

# User Manual wb600/wb610

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

### U Click a topic

Quick reference

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**Basic functions** 

Extended functions

Shooting options

Playback/Editing

Appendixes

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# Health and safety information

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



 $\ensuremath{\textbf{Warning}}-\ensuremath{\text{situations}}$  that could cause injury to yourself or others



 $\ensuremath{\textbf{Caution}}-\ensuremath{\text{situations}}$  that could cause damage to your camera or other equipment



Note-notes, usage tips, or additional information



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

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

#### Keep your camera away from small children and pets

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

#### Prevent damage to subjects' eyesight

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

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

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

#### Avoid interference with pacemakers

Maintain a minimum of 15 cm (6 inches) between cameras and pacemakers to avoid potential interference, as recommended by manufacturers and the independent research group, Wireless Technology Research. If you have any reason to suspect that your camera is interfering with a pacemaker or other medical device, turn off the camera immediately and contact the manufacturer of the pacemaker or medical device for guidance.



### Handle and store your camera carefully and sensibly

- Do not allow your camera to get wet—liquids can cause serious damage. Do not handle your camera with wet hands. Water damage to your camera can void your manufacturer's warranty.
- Do not expose the camera to direct sunlight or high temperatures for an extended period of time. Prolonged exposure to sunlight or extreme temperatures can cause permanent damage to your camera's internal components.
- Avoid using or storing your camera in dusty, dirty, humid, or poorly-ventilated areas to prevent damage to moving parts and internal components.
- Remove the batteries from your camera when storing it for an extended period of time. Installed batteries may leak or corrode over time and cause serious damage to your camera.
- Protect your camera from sand and dirt when using it on beaches or in other similar areas.
- Protect your camera from impact, rough handling, and excessive vibration to avoid serious damage.
- Exercise caution when connecting cables or adapters and installing batteries and memory cards. Forcing the connectors, improperly connecting cables, or improperly installing batteries and memory cards can damage ports, connectors, and accessories.
- Do not insert foreign objects into any of your camera's compartments, slots, or access points. Damage due to improper use may not be covered by your warranty.

# Protect batteries, chargers, and memory cards from damage

- Avoid exposing batteries or memory cards to very cold or very hot temperatures (below 0° C/32° F or above 40° C/104° F).
   Extreme temperatures can reduce the charging capacity of your batteries and can cause memory cards to malfunction.
- Prevent batteries from making contact with metal objects, as this can create a connection between the + and – terminals of your battery and lead to temporary or permanent battery damage.
- Prevent memory cards from making contact with liquids, dirt, or foreign substances. If dirty, wipe the memory card clean with a soft cloth before inserting in your camera.
- Do not allow liquids, dirt, or foreign substances to come in contact with the memory card slot. Doing so may cause the camera to malfunction.
- Turn off the camera when inserting or removing the memory card.
- Do not bend, drop, or subject memory cards to heavy impact or pressure.
- Do not use memory cards that have been formatted by other cameras or by a computer. Reformat the memory card with your camera.
- Never use a damaged charger, battery, or memory card.

### Use only Samsung-approved accessories

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

#### Protect your camera's lens

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

# 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.

### 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.

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- All brand and product names appearing in this manual are registered trademarks of their respective companies.
  - Camera specifications or contents of this manual may be changed without prior notice due to upgrade of camera functions.
  - We recommend using your camera within a country where you purchase it.
  - For Open Source License information, refer to the "OpenSourceinfo.pdf" in the provided CD-ROM.

### Organization of the user manual

Basic functions	11
Learn about your camera's layout, icons, and basic functions for shooting.	
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Learn how to take a photo by selecting a mode and how to record a video or voice memo.	
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Leam about the options you can set in shooting mode.	
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Learn how to play back photos, videos, or voice memos and edit photos or videos. Also, learn how to connect your camera to your computer, photo printer, TV, or HDTV.	
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Refer to settings, error messages, specifications, and maintenance tins	

### Indications used in this manual

Shooting mode	Indication
Smart Auto	<b>C</b> S
Auto	AUTO
Program	Р
Aperture Priority, Shutter Priority, Manual	A·S·M
DUAL IS	(Coul
Beauty Shot	ĨO.
Scene	SCN
Movie	) <b>2</b>

#### Shooting mode icons

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

#### e.g.)

#### Adjusting the exposure manually (EV)

PASM COULAL #

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.



Available in the Program, Aperture Priority, Shutter Priority, Manual, DUAL IS, and Movie modes

### Icons used in this manual

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

### Abbreviations used in this manual

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

### Expressions used in this manual

### Pressing the shutter

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



#### Subject, background, and composition

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



### Exposure (Brightness)

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





Normal exposure

Overexposure (too bright)

