



SAMSUNG

# User Manual

## PL100/PL101

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

 [Click a topic](#)

Common questions

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Basic functions

Extended functions

Shooting options

Playback/Editing

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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



## Safety warnings

### 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.



## Safety precautions

### 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 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.
- 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 discolor 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.



### Important usage information

### 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.

## Copyright information

- Microsoft Windows and the Windows logo are registered trademarks of the Microsoft Corporation.
- Mac is a registered trademark of the Apple Corporation.

- Camera specifications or contents of this manual may be changed without prior notice due to upgrade of camera functions.
- For Open Source License information, refer to the "OpenSourceInfo.pdf" in the provided CD-ROM.

## Organization of the user manual

### Basic functions 11

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

### Extended functions 27

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

### Shooting options 39

Learn about the options you can set in shooting mode.

### Playback/Editing 55

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

### Appendixes 76

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

## Indications used in this manual

Shooting mode	Indication
Smart Auto	
Auto	
Program	<b>P</b>
DIS	
Beauty Shot	
Night	
Scene	<b>SCN</b>
Movie	

### Shooting mode icons

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

e.g.)

#### 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 (+)

Available in the Program, DIS, and Movie modes

## Icons used in this manual

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

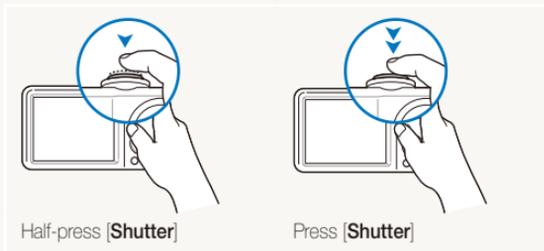
## Abbreviations used in this manual

Abbreviation	Definition
ACB	Auto Contrast Balance
AEB	Auto Exposure Bracket
AF	Auto Focus
DIS	Digital Image Stabilization
DPOF	Digital Print Order Format
EV	Exposure Value
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

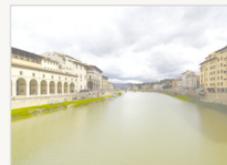


### Exposure (Brightness)

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.



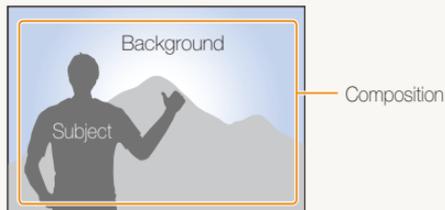
Normal exposure



Overexposure (too bright)

### 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



# Common questions

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

	<b>The subject's eyes appear red.</b>	<p>This is caused by a reflection from the camera flash.</p> <ul style="list-style-type: none"><li>• Set the flash option to  <b>Red-eye</b> or  <b>Red-eye Fix</b>. (p. 42)</li><li>• If the photo has already been taken, select  <b>Red-eye Fix</b> in the edit menu. (p. 65)</li></ul>
	<b>Photos have dust spots.</b>	<p>Dust particles floating in the air may be captured in photos when using the flash.</p> <ul style="list-style-type: none"><li>• Turn off the flash or avoid taking photos in a dusty place.</li><li>• Set ISO speed options. (p. 43)</li></ul>
	<b>Photos are blurred.</b>	<p>This may be caused by taking photos in low light conditions or holding the camera incorrectly.</p> <ul style="list-style-type: none"><li>• Press <b>[Shutter]</b> halfway down to make sure the subject is focused. (p. 25)</li><li>• Use the  mode. (p. 32)</li></ul>
	<b>Photos are blurred when shooting at night.</b>	<p>As the camera tries to let in more light, the shutter speed slows. This can make it difficult to steady the camera and may result in camera shake.</p> <ul style="list-style-type: none"><li>• Rotate the mode dial to . (p. 30)</li><li>• Turn on the flash. (p. 42)</li><li>• Set ISO speed options. (p. 43)</li><li>• Use a tripod to prevent your camera from shaking.</li></ul>
	<b>Subjects come out too dark because of backlighting.</b>	<p>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.</p> <ul style="list-style-type: none"><li>• Avoid shooting in front of the sun.</li><li>• Select  <b>Backlight</b> in the <b>SCN</b> mode. (p. 29)</li><li>• Set the flash option to  <b>Fill in</b>. (p. 42)</li><li>• Adjust the exposure. (p. 49)</li><li>• Set the Auto Contrast Balance (<b>ACB</b>) option. (p. 49)</li><li>• Set the metering option to  <b>Spot</b> if a bright subject is in the center of the frame. (p. 50)</li></ul>

# Quick reference



## Taking photos of people

- **SCN** mode > Portrait ▶ 29
-  mode ▶ 31
- Self-portrait mode ▶ 35
- Children mode ▶ 36
- Couple mode ▶ 36
- Red-eye, Red-eye Fix (to prevent or correct red-eye) ▶ 42
- Face Detection ▶ 47



## Taking photos at night or in the dark

- **SCN** mode > Sunset, Dawn, Fireworks ▶ 29
-  mode ▶ 30
- Flash options ▶ 42
- ISO speed (to adjust the sensitivity to light) ▶ 43



## Taking action photos

- Continuous, Motion Capture ▶ 52



## Taking photos of text, insects, or flowers

- **SCN** mode > Close Up, Text ▶ 29
- Macro, Auto Macro (to take close-up photos) ▶ 44
- White Balance (to change the color tone) ▶ 50



## Adjusting the exposure (brightness)

- ISO speed (to adjust the sensitivity to light) ▶ 43
- EV (to adjust exposure) ▶ 49
- ACB (to compensate for subjects against bright backgrounds) ▶ 49
- Metering ▶ 50
- AEB (to take three photos of the same scene with different exposures) ▶ 52



## Applying a different effect

- Photo styles (to apply tones) ▶ 53
- Image adjustment (to adjust saturation, sharpness, or contrast) ▶ 54



## Reducing camera shake

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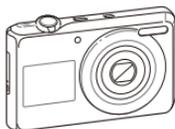
# Basic functions

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

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# Unpacking

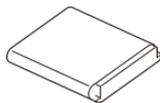
Check your product box for the following items.



Camera



AC adapter/USB cable



Rechargeable battery



Strap



Software CD-ROM  
(User manual included)



Quick Start Manual



The illustrations may differ from your actual items.

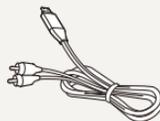
## Optional accessories



Camera case



Memory card



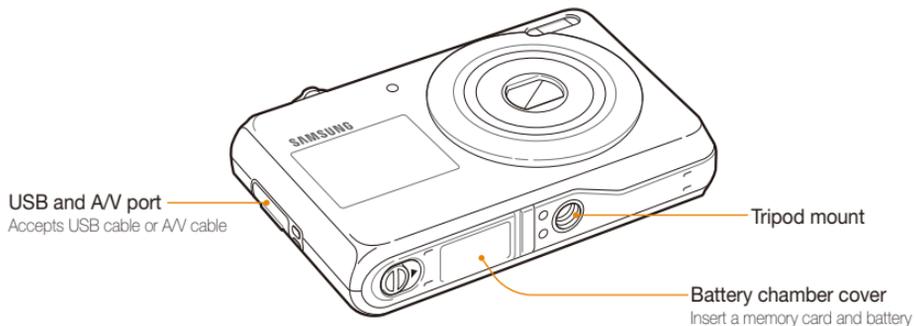
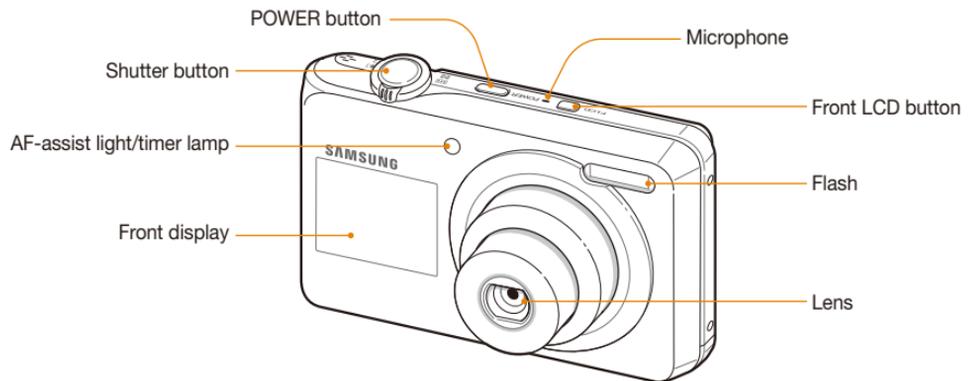
A/V cable

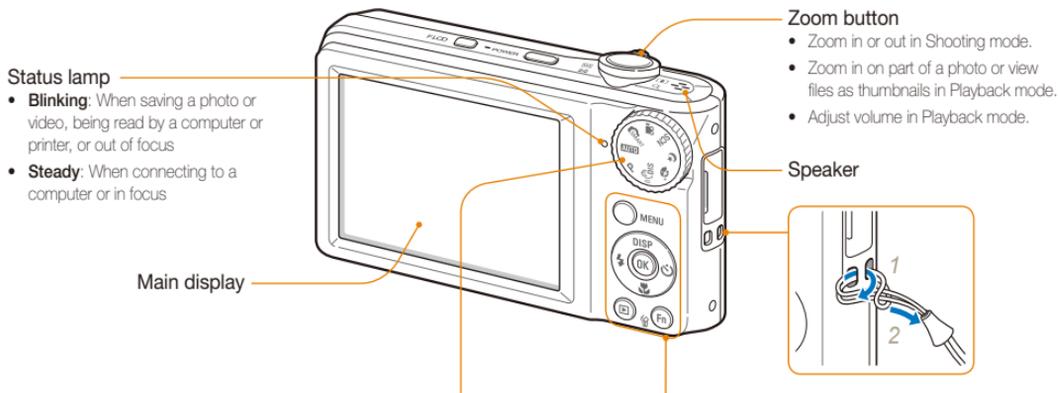


Battery charger

# Camera layout

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





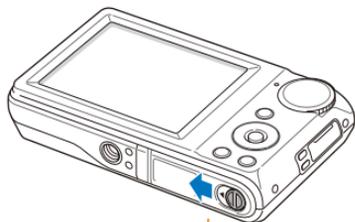
Mode dial

Icon	Mode	Description
	Smart Auto	Take a photo by letting the camera select a scene mode as it detects
	Auto	Take a photo quickly and easily with minimal settings
	Program	Take a photo by setting options
	DIS	Take a photo with options suitable for reducing camera shake
	Beauty Shot	Take a photo of a person with options to hide facial imperfections
	Night	Take a photo with options for shooting at night
	Scene	Take a photo with options preset for a specific scene
	Movie	Record a video

