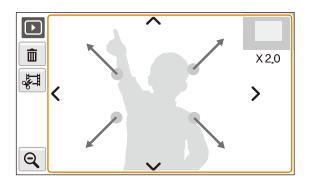
- photos taken when you hold the camera parallel to the ground
- photos taken with the motion capture option set
- videos

#### Enlarging a photo



In Playback mode, push [**Zoom**] right to enlarge a photo (push [**Zoom**] left to reduce a photo).

The enlarged area and zoom ratio are indicated on the top of the screen. The maximum zoom ratio may vary depending on the resolution. Select arrows or draw a diagonal to move the enlarged area.



Icon	Description	
Î	Delete the file.	
	Crop the enlarged photo (it will be saved as a new file).	
Q	Go back to the original view.	

#### Starting a slide show

You can apply effects and audio to your slide show. This function does not work for videos or voice memos.

- 1 In Playback mode, select 1.
- 2 Set a slide show effect.



Option	Description
	Images: Select photos (up to 2.000) for your slide show.
$\rightarrow$	<b>Play Mode</b> : Select whether or not to loop the slide show.
đ	<ul> <li>Interval: Set the interval between photos.</li> <li>This will be available when \$\overline{\tau_F}_F\$ is selected in the Effect menu.</li> <li>When used with an effect option other than \$\overline{\tau_F}_F\$, the interval will be set to 1 sec.</li> </ul>
OFF	Music: Select background audio.
₩	<ul> <li>Effect:</li> <li>Select a transition effect.</li> <li>Select ★F for no effects.</li> </ul>

### 3 Select **t** to start the slide show.

- Touch on the screen (except for option icons) to pause the slide show.
- Select **5** to switch to Playback mode.

### Playing a video

You can play a video, capture an image from a video, or crop a video.

- 1 In Playback mode, select a video  $\rightarrow$  **①**.
- 2 Use the following icons to control playback.



Icon	Description
44	Scan backward.
/ ▶	Pause or resume playback.
	Stop playback.
<b>&gt;&gt;</b>	Scan forward.
<b>4</b> ))	Adjust volume or mute sound.

#### Trimming a video during playback

- 1 Select 11 at the point where you want the new video to begin and select 4.
- 2 Select ▶ to resume playback.
- 3 Select at the point where you want the new video to end and select .
- 4 Select Yes.



- The original video should be at least 10 seconds long.
- The edited video will be saved as a new file.

### Capturing an image during playback

- 1 Select I at the point where you want to save a still image.
- 3 Select Yes.



A captured image will have the same file size as the original video file and will be saved as a new file.

### Playing a voice memo

### Playing a voice memo

- 1 In Playback mode, select a voice memo → **①**.
- 2 Use the following icons to control playback.



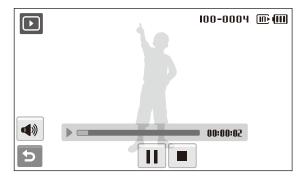
Icon	Description
44	Scan backward.
<b>  </b> /	Pause or resume playback.
	Stop playback.
<b>&gt;&gt;</b>	Scan forward.
<b>4</b> ))	Adjust volume or mute sound.

### Adding a voice memo to a photo

- 1 In Playback mode, select a photo → **MENU**.
- 2 Select Voice memo → On.
- 3 Press [Shutter] to record a short voice memo (10 seconds maximum).
  - Press [Shutter] to stop recording a voice memo.

### Playing a voice memo added to a photo

- 1 In Playback mode, select a photo that includes a voice memo → .
- 2 Use the following icons to control playback.



Icon	Description	
<b>  </b> / <b> </b>	/ Pause or resume playback.	
	Stop playback.	
<b>4</b> ))	Adjust volume or mute sound.	

### **Editing a photo**

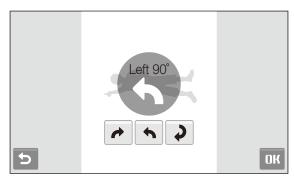
Perform photo editing tasks, such as rotating, resizing, eliminating red-eyes, and adjusting brightness, contrast, or saturation.



- Edited photos will be saved as new files.
- When you edit photos that are **8m** or larger, they will be automatically resized to a lower resolution (except when rotating or resizing photos).

### Rotating a photo

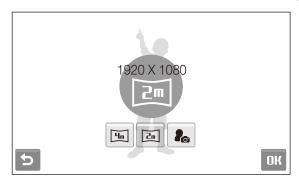
- 1 In Playback mode, select a photo → F.
- 2 Select  $\bigcirc$   $\rightarrow$  an option.



3 Select **OK**.

### Resizing photos

- 1 In Playback mode, select a photo → Fe.
- 2 Select  $\longrightarrow$  an option.
  - Select **a** to save the photo as a start image. (p. 109)



3 Select **OK**.



Available options differ depending on the size of the selected photo.

### Editing colour

Apply a different colour tone to the photo, such as Soft, Vivid, or Forest.





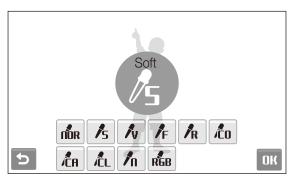


Soft

Vivid

Forest

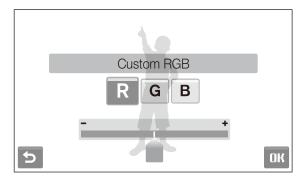
- 1 In Playback mode, select a photo → F.
- 2 Select 
  → an option.
  - Select RGB to define your own RGB tone.



3 Select **OK**.

### Defining your own RGB tone

- 1 In Playback mode, select a photo  $\rightarrow \blacksquare \rightarrow 4 \rightarrow 6$ .
- 2 Select a colour (R: Red, G: Green, B: Blue).
- 3 Adjust the amount of the colour.

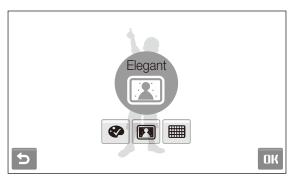


4 Select OK.

### Applying a special effect

Apply special effects to the photo, such as colour filters or noise effects.

- 1 In Playback mode, select a photo → F.
- 2 Select  $\cancel{a}$   $\rightarrow$  an option.



Option	Description
<b>②</b>	Colour Filter: Change background colours to black and white to make the main subject stand out.
	<b>Elegant</b> : Apply effects to the photo to make it brighter and softer.
	Add Noise: Add noise to the photo to give it an aged look.

3 Select **OK**.

### Correcting exposure problems

Adjust ACB (Auto Contrast Balance), brightness, contrast, or saturation.

### Adjusting an image

- 1 In Playback mode, select a photo → F.
- 2 Select <u>—</u> → an adjustment option.
  - Brightness
  - D: Contrast
  - &: Saturation
- 3 Select a value to adjust the selected item. (-: less or +: more)
- 4 Select **OK**.

### Adjusting ACB (Auto Contrast Balance)

- 1 In Playback mode, select a photo → F.
- 2 Select  $\square \rightarrow \square$ .
- 3 Select **OK**.

### Editing photos of portraits

You can improve your photos by hiding facial imperfections and removing red-eye or you can apply effects for fun. These effects are only available for portraits.







Snow

Mosaic

Highlight

#### Hiding imperfections

- 1 In Playback mode, select a photo → **E**.
- 2 Select ♥ → \*/.
- 3 Select a level.
  - As the number increases, more imperfections are hidden.
- 4 Select **OK**.

#### Removing red-eye

- 1 In Playback mode, select a photo → **E**.
- 2 Select ♥ → .
- 3 Select **OK**.

### Applying snow effect

- 1 In Playback mode, select a photo → F.
- 2 Select ♥ → \*.
  - Snow falls around the subjects.
- 3 Select II to stop snowing and select OK.