# **Common questions**

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

The subject's eyes appear red.	<ul> <li>This is caused by a reflection from the camera flash.</li> <li>Set the flash option to O Red-eye or O Red-eye Fix. (p. 43-44)</li> <li>If the photo has already been taken, select O Red-eye Fix in the edit menu. (p. 73)</li> </ul>
Photos have dust spots.	<ul><li>Dust particles floating in the air may be captured in photos when using the flash.</li><li>Turn off the flash or avoid taking photos in a dusty place.</li><li>Set ISO speed options. (p. 45)</li></ul>
Photos are blurred.	<ul> <li>This may be caused by taking photos in low light conditions or holding the camera incorrectly.</li> <li>Use the « Budt mode. (p. 29)</li> <li>Press [Shutter] halfway down to make sure the subject is focused. (p. 25)</li> </ul>
Photos are blurred when shooting at night.	As the camera tries to let in more light, the shutter speed slows. This can make it difficult to steady the camera and may result in camera shake. • Turn on the flash. (p. 43-44) • Select * Night in the SCN mode. (p. 31) • Set ISO speed options. (p. 45) • Use a tripod to prevent your camera from shaking.
Subjects come out too dark because of backlighting.	<ul> <li>When the light source is behind the subject or when there is a high contrast between the light and dark areas, the subject may come out shaded.</li> <li>Avoid shooting in front of the sun.</li> <li>Select <sup>₹</sup>↓ Backlight in the SCN mode. (p. 31)</li> <li>Set the flash option to <b>\$ Fill in.</b> (p. 44)</li> <li>Set the Auto Contrast Balance (ACB) option. (p. 55)</li> <li>Adjust the exposure. (p. 55)</li> <li>Set the metering option to <b>Spot</b> if a bright subject is in the center of the frame. (p. 56)</li> </ul>

# **Quick reference**

# Taking photos of people

- SCN mode > Portrait, Children ► 31
- Beauty Shot ► 30
- Red-eye, Red-eye Fix (to prevent or correct red-eye)
   43-44
- Face Detection ► 50

# Taking photos at night or in the dark

- SCN mode > Night, Dawn, Firework ► 31
- Flash options ▶ 43
- ISO speed (to adjust the sensitivity to light)  $\blacktriangleright$  45

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- Continuous, Motion Capture ▶ 58

# Taking photos of text, insects, or flowers

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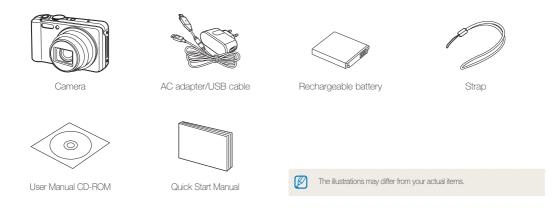
# **Basic functions**

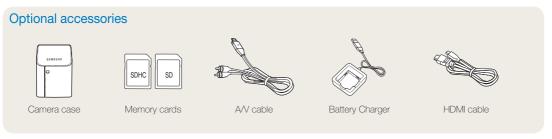
Learn about your camera's layout, icons, and basic functions for shooting.

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# Unpacking

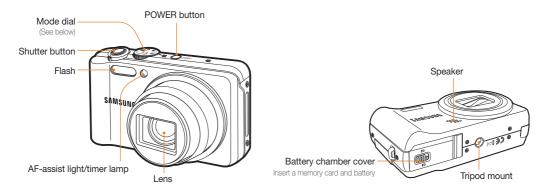
Check your product box for the following items.





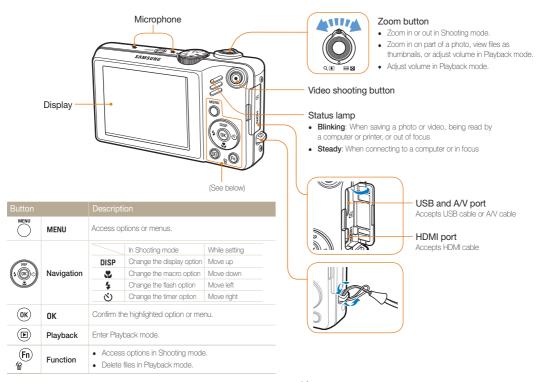
# **Camera layout**

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



Icon	Mode	Description
<b>c</b> s	Smart Auto	Take a photo by letting the camera select a scene mode as it detects
AUTO	Auto	Take a photo quickly and easily with minimal settings
Р	Program	Take a photo by setting options
A∙S∙M	Aperture Priority, Shutter Priority, Manual	Set the aperture priority, shutter priority, or manual mode Aperture Priority : Take a photo by adjusting the aperture value (The shutter speed is set automatically.) Shutter Priority : Take a photo by adjusting the shutter speed (The aperture value is set automatically.) Manual : Take a photo by adjusting both the aperture value and shutter speed

Icon		Description
(CDUAL	DUAL IS	Take a photo with options suitable for reducing camera shake
ĵ <b>O</b> i	Beauty Shot	Take a photo of a person with options to hide facial imperfections
SCN	Scene	Take a photo with options preset for a specific scene
)	Movie	Record a video

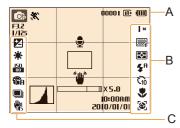


# lcons

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

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1.0.0



A. Information		
lcon	Description	
<b>C</b> P	Selected shooting mode	
<b>**</b> ;	Indicates the status of moving subject	
X5.0	Zoom ratio	
0000	Available number of photos	
00:01:00	Available recording time	
(III)	Internal memory	
C	Memory card inserted	
(11)	<ul> <li>Image: Fully charged</li> <li>Image: Partially charged</li> <li>Image: Charging needed</li> </ul>	
F3.2	Aperture value	
1/125	Shutter speed	
Ţ	Voice memo	
	Auto focus frame	
۴۳	Camera shake	
10:00AM 2010/01/01	Current date and time	
	Histogram (p. 21)	
#	Grid lines	