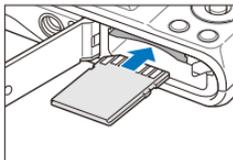
Button	Description																		
	<b>MENU</b> Access options or menus																		
	<b>Navigation</b>																		
	<table border="1"> <tr> <td></td> <td>In Shooting mode</td> <td>While setting</td> </tr> <tr> <td></td> <td><b>DISP</b> Change the display option</td> <td>Move up</td> </tr> <tr> <td></td> <td></td> <td>Change the macro option</td> <td>Move down</td> </tr> <tr> <td></td> <td></td> <td>Change the flash option</td> <td>Move left</td> </tr> <tr> <td></td> <td></td> <td>Change the timer option</td> <td>Move right</td> </tr> </table>		In Shooting mode	While setting		<b>DISP</b> Change the display option	Move up			Change the macro option	Move down			Change the flash option	Move left			Change the timer option	Move right
	In Shooting mode	While setting																	
	<b>DISP</b> Change the display option	Move up																	
		Change the macro option	Move down																
		Change the flash option	Move left																
		Change the timer option	Move right																
	<b>OK</b> Confirm the highlighted option or menu																		
	<b>Playback</b> Enter Playback mode																		
	<b>Function</b> <ul style="list-style-type: none"> <li>• Access options in Shooting mode</li> <li>• Delete files in Playback mode</li> </ul>																		

# Inserting the battery and memory card

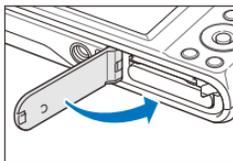
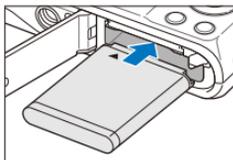
Learn to insert the battery and an optional memory card into the camera.



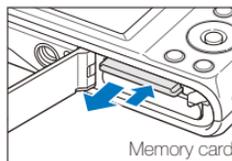
Insert a memory card with the gold-colored contacts facing up.



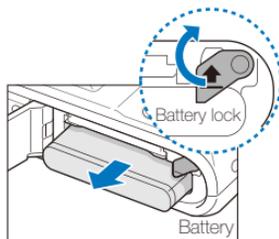
Insert the battery with the Samsung logo facing up.



## Removing the battery and memory card



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



Push the lock up to release the battery.

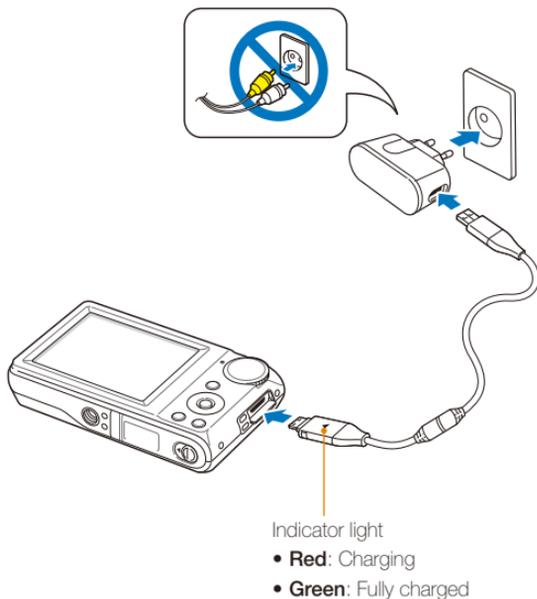


The internal memory can be used as a temporary storage device when the memory card is not inserted. Insert memory cards to save additional photos and videos.

# Charging the battery and turning your camera on

## Charging the battery

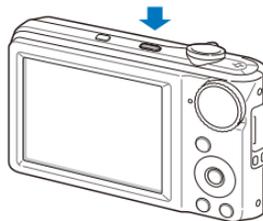
Before using the camera for the first time, you must charge the battery. Attach the USB cable to the AC adapter and then plug the end of cable with the indicator light into your camera.



## Turning on your camera

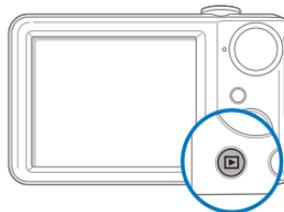
Press **[POWER]** to turn your camera on or off.

- The initial setup screen appears when you turn on the camera for the first time. (p. 17)



### Turning on your camera in Playback mode

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

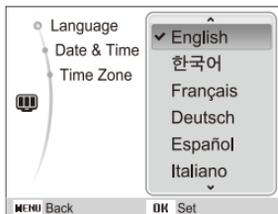


When you turn on your camera by pressing and holding **[▶]** for about 5 seconds, the camera does not emit any camera sounds.

# Performing the initial setup

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

- 1 Press [POWER].
  - The initial setup screen appears when you turn on the camera for the first time.
- 2 Press [OK] to select **Language** and press [OK] or [OK].

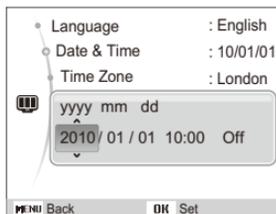


- 3 Press [DISP] or [OK] to select a language and press [OK].
- 4 Press [DISP] or [OK] to select **Time Zone** (Time Zone) and press [OK] or [OK].

- 5 Press [DISP] or [OK] to select a time zone and press [OK].
  - To set the daylight-saving time, press [DISP].



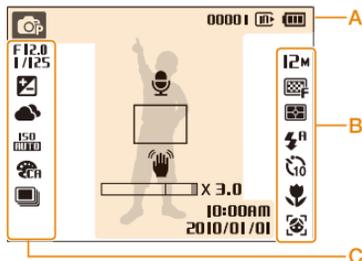
- 6 Press [DISP] or [OK] to select **Date & Time** (Date & Time) and press [OK] or [OK].
- 7 Press [DISP] or [OK] to select an item.



- 8 Press [DISP] or [OK] to set the date and time or select a date format, and press [OK].

# Learning icons

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



## A. Information

Icon	Description
	Selected shooting mode
<b>00001</b>	Available number of photos
<b>00:00:20</b>	Available recording time
	Internal memory
	Memory card inserted
	<ul style="list-style-type: none"> <li> : Fully charged</li> <li> : Partially charged</li> <li> : Charging needed</li> </ul>
	Voice memo

Icon	Description
	Auto focus frame
	Camera shake
	Zoom ratio
<b>10:00 AM</b> <b>2010/01/01</b>	Current date and time

## B. Icons on the right

Icon	Description
<b>12M</b>	Photo resolution
<b>640</b>	Video resolution
	Frame rate
	Photo quality
	Metering option
	Flash option
	Timer option
	Auto focus option
	Face detection
	Voice muted

## C. Icons on the left

Icon	Description
<b>F12.0</b> <b>1/125</b>	Aperture and shutter speed
<b>LT</b>	Long time shutter
	Exposure value
	White balance
	Face tone
	Face retouch
<b>ISO</b> <b>auto</b>	ISO speed
	Photo style
	Image adjustment (contrast, sharpness, saturation)
	Burst type

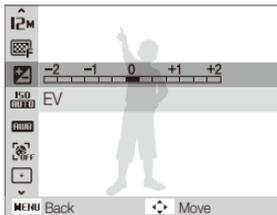
# Selecting options

You can select options by pressing **[MENU]** and using the navigation buttons (**[DISP]**, **[↑]**, **[↓]**, **[←]**, **[→]**).



You can also access shooting options by pressing **[Fn]** but some options are not available.

- 1 In Shooting mode, press **[MENU]**.
- 2 Use the navigation buttons to scroll to an option or menu.
  - To move left or right, press **[←]** or **[→]**.
  - To move up or down, press **[DISP]** or **[↑]**.



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

## Going back to the previous menu

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



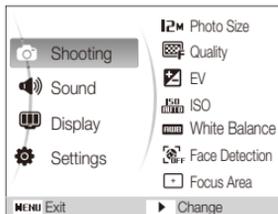
Press **[Shutter]** to return to Shooting mode.

**E.g. Selecting a white balance option in the P mode**

1 Rotate the mode dial to **P**.

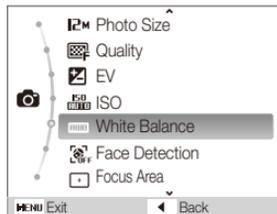


2 Press **[MENU]**.

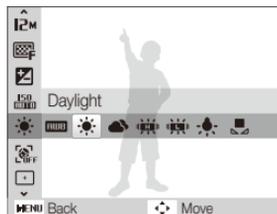


3 Press **[DISP]** or **[** to scroll to **Shooting** and then press **[** or **[OK]**.

4 Press **[DISP]** or **[** to scroll to **White Balance** and then press **[** or **[OK]**.



5 Press **[** or **[** to scroll to a white balance option.



6 Press **[OK]**.

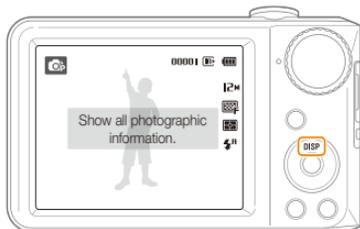
# Setting the display and sound

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

## Changing the display type

Select a style of display for Shooting or Playback mode.

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



Mode	Description
Shooting	<ul style="list-style-type: none"><li>• Display all information about shooting</li><li>• Hide information about shooting, except the available number of photos (or available recording time) and the battery icon</li></ul>
Playback	<ul style="list-style-type: none"><li>• Display all information about the current photo</li><li>• Hide all information about the current file</li><li>• Display information about the current file, except the shooting settings and captured date</li></ul>

## Setting the sound

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

- 1 In Shooting or Playback mode, press **[MENU]**.
- 2 Select **Sound** → **Beep Sound** → an option.

Option	Description
Off	The camera does not emit any sounds.
1/2/3	The camera emits sounds.