### Applying fun effects

- 1 In Playback mode, select a photo → **E**.
- 2 Select  $\rightarrow \mathbb{R}$  or  $\blacksquare$ .
  - Your camera automatically detects faces.

Option	Description	
	Mosaic: Apply mosaic effects to the detected faces.	
	Highlight: Make the background blurry to draw attention to the main subject.	

- 3 Select a detected face and select .
- 4 Select 📆.



- If you select or effect, the camera will detect up to 20 faces.
- You can use the \* effect even if the photo does not include people.

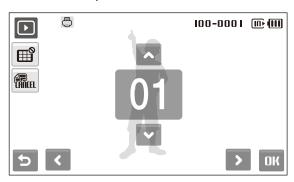
### Creating a print order (DPOF)

Select photos to be printed and set options, such as number of copies or paper size.



- The memory card can be taken to a print shop that supports DPOF (Digital Print Order Format) or you can print photos directly through a DPOF-compatible printer at home.
- Wide photos may print with the left and right edges cut off, so be aware of the dimensions of your photos.
- You cannot set the DPOF for the photos stored in the internal memory.
- 1 In Playback mode, select **MEIIU**.
- Select → DPOF → Select.
  - To print all files, select All and skip to step 5.
- 3 Select photos to print.
  - Select In to select all files.
  - Select 🖳 to cancel your selection.
- 4 Select **OK**.

5 Set DPOF options.



Option	Description
	Select whether to print the photos as thumbnails. (Select to print photos as thumbnails.)
CANCEL	Specify the size of the print.

- 6 Select or to set the number of copies.
- 7 Select **OK**.

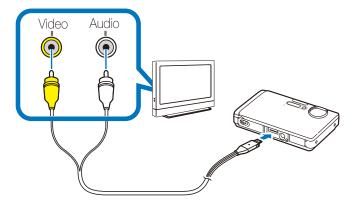


If you specify the print size, you can print photos only with DPOF 1.1-compatible printers.

### Viewing files on a TV or HDTV

Play back photos or videos by connecting your camera to a TV using the A/V cable.

- 1 In Shooting or Playback mode, select **METU** → .
- 2 Select **∨** (twice) → **Video Out**.
- 3 Select a video signal output according to your country or region. (p. 111)
- 4 Turn off your camera and TV.
- 5 Connect your camera to your TV using the A/V cable.



- 6 Turn on your TV and select the video output mode using the TV remote control.
- 7 Turn on your camera and press [▶].

- 8 View photos or play videos using the touch screen on your camera.
  - The touch screen will function as the controller for the TV screen. Locate the option you want on the TV screen and touch where the option is located on the camera screen. When a pointer appears on the option on the TV screen, select **DK** on the camera screen.

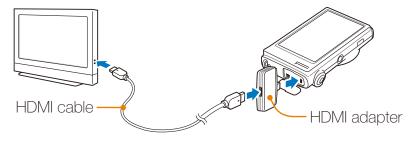


- On some TVs, digital noise may occur or part of an image may not appear.
- Images may not appear centred on the TV screen depending on your TV settings.
- You can capture photos or videos while the camera is connected to a TV.

### Viewing files on an HDTV

You can view high-quality and uncompressed photos or videos on an HDTV using the optional HDMI adapter and cable. HDMI (High Definition Multimedia Interface) is supported by most HDTVs. For details, see the HDMI Kit manual.

- 1 In Shooting or Playback mode, select **MEΠU** → **♦**.
- 2 Select **∨** (twice) → **HDMI Size**.
- 3 Select an HDMI resolution.
- 4 Turn off your camera and HDTV.
- 5 Connect your camera to your HDTV using an optional HDMI adapter and cable.



- 6 Turn on your camera.
  - The HDTV will be powered on automatically and the camera screen will be displayed.
- 7 View files using a remote control of your camera or HDTV.



If your HDTV supports the Anynet+(CEC) profile, turn the Anynet+ on in the settings menu (p. 111) to control all connected Samsung AV devices with the TV remote control.

### **Transferring files to your computer (for Windows)**

Transfer files to your computer using the built-in Intelli-studio program. You can also edit files or upload files to your favourite websites.

### Requirements for Intelli-studio

Item	Requirements	
CPU	Intel Pentium 4, 3.2 GHz or higher/AMD Athlon 64FX, 2.6 GHz or higher	
RAM	Minimum 512 MB RAM (1 GB and above recommended)	
OS	Windows XP SP2, Vista	
Hard disk capacity	250 MB or more (1 GB or more recommended)	
Others	<ul> <li>DC-ROM driver</li> <li>64 MB or greater video card (nVIDIA Geforce 7600GT or higher/ATI X1600 series or higher recommended)</li> <li>1024 X 768 pixels, 16-bit colour display compatible monitor (1280 X 1024 pixels, 32-bit colour display recommended)</li> <li>USB port Microsoft Direct X 9 0c or later</li> </ul>	
	USB port, Microsoft DirectX 9.0c or later	



- Intelli-studio may not perform correctly on some computers, even when the computer meets the requirements.
- If your computer does not meet the requirements, videos may not play correctly or it may take longer to edit videos.
- Install DirectX 9.0c or above before you use the program.
- You must use Windows 2000/XP/Vista or Mac OS 10.3 or later to connect the camera as a removable disk.



Using a self-assembled PC or a PC and OS that are not supported may void your warranty.

### Transferring files using Intelli-studio

Intelli-studio will start automatically when you connect the camera to your computer with the USB cable.

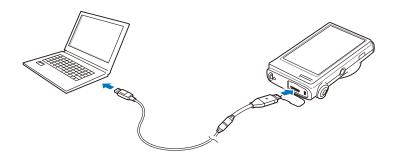


The battery will be charged while the camera is connected to a computer with the USB cable.

- 1 In Shooting or Playback mode, select **MEΠU** → **♦**.
- 2 Select  $\checkmark$  (twice)  $\rightarrow$  PC Software  $\rightarrow$  On.
- 3 Turn off the camera.
- 4 Connect the camera to your computer with the USB cable.



You must plug the end of the cable with the indicator light ( $\triangle$ ) into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.



- 5 Turn on the camera.
  - The computer recognises the camera automatically.
- 6 Select a folder on your computer to save new files.
  - If your camera has no new files, the pop-up window for saving new files will not appear.
- 7 Select Yes.
  - New files will be transferred to the computer.



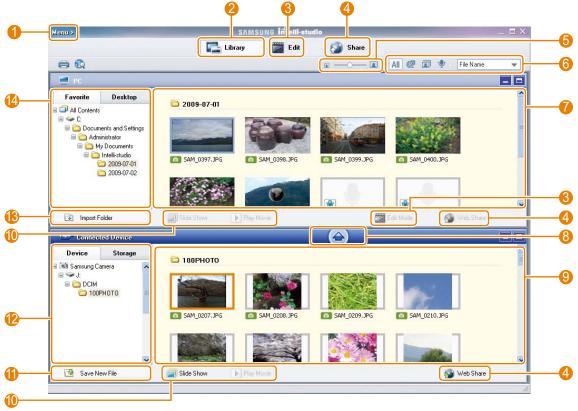
For Windows Vista, select Run iStudio.exe from the AutoPlay window.

#### Using Intelli-studio

Intelli-studio is a built-in program that allows you to play back and edit files. You can also upload files to websites, such as Flickr or YouTube. For details, select **Menu**  $\rightarrow$  **Help** in the program.



