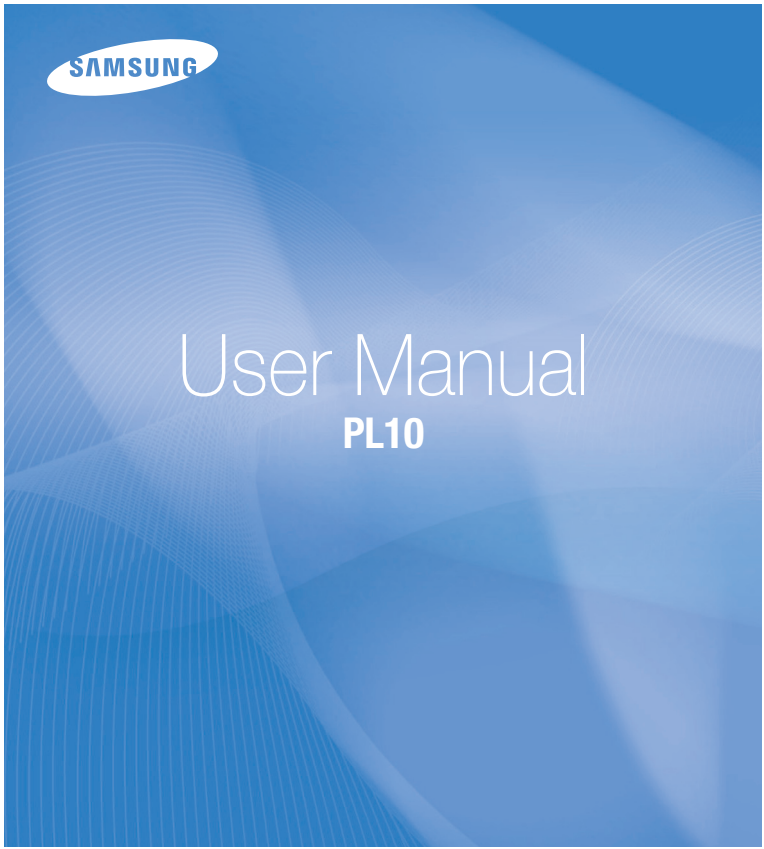

This user manual includes detailed usage instructions for your camera. Please read this manual thoroughly.

Click a topic

Quick reference
Contents
Basic functions
Extended functions
Shooting options
Playback/Editing
Multimedia
Appendixes
Index

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 0º C/32º F or above 40º C/104º 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 discolour the image sensor or cause it to malfunction.
- Protect your lens from fingerprints and scratches. Clean your lens with a soft, clean, debris-free lens cloth.

Use earphones with caution

- Do not use earphones while driving, cycling, or operating motorised vehicles. Doing so may create a traffic hazard and may be illegal in some areas.
- Use only the minimum volume setting necessary. Listening to earphones at high volume can damage your hearing.

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.

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Camera specifications or contents of this manual may be changed without prior notice due to upgrade of camera functions.

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Organisation of the user manual

Basic functions 10

Learn about your camera's layout, icons, and basic functions for shooting, and how to transfer files to and from your computer.

Extended functions 32

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

Shooting options 41

Learn about the options you can set in shooting mode.

Playback/Editing 59

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

Multimedia 74

Learn to use Multimedia modes: Music mode, Videos mode, and Text Viewer mode.

Appendixes 83

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

Indications used in this manual

Shooting mode	Indication
Smart Auto	
Auto	
Program	
DIS	
Photo Help Guide	
Scene	SCENE
Movie	
Multimedia	

Shooting mode icons

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

e.g.)

Available in the Program, DIS, and Movie modes

Icons used in this manual

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

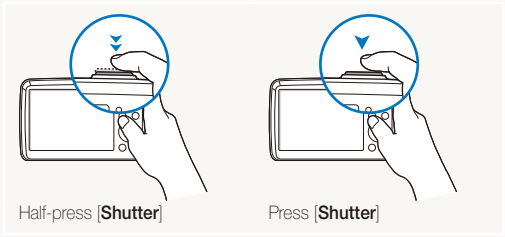
Abbreviations used in this manual

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

Expressions used in this manual

Pressing the shutter

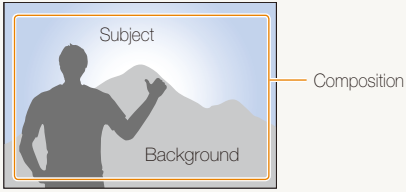
- Half-press [**Shutter**]: press the shutter halfway down
- Press [**Shutter**]: press the shutter all the way down



Half-press [**Shutter**] Press [**Shutter**]

Subject, background, and composition

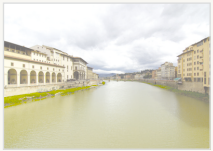
- **Subject**: the main object of a scene, such as a person, animal, or still life
- **Background**: the objects around the subject
- **Composition**: the combination of a subject and background



Exposure (Brightness)

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

Normal exposure



Overexposure (too bright)

Quick reference

Taking photos of people

- SCENE mode > Beauty Shot, Portrait, Children ▶ 34
- Red-eye, Red-eye Fix (to prevent or correct red-eye) ▶ 45
- Face Detection ▶ 49

Taking photos at night or in the dark

- SCENE mode > Night, Dawn, Firework ▶ 34
- Flash options ▶ 45
- ISO speed (to adjust the sensitivity to light) ▶ 46

Taking action photos

- Continuous, Motion Capture ▶ 56

Taking photos of text, insects, or flowers

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Adjusting the exposure (brightness)

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Basic functions

Learn about your camera's layout, icons, and basic functions for shooting, and how to transfer files to and from your computer.

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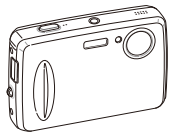
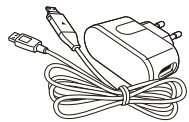
Unpacking

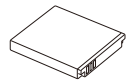
Check your product box for the following items.



Camera

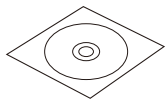


AC adapter/USB cable



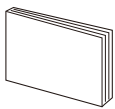
Rechargeable battery

Strap



Software CD-ROM
(User manual included)

Earphones

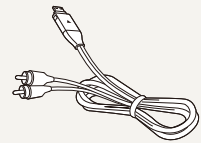


Quick Start Manual

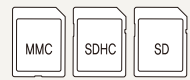
The illustrations may differ from your actual items.

Optional accessories

Camera case



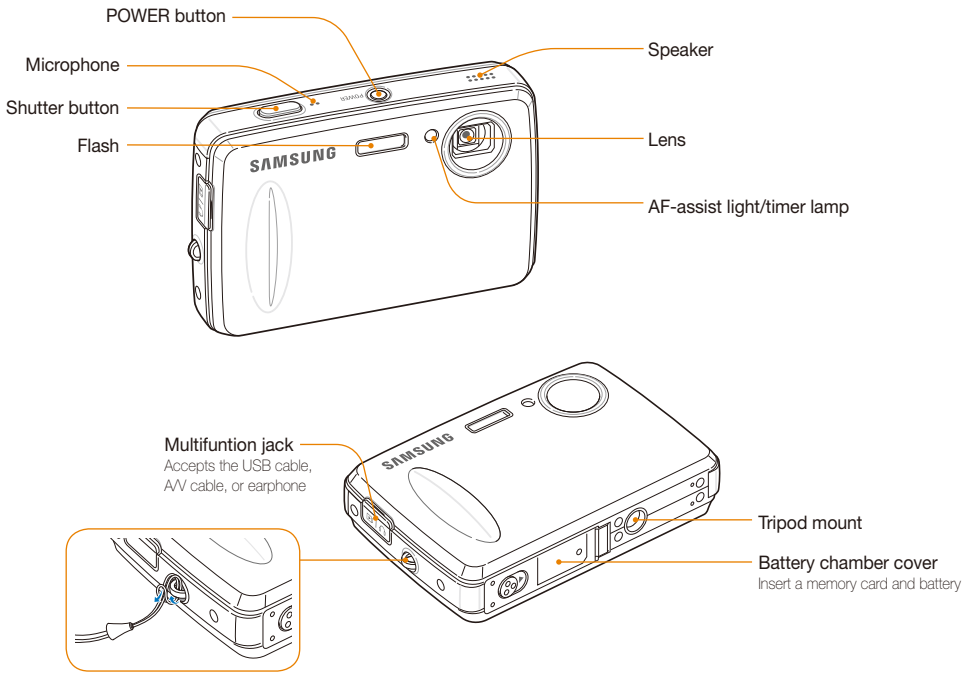
A/V cable

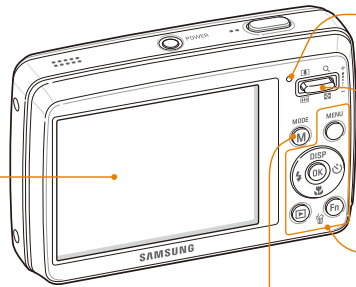


Memory cards

Camera layout

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





Status lamp

- **Blinking**: When saving a photo or video, being read by a computer or printer, or out of focus
- **Steady**: When connecting to a computer or in focus

Zoom button

- Zoom in or out in Shooting mode.
- Zoom in on part of a photo or view files as thumbnails in Playback mode.
- Adjust volume in Playback mode or Multimedia mode.