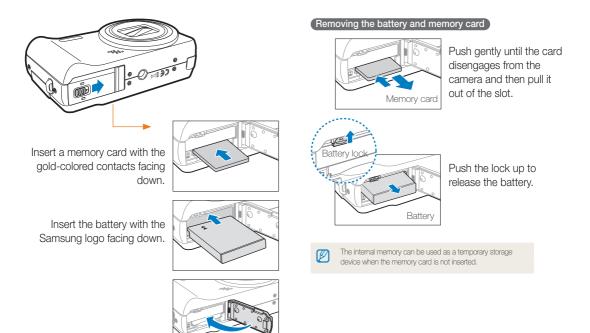
### B. Icons on the right

М	Photo resolution
320	Video resolution
∭.F	Photo quality
30 F	Frame rate
<b>I</b> ◆	Metering option
<b>\$</b> <sup>₽</sup>	Flash
Čίο	Timer
۲	Focus distance
3	Face detection

### C. Icons on the left

lcon	Description
	Exposure value
۲	White balance
2	Face tone
1	Face retouch
150 80	ISO speed
<b>C</b> A	Photo style
[[7]]	Image adjustment (contrast, sharpness, saturation)
$( \bigcirc )$	Smart Filter
, OFF	Voice muted
	Burst type
<b>U</b> S	Optical Image Stabilization (OIS)

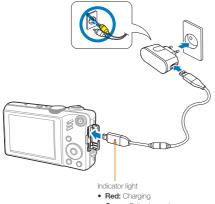
# Inserting the battery and memory card



# Charging the battery and turning your camera on

### Charging the battery

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



• Green: Fully charged

### Turning on your camera

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

• The initial setup screen appears when you turn on the camera for the first time. (p. 18)



#### Turning on your camera in Playback mode

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



# Performing the initial setup

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

- 1 Press [POWER].
  - The initial setup screen appears when you turn on the camera for the first time.
- 2 Press  $[\mathfrak{G}]$  to select Language and press  $[\mathfrak{G}]$  or  $[\mathbf{OK}]$ .



- 3 Press [DISP] or [] to select a language and press [OK].
- 4 Press [DISP] or [♥] to select Time Zone and press [♥] or [0K].
- 5 Press [4] or  $[\circlearrowright]$  to select a time zone and press  $[\mathbf{OK}]$ .
  - To set the daylight-saving time, press [DISP].



- 6 Press [DISP] or [\*] to select Date & Time and press [\*] or [0K].
- 7 Press [4] or [3] to select an item.



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

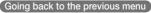
# **Selecting options**

You can select options by pressing [MENU] and pressing the navigation button([DISP], [\$], [\$], [\$).

ľ	r.	7	7	h	
	IJ	⊳	′	I	
	s	_	_	,	

You can also access shooting options by pressing  $\left[ F_{II} \right]$  but some options are not available.

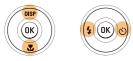
- 1 In Shooting mode, press [MENU].
- 2 Press the navigation button to select to an option or menu.
  - Press [DISP] or [] to move up or down; press [] or [] to move left or right.



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



Press [Shutter] to return to Shooting mode.



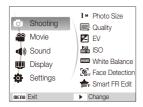
3 Press [**OK**] to confirm the highlighted option or menu.

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

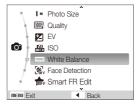
1 Rotate the mode dial to P.



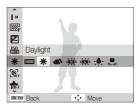
2 Press [MENU].



3 Press [DISP] or [♥] to select to Shooting and then press [♥] or [0K]. 4 Press [DISP] or [♥] to select to White Balance and then press [♥] or [♥K].



5 Press [4] or [6] to select to a white balance option.



6 Press [OK].

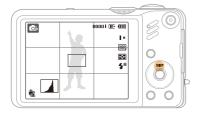
# Setting the display and sound

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

### Changing the display type

Select a style of display for Shooting or Playback mode.

Press [DISP] repeatedly to change a display type.



Mode	Description	
Shooting	<ul> <li>Display all information about shooting</li> <li>Hide information about shooting, except the available number of photos</li> <li>Display grid lines and histogram</li> </ul>	
Playback	<ul> <li>Display all information about the current photo</li> <li>Hide all information about the current file</li> <li>Display information about the current file, except the shooting settings and histogram</li> </ul>	

### About a histogram

A histogram is a graph that displays how light is distributed in your photo. If the histogram has a high peak on the left, your photos are dark. A peak on the right of the graph means that your photos are bright. The height of the peaks is related to color information. The more of a particular color, the taller the peak.







Underexposed

Well Exposed

Overexposed

## 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**  $\rightarrow$  **Beep Sound**  $\rightarrow$  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 Smart Auto mode.

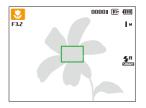
1 Rotate the mode dial to C<sub>3</sub>.



2 Align your subject in the frame.



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



4 Press [Shutter] to take a photo.



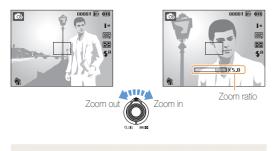
See page 25 for tips to get clearer photos.