- If you install Intelli-studio on your computer, the program will launch more quickly. To install the program, select Menu → Install Intelli-studio on PC.
- You cannot edit files directly on the camera. Transfer files to a folder on your computer before editing.
- You cannot copy files in your computer to the camera.
- Intelli-studio supports the following formats:s
  - Videos: MP4 (Video: H.264, Audio: AAC), WMV (WMV 7/8/9)
  - Photos: JPG, GIF, BMP, PNG, TIFF



Playback/Editing 85

Icon	Description
0	Open menus
2	Display files in the selected folder
3	Change to the Edit mode
4	Change to the Sharing mode (You can send files by email or upload files to websites, such as Flickr or YouTube.)
6	Enlarge or reduce the thumbnails in the list
6	Select a file type or a category
7	View files of the selected folder on your computer
8	Copy files to the computer
9	View files of the selected folder on the camera
10	View photos in a slide show/Play videos
•	Copy new files to your computer
12	Browse folders in the connected device
13	Select folders of your computer
14	Browse folders in your computer

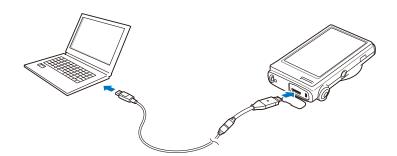
## Transferring files by connecting the camera as a removable disk

You can connect the camera to your computer as a removable disk.

- 1 In Shooting or Playback mode, select **MEΠU** → **♦**.
- 2 Select (twice) → PC Software → Off.
- 3 Connect the camera to your computer with the USB cable.



You must plug the end of the cable with the indicator light  $(\triangle)$  into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.



- 4 Turn on the camera.
  - The computer recognises the camera automatically.



If the camera fails to connect, a pop-up window will appear. Select **Computer**.

- 5 On your computer, select My computer → Removable Disk → DCIM → 100PHOTO.
- 6 Select the files you want and drag or save them to your computer.

### Disconnecting the camera (for Windows XP)

The way to disconnect the USB cable for Windows 2000/Vista is similar.

- 1 If the status lamp on your camera is blinking, wait until it stops.
- 2 Click son the tool bar at the bottom right of your PC screen.



- 3 Click the pop-up message.
- 4 Remove the USB cable.



The camera may not be removed safely when Intelli-studio is running. End the program before disconnecting the camera.

### Transferring files to your computer (for Mac)

When you connect the camera to a Macintosh computer, the computer will recognise the device automatically. You can transfer files directly from the camera to the computer without installing any programs.

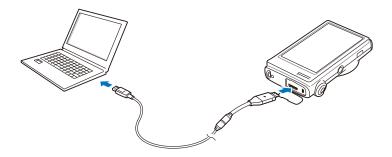


Mac OS 10.3 or later is supported.

1 Connect your camera to a Macintosh computer with the USB cable.



You must plug the end of the cable with the indicator light  $(\triangle)$  into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.

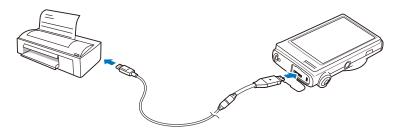


- 2 Turn on the camera.
  - The computer recognises the camera automatically and a removable disk icon will be displayed.
- 3 Double-click the removable disk icon.
- 4 Transfer photos or videos to the computer.

### Printing photos with a photo printer (PictBridge)

Print photos with a PictBridge-compatible printer by connecting your camera directly to the printer.

With the printer on, connect your camera to the printer with the USB cable.

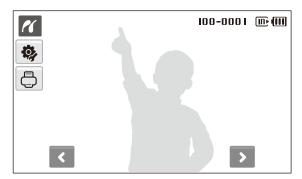


- 2 Turn on your camera.
  - The printer recognises the camera automatically.



- If the camera fails to connect, a pop-up window will appear. Select **Printer**.
- If your printer has the mass storage feature, you must first set the USB mode to **Printer** in the settings menu. (p. 112)

- 3 Select ⊕ to print.
  - Select to set printing options. See "Configuring print settings" on page 90.



4 Select an option.

Option	Description
Current Photo	Print the currently selected photo. Skip to step 6.
Selected Photos	Print the photos you want.
All Photos	Print all photos. Skip to step 6.

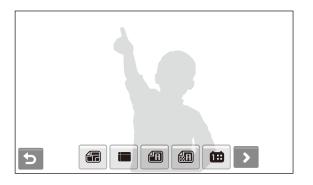
- 5 Select **<** or **>** to scroll to a photo to print.
- 6 Select or to set the number of copies and select **OK**.
  - If you selected to print the photos you want, repeat steps 5-6 for all photos to print.
- 7 Select **Yes** to confirm.
  - Printing starts. Select **Cancel** to cancel printing.

Option	Description
Œ	Date: Set to print the date.
	File Name: Set to print the name of the file.
2	Reset: Reset the print options.



Some options are not supported by some printers.

### Configuring print settings



Option	Description
	Size: Specify the size of the print.
	Layout: Create thumbnail prints.
	Type: Select the type of paper.
<b>Æ</b>	Quality: Set the printing quality.

# Wireless network/Bluetooth

Learn to use several functions using wireless local area networks (WLANs) and the Bluetooth feature.

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### Connecting to a WLAN and configuring network settings

Learn to connect via an access point (AP) when you are in a range of a WLAN. You can also configure network settings and learn how to enter text.

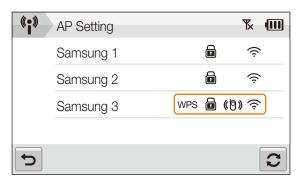


This camera uses non-harmonised frequencies and is intended for use in all European countries.

The WLAN can be operated indoors in the EU without restriction, but cannot be operated outdoors in France.

### Connecting to a WLAN automatically

- 1 In Shooting or Playback mode, select (\*) → .
- 2 Select AP Setting.
  - The camera will search for and display available AP devices.
- 3 Select an AP device.



Icon	Description
WPS	WPS AP
	Secured AP
(Ø)	Ad hoc AP
<u>\$</u>	Signal strength

- The camera will connect to the WLAN.
- If the selected AP device supports the WPS profile, select WPS on the next screen and press the WPS button or enter a PIN on the AP device. You can configure the WPS setting to press the WPS button or enter a PIN on to the AP device. (p. 96)
- If the selected AP device requires a password, continue with the next step.

### Select network profiles and options.

Option	Description
Authentication	Select a network authentication.
Data Encryption	Select an encryption type.

- 5 Select the password input field.
- 6 Enter a password and select **OK**.
  - For information about entering text, refer to page 96.

#### 7 Select OK.

- The camera will connect to the WLAN.
- On the top line of the screen, you can check the network signal status.

Icon	Description
Y	Signal is found.
\	No signal is found.



- Some AP devices will not allow your camera to connect to the network.
- If you are far from the AP device, it may take long to connect to the network.
- If there is any electronic equipment nearby that uses the same radio frequency (RF) signals, the camera may not connect to the AP device.
- If the AP device has a non-English name, it may not appear in the search list or the name may appear jumbled or incomplete.
- For network profiles and a password, contact your network administrator or network service provider.
- If the network requires any authentication from the service provider, you may not connect to it. Contact your network service provider.
- The number of characters and numbers allowed for the encryption key differs depending on the encryption type.
- A WLAN connection may not be possible depending on your surroundings.
- When searching for networks, you may be able to find a printer that supports the network. However, you cannot use the printer to connect to a network.
- The camera cannot connect to the network if it is connected to a TV with the AV cable. Also, when the camera is connected to the network, you cannot view photos on a TV screen even when connected with the AV cable.
- When connecting to the network, you will be charged according to your contract with your network service provider.
- You can use only free WLANs with your camera. If you use free WLANs that require the user agreement and additional information when you connect to a web browser, some features may be limited when connecting to websites or sending email.
- Frequency ranges allow you to connect to the network will differ depending on the country.
- The WLAN feature of your camera must comply with radio transmission laws, so use of this feature may be restricted in some countries. We recommend that you use the WLAN feature in the country where you purchased the camera.