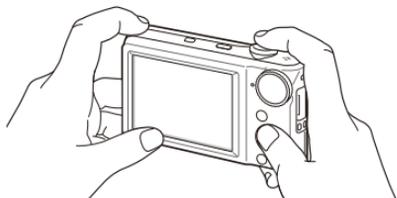
# Taking photos

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

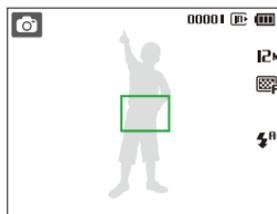
- 1 Rotate the mode dial to **AUTO**.



- 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.

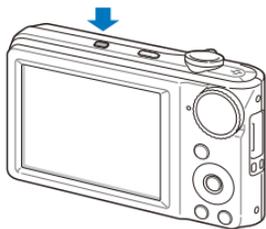


See page 25 for tips to get clearer photos.

## Turning on the front display

The front display will help you take a self-portraits or photos of children. You can also use the Couple mode with the front display. (p. 35)

Press **[Front LCD]** to turn on the front display.



- When you set timer options, the front display will remain active. (p. 41)
- When you turn on the front display, the icons on the main display may not be shown and the main display may dim.
- When you use the camera in brightly lit or sunny areas, you may not be able to see the front display clearly.

## Zooming

You can shoot close-up photos by adjusting the zoom. Your camera has a 3X optical zoom and 3X digital zoom. By using both, you can zoom in up to 9 times.

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



Zoom ratio

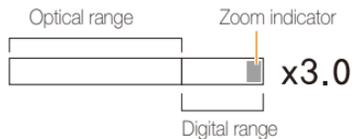
Zoom out



Zoom in

### Digital zoom

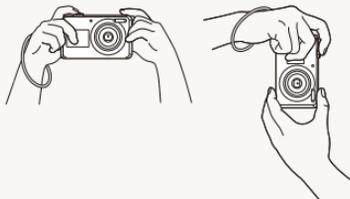
If the zoom indicator is in the digital range, your camera is using the digital zoom. The picture quality may deteriorate when you use the digital zoom.



- The digital zoom is not available when using **SMART**, **DIS**, **SCN** (in some scenes), **C**, and **AF** modes and when used with **Face Detection**.
- It may take longer to save a photo when using the digital zoom.

## Tips for getting a clearer photo

### Holding your camera correctly

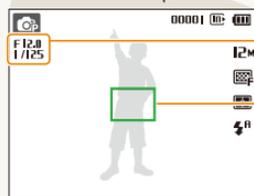


Make sure nothing is blocking the lens.

### Half-pressing the shutter button



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

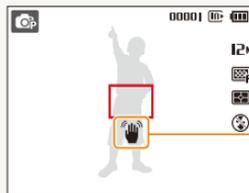
- Press **[Shutter]** to take the photo if displayed in green.
- Change the frame and half-press **[Shutter]** again if displayed in red.

### Reducing camera shake



Select the  mode to reduce camera shake digitally. (p. 32)

### When is displayed



Camera shake

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. 42)
- Set ISO speed options. (p. 43)

## 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 color 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 center of the frame



### Use the focus lock

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

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



- When you take photos in low light



Turn on the flash.  
(p. 42)

- When subjects are moving fast



Use the continuous  
or motion capture  
function. (p. 52)

# Extended functions

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

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# 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.

1 Rotate the mode dial to .

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
	Appears when taking photos of landscapes.
	Appears when taking photos of bright white backgrounds.
	Appears when taking photos of landscapes at night. This is available only when the flash is off.

Icon	Description
	Appears when taking portraits at night.
	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 colorful subjects.
	Appears when taking close-up portraits of people.
	Appears when the camera and subject are stable for a while. This is available only when you are shooting in the dark.
	Appears when taking photos of actively moving subjects.

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

4 Press [**Shutter**] to take the photo.



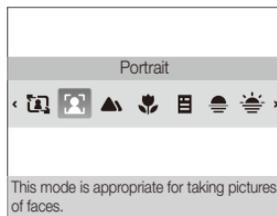
- If the camera does not recognize a proper scene mode,  will appear and the default settings will be used.
- Even if there is a face detected, the camera may not select a portrait mode depending on the subject's position or lighting.
- The camera may not select the correct scene depending on shooting 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 Rotate the mode dial to **SCN**.

2 Select a scene.



- To change the scene mode, press [**MENU**] and select **Scene** → a scene.
- For the Frame Guide mode, see "Using the frame guide" on page 30.
- For the Night mode, see "Using the Night mode" on page 30.

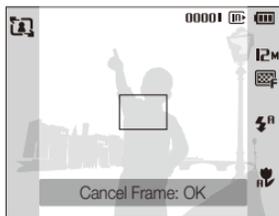
3 Align your subject in the frame and half-press [**Shutter**] to focus.

4 Press [**Shutter**] to take the photo.

## 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 Rotate the mode dial to **SCN**.
- 2 Select **Frame Guide**.
- 3 Align your subject in the frame and press **[Shutter]**.
  - Transparent guides will appear on the left and right of the frame.



- 4 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.
- 5 To cancel the guides, press **[OK]**.

## Using the Night mode

Use the Night mode to take a photo with options for shooting at night. Use a tripod to prevent your camera from shaking.

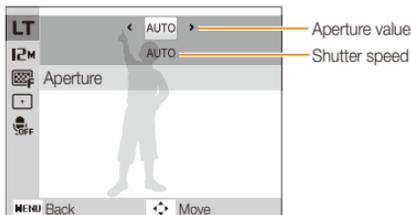
- 1 Rotate the mode dial to **☾**.
- 2 Align your subject in the frame and half-press **[Shutter]** to focus.
- 3 Press **[Shutter]** to take the photo.

### 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 Rotate the mode dial to **☾**.
- 2 Press **[MENU]**.
- 3 Select **Shooting** → **Long Time Shutter**.

- 4 Select the aperture value or shutter speed.



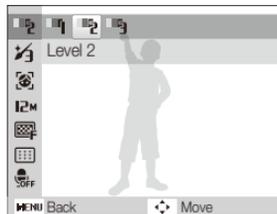
- 5 Select an option.
- If you select **AUTO**, the aperture value or shutter speed will be adjusted automatically.
- 6 Align your subject in the frame and half-press [**Shutter**] to focus.
- 7 Press [**Shutter**] to take the photo.

 Use a tripod to prevent your photos from blurring.

## Using the Beauty Shot mode

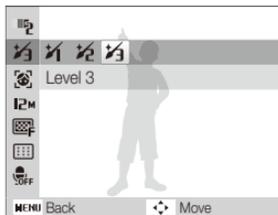
Take a photo of a person with options to hide facial imperfections.

- 1 Rotate the mode dial to .
- 2 To make the subject's skin tone appear lighter (face only), press [**MENU**].
- 3 Select **Shooting** → **Face Tone** → an option.
  - Select a higher setting to make skin tone appear lighter.



- 4 To hide facial imperfections, press [**MENU**].

- 5 Select **Shooting** → **Face Retouch** → an option.
- Select a higher setting to hide a greater number of imperfections.

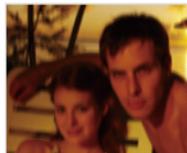


- 6 Align your subject in the frame and half-press [**Shutter**] to focus.
- 7 Press [**Shutter**] to take the photo.

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

## Using the DIS mode

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



Before correction



After correction

- 1 Rotate the mode dial to **DIS**.
- 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.
- If your subject is moving rapidly, the photo may be blurry.

## Using the Program mode

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

- 1 Rotate the mode dial to **P**.
- 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.

## Recording a video

Record videos of up to 2 hours in length.  
The recorded video is saved as an MJPEG file.



Some memory cards may not support high definition recording. In this case, set a lower resolution. (p. 40)

- 1 Rotate the mode dial to **📹**.
- 2 Press [**MENU**].
- 3 Select **Movie** → **Frame Rate** → 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.

- 4 Press **[MENU]**.
- 5 Select **Movie** → **Voice** → a sound option.

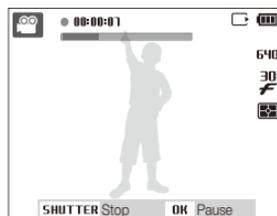
Option	Description
	<b>On:</b> Record a video with sound. (While you are zooming, sound recording will be interrupted.)
	<b>Off:</b> Record a video without sound.

- 6 Set other options as desired.  
(For options, refer to “Shooting options.”)
- 7 Press **[Shutter]** to start recording.
- 8 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 favorite scenes as a single video.

Press **[OK]** to pause while recording. Press it again to resume.



# Taking photos with the front display

The front display will help take self-portraits or photos of children. You can also use the Couple mode with the front display.



- When you press **[Front LCD]** repeatedly, the shooting mode changes from Self-portrait mode to Couple mode or to Children mode. When recording videos, you cannot use the Couple mode.
- In some shooting modes, the front display does not display a frame to indicate the detected face and the Self-portrait mode and the Couple mode are not available.

## Using the Self-portrait mode

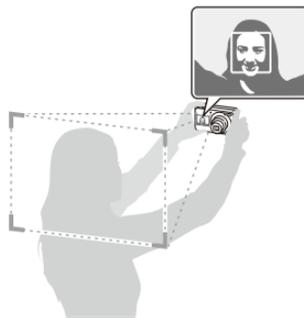
Take photos of yourself conveniently using the front display.



You can set the camera to automatically release the shutter when it detects a smiling face while taking a photo with the front display. (p. 80)

1 In Shooting mode, press **[Front LCD]** once.

- Your camera will detect your face automatically and display a frame to indicate the detected face.



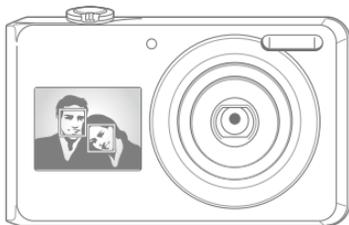
2 Half-press **[Shutter]** to focus.

3 Press **[Shutter]** to take the photo.

## Using the Couple mode

This mode detects two subjects leaning in toward each other and automatically captures images of posing couples.

- 1 In Shooting mode, press **[Front LCD]** twice.



- The white frame means that the faces are recognized.
- The green frame means that the faces are in focus when you half-press **[Shutter]**.