## Zooming

V

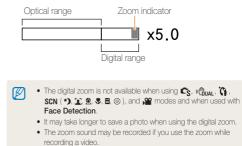
You can shoot close-up photos by adjusting the zoom. Your camera has a 15X optical zoom and 5X digital zoom. By using both, you can zoom in up to 75 times.

Rotate  $[\mbox{Zoom}]$  right to zoom in on your subject. Rotate  $[\mbox{Zoom}]$  left 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 zoom ratio available for videos differs.

### Reducing camera shake (OIS)

Reduce camera shake optically in Shooting mode.





Before correction

After correction

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

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

- OIS may not function properly when:
  - you move your camera to follow a moving subject
  - you use digital zoom

Ø

- there is too much camera shake
- the shutter speed is slow (e.g., when you select Night in the SCN mode)
- the battery is low
- you take a close-up shot
- If you use the OIS function with a tripod, your images may be blurred by the vibration of the OIS sensor. Deactivate the OIS function when you use a tripod.
- If the camera is impacted, the display will be blurry. In this case, turn
  off the camera and turn it on again to use the OIS function correctly.

### Tips for getting a clearer photo

## Holding your camera correctly



Make sure nothing is blocking the lens.

### Reducing camera shake



- Set the Optical Image Stabilization option to reduce camera shake optically. (p. 24)
- Select the Course and the select the Course and the select the Course and the select t





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

The aperture value and shutter speed are 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 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. 44)
- Set ISO speed options. (p. 45)



### Preventing your subject from being out of focus

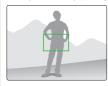
It may be difficult to get your subject in focus when:

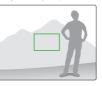
- there is little contrast between the subject and background (When your subject is wearing a color of clothing that is similar to the background)
- the light source behind the subject is too bright
- the subject is shiny
- the subject includes horizontal patterns, such as blinds
- the subject is not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



#### Use the focus lock

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





• When you take photos in low light



Turn on the flash. (p. 43-44)

• When subjects are moving fast



Use the continuous or motion capture function. (p. 58)

# **Extended functions**

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

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# 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 Rotate the mode dial to C3.

### 2 Align your subject in the frame.

• The camera selects a scene automatically. An appropriate mode icon will appear at the top left of the screen.



lcon	Description
	Appears when taking photos of landscapes.
WHITE	Appears when taking photos of bright backgrounds.
2	Appears when taking photos of landscapes at night. This is available only when the flash is off.
2	Appears when taking portraits at night.
<b>*</b>	Appears when taking photos of landscapes with backlighting.
55 <u>-</u>	Appears when taking portraits with backlighting.
	Appears when taking portraits.
2	Appears when taking close-up photos.

Icon	Description
1	Appears when taking close-up photos of text.
<b>e j</b>	Appears when taking photos of sunsets.
	Appears when taking photos of clear skies.
	Appears when taking photos of forested areas.
	Appears when taking close-up photos of colorful subjects.
0.	Appears when taking close-up portraits of people.
帛	Appears when the camera and subject are stable for a while.
<b>**</b> :	Appears when taking photos of actively moving subjects.
<b>*</b>	Appears when taking photos of fireworks. This is available only when you use a tripod.

3 Half-press [Shutter] to focus.

- 4 Press [Shutter] to take the photo.
- - 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 R mode may not be detected depending on the subject's movement.

# Using the DUAL IS mode

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





Before correction

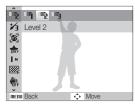
After correction

- 1 Rotate the mode dial to Court.
- 2 Align your subject in the frame and half-press [Shutter] to focus.
- 3 Press [Shutter] to take the photo.
  - The digital zoom will not work in this mode.
    - The photo will be corrected optically only when taken with a light source that is brighter than fluorescent light.
    - If your subject is moving rapidly, the photo may be blurry.
    - Set the Optical Image Stabilization option to reduce camera shake in different shooting modes. (p. 24)

# Using the Beauty Shot mode

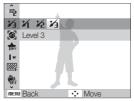
Take a photo of a person with options to hide facial imperfections.

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



4 To hide facial imperfections, press [MENU].

- 5 Select Shooting  $\rightarrow$  Face Retouch  $\rightarrow$  an option.
  - Select a higher setting to hide a greater number of imperfections.

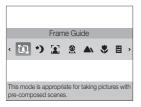


- 6 Align your subject in the frame and half-press [Shutter] to focus.
- 7 Press [Shutter] to take the photo.
  - The focus distance will be set to Auto Macro.

# Using the Scene mode

Take a photo with options preset for a specific scene.

- 1 Rotate the mode dial to **SCN**.
- 2 Select a scene.

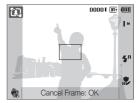


- To change the scene mode, press [MENU] and select Scene  $\rightarrow$  a scene.
- For the Frame Guide mode, see "Using the frame guide" on page 31.
- 3 Align your subject in the frame and half-press [Shutter] to focus.
- 4 Press [Shutter] to take the photo.

### Using the frame guide

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

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



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

# Using the Program mode

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

- 1 Rotate the mode dial to P.
- 2 Set options. (For a list of options, refer to "Shooting options.")