### Connecting to a WLAN manually

- 1 In Shooting or Playback mode, select (\*) → .
- 2 Select AP Setting.
  - The camera will search for and display available AP devices.
- 3 Select an AP device.
- 4 Select IP Setting → Manual.
- 5 Select the network profiles.

Option	Description
IP	Enter the static IP address.
Subnet Mask	Enter the subnet mask.
Gateway	Enter the gateway.
DNS	Enter the DNS address.

- 6 Enter values and select **OK**.
- When you are finished, select **OK**.
  - The camera will connect to the WLAN.



- For network profiles and a password, contact your network administrator or network service provider.
- Methods of configuring the network profiles may differ depending on the network environment.
- Do not access a network that you are not allowed to use.
- Use a fully charged battery while connecting to the network.

### Storing your information

Store your name and email address to send emails or to find out your camera on another device.

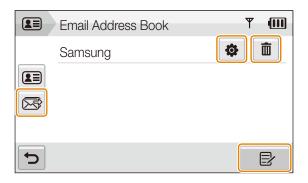
- 1 In Shooting or Playback mode, select (\*) → .
- 2 Select User Setting.
- 3 Select the name input field and enter your name.
  - For information about entering text, refer to page 96.
- 4 When you are finished, select **OK**.

- 5 Select the email input file and enter your email address.
- 6 When you are finished, select **OK**.
- 7 Select **OK** to save your information.

### Storing email addresses

Store up to 10 email addresses in your camera. You can use them when you send your photos via email.

- 1 In Shooting or Playback mode, select (\*) → .
- 2 Select Email Address.



- Select 🔀 to display the recent recipient email addresses.
- Select to edit the email address.
- Select in to delete the email address.

- 3 Select €.
- 4 Enter a name and email address.
- 5 When you are finished, select **OK**.

### Setting the file size to share

Set the file size you will share with other DLNA-authorised devices. You can select either the original size or **2m**.

- 1 In Shooting or Playback mode, select (\*) → .
- 2 Select DLNA -Image Size.
- 3 Select a size.

### Configuring the WPS setting

Configure this setting to press a WPS button or enter a PIN when connecting to a WLAN with an AP device that supports the WPS profile.

- In Shooting or Playback mode, select (\*) → .
- 2 Select **→ WPS Type**.
- Select PBC to press the WPS button or PIN to enter a PIN.

### Checking information

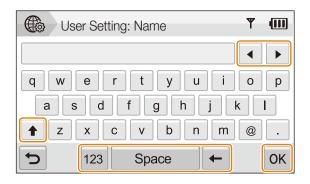
Check the Mac address and serial number of your camera to register it with the Samsung website.

- 1 In Shooting or Playback mode, select (1) → .
- Select → Device Information.

### **Entering text**

To enter text when storing your information or email addresses, select the appropriate letters, symbols, and numbers.

When you are finished, select **OK**.



Icon	Description
<b>4 &gt;</b>	Move the cursor.
<b>1</b>	Enter capital letters or small letters, and change symbols.
123	Enter numbers and symbols.
Space	Enter a space.
<b>←</b>	Delete the last letter.
OK	Store the displayed text.



You can enter text only in English, regardless of the display language.

### Using photo or video sharing websites

Upload your photos or videos to file sharing websites (available websites will be displayed on your camera).

### Accessing a website

- 1 In Shooting or Playback mode, select (\*) → .
  - The camera automatically connects to the WLAN via the last connected AP device.
  - If the camera has not connected to the WLAN, it automatically searches for available AP devices. (p. 92)
- 2 Select a website.
- 3 Enter your login ID and password, and select Login.



Create your login ID and password on a PC in advance.

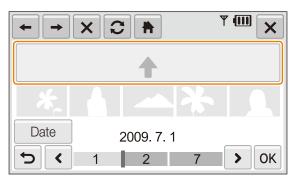
#### Icons on a website



Icon	Description
<b>←</b>	Previous page
<b>→</b>	Next page
×	Stop
	Refresh
	Home
×	Close

### Uploading photos or videos

- 1 Select 1.
- 2 Select **<** or **>** to scroll through files.
- Drag photos or videos to the selection area or select photos or videos, and select **OK**.



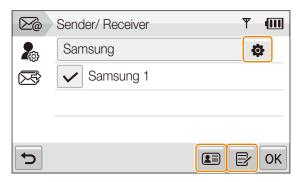
- Select **Date** to categorise the files. (p. 68)
- Enter a title and select an album, and then select ...



- The maximum photo resolution you can upload is 2<sub>m</sub>, and the longest video you can upload is 30 seconds at 320 X 240 resolution or the video recorded using For Sharing
- If the selected photo resolution is higher than **2**<sub>m</sub>, it will be automatically resized to a lower resolution.
- When the total size of all photos selected is smaller than 10 MB. you can upload them to a website (up to 20 photos).
- Methods of uploading photos or videos may differ depending on the selected website.
- If you cannot access a website because of firewall or user authentication settings, contact your network administrator or network service provider.
- When you are not able to upload photos or videos due to server errors, select C.
- Titles for photos or videos you are uploading could be the date they are captured.
- The speed of your internet connection may affect how guickly photos upload or web pages open.

### Sending photos via email

- 1 In Shooting or Playback mode, select (1) → 2.
  - The camera automatically connects to the WLAN via the last connected AP device.
  - If the camera has not connected to the WLAN, it automatically searches for available AP devices. (p. 92)
- 2 Enter email addresses for the sender and receiver.



- Select to enter or modify the email address of the sender.
- Select **1** to retrieve the stored email addresses.
- Select to enter an email address manually.

- 3 Select OK.
- 4 Select photos, or drag photos to the selection area and select **OK**.
  - The photos will be sent to the selected email addresses.
  - The **Transfer completed.** message will still appear, even when photos cannot be sent or be sent as spam due to an error with the recipient's email account.



- When the total size of all photos selected is smaller than 10 MB, you can send them via email (up to 20 photos).
- You can enter up to 10 recipients for each email.
- You may not be able to send an email due network connection or email account settings.
- The maximum photo resolution you can send is  $2_m$  and if the selected photo resolution is higher than  $2_m$ , it will be automatically resized to a lower resolution.
- If you cannot send an email because of firewall or user authentication settings, contact your network administrator or network service provider.
- When there are no photos in the camera memory, you cannot use this feature.

### Viewing photos on the DLNA devices

The Digital Living Network Alliance (DLNA) is an international technology standard for sharing media files between networked devices in your home. With this technology, you can view your photos on a widescreen TV or another device. You cannot send or receive videos or voice memos.

### Viewing photos on a TV screen

View your photos on a TV that supports the DLNA-authorised Digital Media Player (DMP).

- 1 In Shooting or Playback mode, select (1) → (5).
  - The camera automatically connects to the WLAN via the last connected AP device.
  - If the camera has not connected to the WLAN, it automatically searches for the available AP devices. (p. 92)
- 2 Select Selected Images.
  - To share all files, select **All Images** and skip to step 4.
- 3 Select photos to share.



You can share up to 1000 photos.

- 4 On the TV, search for the camera and browse the shared photos.
  - Your camera's name is what you entered in the user setting.
     (p. 94)
  - For information about searching for the camera and browsing the photos on the TV, refer to the TV user manual.