- 2 Lean in toward each other in the frame.



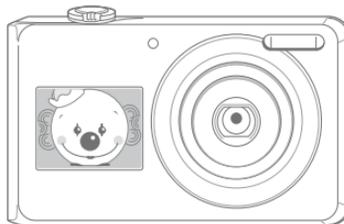
- The camera will detect two faces of the subjects at the same distance from the camera.
- The camera may not detect the composition depending on the pose of couples.

## Using the Children mode

In this mode, you can draw children's attention to the camera by showing a short animation on the front display.

- 1 In Shooting mode, press **[Front LCD]** three times.

- An animation will play.



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



- You can download animations from the website. Visit [www.samsung.com](http://www.samsung.com) or [www.samsungimaging.com](http://www.samsungimaging.com) for more information.
- You can add sounds to animations to draw children's attention. (p. 78)
- You can set the camera to automatically release the shutter when it detects a smiling face while using the Children mode. (p. 80)

## Recording a video with the front display

### Recording a video in the Self-portrait mode

- 1 Rotate the mode dial to .
- 2 Press [**Front LCD**] once.
- 3 Press [**Shutter**] to start recording.
- 4 Press [**Shutter**] again to stop recording.

### Recording a video in the Children mode

- 1 Rotate the mode dial to .
- 2 Press [**Front LCD**] twice.
- 3 Press [**Shutter**] to start recording.
- 4 Press [**Shutter**] again to stop recording.

# Recording voice memos

AUTO P    SCN

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, press **[MENU]**.
- 2 Select **Shooting** → **Voice** → **Record**.
- 3 Press **[Shutter]** to record.
  - You can record voice memos of up to 10 hours in length.
  - Press **[OK]** to pause or resume recording.



- 4 Press **[Shutter]** to stop.
  - Press **[Shutter]** again to record a new voice memo.
- 5 Press **[MENU]** to switch to Shooting mode.

## Adding a voice memo to a photo

- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Shooting** → **Voice** → **Memo**.
- 3 Align your subject in the frame and take a photo.
  - You will begin recording a voice memo right after taking the photo.
- 4 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.

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# Selecting a resolution and quality

Learn how to change the image resolution and quality settings.

## Selecting a resolution

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

### When taking a photo:

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

Option	Description
	<b>4000 X 3000:</b> Print on A1 paper.
	<b>3984 X 2656:</b> Print on A2 paper in wide ratio (3:2).
	<b>3840 X 2160:</b> Print on A2 paper in panorama ratio (16:9) or play back on an HDTV.
<b>8M</b>	<b>3264 X 2448:</b> Print on A3 paper.
<b>5M</b>	<b>2560 X 1920:</b> Print on A4 paper.
<b>3M</b>	<b>2048 X 1536:</b> Print on A5 paper.
	<b>1920 X 1080:</b> Print on A5 paper in panorama ratio (16:9) or play back on an HDTV.
<b>1M</b>	<b>1024 X 768:</b> Attach to email.

### When recording a video:

- 1 In the  mode, press **[MENU]**.
- 2 Select **Movie** → **Movie Size** → an option.

Option	Description
<b>640</b>	<b>640 X 480:</b> Play back on a general TV.
<b>320</b>	<b>320 X 240:</b> Post on a web page.

## Selecting image quality

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

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

Option	Description
	<b>Super Fine</b>
	<b>Fine</b>
	<b>Normal</b>

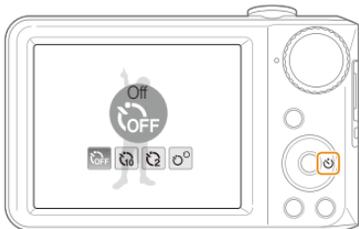
The options may differ depending on the shooting mode.

# Using the timer

AUTO P

Learn how to set the timer to delay shooting.

1 In Shooting mode, press [].



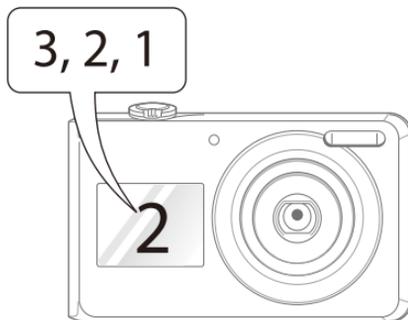
2 Select an option.

Option	Description
	<b>Off:</b> The timer is not active.
	<b>10 Sec:</b> Take a photo in 10 seconds.
	<b>2 Sec:</b> Take a photo in 2 seconds.
	<b>Double:</b> Take a photo in 10 seconds and take another in 2 seconds.

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.
- The front display will start the countdown a few seconds before shooting.



- Press [] to cancel the timer.
- Depending on the selected face detection option, the timer is not available or some timer options are not available.

# Shooting in the dark

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

## Preventing red-eye AUTO P SCN

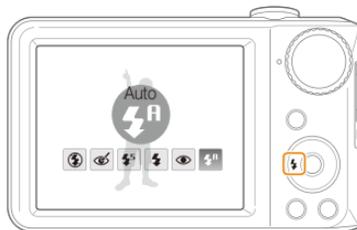
If the flash fires when you take a photo of a person in the dark, a red glow may appear in the eyes. To prevent this, select **Red-eye** or **Red-eye Fix**. Refer to flash options in "Using the flash."



## Using the flash AUTO P SCN SMART

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

1 In Shooting mode, press .



2 Select an option.

Option	Description
	<b>Off:</b> <ul style="list-style-type: none"><li>The flash will not fire.</li><li>Camera shake warning () will be displayed when shooting in low light.</li></ul>
	<b>Auto:</b> The camera will select a proper flash setting for the detected scene in the  SMART mode.

Option	Description
	<p><b>Red-eye Fix*:</b></p> <ul style="list-style-type: none"> <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>
	<p><b>Slow Sync:</b></p> <ul style="list-style-type: none"> <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>
	<p><b>Fill in:</b></p> <ul style="list-style-type: none"> <li>The flash always fires.</li> <li>Light intensity is adjusted automatically.</li> </ul>
	<p><b>Red-eye*:</b></p> <ul style="list-style-type: none"> <li>The flash fires when the subject or background is dark.</li> <li>The camera reduces red-eyes.</li> </ul>
	<p><b>Auto:</b> The flash fires automatically when the subject or background is dark.</p>

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**.
- Make sure that your subjects are within the recommended distance from the flash. (p. 91)
- If there is reflected light or much dust in the air, tiny spots may appear on your photo.

## Adjusting the ISO speed P

The ISO speed is the measure of a film's sensitivity to light as defined by the International Organization for Standardization (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 photo without using the flash.

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

2 Select **Shooting** → **ISO** → an option.

- 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.
- When **Motion Capture** is set, ISO speed will be set to **Auto**.

# Changing the camera's focus

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

## Using macro

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

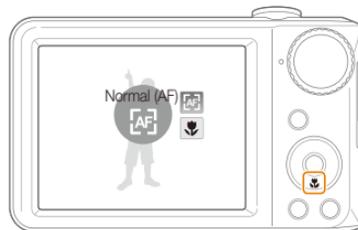


- Try to hold the camera very still to prevent blurry photos.
- Turn off the flash if the distance to the subject is less than 40 cm.

## Using auto focus

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

1 In Shooting mode, press .



2 Select an option.

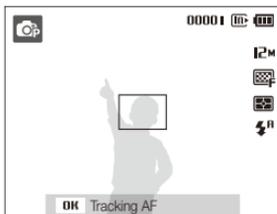
Option	Description
	<b>Normal (AF):</b> Focus on a subject farther than 80 cm (farther than 1 m when using zoom).
	<b>Macro:</b> Focus on a subject 10-80 cm (50-80 cm when using zoom).
	<b>Auto Macro:</b> Focus on a subject farther than 10 cm (farther than 50 cm when using zoom).

The options may differ depending on the shooting mode.

## Using tracking auto focus AUTO P ☺ SCN

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

- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Shooting** → **Focus Area** → **Tracking AF**.
- 3 Focus on the subject you want to track and press **[OK]**.
  - 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]**.



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

## Adjusting the focus area

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

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

Option	Description
	<b>Center AF:</b> Focus on the center (suitable when subjects are located in the center).
	<b>Multi AF:</b> Focus on one or more of 9 possible areas.
	<b>Tracking AF:</b> Focus on and track the subject. (p. 45)

The options may differ depending on the shooting mode.

# Using face detection

AUTO P   SCN

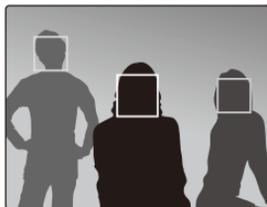
If you use face detection options, your camera can automatically detect a human face. When you focus on a human face, the camera adjusts the exposure automatically. Take photos quickly and easily by using **Blink Detection** to detect closed eyes or **Smile Shot** to capture a smiling face.



- 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 or image adjustment option or when used with **Tracking AF**.
- Face detection is not available when using the digital zoom.
- Depending on the selected face detection 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.

## Detecting faces

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



- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Shooting** → **Face Detection** → **Normal**.
  - 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.

## Taking a smile shot

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



- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Shooting** → **Face Detection** → **Smile Shot**.
  - 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.



- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Shooting** → **Face Detection** → **Blink Detection**.



- 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.

# Adjusting brightness and color

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

## Adjusting the exposure manually

(EV)   

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



Darker (-)



Neutral (0)



Brighter (+)

- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Shooting** → **EV**.
- 3 Select a value to adjust the exposure.



- 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. 52)

## Compensating for backlighting (ACB) P

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, press **[MENU]**.
- 2 Select **Shooting** → **ACB** → an option.

Option	Description
 <b>Off</b>	<b>Off:</b> ACB is off.
 <b>On</b>	<b>On:</b> ACB is on.



- The ACB feature is always on in the **AUTO** mode.
- You cannot set burst options when this feature is on.

## Changing the metering option P

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, press **[MENU]**.
- 2 Select **Shooting** → **Metering** → an option.