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



# Using the Aperture Priority, Shutter Priority, or Manual mode

Adjust aperture value or shutter speed to control the exposure of your photos. You can use these options in the Aperture Priority, Shutter Priority, and Manual modes.

#### Aperture value

The aperture is a hole through which light is admitted. You can adjust the aperture value to control how much light reaches the lens when you capture a photo. By decreasing the aperture value (opening the aperture wider), more light will enter and objects that are farther away will appear out of focus. This is good for closeup or portrait shots to draw attention to the main subject.

Alternatively, as you increase the aperture value, objects from near to far are in sharp focus. This is good for landscape shots to show the entire scope of the scene.



Big aperture value



Small aperture value

### Shutter speed

Shutter speed controls how long the camera's shutter remains open when you capture a photo. When you decrease the shutter speed, more light enters your camera and the photo will appear brighter. However, a slower shutter speed can also result in blurry photos if either the subject or the camera is moving.

When you increase the shutter speed, the photo will appear darker. However, a faster shutter speed will also reduce the blurring if your subject or the camera is in motion.





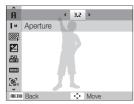
Slow shutter speed

Fast shutter speed

# Using the Aperture Priority mode

The Aperture Priority mode allows you to manually set the aperture value while the camera automatically selects an appropriate shutter speed.

- 1 Rotate the mode dial to **A·S·M**.
- 2 Select **H** and press [OK].
- 3 Press [MENU].
- 4 Select Shooting → Aperture and then adjust the aperture value.
  - See page 33 for more information about the aperture value.

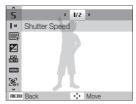


- 5 Set options. (For a list of options, refer to "Shooting options.")
- 6 Align your subject in the frame and half-press [Shutter] to focus.
- 7 Press [Shutter] to take the photo.

# Using the Shutter Priority mode

The Shutter Priority mode allows you to manually set the shutter speed while the camera automatically selects an appropriate aperture value.

- 1 Rotate the mode dial to A·S·M.
- 2 Select **5** and press [**0K**].
- 3 Press [MENU].
- 4 Select Shooting → Shutter Speed and then adjust the shutter speed.
  - See page 33 for more information about the shutter speed.

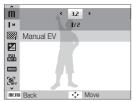


- 5 Set options. (For a list of options, refer to "Shooting options.")
- 6 Align your subject in the frame and half-press [Shutter] to focus.
- 7 Press [Shutter] to take the photo.

## Using the Manual mode

The Manual mode allows you to manually adjust both the aperture value and the shutter speed.

- 1 Rotate the mode dial to **A·S·M**.
- 2 Select **Ⅲ** and press [**OK**].
- 3 Press [MENU].
- 4 Select Shooting → Manual EV and then adjust the aperture value and shutter speed.



- 5 Set options. (For a list of options, refer to "Shooting options.")
- 6 Align your subject in the frame and half-press [Shutter] to focus.
- 7 Press [Shutter] to take the photo.



## **Recording a video**

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

- H.264 (MPEG-4 part10/AVC) is a high-compression video format established by international standard organizations ISO/IEC and ITU-T.
  - Some memory cards may not support high definition recording. In this case, set a lower resolution. (p. 40)
  - When the Optical Image Stabilization ( 🌸 ) is activated, your video may be recorded with the OIS operation sound.
  - The zoom sound may be recorded if you use the zoom while recording a video.
- 1 Rotate the mode dial to Jan.
- 2 Press [MENU].
- 3 Select **Movie** → **Frame Rate** → a frame rate (the number of frames per second).
  - As the number of frames increases, action appears more natural, but the file size is increased.



 ${\bf 60}~{\rm FPS}$  is available only when the video resolution is 320 x 240.

4 Press [MENU].

#### 5 Select **Movie** $\rightarrow$ **Voice** $\rightarrow$ a sound option.

Option	Description
.OFF	Off: Record a video without sound.
Ţ	On: Record a video with sound.
	Zoom Mute : Record a video without sound while zooming.

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

#### To pause recording

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

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

#### How to use Video shooting button

By pressing the movie recording button in the shooting mode, you can directly start recording movies. To disable the movie recording function, press the movie recording button one more time.

## Using the Smart Scene Detection mode

In this mode, your camera automatically chooses the appropriate camera settings based on a detected type of scene.

- 1 Rotate the mode dial to Jan.
- 2 Press [MENU].
- 3 Select Movie → Smart Scene Detection→ On.
- 4 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.



- Appears when recording videos of landscapes.
- Appears when recording videos of clear skies.
- Appears when recording videos of forested areas.
- Appears when recording videos of sunsets.

- 5 Press [Shutter] to start recording.
- 6 Press [Shutter] again to stop recording.
- If the camera does not recognize a proper scene mode, and will not change and the default settings will be used.
  - The camera may not select the correct scene depending on shooting environments, such as camera shake, lighting and distance to the subject.

## Recording voice memos RET P A S M (GUAL SCN

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

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		ь	/		

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

## Recording a voice memo

- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Voice  $\rightarrow$  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 Shooting  $\rightarrow$  Voice  $\rightarrow$  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 S A S M Court SCN #

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:

- In Shooting mode (except ₩ mode), press [MENU].
- 2 Select Shooting  $\rightarrow$  Photo Size  $\rightarrow$  an option.