- On a TV screen, you can view only photos captured with your camera.
- The distance between the camera and TV may be affected by the AP device.
- If the camera is connected to 2 TVs, playback may be slowed.
- The photos will be shared according to the size you set. (p. 95)
- You can use this feature only with a DLNA-authorised Digital Media Players (DMPs).
- Shared photos will not be stored on the TV, but they can be stored according to the TV specifications.
- Transferring photos to the TV may take some time depending on the network connection and the photo size.
- If you power off the camera abnormally while viewing photos on a TV (ex. removing battery), the TV considers the camera to still be connected.
- The order of photos on the camera and TV could be different.
- According to the number of photos you want to share, it may take some time to load your photos and complete the initial set-up process.
- While viewing photos on the TV, continuously using the TV remote or performing additional operations on the TV may prevent this feature from working properly.
- If you reorder or sort photos on the camera while viewing them on a TV, you must repeat the initial setup process to update the list of photos on the TV.
- When there are no photos in the camera memory, you cannot use this feature.

### Viewing photos on another device (renderer)

- 1 In Shooting or Playback mode, select  $(1) \rightarrow 6$ .
  - The camera automatically connects to the WLAN via the last connected AP device.
  - If the camera has not connected to the WLAN, it automatically searches for the available AP devices. (p. 92)
  - If the camera has connected to the WLAN, it automatically searches for and displays the available DLNA-enabled devices. However, searching for the devices may take some time.
- 2 Select a device (renderer) that will play the photos.
- 3 Drag a photo to the selection area or select a photo.
  - The photos will appear on the device's screen.
  - To view other photos, drag a photo to the selection area one by one on your camera.



- When searching for DLNA-authorised devices on the network, the camera may not find all devices on the network.
- If you power off the device abnormally while viewing photos on a device, the camera considers the device to still be connected.
- The photos will be shared according to the size you set. (p. 95)
- You can use this feature only with a DLNA-authorised renderer.
- The shared photos will not be stored on the device, but they can be stored according to the device specifications.
- Transferring photos to the device may take some time depending on the network connection and the photo size.
- You can transfer photos one by one.
- When there are no photos in the camera memory, you cannot use this feature.
- On other devices (renderer), you can view only photos captured with your camera.
- When you search for other devices, searching for devices may take some time depending on the network connection. In this case, try again.

### Sending or receiving photos with a camera

Learn to send or receive photos to or from camera of the same model. You cannot send or receive videos or voice memos.

### Sending photos to another camera

- 1 In Shooting or Playback mode, select (\*) → 6.
- 2 Select Send.
  - The camera generates a password and displays it on the screen while waiting for a connection with the receiving camera.
- 3 On the receiving camera, select the name of the sending camera.
  - The sending camera's name is what you entered in the user setting. (p. 94)
- 4 Enter the password (4 digits) on the receiving camera.
  - The selection area automatically appears on the sending camera.
- 5 Drag photos to the selection area or select photos.
  - The photos will be sent to the receiving camera.

### Receiving photos from another camera

- 1 In Shooting or Playback mode, select (\*) → 6.
- 2 Select Receive.
  - On the sending camera, select **Send** and after some time, select **Receive**.
- 3 Select the name of the sending camera.
- 4 Enter the sending camera's password and select **OK**.
  - The password will appear on the screen of the sending camera.
  - When the sending camera transmits photos, they will appear on the receiving camera.

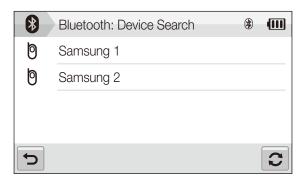


- This feature uses an ad hoc wireless network.
- You cannot send and receive photos at the same time. Once you have received photos, end the connection with the camera and then reconnect to the camera to send photos.
- The distance between two cameras may be affected by the efficiency of the ad hoc wireless network.
- If a camera turns off abnormally while sending or receiving photos, the other camera considers the camera to still be connected. Cameras will be disconnected after some time.
- The photos will be sent or received according to the size you set. (p. 95)
- It may take some time to send or receive photos depending on the photo size and the ad hoc network connection.
- You can transfer photos one by one.
- If you fail to receive or send a photo, it will not be saved on the receiving camera.
- When there are no photos in the camera memory, you cannot use this feature.
- You can send and receive photos taken with your camera or other camera only.
- The maximum photo resolution you can send or receive is  $2_m$  and if the selected photo resolution is higher than  $2_m$ , it will be automatically resized to a lower resolution.

### Sending photos via Bluetooth

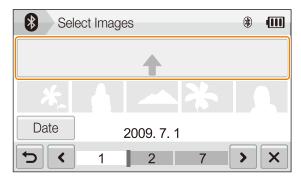
Bluetooth is a wireless protocol for exchanging data over short distances. With Bluetooth, you can send photos to other mobile phones or PDAs. However, you cannot receive photos from other devices and you cannot send videos or voice memos.

- 1 In Shooting or Playback mode, select  $^{(*)} \rightarrow ^{(*)}$ .
  - The Bluetooth feature turns on. However, other Bluetoothenabled devices cannot find your camera.
- 2 To search for and display Bluetooth-enabled devices, select Yes.
  - If you have searched for the Bluetooth-enabled devices, a list of Bluetooth-enabled devices appears. Select 
     to search again.
- 3 Select a Bluetooth-enabled device.



- Select ✓ to view other devices.
- When searching for Bluetooth-enabled devices, you may be able to find other devices. However, you can send photos only to mobile phones or PDAs.

- 4 Enter a password (4~6 digits) and select **OK**.
  - If you enter a 6-digit password, you do not need to select **OK**.
- 5 Enter the same password on the device.
- 6 Drag photos to the selection area or select photos.



- The photos will be sent to the selected device.
- The photo size will be changed to 640 X 480 (VGA).

### 7 After sending is complete, select $\times \rightarrow Yes$ .

• The camera and the device are disconnected and the Bluetooth feature turns off.



- The camera may not search for a specific Bluetooth-enabled device and send a photo to it depending on the device type.
- If the other device does not have enough memory, the photo may not be transferred. Delete some photos to free up some memory and try sending again.
- You cannot connect to several Bluetooth-enabled devices at one time.
- Place the camera and the Bluetooth-enabled device reasonably close to one another.
- The camera may cause interference with other devices that use or produce radio waves.
- When there are no photos in the camera memory, you cannot use this feature.
- You can send photos only to Bluetooth-enabled phones or PDAs that support the Object Push Profile (OPP).
- $\bullet\,$  Some phones or PDAs may not display photos you sent via Bluetooth.

# **Appendixes**

Refer to settings, error messages, specifications, and maintenance tips.

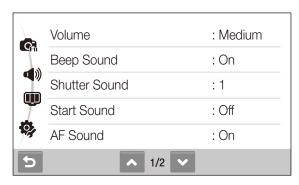
Settings menu10	3(
Accessing the settings menu	3(
Sound settings	)(
Display settings	)(
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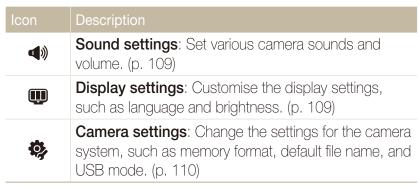
## Settings menu

Learn about various options to configure your camera's settings.

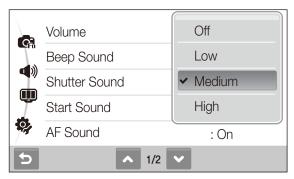
### Accessing the settings menu

- 1 In Shooting or Playback mode, select **METIU**.
- 2 Select a menu.