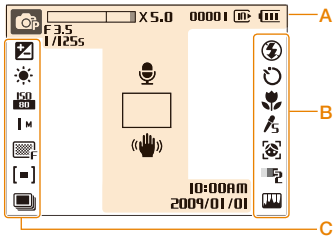
Mode button: Open the list of shooting modes

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
	Photo Help Guide	Get shooting tips and practice shooting
SCENE	Scene	Take a photo with options preset for a specific scene
	Movie	Record a video
	Multimedia	Listen to MP3s, Play videos, and view text files

Button		Description
MENU	**MENU**	Access options or menus.
DISP	**Navigation**	In Shooting mode / While setting DISP: Change the display option / Move up Change the macro option / Move down Change the flash option / Move left Change the timer option / Move right
OK	**OK**	Confirm the highlighted option or menu.
	Playback	Enter Playback mode.
Fn	**Function**	• Access options in Shooting mode. • Delete files in Playback mode.

Icons

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



A. Information

Icon	Description
	Selected shooting mode
X5.0	Zoom ratio
00001	Available number of photos
00:01:00	Available recording time
	Internal memory
	Memory card inserted
	• : Fully charged • : Partially charged • : Charging needed
F3.5 1/125s	Aperture and shutter speed
	Voice memo
	Auto focus frame
	Camera shake
10:00 AM 2009/01/01	Current date and time

B. Icons on the right

Icon	Description
	Flash
	Timer
	Auto focus
	Photo style
	Face detection
	Face tone
	Face retouch
	Image adjustment (contrast, sharpness, saturation)
	Voice muted

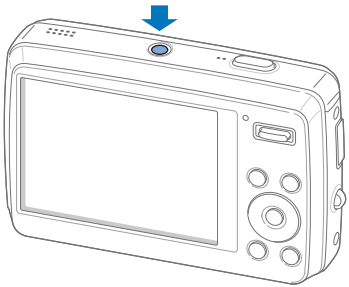
C. Icons on the left

Icon	Description
	Exposure value
	White balance
ISO 80	ISO speed
M	Photo resolution
320	Video resolution
F	Photo quality
15	Frame rate
	Metering option
LT	Long time shutter
	Burst type

Turning your camera on or off

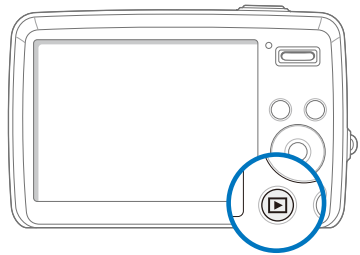
Learn how to start your camera.

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



Turning on your camera in Playback mode

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



Press and hold [▶] to mute camera sounds.

Selecting options

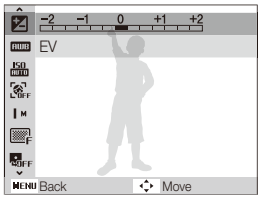
You can select options by pressing [**MENU**] and using the navigation buttons ([**DISP**], [▾], [⚡], [⏲]).

> 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.

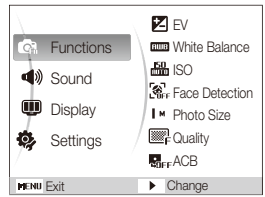
> Press [**Shutter**] to return to Shooting mode.

E.g. Select a white balance option in the P mode

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

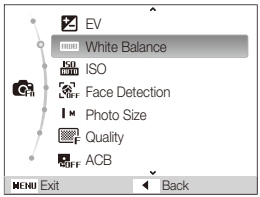
2 Press [**DISP**] or [▾] to scroll to **Program** and then press [⏲] or [**OK**].

3 Press [**MENU**].

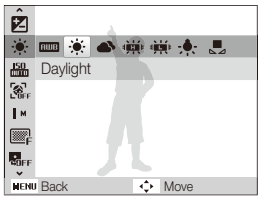


4 Press [**DISP**] or [▾] to scroll to **Functions** and then press [⏲] or [**OK**].

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



6 Press [ ] or [ ] to scroll to a white balance option.



7 Press [**OK**].

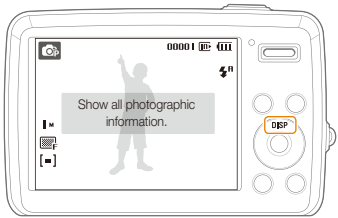
Setting the display and sound

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	• Display all information about shooting • Hide information about shooting, except the available number of photos
Playback	• Display all information about the current photo • Hide all information about the current file • Display information about the current photo, except the shooting settings and captured date

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.

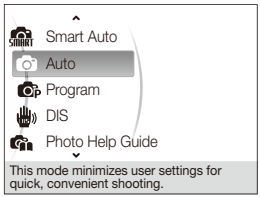
3 Press [**MENU**] to return to the previous mode.

Taking photos

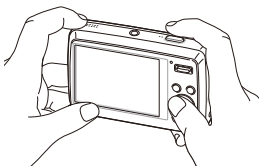
Learn basic actions to take photos easily and quickly in the Auto mode.

1 In Shooting mode, press [M].

2 Select **Auto**.

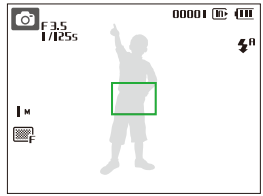


3 Align your subject in the frame.



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

- A green frame means the subject in focus.



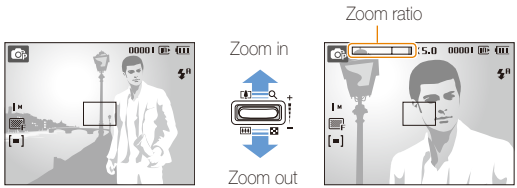
5 Press [**Shutter**] to take a photo.

See page 30 for tips to get clearer photos.

Zooming

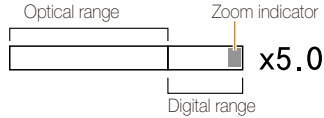
You can shoot close-up photos by adjusting the zoom. Your camera has a 3X optical zoom and 5X digital zoom. By using both, you can zoom in up to 15 times.

Push [**Zoom**] up to zoom in on your subject. Push [**Zoom**] down to zoom out.



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 , , SCENE (in some scenes), and modes and when used with **Face Detection**.
- It may take longer to save a photo when using the digital zoom.

Using the Photo Help Guide mode

This mode provides various shooting tips. Learn how to get better photos and videos.

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

2 Select **Photo Help Guide**.

3 Select a menu from the list.

4 Select a submenu.

5 View a topic.

- Press [**DISP**] or [ ] to display the previous or next screen.

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

- Press [**DISP**] to return to the list.

- Press [ ] to go back to the previous menu.
- While practicing, you cannot set shooting options or menus.

Transferring files to your computer (for Windows)

Transfer files by connecting your camera to your PC.

Installing programs

Hardware and software requirements

Item	Requirements
CPU	Pentium III 500 MHz or better (Pentium III 800 MHz or better recommended)
RAM	256 MB or more (512 MB or more recommended)
OS	Windows 2000/XP/Vista
Hard disk capacity	250 MB or more (1 GB or more recommended)
Others	• USB port • CD-ROM drive • 1024 x 768 pixels, 16-bit colour display compatible monitor (24-bit colour display recommended) • Microsoft Direct X 9.0C or later

- Using a self-assembled PC or a PC and OS that are not supported may void your warranty.
- These programs may not work properly on 64-bit Edition of Windows XP and Vista.

Programs contained on the CD

Program	Purpose
Samsung Master	Edit photos and videos.
Samsung Converter*	Convert videos so that they can be played on the camera.
Xvid Codec**	Code and decode video files.
Adobe Reader	View the user manual.

* Pentium IV or better is recommended to use the program.

** The XviD codec is distributed according to the GNU General Public License and everyone can copy, distribute and change this codec. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. For more information, see the License documents (http://www.gnu.org/copyleft/gpl.html).

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 Click **Preview** to check if a movie sample plays properly.

4 If the sample plays properly, select **Do not install** and click **Next**.

- If it does not, select **Install the codec program** and click **Install**. The codec program is installed.

5 Select programs to install and follow the onscreen instructions.

6 Click **Exit** to complete the installation and restart your computer.

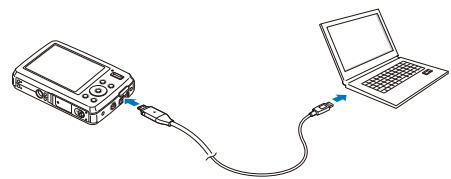
Transferring files to your PC

Once you connect the camera to your PC, the camera will be recognised as a removable drive.

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

1 Connect your camera to your PC 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 recognises the camera automatically.

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

3 On your PC, select **My Computer** → **Removable Disk** → **DCIM** → **100SSCAM**.

4 Select the files you want and drag or save them to your PC.

Disconnecting the camera (for Windows XP)

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

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

2 Click on the tool bar at the bottom right of your PC screen.

3 Click the pop-up message.

4 Remove the USB cable.

Transferring multimedia files to the camera

Requirements

Your camera will support the following file types.

Multimedia mode	Supported type
Music	• **File type**: MP3 (MPEG-1/2/2.5 Layer 3) • **Bit rate**: 48 - 320 Kbps (including VBR)
Videos	**File type**: PMP SDC*
Text Viewer	• **File type**: TXT (smaller than 10 MB or up to 99,999 pages) • **Encoding type** - Windows: ANSI (Windows 98 or later)/ Unicode/Unicode (Big-Endian)/ UTF-8 (Windows 2000/XP) - Mac: ANSI, Unicode (UTF-16) • **Language**†: English, Korean, French, German, Spanish, Italian, Chinese, Taiwanese, Japanese, Russian, Portuguese, Dutch, Danish, Swedish, Finnish, Bahasa, Polish, Hungarian, Czech, Turkish

* A file type that is converted with Samsung Converter (p. 26)
† Subject to change without prior notice

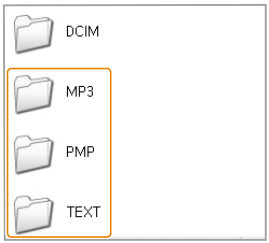
- Duplicating multimedia files may violate copyright laws.
- Without permission of the manufacturer, you cannot duplicate, modify and/or distribute any part or all MP3 or PMP files provided in the internal memory.