Option	Description
l2 <b></b> м	4000 X 3000: Print on A1 paper.
	<b>3984 X 2656</b> : Print on A2 paper in wide ratio (3:2).
9м	<b>3840 X 2160</b> : Print on A2 paper in panorama ratio (16:9) or play back on an HDTV.
8м	3264 X 2448: Print on A3 paper.
5м	2560 X 1920: Print on A4 paper.
3м	2048 X 1536: Print on A5 paper.
2м	<b>1920 X 1080</b> : Print on A5 paper or play back on an HDTV.
[м	1024 X 768: Attach to email.

#### When recording a video:

- 1 In the ₩ mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Movie Size  $\rightarrow$  an option.

Option	Description
1280 HQ	1280 X 720 HQ: Play back high-quality files on an HDTV.
1580	1280 X 720: Play back on an HDTV.
640	640 X 480: Play back on a general TV.
320	320 X 240: Post on a web page.

### Selecting image quality D A S M Could SCN

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

- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Quality  $\rightarrow$  an option.

Option	Description
Esf	Super Fine
₩.F	Fine
<b>887</b> 0	Normal

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## Using the timer CS KUTO P A S M (GUAL SCN )

Learn how to set the timer to delay shooting.

### 1 In Shooting mode, press [3].



#### 2 Select an option.

Option	Description
<b>C</b>	Off: The timer is not active.
Č10	10 Sec: Take a photo in 10 seconds.
Ö	2 Sec: Take a photo in 2 seconds.
లి	<b>Double</b> : Take a photo in 10 seconds and take another in 2 seconds.
(び)	Motion Timer: Detect your movement and then take a photo. (p. 42)

The options may differ depending on the shooting mode.

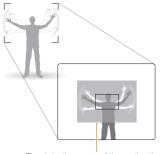
#### 3 Press [Shutter] to start the timer.

- 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.

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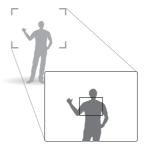
#### Using the motion timer

- 1 In Shooting mode, press [3].
- 2 Select ((හ)).
- 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 RUTO P SCN

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





### Using the flash CS KUTO P A S M SCN

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

1 In Shooting mode, press [4].



2 Select an option.

Option	Description
۲	Off: • The flash will not fire.
	<ul> <li>Camera shake warning (**) will be displayed when shooting in low light.</li> </ul>
5A Sintte	Auto: The camera will select a proper flash setting for the detected scene in the $\ensuremath{\mathbb{C}_S}$ mode.
ଝ	<ul> <li>Red-eye Fix*:</li> <li>The flash fires when the subject or background is dark.</li> <li>The camera corrects red-eyes through its advanced software analysis.</li> </ul>

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

The options may differ depending on the shooting mode.

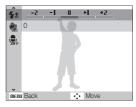
\* There is an interval between two bursts of the flash. Do not move until the flash fires a second time.

- 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. 100)
  - If there is reflected light or much dust in the air, tiny spots may appear on your photo.

## Adjusting the amount of flash PASM

Adjust the amount of flash to avoid overexposure or underexposure.

- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Flash EVC.
- 3 Adjust the amount of flash.



- Adjusting the flash amount may not be effective if:
  - the subject is too close to the camera
  - you set a high ISO speed
  - the exposure value is too big or too small
  - In some shooting modes, you cannot use this function.

### Adjusting the ISO speed PASM

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

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

#### 2 Select Shooting $\rightarrow$ ISO $\rightarrow$ an option.

- Select the 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 EVIIO P A S M CUAL #

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



- Try to hold the camera very still to prevent blurry photos.
  - Turn off the flash if the distance to the subject is less than 80 cm.

## Setting the focus distance PASM (Gual )

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

👖 In Shooting mode, press 🔂.



2 Select an option.

Option	Description
[AF]	<b>Normal (AF)</b> : Focus on a subject farther than 80 cm (farther than 2 m when using zoom).
۲	Macro: Focus on a subject 3-80 cm (1-2 m when using zoom).
₽	Auto Macro: Focus on a subject farther than 3 cm (farther than 1 m when using zoom).
[mF]	Manual Focus: Focus on a subject by manually adjusting the focus distance. (p. 47)

The options may differ depending on the shooting mode.

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#### Adjusting the focus distance manually

- 1 In Shooting mode, press [🜄].
- 2 Select Manual Focus.
- 3 Rotate the navigation button to adjust the focus distance.

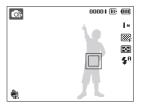


- When you adjust the focus distance manually and the subject is out of focus, the photo may become blurry.
  - If you use this function, you cannot set the face detection and focus area options.

### Using tracking auto focus PASM SCN

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

- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Focus Area  $\rightarrow$  Tracking AF.
- 3 Focus on the subject you want to track and press [OK].
  - A focus frame will appear on the subject and will follow the subject as you move the camera.



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

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

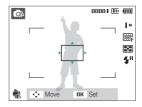
• Press [OK] to change the focus area.