3 Select an option and save your settings.



4 Select **to** return to the previous screen.

## Sound settings

\* Default

	Dordant			
Item	Description			
Volume	Adjust the volume of any sound. (Off, Low, Medium*, High)			
Beep Sound	Select a sound to be emitted when pressing the buttons or switching modes. (Off, On*)			
Shutter Sound	Select a sound to be emitted when pressing the shutter button. (Off, 1*, 2, 3)			
Start Sound	Select a sound to be emitted when turning on your camera. (Off*, 1, 2, 3)			
AF Sound	Set to emit a sound to be emitted when half- pressing the shutter button. (Off, On*)			
Self-Portrait	Set to emit a sound when the camera detects your face. (Off, On*)			

## Display settings

Item	Description			
Language	Select a language for the display text.			
Function Description	Display a brief description of an option or menu. (Off, On*)			
Set a start image to display when the camera turn on.  • Off*: Display no start image.  • Logo: Display a default image stored in the intermemory.  • User Image: Display the image you want. (p.  • Only one start image will be saved in the intermemory.  • If you select a new photo as a start image or your camera, the current image will be deleted.				
Grid Line	Select a type of the grid lines that help you to compose a scene. (2 X 2*, 3 X 3, +, X)			
Display Brightness	Adjust the brightness of the screen. (Auto*, Dark, Normal, Bright)  Normal is fixed in Playback mode even if Auto is selected.			

\* Default

Item	Description		
Quick View	Set the duration for reviewing a captured image before returning to Shooting mode.  (Off, 0.5 sec*, 1 sec, 3 sec)		
Power Save	If you perform no operations for 30 seconds, the camera automatically switches to Power save mode (press any button to deactivate the Power save mode). (Off*, On)		

### Camera settings

\* Default

Item	Description			
	Format the internal memory and the memory card (all files-including the protected files-will be deleted). (No, Yes)			
Format	If you use a memory card used with cameras from different manufacturers or a memory card reader, or one formatted on a computer, your camera may read the card incorrectly. Format the card before using it.			
Reset	Reset menus and shooting options (date and time, language, and video output settings will not be reset (No, Yes)			

Item	Description			
Date & Time	Set the date and time and select a date format. (Off*, yyyy/mm/dd, mm/dd/yyyy, dd/mm/yyyy)			
Time Zone	Select a region and set the daylight-saving time (DST).			
File No.	<ul> <li>Reset: Set the file number to start from 0001 when inserting a new memory card, formatting a memory card, or deleting all files.</li> <li>Series*: Set the file number to follow the previous file number when inserting a new memory card, formatting a memory card, or deleting all files.</li> <li>The default name of the first folder is 100PHOTO and the default name of the first file is SAM_0001.</li> <li>The file number increases one by one from SAM_0001 to SAM_9999.</li> <li>The folder number increases one by one from 100PHOTO to 999PHOTO.</li> <li>The maximum number of files that can be stored in one folder is 9999.</li> <li>The camera defines file names according to the Digital rule for Camera File system (DCF) standard. If you change the names of files intentionally, the camera may not play back the files.</li> </ul>			
Auto Rotate	Set the camera to automatically rotate vertical photos to view them in landscape view. (Off, On*)			

\* Default

Item	Description			
Imprint	Set whether to display the date and time on your photos when printing. (Off*, Date, Date & Time)  • The date and time will be displayed on the bottomright corner of the photo in yellow.  • The date and time may not be printed on some printer models.  • If you select  in the SCERE mode, the date and time will not be displayed.			
Auto Power Off	Set the camera to automatically turn off when you are not using it. (Off, 1 min, 3 min*, 5 min, 10 min)  • Your settings will not change after replacing the battery.  • The camera will not automatically turn off when:  - it is connected to a computer or printer  - you are playing a slide show or videos  - you are recording a voice memo			
AF Lamp	Set an assistant light to help you focus in dark places. (Off, On*)			
Anynet+ (HDMI-CEC)	Set to control the camera connected to a Samsung HDTV that supports Anynet+(CEC) with the TV remote control.  • Off*: View files without using an HDTV remote control.  • On: Control the camera with an HDTV remote control.			

Item	Description		
HDMI Size	Select the resolution of photos when playing back files on an HDTV with the HDMI adapter and cable. (NTSC: 1080i*, 720p, 480p/PAL: 1080i*, 720p, 576p)  • If the HDTV does not support the selected resolution, the HDTV automatically selects the next lower resolution.  • If you select 480p or 576p, the playback menus and Smart Album will not be available when connected to a TV.		
Video Out	<ul> <li>Set the video signal output according to your region.</li> <li>NTSC*: USA, Canada, Japan, Korea, Taiwan, Mexico.</li> <li>PAL (supports only BDGHI): Australia, Austria, Belgium, China, Denmark, England, Finland, Germany, Italy, Kuwait, Malaysia, Netherlands, New Zealand, Norway, Singapore, Spain, Sweden, Switzerland, Thailand</li> </ul>		

Item	Description			
USB	<ul> <li>Set the function to use via a USB connection with a computer or printer.</li> <li>Auto*: Set your camera to select a USB mode automatically.</li> <li>Computer: Connect your camera to a computer for transferring files.</li> <li>Printer: Connect your camera to a printer for printing files.</li> </ul>			
PC Software	Set Intelli-studio to start automatically when you connect your camera to your computer. (Off, On*)			

# **Error messages**

When the following error messages appear, try these remedies.

Error message	Suggested remedies			
Card Error	<ul> <li>Turn off your camera and then turn it on again.</li> <li>Remove your memory card and insert it again.</li> <li>Format your memory card. (p. 110)</li> </ul>			
Connection failed.	<ul> <li>The camera cannot connect to the network using the selected access point. Select another and try again.</li> <li>The camera fails to connect to another Bluetooth-enabled device or a camera of the same model. Try connecting again.</li> </ul>			
DCF Full Error	File names do not match the DCF standard.  Transfer the files on the memory card to your computer and format the card. (p. 110)			
Device disconnected.	Connect to a device again.			
File Error	Delete the damaged file or contact a service centre.			
Initialization failed. Turn on DLNA-authorised devices on the network.				
Invalid password.	The password for transferring files to another Bluetooth-enabled device or a camera of the same model is wrong. Enter the correct password again.			
Low Battery	Insert a charged battery or recharge the battery.			

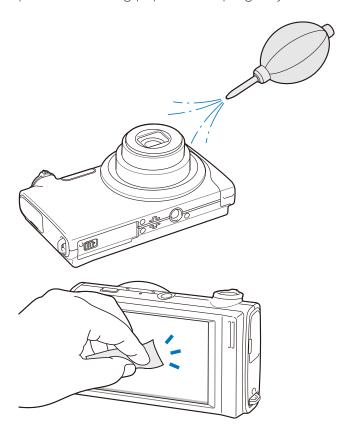
Error message	Suggested remedies			
Memory Full	Delete unnecessary files or insert a new memory card.			
No Image File	Take photos or insert a memory card that has some photos.			
Photo reception failed.	The camera fails to receive a photo from the sending camera. Try sending again.			
Transfer failed.	The camera fails to send a photo. Try sending again.			

## **Camera maintenance**

### Cleaning your camera

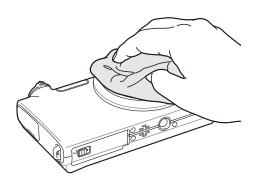
#### Camera lens and touch screen

Use a blower brush to remove dust and wipe the lens gently with a soft cloth. If any dust remains, apply lens cleaning liquid to a piece of cleaning paper and wipe gently.



#### Camera body

Wipe gently with a soft, dry cloth.





- Never use benzene, thinners, or alcohol to clean the device. These solutions can damage the camera or cause it to malfunction.
- Do not press on the lens cover or use a blower brush on the lens cover.

### About memory cards

#### Memory cards you can use

You can use microSD™ (Secure Digital) memory cards.