Option	Description
	<p><b>Multi:</b></p> <ul style="list-style-type: none"> <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>
	<p><b>Spot:</b></p> <ul style="list-style-type: none"> <li>• Your camera measures only the light intensity of the very center of the frame.</li> <li>• If a subject is not in the center of the scene, your photo may be improperly exposed.</li> <li>• Suitable for a subject with backlighting.</li> </ul>
	<p><b>Center-weighted:</b></p> <ul style="list-style-type: none"> <li>• Your camera averages the meter reading of the entire frame with emphasis placed on the center.</li> <li>• Suitable for photos with subjects in the center of the frame.</li> </ul>

## Selecting a light source (White balance) P

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



 (Auto WB)



 (Daylight)



 (Cloudy)



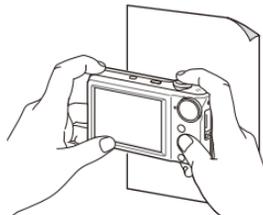
 (Tungsten)

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

Icon	Description
	<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.
	<b>Fluorescent_H:</b> Select when shooting under a daylight fluorescent or three-way fluorescent light.
	<b>Fluorescent_L:</b> Select when shooting under white fluorescent light.
	<b>Tungsten:</b> Select when taking indoor photos under incandescent bulbs or halogen lamps.
	<b>Measure: Shutter</b> (Custom setting): Use your pre-defined settings.

#### Defining your own white balance

- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Shooting** → **White Balance** → **Measure: Shutter**.
- 3 Aim the lens at a piece of white paper.



- 4 Press **[Shutter]**.

# Using burst modes P

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, press **[MENU]**.
- 2 Select **Shooting** → **Drive** → an option.

Option	Description
	<b>Single:</b> Take a single photo.
	<b>Continuous:</b> <ul style="list-style-type: none"><li>• While you are pressing <b>[Shutter]</b>, the camera takes photos continuously.</li><li>• The maximum number of photos depends on the capacity of your memory card.</li></ul>
	<b>Motion Capture:</b> <ul style="list-style-type: none"><li>• While you are pressing <b>[Shutter]</b>, the camera takes VGA photos (6 photos per second; maximum of 30 photos).</li><li>• The camera automatically shows you the photos just taken and then saves them.</li></ul>

Option	Description
	<b>AEB:</b> <ul style="list-style-type: none"><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, 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, colors, or make some adjustments.

## Applying photo styles AUTO P Ⓜ Ⓜ Ⓜ

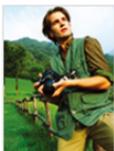
Apply a different photo style to your photos, such as Soft, Vivid, or Forest.



Soft



Vivid



Forest

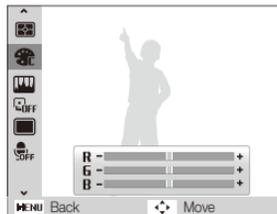
- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Shooting** → **Photo Style Selector** → an option.
  - Select **Custom RGB** to define your own RGB tone.



If you use this function, you cannot set the face detection and image adjustment options.

## Defining your own RGB tone

- 1 In Shooting mode, press **[MENU]**.
- 2 Select **Shooting** → **Photo Style Selector** → **Custom RGB**.
- 3 Select a color (R: Red, G: Green, B: Blue).



- 4 Adjust the amount of the selected color.  
(-: less or +: more)

## Adjusting your photos P

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

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

2 Select **Shooting** → **Image Adjust**.

3 Select an adjustment option.

- Contrast
- Sharpness
- Saturation

4 Select a value to adjust the selected item.

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

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.

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



- Select **0** if you do not want to apply any effects. (suitable for printing)
- Depending on the selected image adjustment option, some photo styles are not available.

# Playback/Editing

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

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# Playing back

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

## Starting Playback mode

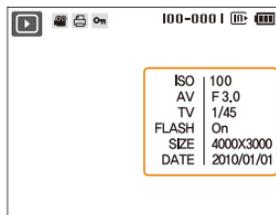
View photos or play videos and voice memos stored in your camera.

- 1 Press [▶].
  - The most recent file you have taken or recorded will be displayed.
  - If the camera is off, it will turn on.
- 2 Press [⚡] or [⏪] to scroll through files.
  - Press and hold to scroll through files quickly.



- 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.

### Display in Playback mode



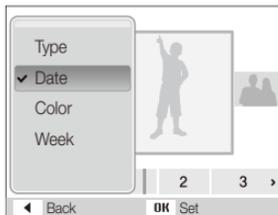
Information

Icon	Description
	Photo includes a voice memo
	Video file
	Print order has been set (DPOF)
	Protected file
<b>100-0001</b>	Folder name – File name

### Viewing files by category in Smart Album

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

- 1 In Playback mode, rotate [Zoom] left.
- 2 Press [MENU].
- 3 Select a category.



Option	Description
Type	View files by the file type.
Date	View files by the date they were saved.
Color	View files by the dominant color of the image.
Week	View files by the weekday they were saved.



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

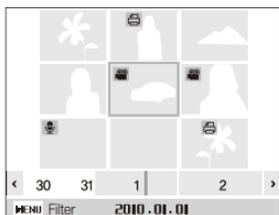
- 4 Press [⏪] or [⏩] to scroll through files.
  - Press and hold to scroll through files quickly.
- 5 Press [OK] to return to the normal view.

### Viewing files as thumbnails

Scan thumbnails of files.



In Playback mode, rotate **[Zoom]** left to display 9 or 20 thumbnails (rotate **[Zoom]** right to return to the previous mode).

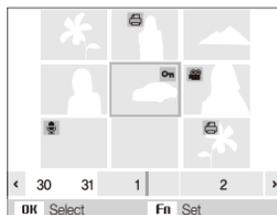


To	Do this
Scroll through files	Press <b>[DISP]</b> , <b>[ZOOM]</b> , <b>[ZOOM]</b> , or <b>[ZOOM]</b> .
Delete files	Press <b>[Fn]</b> and select <b>Yes</b> .

### Protecting files

Protect your files from accidental deletion.

- 1 In Playback mode, press **[MENU]**.
- 2 Select **File Options** → **Protect** → **Select**.
  - To protect all files, select **All** → **Lock**.
- 3 Select the file you want to protect and press **[OK]**.
  - Press **[OK]** again to cancel your selection.



- 4 Press **[Fn]**.

### 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 and press **[Fn]**.
- 2 Select **Yes** to delete the file.

#### To delete multiple files,

- 1 In Playback mode, press **[Fn]**.
- 2 Select **Multiple Delete**.
- 3 Select files you want to delete and press **[OK]**.
  - Press **[OK]** again to cancel your selection.
- 4 Press **[Fn]**.
- 5 Select **Yes**.

#### To delete all files,

- 1 In Playback mode, press **[MENU]**.
- 2 Select **File Options** → **Delete** → **All** → **Yes**.

### Copying files to the memory card

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

- 1 In Playback mode, press **[MENU]**.
- 2 Select **File Options** → **Copy to Card**.
- 3 Select **Yes** to copy files.

## Viewing photos

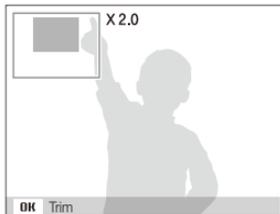
Zoom in on part of a photo or view photos in a slide show.

### Enlarging a photo



In Playback mode, rotate **[Zoom]** right to enlarge a photo (rotate **[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.



To	Do this
Move the enlarged area	Press <b>[DISP]</b> , <b>[ZOOM]</b> , <b>[ZOOM]</b> , or <b>[ZOOM]</b> .
Trim the enlarged photo	Press <b>[OK]</b> (it will be saved as a new file).

### Starting a slide show

You can apply effects and audio to your slide show.

- 1 In Playback mode, press **[MENU]**.
- 2 Select **Multi Slide Show**.
- 3 Select a slide show effect option.
  - Skip to step 5 to start a slide show with no effects.

Option	Description
<b>Images</b>	Set the photos you want to view as a slide show. <ul style="list-style-type: none"> <li>• <b>All:</b> View all photos in a slide show.</li> <li>• <b>Date:</b> View photos captured on a specific date in a slide show.</li> <li>• <b>Select:</b> View selected photos in a slide show.</li> </ul>
<b>Interval</b>	<ul style="list-style-type: none"> <li>• Set the interval between photos.</li> <li>• This is available when <b>Off</b> is selected in the effect option.</li> </ul>
<b>Music</b>	Select a background audio.
<b>Effect</b>	<ul style="list-style-type: none"> <li>• Select a transition effect.</li> <li>• Select <b>Off</b> for no effects.</li> </ul>

4 Set the slide show effect.

5 Select **Start** → **Play**.

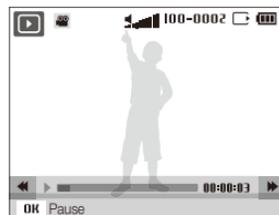
- To loop the slide show, select **Repeat**.
- Press **[OK]** to pause or resume the slide show.



To stop the slide show and switch to Playback mode, press **[OK]** and then **[↶]** or **[↷]**.

## Playing a video

1 In Playback mode, select a video and press **[OK]**.



2 Use the following buttons to control playback.

Press	To
<b>[↶]</b>	Scan backward.
<b>[OK]</b>	Pause or resume playback.
<b>[↷]</b>	Scan forward.
<b>[Zoom] left or right</b>	Adjust the volume level.

### Capturing an image during playback

- 1 Press **[OK]** at the point where you want to save a still image.
- 2 Press .



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

## Playing voice memos

### Playing a voice memo

- 1 In Playback mode, select a voice memo and press **[OK]**.
- 2 Use the following buttons to control playback.

Press	To
	Scan backward.
<b>[OK]</b>	Pause or resume playback.
	Scan forward.
	Stop playback.
<b>[Zoom]</b> left or right	Adjust the volume level.

### Adding a voice memo to a photo

- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **File Options** → **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

- In Playback mode, select a photo that includes a voice memo and press **[OK]**.
- Press **[OK]** to pause or resume playback.

# Editing a photo

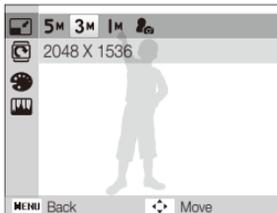
Perform photo editing tasks, such as resizing, rotating, eliminating red-eyes, and adjusting brightness, contrast, or saturation.



Edited photos will be saved as new files.