- Tracking a subject may fail when:
  - the subject is too small or the subject moves excessively
  - the subject is backlit or you are shooting in a dark place
  - colors or patterns on the subject and the background are the same
  - the camera shakes excessively
  - In these cases, the focus frame will appear as a white single-line frame.
  - If the camera fails to track the subject, you must reselect the subject to track.
  - If the camera fails to fix the focus, the focus frame will change to a red single-line frame.
  - If you use this function, you cannot set face detection and photo style options.

### Using selection focus PASM @UAL

You can focus on a particular part of your scene. Select where you want to focus.

- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Focus Area  $\rightarrow$  Selection AF.



**3** Rotate or press the navigation button to move the frame to the area you want to focus and press [**OK**].

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

- Press [OK] to change the focus area.
- If you use this function, the face detection options are not available.

### Adjusting the focus area **EUTO** P A S M (GUAL SCN

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

- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Focus Area  $\rightarrow$  an option.



The options may differ depending on the shooting mode.

## Using face detection R A S M (GUAL SCN

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

- In some scene modes, face detection is unavailable.
  - Face detection may not be effective when:
    - the subject is far from the camera (The focus frame will appear orange for **Smile Shot** and **Blink Detection**)
    - it is too bright or too dark
    - the subject is not facing the camera
    - the subject is wearing sunglasses or a mask
    - the subject is in backlighting or the lighting condition is unstable
    - the subject's facial expression changes remarkably
  - Face detection is not available when using a photo style, smart filter effect, or image adjustment option or when used with Tracking AF.
  - Face detection is not available when using the digital zoom.
  - 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.
  - Depending on the selected face detection option, some burst options are not available.
  - When you take photos of detected faces, they will be registered in the face list.
  - The options may differ depending on the shooting mode.
  - You can view registered faces in order of priority in Playback mode.
     (p. 65) Even though faces are registered successfully, they may not be classified in Playback mode.
  - The detected face in Shooting mode may not appear in the face list or Smart Album.

## **Detecting faces**

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



- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Face Detection  $\rightarrow$  Normal.
  - The closest face appears in a white focus frame and the rest of the faces appear in grey focus frames.
  - The closer you are to the subject, the quicker your camera will detect faces.
    - When you use the burst option, the detected faces may not be recognized.

## 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 Shooting  $\rightarrow$  Face Detection  $\rightarrow$  Self-Portrait.
- 3 When your hear a quick beep, press [Shutter].

## Taking a smile shot

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





- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Face Detection  $\rightarrow$  Smile Shot.
  - When your subject smiles broadly, your camera can detect the smile more easily.

## Detecting eye blinking

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



- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Face Detection  $\rightarrow$  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 prioritize the focus on those faces and favorite faces. This feature is available only when you use a memory card.



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

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

- Indicate favorite faces
   (To register favorite faces, see page 53).
- 🔲 : Indicate faces that the camera automatically registers.

- The camera may recognize and register faces incorrectly depending on lighting conditions, remarkable changes in the subject's pose or face, and whether or not the subject is wearing glasses.
  - The camera can automatically register up to 12 faces. If the camera recognizes a new face when there are 12 registered faces, it will replace the face in the lowest priority with the new one.
  - The camera can detect up to 10 faces in one scene.

## Registering faces as your favorites (My Star)

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

- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Smart FR Edit  $\rightarrow$  My Star.
- 3 Align your subject and press [Shutter] to register the face.
  - If the subject's face is not aligned with the oval guideline, the white frame will not appear.
  - You can take photos of a subject's face directly from the front, to the left side, to the right side, from above, or from below.
  - Take photos of one person at a time when registering faces.





- 4 When you are finished taking the photos, the face list appears.
  - Your favorite faces are indicated with a  $\star$  on the face list.

#### Using face detection

- You can register up to 8 favorite faces.
  - The flash option will be set to Off.
  - If you register the same face twice, you can delete one of the faces in the face list.

#### Viewing your favorite faces

- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Smart FR Edit  $\rightarrow$  Face List .
- To change the ranking of the favorite faces, press [Fn] and select Edit Ranking.(p. 64)
  - To cancel the favorite faces, press  $[{\rm Fn}]$  and select Delete My Star. (p. 64)

## Adjusting brightness and color

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

## Adjusting the exposure manually (EV)

#### PASM (Coual )

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.



- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  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. 58)

## Compensating for backlighting (ACB) PASM

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





Without ACB

With ACB

- 1 In Shooting mode, press [MENU].
- 2 Select **Shooting**  $\rightarrow$  **ACB**  $\rightarrow$  an option.

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

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

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## Changing the metering option PASM @UAL #

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

1 In Shooting mode, press [MENU].

#### 2 Select Shooting $\rightarrow$ Metering $\rightarrow$ an option.

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

## Selecting a light source (White balance)

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





🄅 (Daylight)







- (Tungsten)

- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  White Balance  $\rightarrow$  an option.

lcon	Description			
AWB	Auto WB: Use automatic settings depending on the lighting conditions.			
۲	<b>Daylight</b> : Select when taking outdoor photos on a sunny day.			
۵	<b>Cloudy</b> : Select when taking outdoor photos on a cloudy day or in shadows.			
a)iiiiii	Fluorescent_H: Select when shooting under a daylight fluorescent or three-way fluorescent light.			
a)	Fluorescent_L: Select when shooting under white fluorescent light.			
<b>.</b>	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 Shooting → White Balance → Measure: Shutter.
- 3 Aim the lens at a piece of white paper.