#### Memory card capacity

The memory capacity may differ depending on shooting scenes or shooting conditions. These capacities are based on a 1 GB  $microSD^{TM}$  card:

	Size	Super Fine	Fine	Normal	60 FPS	30 FPS	15 FPS
	12m	145	281	399	-	-	-
	(IOm	166	310	436	-	-	-
P	$\overline{\mathbf{q}_{m}}$	200	363	522	-	-	-
h o	<b>8</b> m	209	357	531	-	-	-
t o	5m	339	630	860	-	-	-
S	3m	526	885	1,198	-	-	-
	2m	873	1,455	1,909	-	-	-
	<b>I</b> m	1,697	2,037	2,350	-	-	-
	210 HQ	-	-	-	-	Approx. 13' 21"	Approx. 23' 20"
* V	1580	-	-	-	-	Approx. 15' 10"	Approx. 32' 11"
i d e	640	-	-	-	-	Approx. 37' 25"	Approx. 66' 45"
0 S	320	-	-	-	Approx. 78' 20"	Approx. 136' 47"	Approx. 235' 02"
	320 320	-	-	-	-	Approx. 136' 47"	-

<sup>\*</sup> The recordable time may vary if you use the zoom. Several videos were recorded in succession to determine the total recording time.

### About the battery

Use only Samsung-approved batteries.

### Battery specifications

Mode	SLB-11A
Туре	Lithium-ion battery
Cell capacity	1130 mAh
Voltage	3.8 V
Charging time (when the camera is switched off)	Approx. 190 min

#### Battery life

Average time / Number of photos		Test conditions (when the battery is fully charged)
Photos	Approx. 130 min/ Approx. 260 photos	This is measured under the following conditions: in the mode, 12M resolution, Fine quality, OIS on.
		1. Set the flash option to <b>Fill in</b> , take a single shot, and zoom in or out.
		2. Set the flash option to <b>Off</b> , take a single shot, and zoom in or out.
		3. Perform steps 1 and 2 for 30 seconds and repeat for 5 minutes. Then turn off the camera for 1 minute.
		4. Repeat steps 1 to 3.
Videos	Approx. 100 min	Record videos at 1280 X 720 HQ resolution and 30 fps.

- The figures above are measured by Samsung's standards and may differ depending on actual usage.
- Several videos were recorded in succession to determine the total recording time.

#### Notes about charging the battery

- If the indicator light is off, make sure that the battery is inserted correctly.
- Turn off your camera when charging.
- Turn on your camera after charging the battery for more than 10 minutes.
- Using the flash or recording videos depletes the battery quickly. Charge the battery until the indicator light turns green.
- If the indicator light blinks in orange or does not illuminate, reconnect the cable, or remove the battery and insert it again.
- If you charge the battery when the cable is overheated or the temperature is too high, the indicator light may turn orange. Charging will start when the battery cools down.

#### Notes about charging with a computer connected

- Use only the provided USB cable.
- The battery may not be charged when:
  - you use a USB hub
  - other USB devices are connected to your computer
  - you connect the cable to the port on the front side of your computer
  - the USB port of your computer does not support the power output standard (5 V, 500 mA)

## Before contacting a service centre

If you are having trouble with your camera, try these troubleshooting procedures before contacting a service centre. If you have attempted the troubleshooting solution and are still having problems with your device, contact your local dealer or service centre.

Situation	Suggested remedies
Cannot turn on the camera	<ul><li>Make sure that the battery is inserted.</li><li>Make sure that the battery is inserted correctly.</li><li>Charge the battery.</li></ul>
The power turns off suddenly	<ul> <li>Charge the battery.</li> <li>Your camera may be in Power save mode. (p. 110)</li> <li>The camera may turn off to prevent the memory card from being damaged due to an impact. Turn on your camera again.</li> </ul>
The camera is losing battery power quickly	<ul> <li>The battery may lose power more quickly in low temperatures (below 0° C). Keep the battery warm by putting it into your pocket.</li> <li>Using the flash or recording videos depletes the battery quickly. Recharge if needed.</li> <li>Batteries are consumable parts that must be replaced over time. Get a new battery if the battery life is diminishing quickly.</li> </ul>

Situation	Suggested remedies	
Cannot take photos	<ul> <li>There is no space on the memory card. Delete unnecessary files or insert a new card.</li> <li>Format the memory card. (p. 110)</li> <li>The memory card is defective. Get a new memory card.</li> <li>Make sure that the camera is switched on.</li> <li>Charge the battery.</li> <li>Make sure that the battery is inserted correctly.</li> </ul>	
The camera freezes	Remove the battery and insert it again.	
The flash does not work	<ul> <li>The flash option may be set to Off. (p. 46)</li> <li>You cannot use the flash in the , , , , or some SCERE modes.</li> </ul>	
The flash fires unexpectedly	The flash may fire due to static electricity. This is not a malfunction of the camera.	
The date and time are incorrect	Set the date and time in the display settings menu.	
The touch screen or buttons do not work	Remove the battery and insert it again.	

Situation	Suggested remedies
The camera screen works poorly	If you use your camera at very low temperatures, it may cause the camera screen to malfunction or discolour. For better performance of your camera screen, use your camera in moderate temperatures.
The memory card has an error	The memory card has not been reset. Format the card. (p. 110)
Cannot play back files	If you change the name of a file, your camera may not play the file (the name of the file should meet the DCF standard). If you encounter this situation, play back files on your computer.
The photo is blurry	<ul> <li>Make sure that the focus option you set is suitable for close-up shots. (p. 48)</li> <li>Make sure that the subject is within range of the flash. (p. 121)</li> <li>Make sure that the lens is clean. If not, clean the lens. (p. 114)</li> </ul>
The colours in the photo do not match the actual scene	An incorrect white balance can create unrealistic colour. Select the proper white balance option to suit the light source. (p. 59)

Situation	Suggested remedies
The photo is too bright	<ul> <li>Your photo is overexposed. Adjust the exposure value. (p. 56)</li> <li>Turn off the flash. (p. 46)</li> </ul>
The photo is too dark	Your photo is underexposed.  Adjust the exposure value. (p. 56)  Turn on the flash. (p. 46)  Adjust the ISO speed. (p. 47)
The TV does not display your photos	<ul> <li>Make sure that the camera is correctly connected to the external monitor with the A/V cable.</li> <li>Make sure that your memory card contains photos.</li> </ul>
Your computer does not recognise your camera	<ul> <li>Make sure that the USB cable is connected correctly.</li> <li>Make sure that your camera is switched on.</li> <li>Make sure that you are using a supported operating system.</li> </ul>
Your computer disconnects the camera while transferring files	The file transmission may be interrupted by static electricity. Disconnect the USB cable and connect it again.

Situation	Suggested remedies
Your camera cannot play videos	<ul> <li>You can play videos only with the Intellistudio program. Install the program on your computer. (p. 85)</li> <li>Make sure that the USB cable is connected correctly.</li> </ul>
Intelli-studio is not functioning properly	<ul> <li>End Intelli-studio and restart the program.</li> <li>You cannot use Intelli-studio on Macintosh computers.</li> <li>Make sure that the PC Software is set to On in the settings menu. (p. 112)</li> <li>Depending on your computer's specification and environments, the program may not launch automatically. In this case, click Start → My Computer → Intelli-studio → iStudio.exe on your computer.</li> </ul>

## **Camera specifications**

Image sensor			
Type	1/2.33" (Appro	x. 7.79 mm) CCD	
Effective pixels	Approx. 12.2 m	nega-pixels	
Total pixels	Approx. 12.4 m	nega-pixels	
Lens			
Focal length	Schneider-KRE f = 6.3 - 31.5 r (35 mm film eq		nm)
F-stop range	F3.6 (W) - F4.8	S (T)	
Digital zoom	Ů,	node: 1.0X - 5.0X 1.0X - 12.5X (deper	nding on image size)
Display			
Type	TFT LCD		
Feature	3.5" (8.9 cm) V	vide w/Full Touch So	creen Panel
Focusing			
Туре		(Multi AF, Center AF tion AF, Smart Touc	
		Wide (W)	Tele (T)
Danca	Normal 80 cm - infinity		
Range	Macro	5 cm - 80 cm	50 cm - 80 cm
	Auto Macro	5 cm - infinity	50 cm - infinity

#### Shutter speed

Auto: 1/8 - 1/2,000 sec.Program: 1 - 1/2,000 sec.