## Resizing photos

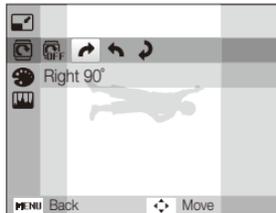
- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **Edit** → **Resize** → an option.
  - Select  to save the photo as a start image. (p. 78)



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

## Rotating a photo

- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **Edit** → **Rotate** → an option.



## Applying photo styles

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



Soft

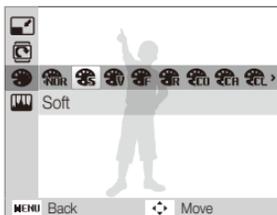


Vivid



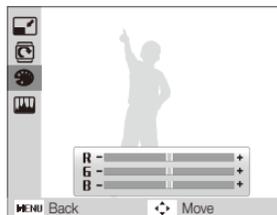
Forest

- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **Edit** → **Photo Style Selector** → an option.
  - Select **Custom RGB** to define your own RGB tone.



## Defining your own RGB tone

- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **Edit** → **Photo Style Selector** → **Custom RGB**.
- 3 Select a color (R: Red, G: Green, B: Blue).



- 4 Adjust the amount of the selected color.  
(-: less or +: more)

## Correcting exposure problems

Adjust ACB (Auto Contrast Balance), brightness, contrast, or saturation; remove red-eye; hide facial imperfections; or add noise to the photo.

### Adjusting ACB (Auto Contrast Balance)

- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **Edit** → **Image Adjust** → **ACB**.

### Removing red-eye

- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **Edit** → **Image Adjust** → **Red-eye Fix**.

### Hiding facial imperfections

- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **Edit** → **Image Adjust** → **Face Retouch**.
- 3 Select a level.
  - As the number increases, the face becomes clearer.

### Adjusting brightness/contrast/saturation

- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **Edit** → **Image Adjust**.
- 3 Select an adjustment option.
  - : Brightness
  - : Contrast
  - : Saturation
- 4 Select a value to adjust the selected item.  
(-: less or +: more)

### Adding noise to the photo

- 1 In Playback mode, select a photo and press **[MENU]**.
- 2 Select **Edit** → **Image Adjust** → **Add Noise**.

## 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, press **[MENU]**.

2 Select **File Options** → **DPOF** → **Standard** → an option.

Option	Description
<b>Select</b>	Print the selected photos.
<b>All</b>	Print all photos.
<b>Reset</b>	Reset your settings.

3 If you select **Select**, scroll to a photo and rotate **[Zoom]** left or right to select the number of copies. Repeat for the photos you want and press **[Fn]**.

- If you select **All**, press **[DISP]** or **[👉]** to select the number of copies and press **[OK]**.

4 Press **[MENU]**.

5 Select **File Options** → **DPOF** → **Size** → an option.

Option	Description
<b>Select</b>	Specify the print size for the selected photo.
<b>All</b>	Specify the print size for all photos.
<b>Reset</b>	Reset your settings.

6 If you select **Select**, scroll to a photo and rotate **[Zoom]** left or right to select the print size. Repeat for the photos you want and press **[Fn]**.

- If you select **All**, press **[DISP]** or **[👉]** to select the print size and press **[OK]**.

### Printing photos as thumbnails

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

2 Select **File Options** → **DPOF** → **Index** → **Yes**.

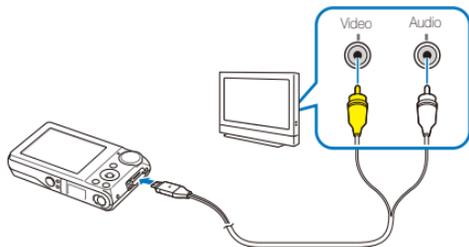


If you specify the print size, you can print photos only with DPOF 1.1-compatible printers.

# Viewing files on a TV

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

- 1 In Shooting or Playback mode, press **[MENU]**.
- 2 Select **Settings** → **Video Out**.
- 3 Select a video signal output according to your country or region.
- 4 Turn off your camera and TV.
- 5 Connect your camera to your TV using the A/V cable.



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

- 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 buttons on your camera.

# Transferring files to your computer (for Windows)

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

## Installing Intelli-studio

### Requirements for Intelli-studio

Item	Requirements
CPU	Intel Pentium 4, 3.0 GHz or higher/ AMD Athlon™ FX 2.2 GHz or higher
RAM	Minimum 512 MB RAM (1 GB and above recommended)
OS	Windows XP SP2/Vista/7
Hard disk capacity	250 MB or more (1 GB or more recommended)
Others	<ul style="list-style-type: none"><li>• CD-ROM drive</li><li>• nVIDIA Geforce 7600GT or higher/ATI X1600 series or higher</li><li>• 1024 x 768 pixels, 16-bit color display compatible monitor (1280 x 1024 pixels, 32-bit color display recommended)</li><li>• USB port, Microsoft DirectX 9.0c or later</li></ul>



- 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 XP/Vista/7 or Mac OS 10.4 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.

### Installing Intelli-studio

- 1 Insert the installation CD in a compatible CD-ROM drive.
- 2 When the setup screen is displayed, click **Samsung Digital Camera Installer** to start installation.



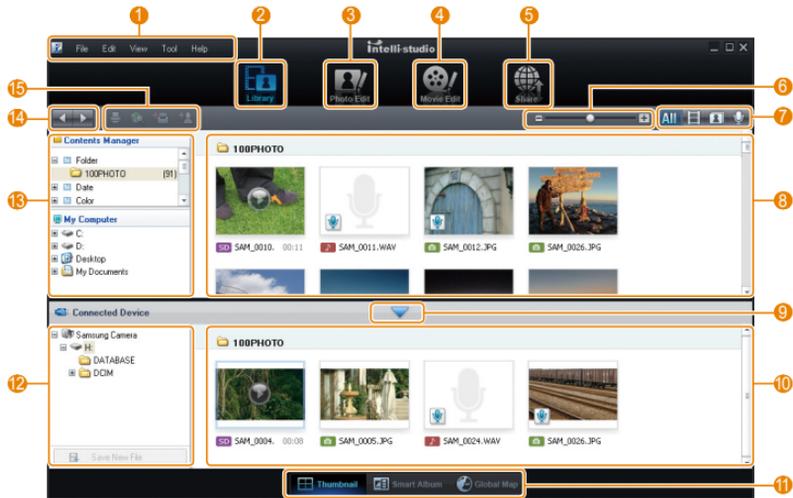
- 3 Select programs to install and follow the onscreen instructions.
- 4 Click **Exit** to complete the installation and restart your computer.

### Using Intelli-studio

Intelli-studio is a 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 **Help** → **Help** in the program.



- 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:
  - Videos: MP4 (Video: MJPEG, Audio: WAV), WMV (WMV 7/8/9), AVI (MJPEG)
  - Photos: JPG, GIF, BMP, PNG, TIFF



Icon	Description
1	Open menus
2	Display files in the selected folder
3	Change to the Photo edit mode
4	Change to the Video edit mode
5	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
7	Select a file type
8	View files of the selected folder on your computer
9	Show or hide files of the connected camera
10	View files of the selected folder on the camera
11	View files as thumbnails, in Smart Album, or on a map
12	Browse folders in the connected device
13	Browse folders in your computer
14	Move to the previous or next folder
15	Print files, view files on a map, store files in My Folder, or register faces

## Transferring files using Intelli-studio

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

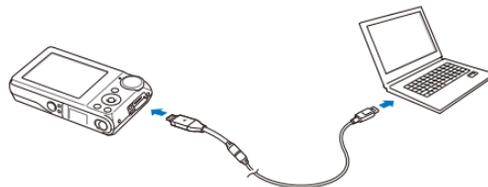


The battery will be charged while the camera is connected to a computer with the USB cable.

- 1 Connect the camera to your computer with the USB cable.



You must plug the end of the cable with the indicator light (▲) 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 recognizes the camera automatically.



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

## 3 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.

## 4 Select **Yes**.

- New files will be transferred to the computer.



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

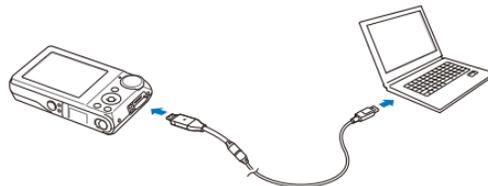
## Transferring files by connecting the camera as a removable disk

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

### 1 Connect the camera to your computer with the USB cable.



You must plug the end of the cable with the indicator light (▲) 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 recognizes the camera automatically.



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

3 On your computer, select **My Computer** → **Removable Disk** → **DCIM** → **100PHOTO**.

4 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 Vista/7 is similar.

- 1 If the status lamp on your camera is blinking, wait until it stops.
- 2 Click  on 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.

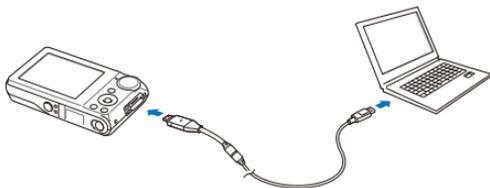
# Transferring files to your computer (for Mac)

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

 Mac OS 10.4 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 (▲) 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 recognizes the camera automatically and a removable disk icon will be displayed.

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

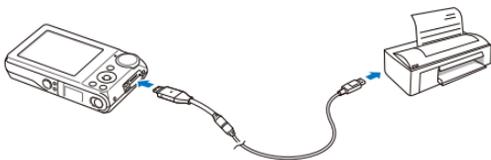
## 3 Double-click the removable disk icon.

## 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.

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



- 2 Turn on your camera.

- The printer recognizes 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. 80)

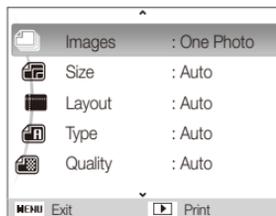
- 3 Press [**⏏**] or [**⏏**] to select a photo.

- Press [**MENU**] to set printing options. See "Configuring print settings."

- 4 Press [**OK**] to print.

- Printing starts. Press [**⏏**] to cancel printing.

## Configuring print settings



Option	Description
	<b>Images:</b> Select whether to print the current photo or all photos.
	<b>Size:</b> Specify the size of the print.
	<b>Layout:</b> Create thumbnail prints.
	<b>Type:</b> Select the type of paper.
	<b>Quality:</b> Set the printing quality.
	<b>Date:</b> Set to print the date.
	<b>File Name:</b> Set to print the name of the file.
	<b>Reset:</b> Reset the print options.