Transferring multimedia files to the camera

1 Connect the camera to your PC. (p. 23)

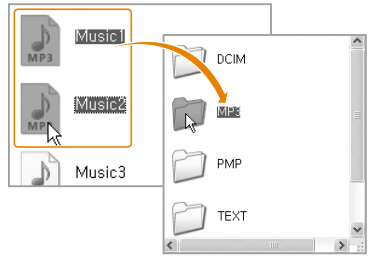
2 On your PC, select **My Computer** → **Removable Disk**.

3 Create new folders named “MP3,” “PMP,” and “TEXT.”



4 Copy multimedia files to the corresponding folders.

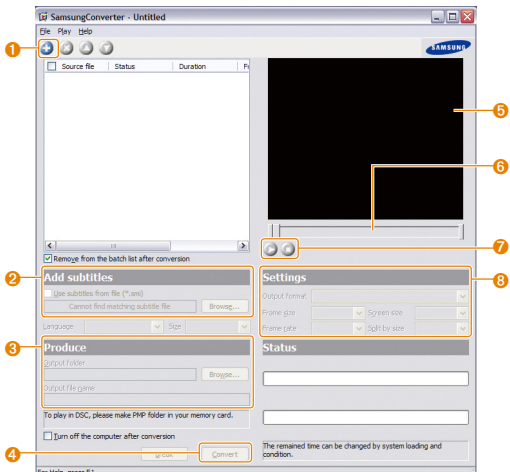
- MP3 files to MP3 folder
- SDC files to PMP folder
- TXT files to TEXT folder



- Multimedia files cannot be played or viewed if the folder names are incorrect.
- Subfolders nested directly within the MP3, PMP and TEXT folders can be created. Files saved in deeply-nested subfolders may not be played or viewed.
- You can save up to 200 files or 100 subfolders in each folder. You can save up to 200 total files and subfolders in combination.
- File names or folder names with more than 120 characters (60 characters for 2-byte languages, such as Chinese or Korean) will not appear in the playlist.

Using Samsung Converter

Convert videos so that they can be played on the camera. For details, see the Help menu.



No.	Description
1	Add video files (AVI, WMV, ASF, MPG [MPEG-1]).
2	Add subtitles.
3	Specify the folder path and file name for the converted file.
4	Convert the file.
5	Preview.
6	Cropping slider; move to the point where you want the video to begin or end.
7	Pause and resume playback.
8	Set the frame size and rate or the file size limit.

Using Samsung Master

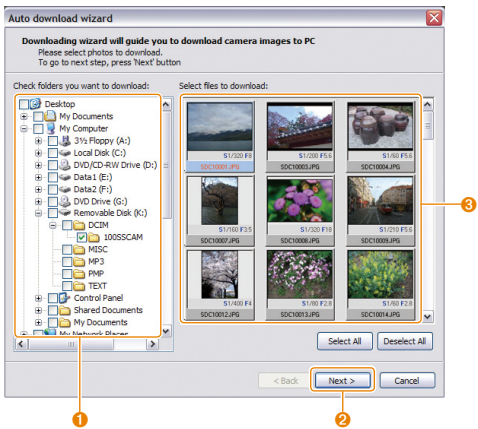
You can download files or edit photos or videos stored on your PC. For details, see the Help menu.

Downloading files using Samsung Master

When you connect the camera to the PC, a window for downloading files automatically appears.

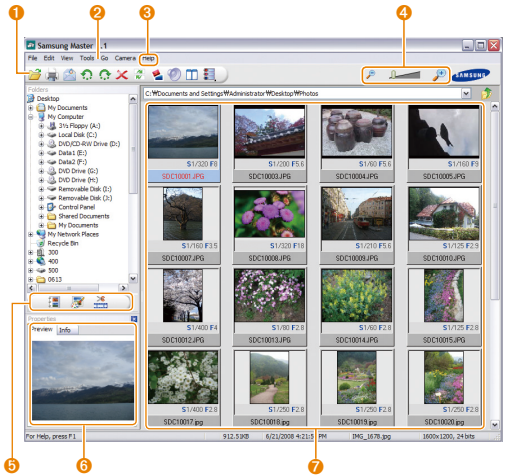
1 Select the files you want to download.

2 Click **Next** and follow the onscreen instructions.



No.	Description
1	Select a location for downloaded files.
2	Click to download the selected files.
3	Thumbnails of files; click an image to download.

Using the Samsung Master Interface



No.	Description
1	Toolbar
2	Menus
3	Click for more information about the program.
4	Click to enlarge or reduce the thumbnails in the list.
5	Change the mode. • : View mode • : Edit mode for photos • : Edit mode for videos
6	Preview information about the selected file.
7	The photos in the selected folder; double-click to switch to full-screen view.

Transferring files to your computer (for Mac users)

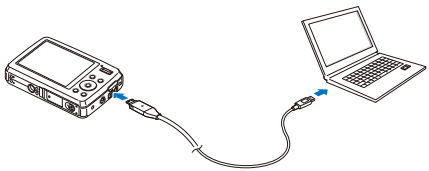
When you connect the camera to a Macintosh computer, the computer will recognise the device automatically. You can transfer files directly from the camera to the computer without installing any programs.

- Mac OS X version 10.3 or later is supported.
- Supported file types and languages are shown on page 24.
- To use PMP files, you must first convert the files using Samsung Converter on a Windows computer.

Transferring files to your computer

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 recognises the camera automatically and a removable disk icon will be displayed.

3 Double-click the removable disk icon.

4 Transfer photos or videos to the computer.

Transferring multimedia files to the camera

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

2 Turn on your camera.
- The computer recognises the camera automatically and a removable disk icon will be displayed.

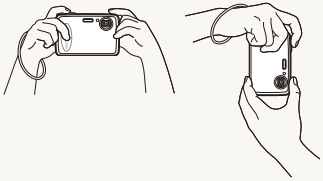
3 Double-click the removable disk icon.

4 Create new folders named “MP3,” “PMP,” and “TEXT.”

5 Copy multimedia files to the corresponding folders.
- MP3 files to MP3 folder
- SDC files to PMP folder
- TXT files to TEXT folder

Tips for getting a clearer photo

Holding your camera correctly

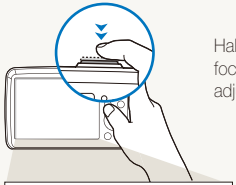


Make sure nothing is blocking the lens.

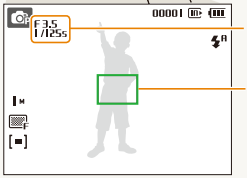
Reducing camera shake

Select the mode to reduce camera shake digitally. (p. 37)

Half-pressing the shutter button



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

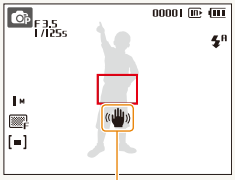


The aperture value and shutter speed are automatically set.

Focus frame

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

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. 45)
- Set ISO speed options. (p. 46)

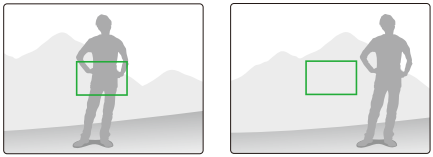
Preventing your subject from being out of focus

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

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

Use the focus lock

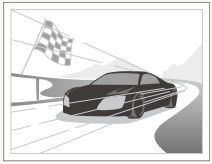
Half-press [**Shutter**] to focus. When the subject is in focus, you can reposition the frame to change the composition. When you are ready, press [**Shutter**] to take your photo.



- When you take photos in low light

Turn on the flash. (p. 45)

- When subjects are moving fast



Use the continuous or motion capture function. (p. 56)

Extended functions

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

Shooting modes 33
Using the Smart Auto mode 33
Using the Scene mode 34
Using the Beauty Shot mode 34
Using the frame guide 35
Adjusting the exposure in the Night mode 36
Using the DIS mode 37
Using the Program mode 37
Recording a video 38
Recording voice memos 40
Recording a voice memo 40
Adding a voice memo to a photo 40

Shooting modes

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

Using the Smart Auto mode

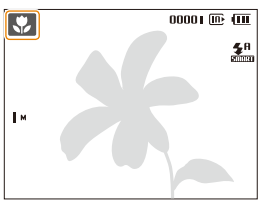
In this mode, your camera automatically chooses the appropriate camera settings based on a defected type of scene. It will be helpful if you are not familiar with the camera settings for various scenes.

1 In Shooting mode, press [M].

2 Select **Smart Auto**.

3 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 backgrounds.
	Appears when taking photos of landscapes at night. This is available only when the flash is off.
	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.
	Appears when taking close-up photos of text.
	Appears when the camera and subject are stable for a while.
	Appears when taking photos of actively moving subjects.

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

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

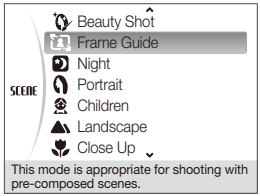
- If the camera does not recognise a proper scene mode, will not change and the default settings will be used.
- Even if there is a face detected, the camera may not select a portrait mode depending on the subject's position or lighting.
- The camera may not select the correct scene depending on shooting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

Using the Scene mode

Take a photo with options preset for a specific scene.