• Night: 8 - 1/2,000 sec.

• Fireworks: 2 sec.

Ex	pos	ure

Control	Program AE
Metering	Multi, Spot, Center-weighted
Compensation	±2EV (1/3EV steps)
ISO equivalent	Auto, 80, 100, 200, 400, 800, 1600, 3200
Flash	
Mode	Off, Auto, Red-eye, Fill in, Slow Sync, Red-eye Fix
Range	• Wide: 0.2 m - 3.3 m (ISO Auto)

• Tele: 0.5 m - 2.4 m (ISO Auto)

# Recharging time Shake reduction

DUAL IS [Optical Image Stabilisation (OIS) + Digital Image Stabilisation (DIS)]

Approx. 4 sec.

#### Effect

Photo Style Selector: Normal, Soft, Vivid, Forest,
 Shooting mode
 Retro, Cool, Calm, Classic, Negative, Custom RGB
 Image Adjust: Sharpness, Contrast, Saturation

#### White Balance

Auto WB, Daylight, Cloudy, Fluorescent\_H, Fluorescent\_L, Tungsten, Custom Set

#### Date Imprinting

Date & Time, Date, Off

#### Shooting

Shooting	
Photos	<ul> <li>Modes: Smart Auto (Portrait, Night Portrait, Backlight Portrait, Backlight, Landscape, White, Motion, Tripod, Night, Macro, Macro Text, Blue Sky, Sunset Sky, Natural Green, Natural Portrait, Macro Colour), Auto, Program, DUAL IS, Movie, Scene (Night, Portrait, Children, Landscape, Text, Close Up, Sunset, Dawn, Backlight, Fireworks, Beach &amp; Snow, Frame Guide, Beauty Shot)</li> <li>Drive: Single, Continuous, Motion Capture, AEB</li> <li>Timer: 10 Sec, 2 Sec, Double, Motion Timer</li> </ul>
Videos	<ul> <li>Format: H.264 (Max recording time: 20 min)</li> <li>Size: 1280 X 720 HQ (30 FPS, 15 FPS), 1280 X 720 (30 FPS, 15 FPS), 640 X 480 (30 FPS, 15 FPS), 320 X 240 (60 FPS, 30 FPS, 15 FPS), 320 X 240 For Sharing (30 FPS)</li> <li>Frame Rate: 60 FPS, 30 FPS, 15 FPS</li> <li>Effect: Photo Style Selector, White Balance</li> <li>Voice: Off, On</li> <li>Video editing (embedded): Pause during recording, Still image capture, Time trimming</li> </ul>

Playback	
Туре	Single image, Thumbnails, Multi slide show with music and effects, Movie clip, Smart Album* *Smart Album category: Type, Date, Color, Week, Face, Location, Favorite
Edit	Resize, Rotate, Photo Style Selector, Image Adjust, Special Effect, Face Effect
Effect	<ul> <li>Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB</li> <li>Image Adjust: ACB, Brightness, Contrast, Saturation</li> <li>Special Effect: Colour Filter, Elegant, Add Noise</li> <li>Face Effect: Face Retouch, Red-eye Fix, Snow, Mosaic, Highlight</li> </ul>

#### Voice recording

- Voice Recording (Max. 10 hours)
- Voice Memo in a photo (Max. 10 sec.)

#### Storage

Sidiage	
	Internal memory: Approx. 100 MB
Media	<ul> <li>External memory (Optional): microSD<sup>TM</sup> card (up to 4 GB guaranteed)</li> </ul>
	Internal memory capacity may not match these specifications.
File format	<ul> <li>Photo: JPEG (DCF), EXIF 2.21, DPOF 1.1, PictBridge 1.0</li> <li>Video: H.264 (MPEG-4.AVC)</li> </ul>

• Audio: AAC

#### Camera specifications

			Super Fine	Fine	Normal
lmage size	12m	4000 X 3000	145	281	399
	<b>CIO</b> m	3984 X 2656	166	310	436
	9 <sub>m</sub>	3840 X 2160	200	363	522
	8m	3264 X 2448	209	357	531
	5m	2560 X 1920	339	630	860
	3m	2048 X 1536	526	885	1,198
	2m	1920 X 1080	873	1,455	1,909
	Im	1024 X 768	1,697	2,037	2,350

Wireless network	
Wi-Fi	IEEE 802.11 b/g
DLNA	Version: 1.5
Bluetooth	<ul><li>Version: 2.0</li><li>QD ID: B015611</li></ul>

shooting conditions and camera settings.

Interface				
Digital output connector	USB 2.0			
Audio output	Mono (Internal speaker), Mono (Microphone)			
Video output	<ul><li>AV: NTSC, PAL (selectable)</li><li>HDMI 1.2: NTSC, PAL (selectable)</li></ul>			
DC power input connector	34 pin, 4.4V			
Power source				
Rechargeable battery	Lithium-ion battery (SLB-11A, 1130 mAh)			

The power source may differ depending on your region.

#### Dimensions (W x H x D)

99.8 x 60.8 x 18.9 mm

#### Weight

156 g (without battery and memory card)

#### Operating temperature

0 - 40° C

#### Operating humidity

5 - 85 %

#### Software

Intelli-studio

Specifications are subject to change without prior notice.



# Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



#### Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

The rechargeable battery incorporated in this product is not user replaceable. For information on its replacement, please contact your service provider.



#### Samsung Eco-mark

It is Samsung's own symbol mark is used to effectively communicate Samsung's environmental friendly product activities to the consumers. The mark represents Samsung's continuous effort on development of environmental conscious products.

#### **CAUTION**

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

#### Operation is subject to the following two conditions:

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

#### Caution:

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

This Class [B] digital apparatus complies with Canadian ICES-003.

Complies with IDA Standards DA100790 Numéro d'agrément: MR4961 ANRT 2009 Date d'agrément: 11/08/2009

Approved by PTA, year 2009







NO-L-14041/01/2009/ETA/2009 199/2009/WRLO

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

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

- Reorientate, or relocate, the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from

that to which the receiver is connected.

- Consult the dealer or an experienced radio / TV technician for help.



### **Declaration of Conformity (R&TTE)**

We, Samsung Digital imaging Co., LTD. declare under our sole responsibility that the product

Model: ST5500

Type: Digital Camera

to satisfies all the technical regulations applicable to the product within the scope of Council Directives 2006/95/EC, 2004/108/EC and 99/5/EC:

Radio: ETSI EN 300 328 V1.7.1, EN 300 440-1 V1.3.1, EN 300 440-2 V1.1.2

EMC: EN 301 489-1 V1.8.1, EN 301 489-7 V1.2.1, EN 55022:2006, EN55024:1998/A1:2001/A2:2003

Safety: EN 60950-1:2001+A11:2004

All essential radio test suites have been carried out

MANUFACTURER or AUTHORISED REPRESENTATIVE: - Address:

Samsung Digital Imaging Co., LTD.

416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea

Testing Laboratory: SGS Testing Korea Co., Ltd.

18-34, Sanbon-dong, Gunpo-si, Gyeonggi-do, Korea, 435-040

Tel. +82 31 428 5700 / Fax. +82 31 427 2371

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his authorised representative.

**€0678** ⊕

#### Representative in the EU:

Samsung Electronics Euro QA Lab. Blackbushe Business Park Saxony Way, Yateley, Hampshire GU46 6GG, UK

June 30, 2009

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Yong Sang Park/S. Manager

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Please refer to the warranty that came with your product or visit our website http://www.samsungcamera.com/ for aftersales service or inquiries.





#### <RF Exposure Statement>

" This device is for handheld operation only. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."