Some options are not supported by some printers.

# Appendixes

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

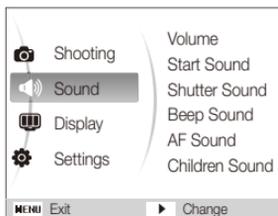
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# Camera settings menu

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

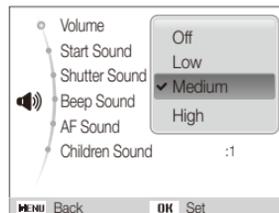
## Accessing the settings menu

- 1 In Shooting or Playback mode, press **[MENU]**.
- 2 Select a menu.



Menu	Description
	<b>Sound:</b> Set various camera sounds and volume. (p. 78)
	<b>Display:</b> Customize the display settings, such as language and brightness. (p. 78)
	<b>Settings:</b> Change the settings for the camera system, such as memory format, default file name, and USB mode. (p. 79)

- 3 Select an option and save your settings.



- 4 Press **[MENU]** to return to the previous screen.

## Sound

\* Default

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

## Display

\* Default

Item	Description
Language	Select a language for the display text.
Function Description	Display a brief description of an option or menu. (Off, On*)
Start Image	<p>Set a start image to display when the camera turns on.</p> <ul style="list-style-type: none"> <li>• <b>Off*</b>: Display no start image.</li> <li>• <b>Logo</b>: Display a default image stored in the internal memory.</li> <li>• <b>User Image</b>: Display the image you want. (p. 63)</li> </ul>  <ul style="list-style-type: none"> <li>• Only one start image will be saved in the internal memory.</li> <li>• If you select a new photo as a start image or reset your camera, the current image will be deleted.</li> <li>• A wide image or image in 3:2 ratio cannot be set as a start image.</li> </ul>
Display Brightness	<p>Adjust the brightness of the screen. (Auto*, Dark, Normal, Bright)</p>  <b>Normal</b> is fixed in Playback mode even if <b>Auto</b> is selected.

\* Default

Item	Description
Quick View	Set the duration for reviewing a captured image before returning to Shooting mode. <b>(Off, 0.5 sec*, 1 sec, 3 sec)</b>
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). <b>(Off*, On)</b>  If the Power save mode is deactivated, the main display will dim to save battery life when you perform no operations for about 30 seconds.

## Settings

\* Default

Item	Description
Format	Format the internal memory and the memory card (all files-including the protected files-will be deleted). <b>(Yes, No)</b>  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.

\* Default

Item	Description
Reset	Reset menus and shooting options (date and time, language, and video output settings will not be reset). <b>(Yes, No)</b>
Date & Time	Set the date and time and select a date format. <b>(Off*, dd/mm/yyyy, mm/dd/yyyy, yyyy/mm/dd)</b>
Time Zone	Select a region and set the daylight-saving time (DST).
File No.	Specify how to name files. <ul style="list-style-type: none"> <li>• <b>Reset:</b> Set the file number to start from 0001 when inserting a new memory card, formatting a memory card, or deleting all files.</li> <li>• <b>Series*:</b> 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> </ul>  <ul style="list-style-type: none"> <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>

\* Default

Item	Description
Imprint	<p>Set whether to display the date and time on your photos when printing. <b>(Off*, Date, Date &amp; Time)</b></p>  <ul style="list-style-type: none"> <li>The date and time will be displayed on the bottom-right corner of the photo in yellow.</li> <li>The date and time may not be printed on some printer models.</li> <li>If you select <b>Text</b> in the <b>SCN</b> mode, the date and time will not be displayed.</li> </ul>
Auto Power Off	<p>Set the camera to automatically turn off when you are not using it. <b>(Off, 1 min, 3 min*, 5 min, 10 min)</b></p>  <ul style="list-style-type: none"> <li>Your settings will not change after replacing the battery.</li> <li>The camera will not automatically turn off when:                     <ul style="list-style-type: none"> <li>- it is connected to a computer or printer</li> <li>- you are playing a slide show or videos</li> <li>- you are recording a voice memo</li> </ul> </li> </ul>
Video Out	<p>Set the video signal output according to your region.</p> <ul style="list-style-type: none"> <li><b>NTSC*</b>: USA, Canada, Japan, Korea, Taiwan, Mexico.</li> <li><b>PAL</b> (supports only BDGHI): Australia, Austria, Belgium, China, Denmark, Finland, Germany, England, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand, Norway.</li> </ul>

\* Default

Item	Description
AF Lamp	<p>Set an assistant light to help you focus in dark places. <b>(Off, On*)</b></p>
USB	<p>Set the function to use via a USB connection with a computer or printer.</p> <ul style="list-style-type: none"> <li><b>Auto*</b>: Set your camera to select a USB mode automatically.</li> <li><b>Computer</b>: Connect your camera to a computer for transferring files.</li> <li><b>Printer</b>: Connect your camera to a printer for printing files.</li> </ul>
Front Smile Shot	<p>Set the camera to automatically release the shutter when it detects a smiling face while using the Self-portrait mode. <b>(Off, On*)</b></p>
Children Smile Shot	<p>Set the camera to automatically release the shutter when it detects a smiling face while using the Children mode. <b>(Off, On*)</b></p>

\* Default

Item	Description
Front Display Demo	<p data-bbox="209 232 628 301">Set the camera to play the animation with sound through the front display when you turn it on (for shop display). (<b>Off</b>, <b>On</b>)</p>  <ul data-bbox="259 311 606 443" style="list-style-type: none"><li data-bbox="259 311 606 373">• In Demo mode, you cannot take photos or record videos. To switch to Shooting mode, press any button (except <b>[POWER]</b>).</li><li data-bbox="259 379 606 443">• Demo mode is not available if you turn on the camera in Playback mode or when the camera is connected with another device.</li></ul>

# Error messages

When the following error messages appear, try these remedies.

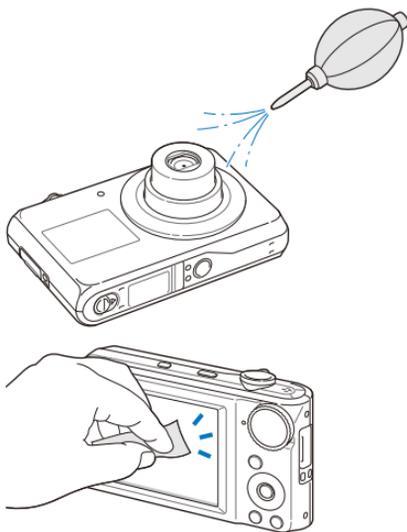
Error message	Suggested remedies
Card Error	<ul style="list-style-type: none"><li>• Turn off your camera and then turn it on again.</li><li>• Remove your memory card and insert it again.</li><li>• Format your memory card. (p. 79)</li></ul>
Card Locked	Unlock the memory card. 
Card not supported.	The inserted memory card is not available with your camera. Insert an appropriate memory card.
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. 79)
File Error	Delete the damaged file or contact a service center.
Low Battery	Insert a charged battery or recharge the battery.
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.

# Camera maintenance

## Cleaning your camera

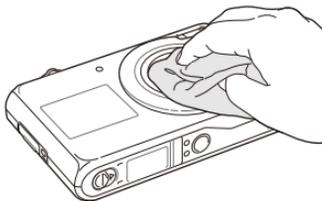
### Camera lens and display

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.

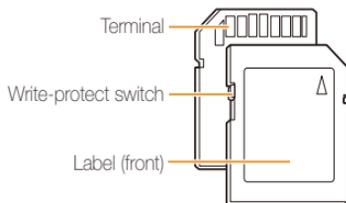


- Never use benzene, thinners, or alcohol to clean the device. These solutions can damage the camera or cause it to malfunction.
- Do not press on the lens cover or use a blower brush on the lens cover.

## About memory cards

### Memory cards you can use

You can use SD (Secure Digital) or SDHC (Secure Digital High Capacity) memory cards.



You can prevent files from being deleted by using a write-protect switch on the SD or SDHC card. Slide the switch down to lock or slide it up to unlock. Unlock the card when shooting.

### Memory card capacity

The memory capacity may differ depending on shooting scenes or shooting conditions. These capacities are based on a 1 GB SD card:

	Size	Super Fine	Fine	Normal	30 FPS	15 FPS
P h o t o s	<b>12M</b>	147	284	403	-	-
	<del>10M</del>	167	313	441	-	-
	<b>9M</b>	202	367	528	-	-
	<b>8M</b>	211	374	537	-	-
	<b>5M</b>	339	566	792	-	-
	<b>3M</b>	510	802	1,065	-	-
	<del>2M</del>	735	1,144	1,437	-	-
	<b>1M</b>	1,287	1,670	1,872	-	-
* V i d e o s	<b>640</b>	-	-	-	Approx. 7' 4"	Approx. 13' 52"
	<b>320</b>	-	-	-	Approx. 26' 20"	Approx. 49' 16"

\* 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	BP70A
Type	Lithium-ion battery
Cell capacity	740 mAh
Voltage	3.7 V
Charging time (when the camera is switched off)	Approx. 150 min

### Battery life

Shooting time / Number of photos		Shooting conditions (when the battery is fully charged)
Photos	Approx. 120 min/ Approx. 240	<p>This is measured under the following conditions: in the <b>AUTO</b> mode, 12M resolution, and Fine quality.</p> <ol style="list-style-type: none"> <li>1. Set the flash option to <b>Fill in</b>, take a single shot, and zoom in or out.</li> <li>2. Set the flash option to <b>Off</b>, take a single shot, and zoom in or out.</li> <li>3. Perform steps 1 and 2 for 30 seconds and repeat for 5 minutes. Then turn off the camera for 1 minute.</li> <li>4. Repeat steps 1 to 3.</li> </ol>
Videos	Approx. 90 min	Record videos at 640 x 480 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)



**Personal injury or death can occur if the battery is handled carelessly or improperly. For your safety, follow these instructions for proper battery handling:**

- The battery can ignite or explode if not handled properly. If you notice any deformities, cracks, or other abnormalities in the battery, immediately discontinue use of the battery and contact your manufacturer.
- Use only authentic, manufacturer-recommended battery chargers and adapters and charge the battery only by the method described in this user manual.
- Do not place the battery near heating devices or expose to excessively warm environments, such as the inside of an enclosed car in the summertime.
- Do not place the battery in a microwave oven.
- Avoid storing or using the battery in hot, humid places, such as spas or shower enclosures.
- Do not rest the device on flammable surfaces, such as bedding, carpets, or electric blankets for a prolonged period.
- When the device is switched on, do not leave it in any confined space for a prolonged period.
- Do not allow battery terminals to come in contact with metallic objects, such as necklaces, coins, keys, or watches.
- Use only authentic, manufacturer-recommended, Lithium-ion replacement batteries.