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

2 Select **Scene** → a scene.



- For the Beauty Shot mode, see "Using the Beauty Shot mode."
- For the Frame Guide mode, see “Using the frame guide” on page 35.
- For the Night mode, see "Adjusting the exposure in the Night mode" on page 36.

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

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

Using the Beauty Shot mode

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

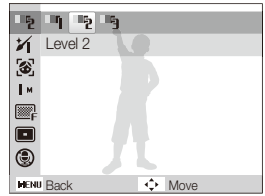
1 In Shooting mode, press [**M**].

2 Select **Scene** → **Beauty Shot**.

3 To make the subject's skin tone appear lighter (face only), press [**MENU**].

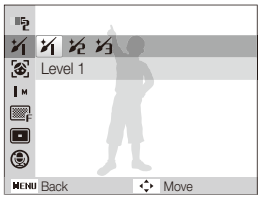
4 Select **Functions** → **Face Tone** → an option.

- Select a higher setting to make skin tone appear lighter.



5 To hide facial imperfections, press [**MENU**].

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



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

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

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

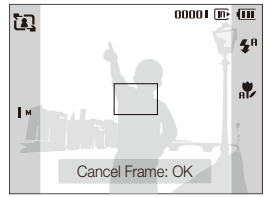
Using the frame guide

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

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

2 Select **Scene** → **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**].

Adjusting the exposure in the Night mode

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

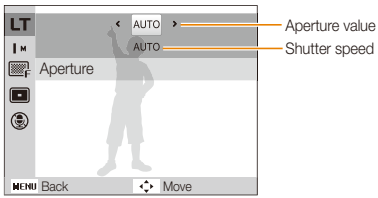
1 In Shooting mode, press [**M**].

2 Select **Scene** → **Night**.

3 Press [**MENU**].

4 Select **Functions** → **Long Time Shutter**.

5 Select the aperture value or shutter speed.



6 Select an option.

- If you select **AUTO** the aperture value or shutter speed will be adjusted automatically.

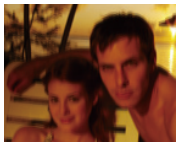
7 Align your subject in the frame and half-press [**Shutter**] to focus.

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

Use a tripod to prevent your photos from blurring.

Using the DIS mode

Reduce camera shake and prevent blurred photos with Digital Image Stabilisation (DIS) function.



Before correction

After correction

1 In Shooting mode, press [M].

2 Select **DIS**.

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

4 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 In Shooting mode, press [M].

2 Select **Program**.

3 Set options. (For a list of options, refer to "Shooting options.")

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

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

Recording a video

Record videos of up to 120 minutes in length. The recorded video is saved as an MPEG-4.AVI file.

> The zoom sound may be recorded if you use the zoom while recording a video.

1. In Shooting mode, press [**M**].
2. Select **Movie**.
3. Press [**MENU**].
4. Select **Functions** → **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.
5. Press [**MENU**].
6. Select **Functions** → **Voice** → a sound option.

Option	Description
	On: Record a video with sound.
	Off: Record a video without sound.

7. Press [**MENU**].
8. Select **Functions** → **Stabiliser** → a stabiliser option.

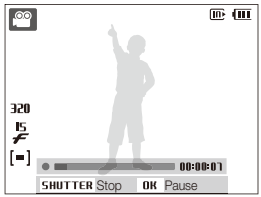
Option	Description
OFF	**Off**: Record a video with the stabilisation function turned off.
	On: Record a video with the stabilisation function turned on to prevent your video from blurring.

9. Set other options as desired.
   (For options, refer to “Shooting options.”)
10. Press [**Shutter**] to start recording.
11. Press [**Shutter**] again to stop recording.

To pause recording

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

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



Recording voice memos

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

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

Recording a voice memo

1. In Shooting mode, press [**MENU**].
2. Select **Functions** → **Voice** → **Record**.
3. Press [**Shutter**] to record.

- Press [**OK**] to pause or resume recording.
- You can record voice memos of up to 10 hours in length.

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 **Functions** → **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 **Functions** → **Photo Size** → an option.

Option	Description
9M	**3456 X 2592**: Print on A2 paper.
8M	**3456 X 2304**: Print on A3 paper in wide ratio (3:2).
7M	**3456 X 1944**: Print on A3 paper in panorama ratio (16:9).
5M	**2592 X 1944**: Print on A4 paper.
3M	**2048 X 1536**: Print on A5 paper.
1M	**1024 X 768**: Attach to email.

When recording a video:

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

2 Select **Functions** → **Movie Size** → an option.

Option	Description
800	**800 X 592**: Play back on an SDTV.
640	**640 X 480**: Play back on a general TV.
320	**320 X 240**: 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 **Functions** → **Quality** → an option.

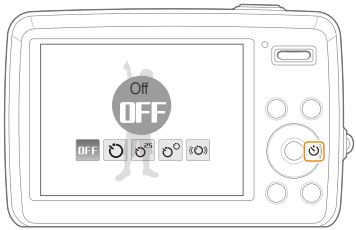
Option	Description
SF	**Super Fine**
F	**Fine**
N	**Normal**

The options may differ depending on the shooting mode.

Using the timer

Learn how to set the timer to delay shooting.

1 In Shooting mode, press [⏲].



2 Select an option.

Option	Description
OFF	**Off**: The timer is not active.
⏲	**10 Sec**: Take a photo in 10 seconds.
⏲²⁵	**2 Sec**: Take a photo in 2 seconds.
⏲⏲	**Double**: Take a photo in 10 seconds and take another in 2 seconds.
((⏲))	**Motion Timer**: Detect your movement and then take a photo. (p. 44)

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.

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

Using the motion timer

1 In Shooting mode, press [⏲].

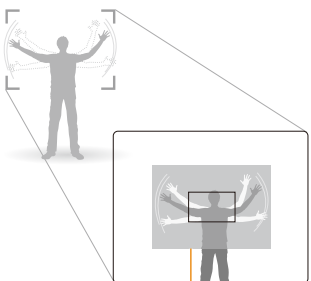
2 Select (⏲).

3 Press [**Shutter**].

4 Stand within 3 m from the camera within 6 seconds after pressing [**Shutter**].

5 Make a motion, such as waving your arms, to activate the timer.

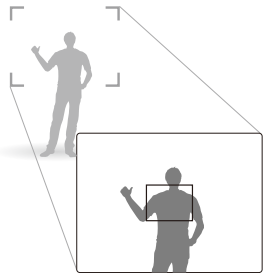
- The AF-assist light/timer lamp will start to blink rapidly when the camera detects you.



The detection range of the motion timer

6 Pose for your photo while the AF-assist light/timer lamp is blinking.

- The AF-assist light/timer lamp will stop blinking just before the camera automatically takes a photo.



The motion timer may not work when:

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

Shooting in the dark

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

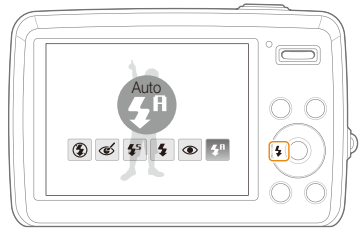
Preventing red-eye

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

Using the flash

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
	Off: • The flash will not fire. • Camera shake warning ( ) will be displayed when shooting in low light.
	Auto: The camera will select a proper flash setting for the detected scene in the mode.

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

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 **Self-Portrait** or **Blink Detection**.
- Make sure that your subjects are within the recommended distance from the flash. (p. 95)
- If there is reflected light or much dust in the air, tiny spots may appear on your photo.

Adjusting the ISO speed

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

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

2 Select **Functions** → **ISO** → an option.
- Select ISO AUTO 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

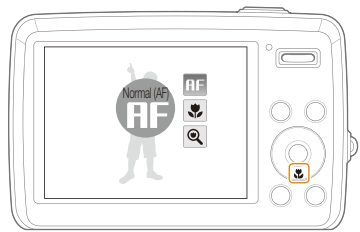
Use macro to take close-up photos of subjects, such as flowers or insects. Refer to macro options in "Using auto focus."

- 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
AF	**Normal (AF)**: Focus on a subject farther than 80 cm.
	Macro: Focus on a subject 5-80 cm (50-80 cm when using zoom).
AF	**Auto Macro**: Focus on a subject farther than 5 cm (farther than 50 cm when using zoom).
	Super Macro: Focus on a subject between 1 to 5 cm.

The options may differ depending on the shooting mode.

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 **Functions** → **Focus Area** → an option.

Option	Description
	Center AF: Focus on the centre (suitable when subjects are located in the centre).
	Multi AF: Focus on one or more of 9 possible areas.

The options may differ depending on the shooting mode.

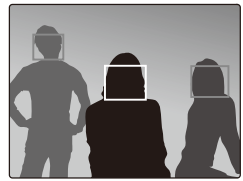
Using face detection

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

- 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 saturation.
- When you use the face detection option, the digital zoom will not work.
- Depending on the selected face detection option, the timer is not available or some timer options are not available.
- The options may differ depending on the shooting mode.

Detecting faces

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



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

2 Select **Functions** → **Face Detection** → **Normal**.
- The closest 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 self-portrait shot

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

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

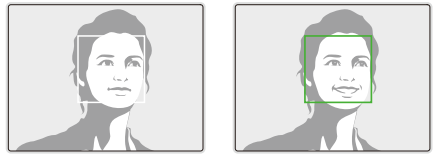
2 Select **Functions** → **Face Detection** → **Self-Portrait**.

3 When your hear a quick beep, press [**Shutter**].

To turn the beep on or off, select **Self-Portrait** in the sound settings. (p. 85)

Taking a smile shot

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



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

2 Select **Functions** → **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.

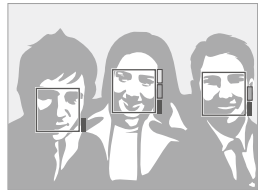
1 In Shooting mode, press [**MENU**].

2 Select **Functions** → **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.

Using smart face recognition

The camera automatically registers faces that you frequently photograph (up to 10 people). This feature will automatically prioritise the focus on those faces. This feature is available only when you use a memory card.



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

2 Select **Functions** → **Face Detection** → **Smart Face Recognition**.

- The priority of the faces will be shown by the level indicator next to the frames.

- The camera may recognise and register faces incorrectly depending on lighting conditions, remarkable changes in the subject's pose or face, and whether or not the subject is wearing glasses.
- The camera may recognise faces and display the level indicator, even though they have not been registered.
- You can view registered faces in order of priority while in Playback mode. (p. 61) Even though faces are registered successfully, they may not be classified in Playback mode.
- If the camera recognises a new face when there are 10 registered faces, it will replace the face in the lowest priority with the new one.
- The camera can recognise up to 3 faces in one scene.
- When the camera does not recognise faces, it will still detect the faces without prioritising them.
- You can manually register faces from photos you have already taken. (p. 61)

Adjusting brightness and colour

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

Adjusting the exposure manually (EV)

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

Darker (-)

Neutral (0)

Brighter (+)

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

2 Select **Functions** → **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. 56)

Compensating for backlighting (ACB)

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

Without ACB

With ACB

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

2 Select **Functions** → **ACB** → an option.

Option	Description
OFF	**Off**: ACB is off.
	On: ACB is on.

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

Changing the metering option

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

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

2 Select **Functions** → **Metering**.

Option	Description
[▪]	**Multi**: • Your camera divides the scene into several areas, and then measures the light intensity of each area. • Suitable for general photos.
[•]	**Spot**: • Your camera measures only the light intensity of the very centre of the frame. • If a subject is not in the centre of the scene, your photo may be improperly exposed. • Suitable for a subject with backlighting.
[◎]	**Center-weighted**: • Your camera averages the meter reading of the entire frame with emphasis placed on the centre. • Suitable for photos with subjects in the centre of the frame.

Selecting a light source (White balance)

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

AWB (Auto WB)

(Daylight)

(Cloudy)

(Tungsten)

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

2 Select **Functions** → **White Balance** → an option.

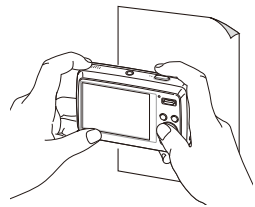
Icon	Description
AWB	**Auto WB**: Use automatic settings depending on the lighting conditions.
	Daylight: Select when taking outdoor photos on a sunny day.
	Cloudy: Select when taking outdoor photos on a cloudy day or in shadows.
	Fluorescent_H: Select when shooting under a daylight fluorescent or three-way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

Defining your own white balance

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

2 Select **Functions** → **White Balance** → **Measure: Shutter**.

3 Aim the lens at a piece of white paper.



4 Press [**Shutter**].

Using burst modes SCENE

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 **Functions** → **Drive** → an option.

Option	Description
	Single: Take a single photo.
	Continuous: • While you are pressing [**Shutter**], the camera takes photos continuously. • The maximum number of photos depends on the capacity of your memory card.
	Motion Capture: • While you are pressing [**Shutter**], the camera takes VGA photos (6 photos per second; maximum of 30 photos). • The camera automatically shows you the photos just taken and then saves them.
	AEB: • Take 3 photos with different exposures: normal, underexposed, and overexposed. • Use a tripod to prevent blurry photos.

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**.

Improving your photos

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

Applying photo styles

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 **Functions** → **Photo Style Selector** → an option.
- Select **Custom RGB** to define your own RGB tone.

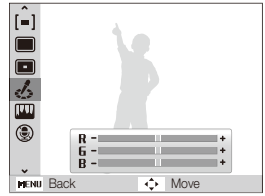
- Select **Normal** if you want to use face detection options.
- Depending on the selected photo style, some image adjustment options are not available.

Defining your own RGB tone

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

2 Select **Functions** → **Photo Style Selector** → **Custom RGB**.

3 Select a colour (R: Red, G: Green, B: Blue).



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

Adjusting your photos

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

1. In Shooting mode, press [**MENU**].
2. Select **Functions** → **Image Adjust**.
3. Select an adjustment option.
   - Contrast
   - Sharpness
   - Saturation
4. Select a value to adjust the selected item.

Contrast option	Description
-	Decrease the colour and brightness.
+	Increase the colour 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. You will also learn how to connect your camera to your photo printer or TV.

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Starting Playback mode 60
Viewing photos 64
Playing a video 66
Playing voice memos 67
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Resizing photos 68
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Defining your own RGB tone 69
Correcting exposure problems 70
Creating a print order (DPOF) 71
Viewing files on a TV 72
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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 [▶].

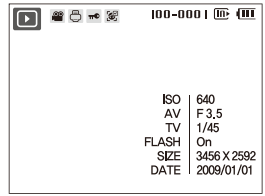
- The most recent file you have taken or recorded will be displayed.
- If the camera is off, it will turn on.

2 Press [⚡] or [⏲] to scroll through files.

- Press and hold [⚡] or [⏲] to view files quickly.

> If you want to view files stored in the internal memory, remove your memory card.

Display in Playback mode



Icon	Description
	Photo includes a voice memo
	Video file
	Print order has been set (DPOF)
	Protected file
	Photo includes a registered face; Available only when you use a memory card
100-0001	Folder name – File name

Registering faces

You can register faces in your photos to classify them by faces in Smart Album. This feature is available only when you use a memory card.

1 In Playback mode, select a photo and press [**MENU**].

2 Select **File Options** → **Face Registration** → **Yes**.
- If there are multiple faces in the photo, select a face to register, press [**Fn**], and select **Yes**.

- You can register up to 3 faces.
- If you register a new face when there are 3 faces manually registered in Smart Album, the camera will replace the oldest face with the new one.

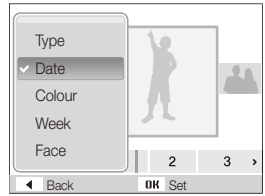
Viewing files by category in Smart Album

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

1 In Playback mode, push [**Zoom**] down.

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.
Colour	View files by the dominant colour of the image.
Week	View files by the weekday they were saved.
Face	View files by recognised faces. (Up to 15 people)

It may take some time for the camera to change the category and recognise files.

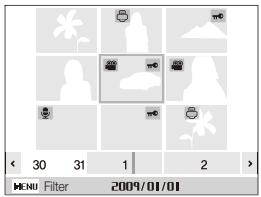
4 Press [ ] or [ ] to view files.
- Press and hold [ ] or [ ] to select a date, file type, weekday, colour, or face.

5 Press [**OK**] to return to the normal view.

Viewing files as thumbnails

Scan thumbnails of files.

In Playback mode, push [**Zoom**] down to display 9 or 20 thumbnails (push [**Zoom**] up to return to the previous mode).

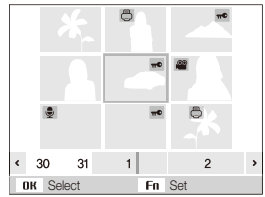


To	Do this
Scroll through files	Press [**DISP**], [✿], [ϟ], or [⏲].
Delete files	Press [**Fn**] and select **Yes**.

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**.

Using the recycle bin

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

To activate the recycle bin,

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

2 Select **File Options** → **Recycle Bin** → **On**.

To restore files from the recycle bin,

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

2 Select **File Options** → **Recycle Bin** → **Retrieve**.

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

Copying files to the memory card

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

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

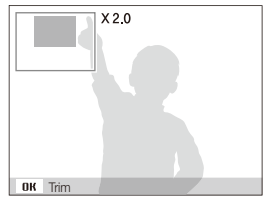
Viewing photos

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

Enlarging a photo

In Playback mode, push [**Zoom**] up to enlarge a photo (push [**Zoom**] down 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 [**DISP**], [✿], [ϟ], or [⏲].
Trim the enlarged photo	Press [**OK**] (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
Images	Set the photos you want to view as a slide show. • **All**: View all photos in a slide show. • **Date**: View photos captured on a specific date in a slide show. • **Select**: View selected photos in a slide show.
Effect	• Select a transition effect. • Select **Off** for no effects.
Interval	• Set the interval between photos. • This is available when **Off** is selected in the effect option. • When used with effect options other than **Off**, the interval will be set to 1 sec.
Music	Select a background audio.

4 Set the slide show effect.

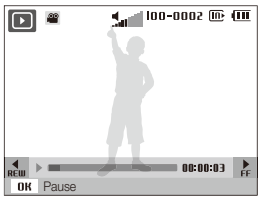
5 Select **Start** → **Play**.

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

Playing a video

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

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



2 Use the following buttons to control playback.

Press	To
[ϟ]	Scan backward.
[**OK**]	Pause or resume playback.
[⏱]	Scan forward.
[**Zoom**] up or down	Adjust the volume level.