- Do not disassemble or puncture the battery with any sharp object.
- Avoid exposing the battery to high pressure or crushing forces.
- Avoid exposing the battery to major impacts, such as dropping it from high places.
- Do not expose the battery to temperatures of 60 ° C (140° F) or above.
- Do not allow the battery to come in contact with moisture or liquids.

**Disposal guidelines**

- Dispose of the battery with care.
- Do not dispose of the battery in a fire.
- Disposal regulations may differ by country or region. Dispose of the battery in accordance with all local and federal regulations.

**Guidelines for charging the battery**

Charge the battery only by the method described in this user manual. The battery can ignite or explode if not charged properly.

## Before contacting a service center

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

Situation	Suggested remedies
Cannot turn on the camera	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>• Charge the battery.</li> <li>• Your camera may be in Power save mode. (p. 79)</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 style="list-style-type: none"> <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 style="list-style-type: none"> <li>• There is no space on the memory card. Delete unnecessary files or insert a new card.</li> <li>• Format the memory card. (p. 79)</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 style="list-style-type: none"> <li>• The flash option may be set to <b>Off</b>. (p. 42)</li> <li>• You cannot use the flash in the , , or some <b>SCN</b> 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. (p. 79)

Situation	Suggested remedies
<b>The display or buttons do not work</b>	Remove the battery and insert it again.
<b>The camera screen works poorly</b>	If you use your camera at low temperatures, it will cause the camera screen to malfunction or discolor. For better performance of your camera screen, use your camera at normal temperatures.
<b>The memory card has an error</b>	The memory card has not been reset. Format the card. (p. 79)
<b>Cannot play back files</b>	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.
<b>The photo is blurry</b>	<ul style="list-style-type: none"> <li>• Make sure that the focus option you set is suitable for close-up shots. (p. 44)</li> <li>• Make sure that the lens is clean. If not, clean the lens. (p. 83)</li> <li>• Make sure that the subject is within range of the flash. (p. 91)</li> </ul>
<b>The colors in the photo do not match the actual scene</b>	An incorrect white balance can create unrealistic color. Select the proper white balance option to suit the light source. (p. 50)

Situation	Suggested remedies
<b>The photo is too bright</b>	<ul style="list-style-type: none"> <li>• Turn off the flash. (p. 42)</li> <li>• Your photo is overexposed. Adjust the exposure value. (p. 49)</li> </ul>
<b>The photo is too dark</b>	Your photo is underexposed. <ul style="list-style-type: none"> <li>• Turn on the flash. (p. 42)</li> <li>• Adjust the ISO speed. (p. 43)</li> <li>• Adjust the exposure value. (p. 49)</li> </ul>
<b>The TV does not display your photos</b>	<ul style="list-style-type: none"> <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>
<b>Your computer does not recognize your camera</b>	<ul style="list-style-type: none"> <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>
<b>Your computer disconnects the camera while transferring files</b>	The file transmission may be interrupted by static electricity. Disconnect the USB cable and connect it again.

Situation	Suggested remedies
<b>Your camera cannot play videos</b>	<ul style="list-style-type: none"><li>• You can play videos only with the Intelli-studio program. Install the program on your computer. (p. 70)</li><li>• Make sure that the USB cable is connected correctly.</li></ul>
<b>Intelli-studio is not functioning properly</b>	<ul style="list-style-type: none"><li>• End Intelli-studio and restart the program.</li><li>• You cannot use Intelli-studio on Macintosh computers.</li><li>• Depending on your computer's specification and environments, the program may not launch automatically. In this case, click <b>Start</b> → <b>All Programs</b> → <b>Samsung</b> → <b>Intelli-studio</b> on your computer.</li></ul>

# Camera specifications

Image sensor			
Type	1/2.33" (Approx. 7.79 mm) CCD		
Effective pixels	Approx. 12.2 mega-pixels		
Total pixels	Approx. 12.4 mega-pixels		
Lens			
Focal length	Samsung lens f = 6.3 - 18.9 mm (35 mm film equivalent: 35 - 105 mm)		
F-stop range	F3.0 (W) - F5.6 (T)		
Digital zoom	<ul style="list-style-type: none"> <li>• Still image mode: 1.0X - 3.0X</li> <li>• Play mode: 1.0X - 12.5X (depending on image size)</li> </ul>		
Display			
Type	TFT LCD		
Feature	<ul style="list-style-type: none"> <li>• Main Display: 2.7" (6.9 cm) QVGA (230 K)</li> <li>• Front Display: 1.5" (3.8 cm) 61 K TFT LCD</li> </ul>		
Focusing			
Type	TTL auto focus (Multi AF, Center AF, Face Detection AF, Tracking AF)		
Range		Wide (W)	Tele (T)
	Normal	80 cm - infinity	1 m - infinity
	Macro	10 cm - 80 cm	50 cm - 80 cm
	Auto Macro	10 cm - infinity	50 cm - infinity

## Shutter speed

- Auto: 1/8 - 1/1,500 sec.
- Program: 1 - 1/1,500 sec.
- Night: 8 - 1/1,500 sec.
- Fireworks: 2 sec.

## Exposure

Control	Program AE
Metering	Multi, Spot, Center-weighted, Face Detection AE
Compensation	±2EV (1/3EV steps)
ISO equivalent	Auto, 80, 100, 200, 400, 800, 1600

## Flash

Mode	Off, Auto, Red-eye, Fill in, Slow Sync, Red-eye Fix
Range	<ul style="list-style-type: none"> <li>• WIDE: 0.4 m - 3.8 m (ISO Auto)</li> <li>• TELE: 0.5 m - 2.0 m (ISO Auto)</li> </ul>
Recharging time	Approx. 4 sec. (depending on battery condition)

## Shake reduction

Digital Image Stabilization (DIS)

Effect	
Shooting mode	<ul style="list-style-type: none"> <li>• Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB</li> <li>• Image Adjust: Sharpness, Contrast, Saturation</li> </ul>
White Balance	
Auto WB, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom Set	
Date Imprinting	
Date & Time, Date, Off	
Shooting	
Photos	<ul style="list-style-type: none"> <li>• Modes: Smart Auto (White, Macro Color, Portrait, Night Portrait, Backlight Portrait, Macro Portrait, Backlight, Landscape, Action, Tripod, Night, Macro, Macro Text, Blue Sky, Sunset, Natural Green), Auto, Program, DIS, Beauty Shot, Night, Scene (Frame Guide, Portrait, Landscape, Close Up, Text, Sunset, Dawn, Backlight, Fireworks, Beach &amp; Snow)</li> <li>• Drive: Single, Continuous, Motion Capture, AEB</li> <li>• Timer: 10 Sec, 2 Sec, Double</li> </ul>

Videos	<ul style="list-style-type: none"> <li>• Format: MJPEG (Max recording time: 2 hours)</li> <li>• Size: 640 X 480 (30 FPS, 15 FPS), 320 X 240 (30 FPS, 15 FPS)</li> <li>• Frame Rate: 30 FPS, 15 FPS</li> <li>• Voice: Off, On (sound is muted when operating the zoom function)</li> <li>• Video editing (embedded): Pause during recording, Still image capture</li> </ul>
Playback	
Type	Single image, Thumbnails, Multi slide show, Movie clip, Smart Album * Smart Album category: Type, Date, Color, Week
Edit	Resize, Rotate, Photo Style Selector, Image Adjust
Effect	<ul style="list-style-type: none"> <li>• Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB</li> <li>• Image Adjust: ACB, Red-eye Fix, Face Retouch, Brightness, Contrast, Saturation, Add Noise</li> </ul>
Voice recording	
<ul style="list-style-type: none"> <li>• Voice Recording (Max 10 hours)</li> <li>• Voice Memo in a photo (Max. 10 sec.)</li> </ul>	

Storage					
Media	<ul style="list-style-type: none"> <li>Internal memory: Approx. 5 MB</li> <li>External memory (Optional):                             <ul style="list-style-type: none"> <li>SD card (up to 4 GB guaranteed)</li> <li>SDHC card (up to 8 GB guaranteed)</li> </ul> </li> </ul> Internal memory capacity may not match these specifications.				
File format	<ul style="list-style-type: none"> <li>Photo: JPEG (DCF), EXIF 2.21, DPOF 1.1, PictBridge 1.0</li> <li>Video: MJPEG</li> <li>Audio: WAV</li> </ul>				
Image size	For 1GB SD				
		Super Fine	Fine	Normal	
	<b>12M</b>	4000 X 3000	147	284	403
	<b>10M</b>	3984 X 2656	167	313	441
	<b>9M</b>	3840 X 2160	202	367	528
	<b>8M</b>	3264 X 2448	211	374	537
	<b>5M</b>	2560 X 1920	339	566	792
	<b>3M</b>	2048 X 1536	510	802	1,065
	<b>2M</b>	1920 X 1080	735	1,144	1,437
	<b>1M</b>	1024 X 768	1,287	1,670	1,872
These figures are measured under Samsung's standard conditions and may vary depending on shooting conditions and camera settings.					

Interface	
Digital output connector	USB 2.0
Audio output	Mono (Internal speaker), Mono (Microphone)
Video output	NTSC, PAL (selectable) SCC-AV20
DC power input connector	20 pin, 4.2 V
Power source	
Rechargeable battery	Lithium-ion battery (BP70A, 740 mAh)
The power source may differ depending on your region.	

## Camera specifications

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### Dimensions (W x H x D)

95.7 x 56 x 20.3 mm

### Weight

111 g (without battery and memory card)

### Operating temperature

0 - 40° C

### Operating humidity

5 - 85 %

### Software

Intelli-studio

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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.



### 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.



### 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.

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

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Please refer to the warranty that came with your product or visit our website <http://www.samsungimaging.com/> for after-sales service or inquiries.