Trimming a video during playback

1 Press [**OK**] at the point where you want the new video to begin and push [**Zoom**] up.

2 Press [**OK**] to resume playback.

3 Press [**OK**] at the point where you want the new video to end and push [**Zoom**] up.

4 Select **Yes**.

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

Capturing an image during playback

1 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.
[OK]	Pause or resume playback.
[▶]	Scan forward.
[✿]	Stop playback.
[Zoom] up or down	Adjust the volume level.

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

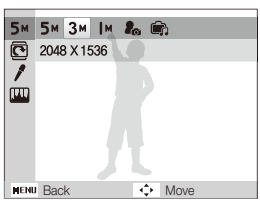
Perform photo editing tasks, such as resizing, rotating, eliminating red-eyes, and adjusting brightness, contrast, or saturation.

- Edited photos will be saved as new files.
- When you edit photos that are 7M or larger (p. 42), they will be automatically resized to a lower resolution (except when resizing photos):
  - 9M to 5M
  - 8M to 4M
  - 7M to 4M

Resizing photos

1 In Playback mode, select a photo and press [**MENU**].

2 Select **Edit** → **Resize** → an option.

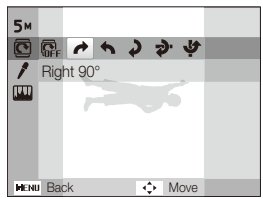


- Select to save the photo as a start image. (p. 85)
- Select to save the photo as an MP3 player skin. (p. 81)
- Available options differ depending on the size of the selected photo.

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.

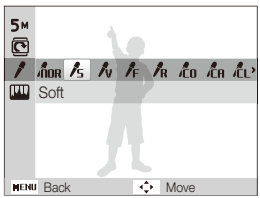
Soft

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.

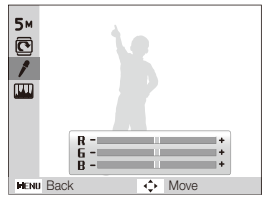


Defining your own RGB tone

1 In Playback mode, select a photo and press [**MENU**].

2 Select **Edit** → **Photo Style Selector** → **Custom RGB**.

3 Select a colour (R: Red, G: Green, B: Blue).



4 Adjust the amount of the selected colour.
(-: 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
Select	Print the selected photos.
All	Print all photos.
Reset	Reset your settings.

3 If you select **Select**, scroll to a photo and press [**Zoom**] up or down 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
Select	Specify the print size for the selected photo.
All	Specify the print size for all photos.
Reset	Reset your settings.

6 If you select **Select**, scroll to a photo and press [**Zoom**] up or down 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.

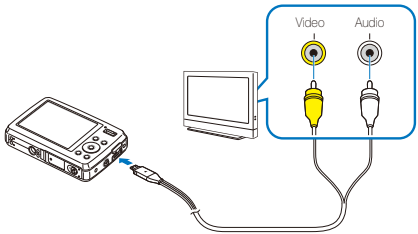
Viewing files on a TV

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

1 Select a video signal output according to your country or region. (p. 87)

2 Turn off your camera and TV.

3 Connect your camera to your TV using the A/V cable.



4 Turn on your TV and select the video output mode using the TV remote control.

5 Turn on your camera and press [▶].

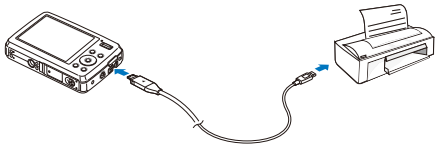
6 View photos or play videos using the buttons on your camera.

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

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 recognises the camera automatically.

> - If the camera fails to connect, a pop-up window will appear. Select **Printer**.
> - If your printer has the mass storage feature, you must first set the USB mode to **Printer** in the settings menu. (p. 87)

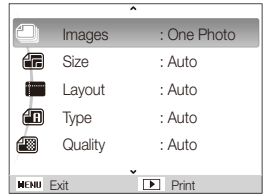
3 Press [ ] or [ ] to select a photo.

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

> Some options are not supported by some printers.

Multimedia

Learn to use Multimedia modes: Music mode, Videos mode, and Text Viewer mode.

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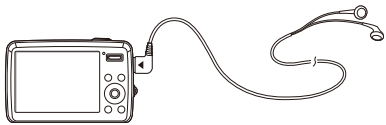
Using Multimedia mode

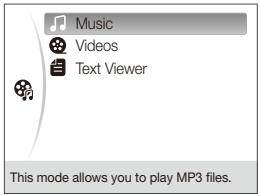
In Multimedia mode, you can listen to MP3s, play videos, or view text files. Before using Multimedia mode, you should transfer files to your camera or memory card. (p. 24)

1 Plug the supplied earphones into the multifunction jack.



2 In Shooting mode, press [**M**].

3 Select **Multimedia** → a mode.



4 Select a file to play.

- Files will be played automatically.

- Files will be listed by date they were saved.
- File names in unsupported languages will appear as "_ _ _ _ _ _."
- If there are more than 100 files in the folder or several large files, it may take longer to access a mode.
- Power save mode will not be active during playback except when viewing text files with **Auto Scroll** or **Back Music** off.
- The camera will enter Power save mode when you perform no operations for 30 seconds in the Music mode.
- Depending on the properties of your files, file information may not be available in the playlist.

Locking the buttons

You can lock the buttons to prevent any unwanted camera operations during playback.

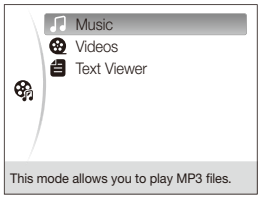
Press and hold [ ] to lock or unlock the buttons.

- Even though you lock the buttons, you can still operate [**POWER**] and use the USB cable.
- Press any button to exit Power save mode.

Switching to another Multimedia mode

1 Press [**M**] while an MP3 or video file is being played or text file is being viewed.

2 Select **Multimedia** → a mode.



Deleting multimedia files

To delete a single file,

1 In the file list, press [**Fn**].

2 Select **Yes** to delete.

To delete multiple files,

1 In the file list, press [**Fn**].

2 Select **Multiple Delete**.

3 Select files you want to delete.

4 Press [**Fn**].

5 Select **Yes**.

You can also delete all files of the selected mode. (p. 82)

Using the Music mode

Learn how to play MP3 files, control playback, and taking a photo during playback.

Playing music files

1 Access the Music mode and play a file. (p. 75)

Icon	Description
	Music mode
NOR	Equaliser type
	Button locked
	Muted
000K	Bit rate
	Play mode
	Remaining battery capacity
00:01:01/ 00:04:02	Play time
	Volume

2 Use the following buttons to control playback.

Press	To
[Zoom] up or down	Adjust volume.
[M]	Change the mode.
[MENU]	Change the Music mode settings.
[DISP]	Open the playlist.
[ ]	Lock or unlock the buttons (press and hold).
[ ]	Skip backward.
[ ]	Skip forward.
[OK]	Pause or resume playback.
[Fn]	Change the equaliser type.

About VBR

Variable Bit Rate (VBR) is an encoding method that keeps music at a stable quality level by adjusting the compression rate according to the complexity of the encoded audio.

Taking photos while listening to music

(Available when using a memory card)

1 Press [**Shutter**] during playback.

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

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

- Select [**DISP**] to switch to the player screen.

- You cannot set shooting options while listening to music.
- Photos will be taken with the following settings.
  - Resolution: 3M
  - Quality: Fine
  - Flash: Auto
  - Focus: Auto Macro
- Your MP3 player will not function normally when taking photos.

Starting a slide show while listening to music

1 Press [**MENU**] during playback.

2 Select **Interval**.

3 Select an interval between photos.

4 Select **Slide Show**.

5 Select a play mode option.

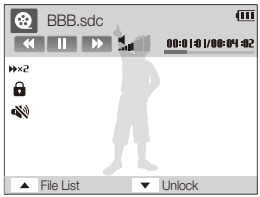
Option	Description
Play	Play a slide show and return to the player screen.
Repeat	Loop a slide show.

6 To return to the player screen, press [**OK**].

Using the Videos mode

Learn how to play videos and control playback.

1 Access the Videos mode and play a file. (p. 75)



Icon	Description
	Videos mode
	Button locked
	Muted
▶▶×2	Scanning speed
	Remaining battery capacity
00:01:01/ 00:04:02	Play time
	Volume

2 Use the following buttons to control playback.

Press	To
[Zoom] up or down	Adjust volume.
[M]	Change the mode.
[MENU]	Change the Videos mode settings.
[DISP]	Open the playlist.
[ ]	Lock the screen (press and hold).
[ ]	• Skip backward. • Scan backward (while playing)*.
[ ]	• Skip forward. • Scan forward (while playing)*.
[OK]	Stop or resume playback.

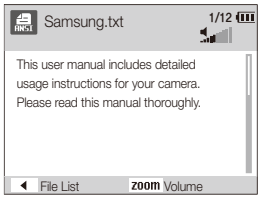
* You can scan a file quickly to the point that you want to play. (p. 81)

- All buttons except for [POWER] will not work in the first and last 2 seconds of the playback.
- Convert subtitle files (.smi) using Samsung Converter to display subtitles. (p. 26)
- Some videos may be paused during playback and resumed automatically. It is not a malfunction.
- During playback, the playback controls disappears automatically after a specified time. To show the controls again, press any button.

Using the Text Viewer mode

Learn how to view text files.

1 Access the Text Viewer mode and view a file. (p.75)



Icon	Description
ANSI / UNI	Textviewer mode (This icon indicates the encoding type*.)
1/2	Current page/Number of pages
	Volume
	Remaining battery capacity

* The encoding type will be displayed as ANSI or UNI.

- **ANSI (American National Standards Institute) type**: you have to set the language to match that of the text file. (p. 82)
- **Unicode type**: you do not have to set the language to match that of text file.

2 Use the following buttons to control playback.

Press	To
[Zoom] up or down	Adjust volume (if the background music turns on).
[M]	Change the mode.
[MENU]	Change the Text Viewer mode settings.
[DISP]	• Go to the previous page. • Skip 10 pages (press and hold).
[ ]	• Go to the next page . • Skip 10 pages (press and hold).
[ ]	Open the file list.

- If text is displayed incorrectly, save it as an ANSI file using a text editor on your computer (such as Notepad for Windows).
- Some characters or symbols may not be displayed correctly.
- Text files that are improperly encoded may be corrupted.
- A file that is bigger than 10 MB may take longer to open or may not open. Divide large files into multiple, smaller files for faster access.

Multimedia mode settings menu

Learn how to change the settings for each multimedia mode.

1 Press [**MENU**] while an MP3 or video file is being played or a text file is being viewed.

2 Select a menu.

3 Select an option.

* Default

Menu	Available mode	Description
Resume		Set to start the last music file played or resume a video or text file. (**Off**, **On***)
Play Mode		Set to repeat playback or play files randomly. • **Normal***: Play all files in the current folder once. • **Repeat One**: Repeat the current file. • **Repeat**: Repeat all files in the current folder. • **Shuffle**: Play files in the current folder in random order.

* Default

Menu	Available mode	Description
Background		Select a skin for the player screen. • **Skin 1***, **Skin 2**: Display a default image stored in the internal memory. • **User 1**, **User 2**: Display an image saved as an MP3 player skin in the edit menu. (p. 68)
Slide Show		Start a slide show while listening to an MP3. (p. 78)
Interval		Set the length of time to skip photos in a slide show. (**2 sec***, **3 sec**, **5 sec**)
Seeking		Set the length of time to skip when scanning backward or forward. (**Normal**, **30 sec***, **1 min**, **3 min**, **5 min**, **10 min**)

* Default

Menu	Available mode	Description
Player Display		Show or hide the playback controls. • **5 sec***: Hide the playback controls after no operations for 5 seconds. To show the controls again, press any button. • **Off**: Hide the playback control. • **On**: Show the playback controls at all times. The subtitles will be displayed regardless of the setting.
Mute		Mute sound during playback. (**Off***, **On**)

* Default

Menu	Available mode	Description
Auto Scroll		Set a delay before scrolling to the next line of text. (**Off***, **1**, **2**, **3**, **4**, **5**)
Back Music		Play background music while viewing text files. • **Off***: Do not play music. • **On**: Play the last MP3 file played.
Language		Select a language to match that of the text file.
Delete All		Delete all files of a selected Multimedia mode. (**Yes**, **No**)

Appendixes

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

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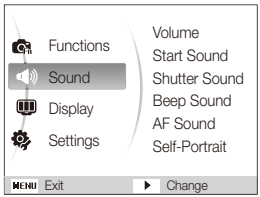
Camera settings menu

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

Accessing the settings menu

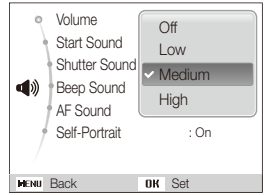
1 In Shooting or Playback mode, press [**MENU**].

2 Select a menu.



Menu	Description
	Sound: Set various camera sounds and volume. (p. 85)
	Display: Customise the display settings, such as language and brightness. (p. 85)
	Settings: Change the settings for the camera system, such as memory format, default file name, and USB mode. (p. 86)

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***)
Self-Portrait	Set a sound to be emitted when the camera detects your face. (**Off**, **On***)

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	Set a start image to display when the camera turns on. • **Off***: Display no start image. • **Logo**: Display a default image stored in the internal memory. • **User Image**: Display the image you want. (p. 68) • Only one start image will be saved in the internal memory. • If you select a new photo as a start image or reset your camera, the current image will be deleted. • A wide image or image in 3:2 ratio cannot be set as a start image.
Display Brightness	Adjust the brightness of the screen. (**Auto***, **Dark**, **Normal**, **Bright**) **Normal** is fixed in Playback mode even if **Auto** is selected.
Quick View	Set the duration for reviewing a captured image or video before returning to Shooting mode. (**Off**, **0.5 sec***, **1 sec**, **3 sec**)
Power Save	If you perform no operations for 30 seconds, the camera automatically switches to Power save mode (press any button to deactivate the Power save mode). (**Off***, **On**)

Settings

* Default

Item	Description
Format	Format the internal memory and the memory card (all files-including the protected files-will be deleted). (**Yes**, **No**) If you use a memory card used with cameras from different manufacturers or a memory card reader, or one formatted on a computer, your camera may read the card incorrectly. Format the card before using it.
Reset	Reset menus and shooting options (date and time, language, and video output settings will not be reset). (**Yes**, **No**)
Date & Time	Set the date and time and select a date format. (**dd/mm/yyyy**, **mm/dd/yyyy**, **yyyy/mm/dd**, **Off***)
Time Zone	Select a region and set the daylight-saving time (DST).

* Default

Item	Description
File No.	Specify how to name files. • **Reset**: Set the file number to start from 0001 when inserting a new memory card, formatting a memory card, or deleting all files. • **Series***: Set the file number to follow the previous file number when inserting a new memory card, formatting a memory card, or deleting all files. • The default name of the first folder is 100SSCAM and the default name of the first file is SDC10001. • The file number increases one by one from SDC10001 to SDC19999. • The folder number increases one by one from 100SSCAM to 999SSCAM. • The maximum number of files that can be stored in one folder is 9999. • 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.

* Default

Item	Description
Imprint	Set whether to display the date and time on your photos when printing. (**Off***, **Date**, **Date & Time**) • The date and time will be displayed on the bottom-right corner of the photo in yellow. • The date and time may not be printed on some printer models. • If you select **Text** in the SCENE mode, the date and time will not be displayed.
Auto Power Off	Set the camera to automatically turn off when you are not using it. (**Off**, **1 min**, **3 min***, **5 min**, **10 min**) • Your settings will not change after replacing the battery. • The camera will not automatically turn off when: - it is connected to a computer or printer - you are playing a slide show or videos - you are recording a voice memo

* Default

Item	Description
Video Out	Set the video signal output according to your region. • **NTSC***: USA, Canada, Japan, Korea, Taiwan, Mexico. • **PAL** (supports only BDGHI): Australia, Austria, Belgium, China, Denmark, Finland, Germany, England, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand, Norway.
AF Lamp	Set an assistant light to help you focus in dark places. (**Off**, **On***)
USB	Set the function to use via a USB connection with a computer or printer. • **Auto***: Set your camera to select a USB mode automatically. • **Computer**: Connect your camera to a computer for transferring files. • **Printer**: Connect your camera to a printer for printing files.

Error messages

When the following error messages appear, try these remedies.

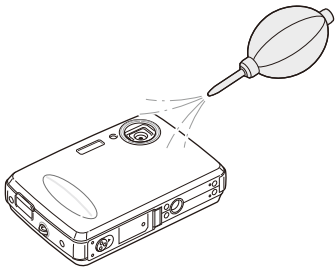
Error message	Suggested remedies
Card Error	• Turn off your camera and then turn it on again. • Remove your memory card and insert it again. • Format your memory card. (p. 86)
Card Locked	Unlock the memory card.
DCF Full Error	File names do not match the DCF standard. Transfer the files on the memory card to your computer and format the card. (p. 86)
File Error	Delete the damaged file or contact a service centre.
Low Battery	Insert a charged battery or recharge the battery.
Low Light	Turn on the flash. (p. 45)
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.

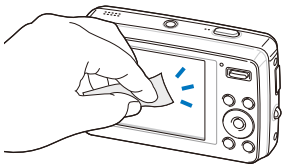
Camera maintenance

Cleaning your camera

Camera lens and display

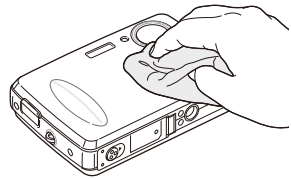
Use a blower brush to remove dust and wipe the lens gently with a soft cloth. If any dust remains, apply lens cleaning liquid to a piece of cleaning paper and wipe gently.





Camera body

Wipe gently with a soft, dry cloth.

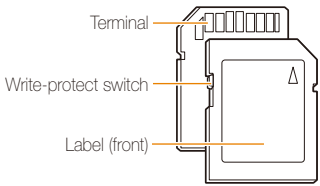


- Never use benzene, thinners, or alcohol to clean the device. These solutions can damage the camera or cause it to malfunction.
- Do not press on the lens cover or use a blower brush on the lens cover.

About memory cards

Memory cards you can use

You can use SD (Secure Digital), SDHC (Secure Digital High Capacity), or MMC (Multimedia Card) 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	20 FPS	15 FPS
Photos	9M	194	376	546	-	-	-
	8M	221	426	611	-	-	-
	7M	264	510	744	-	-	-
	5M	343	637	870	-	-	-
	3M	532	895	1,211	-	-	-
	1M	1,716	2,059	2,376	-	-	-
* Videos	800	-	-	-	-	Approx. 30' 9"	-
	640	-	-	-	Approx. 35' 54"	-	Approx. 69' 52"
	320	-	-	-	Approx. 47' 24"	-	Approx. 92' 12"

* The recordable time may vary if you use the zoom.

About the battery

Use only Samsung-approved batteries.

Battery specifications

Mode	SLB-0937
Type	Lithium-ion battery
Cell capacity	900 mAh
Voltage	3.7 V
Charging time (when the camera is switched off)	Approx. 180 min

Battery life

Average time / Number of photos		Test conditions (when the battery is fully charged)
Photos	Approx. 140 min/ Approx. 280 photos	This is measured under the following conditions: in the mode, 9M resolution, Fine quality. 1. Set the flash option to **Fill in**, take a single shot, and zoom in or out. 2. Set the flash option to **Off**, take a single shot, and zoom in or out. 3. Perform steps 1 and 2 for 30 seconds and repeat for 5 minutes. Then turn off the camera for 1 minute. 4. Repeat steps 1 to 3.
Videos	Approx. 130 min	Record videos at 800 x 592 resolution and 20 fps.
MP3	Approx. 330 min	Play files with the screen turned off.
PMP	Approx. 250 min	Play files with normal playback.
Text viewer	Approx. 210 min	View files with background music and auto scroll.

- 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 red or does not illuminate, reconnect the cable, or remove the battery and insert it again.
- If you charge the battery when it is warm, the indicator light may turn orange. Charging will start when the battery cools down.

Notes about charging with a computer connected

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

Before contacting a service centre

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

Situation	Suggested remedies
Cannot turn on the camera	• Make sure that the battery is inserted. • Make sure that the battery is inserted correctly. • Charge the battery.
The power turns off suddenly	• Charge the battery. • Your camera may be in Power save mode. (p. 85) • The camera may turn off to prevent the memory card from being damaged due to an impact. Turn on your camera again.
The camera is losing battery power quickly	• The battery may lose power more quickly in low temperatures (below 0° C). Keep the battery warm by putting it into your pocket. • Using the flash or recording videos depletes the battery quickly. Recharge if needed. • Batteries are consumable parts that must be replaced over time. Get a new battery if the battery life is diminishing quickly.
Cannot take photos	• There is no space on the memory card. Delete unnecessary files or insert a new card. • Format the memory card. (p. 86) • The memory card is defective. Get a new memory card. • The memory card is locked. Unlock the card. (p. 88) • Make sure that the camera is switched on. • Charge the battery. • Make sure that the battery is inserted correctly.
The camera freezes	Remove the battery and insert it again.
The flash does not work	• The flash option may be set to **Off**. (p. 45) • You cannot use the flash in the , , or some SCENE modes.
The flash fires unexpectedly	The flash may fire due to static electricity. This is not a malfunction of the camera.

Situation	Suggested remedies
The date and time are incorrect	Set the date and time in the display settings menu.
The display or buttons do not work	Remove the battery and insert it again.
The memory card has an error	The memory card has not been reset. Format the card. (p. 86)
Cannot play back files	If you change the name of a file, your camera may not play the file (the name of the file should meet the DCF standard). If you encounter this situation, play back files on your computer.
The photo is blurry	• Make sure that the focus option you set is suitable for close-up shots. (p. 47) • Make sure that the subject is within range of the flash. (p. 95) • Make sure that the lens is clean. If not, clean the lens. (p. 89)
The colours in the photo do not match the actual scene	An incorrect white balance can create unrealistic colour. Select the proper white balance option to suit the light source. (p. 54)

Situation	Suggested remedies
The photo is too bright	• Your photo is overexposed. Adjust the exposure value. (p. 53) • Turn off the flash. (p. 45)
The TV does not display your photos	• Make sure that the camera is correctly connected to the external monitor with the A/V cable. • Make sure that your memory card contains photos.
Your computer does not recognise your camera	• Make sure that the USB cable is connected correctly. • Make sure that your camera is switched on. • Make sure that you are using a supported operating system.
Your computer disconnects the camera while transferring files	The file transmission may be interrupted by static electricity. Disconnect the USB cable and connect it again.

Camera specifications

Image sensor	
Type	1/2.5" (Approx. 1.02 cm) CCD
Effective pixels	Approx. 9.0 mega-pixels
Total pixels	Approx. 9.2 mega-pixels
Lens	
Focal length	Samsung lens 3X Inner Zoom f = 6.3 - 18.9 mm (35 mm film equivalent: 38 - 114 mm)
F-stop range	F3.5 (W) - F4.5 (T)
Digital zoom	• Still image mode: 1.0X - 5.0X • Play mode: 1.0X - 10.8X (depending on image size)
Display	
Type	TFT LCD
Feature	2.7" (6.86 cm), 230,000 dots
Focusing	
Type	TTL auto focus (Multi AF, Center AF, Face Recognition AF, Face Detection AF)

Range

	Wide (W)	Tele (T)
Normal	80 cm - infinity	
Macro	5 cm - 80 cm	50 cm - 80 cm
Auto Macro	5 cm - infinity	50 cm - infinity
Super Macro	1 cm - 5 cm	-

Shutter speed	
• 1 - 1/2,000 sec. • AEB, Continuous: 1/4 - 1/2,000 sec. • Night: 16 - 1/2,000 sec.	
Exposure	
Control	Program AE
Metering	Multi, Spot, Center-weighted
Compensation	±2EV (1/3EV steps)
ISO equivalent	Auto, 80, 100, 200, 400, 800, 1600, 3200
Flash	
Mode	Off, Auto, Red-eye, Fill in, Slow Sync, Red-eye Fix
Range	• Wide: 0.3 m - 3.8 m (ISO Auto) • Tele: 0.5 m - 3.0 m (ISO Auto)
Recharging time	Approx. 5 sec.
Shake reduction	
Digital Image Stabilisation (DIS)	
Effect	
Shooting mode	• Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB • Image Adjust: Sharpness, Contrast, Saturation

White Balance	
Auto WB, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom Set	
Shooting	
Photos	• Modes: Smart Auto (Portrait, Night Portrait, Backlight Portrait, Backlight, Landscape, White, Motion, Tripod, Night, Macro, Macro Text), Auto, Program, DIS, Movie, Scene (Night, Portrait, Children, Landscape, Text, Close Up, Sunset, Dawn, Backlight, Firework, Beach & Snow, Frame Guide, Beauty Shot) • Drive: Single, Continuous, Motion Capture, AEB • Timer: 2 sec,10 sec, Double, Motion Timer
Videos	• Format: MPEG-4 with audio (Max recording time: 2 hours) • Size: 800 x 592 (20 FPS), 640 x 480 (15 FPS, 30 FPS), 320 x 240 (15 FPS, 30 FPS) • 3X Optical zoom with sound recording • Frame rate: 15 FPS, 20 FPS, 30 FPS • Photo Style Selector, White Balance, Video stabilisation • Video editing (embedded): Pause during recording, Still image capture, Time trimming

Playback	
Type	Single image, Thumbnails, Multi slide show, Movie clip, Smart Album
Edit	Resize, Rotate, Photo Style Selector, Image Adjust
Effect	• Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB • Image Adjust: ACB, Red-eye Fix, Brightness, Contrast, Saturation, Face Retouch, Add Noise
Voice recording	
• Voice Recording (Max. 10 hours) • Voice Memo in a photo (Max. 10 sec.)	
Storage	
Media	• Internal memory: Approx. 196 MB • External memory (Optional) - SD card (up to 4 GB guaranteed) - SDHC card (up to 8 GB guaranteed) - MMC Plus (up to 2 GB guaranteed) Internal memory capacity may not match these specifications.
File format	• Photo: JPEG (DCF), EXIF 2.21, DPOF 1.1, PictBridge 1.0 • Video: AVI (MPEG-4) • Audio: WAV

Image size	For 1GB SD

		Super fine	Fine	Normal
9M	3456 x 2592	194	376	546
8M	3456 x 2304	221	426	611
7M	3456 x 1944	264	510	744
5M	2592 x 1944	343	637	870
3M	2048 x 1536	532	895	1,211
1M	1024 x 768	1,716	2,059	2,376

These figures are measured under Samsung's standard conditions and may vary depending on shooting conditions and camera settings.

Multimedia	
MP3	• Frequency: 20 Hz - 20 KHz • Earphone port: 20 pin port (Stereo type) • Output maximum volume: Left 40 mW + Right 40 mW (16Ω) • Noise ratio: 88 dB with 20 KHz LPF • File format: MP3 (MPEG-1/2/2.5 Layer 3) • Bit rate: 48 - 320 Kbps (Including VBR) • Sound effect: SRS
PMP	• Movie: Xvid MPEG-4 (Using Samsung Converter) • Audio: MPEG Layer 2 (Using Samsung Converter) • Play mode: Seeking in play (Max. 32X), Skipping in play, Auto skipping after one file played, Remember last played frame
Text Viewer	• File: Text file (TXT extension name, smaller than 10 MB or up to 99,999 pages) • File format: Window ANSI (Windows 98 or later), Unicode/Unicode (Big-Endian)/UTF-8 (Windows 2000/XP) Mac ANSI, Unicode (UTF-16) • Function: Auto scroll (1 - 5), Skipping by 1 - 10 pages

Interface	
Digital output connector	USB 2.0
Audio output	Mono
Video output	NTSC, PAL (selectable)
DC power input connector	20 pins

Power source	
Rechargeable battery	Lithium-ion battery (SLB-0937, 900 mAh)

The power source may differ depending on your region.

Dimensions (W x H x D)
92.8 x 59.7 x 19.4 mm

Weight
120.7 g (without battery and memory card)

Operating temperature
0 - 40˚C
Operating humidity
5 - 85 %
Software
Samsung Converter, Samsung Master, Adobe Reader

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 shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it 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 this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product 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.

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

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

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