4 Press [Shutter].

## Using burst modes PASMSCN

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.

Ø



- 1 In Shooting mode, press [MENU].
- 2 Select Shooting  $\rightarrow$  Drive  $\rightarrow$  an option.

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

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

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## Improving your photos

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

### Applying photo styles AND PASM #

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



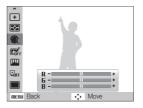


Forest

- In Shooting mode, press [MENU].
- Select Shooting → Photo Style Selector → an option.
  - Select Custom RGB to define your own RGB tone.
- · Select Normal if you want to use face detection options.
  - . When you select Sketch, the photo will be automatically resized to 5 M or smaller.
  - . If you use this function, you cannot set the smart filter and image adjustment options.

## Defining your own RGB tone

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



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

## Applying smart lens effects ADD PASM #

Apply various lens effects to your photos to create unique images.









Fish-eye 1



Fish-eye 2



- 2 Select Shooting  $\rightarrow$  Smart Filter.
- 3 Select an effect.

Description			
Normal: No effect			
Miniature: Make a photo of a life-size location or object look like a photo of a miniature scale model. Blurring parts of the photo makes the scene seem much smaller than it actually is.			
Vignetting: Apply the retro-looking colors, high contrast, and strong vignette effect.			
Fish-eye 1: Distort close objects to imitate the visual effect of a fisheye lens.			
Fish-eye 2: Blacken the edges of the frame and distort objects to imitate the visual effect of a fisheye lens.			

- If you select Miniature when recording a video, the miniature recording time is displayed with the ID icon and is shorter than the real recording time.
  - If you select Miniature when recording a video, the sound will not be recorded.
  - When you apply a smart filter effect while recording a video, the video will be automatically resized to **640** or smaller.
  - If you use this function, you cannot set the photo style and image adjustment options.

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## Adjusting your photos PASM

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

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

Contrast option	Description
-	Decrease the color and brightness.
+	Increase the color and brightness.
Sharpness option	Description
-	Soften the edges on your photos (suitable for editing the photos on your computer).
+	Sharpen the edges to improve the clarity of your photos. This may also increase the noise on your photos.

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

- Select 0 if you do not want to apply any effects. (suitable for printing)
  - When Image Adjust is set, Photo Style Selector function is not available.

## Playback/Editing Learn how to play back photos, videos, or voice memos and

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

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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 [4] or [3] to scroll through files.
  - Press and hold [5] or [3] to view files quickly.
  - If you want to view files stored in the internal memory, remove your memory card.
    - The camera will not properly play back files that are too large or those taken with cameras from other manufacturers.

Display	in P	ayback	mode
		And Property lies in which the lies of the	



lcon	Description		
9	Photo includes a voice memo		
60	Video file		
	Print order has been set (DPOF)		
Оп	Protected file		
8	Photo includes a registered face; Available only when you use a memory card		
100-0001	Folder name – File name		
	Histogram		
ISO	ISO speed		
AV	Aperture		
TV	Shutter speed		
FLASH	Flash option		
SIZE	Photo resolution		
DATE	Shooting Date and time		

#### Ranking your favorite faces

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

- 1 In Playback mode, press [MENU].
- 2 Select File Options  $\rightarrow$  Face List Edit  $\rightarrow$  Edit Ranking.
- 3 Select a face from the list and press [OK].



4 Press [DISP] or [♥] to change the ranking of the face, and press [Fn].

#### Canceling your favorite faces

- 1 In Playback mode, press [MENU].
- 3 Select a face and press [OK].
- 4 Press [Fn].
- 5 Select Yes.

#### Viewing files by category in Smart Album

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

- 1 In Playback mode, rotate [Zoom] left.
- 2 Press [MENU].

#### 3 Select a category.



Option	Description
Туре	View files by the file type.
Date	View files by the date they were saved.
Color	View files by the dominant color of the image.
Week	View files by the weekday they were saved.
Face	View files by recognized faces and favorite faces. (Up to 20 people)

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

- 4 Press [4] or [3] to scroll through files.
  - Press and hold [4] or [3] to view files quickly.
- 5 Press [OK] to return to the normal view.

#### Viewing files as thumbnails

Scan thumbnails of files.



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

		*	0		
	٢				
۲	30	31	1	2	>
ME	menu Filter 2010.01.01				

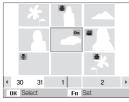
То	Do this
Scroll through files	Press [DISP], [\$], [\$], or [🔆].
Delete files	Press [Fn] and select Yes.

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#### Protecting files

Protect your files from accidental deletion.

- 1 In Playback mode, press [MENU].
- 2 Select File Options  $\rightarrow$  Protect  $\rightarrow$  Select.
  - To protect all files, select  $\textbf{All} \rightarrow \textbf{Lock}.$
- 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  $\rightarrow$  Delete  $\rightarrow$  All  $\rightarrow$  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  $\rightarrow$  Recycle Bin  $\rightarrow$  On.

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

- 1 In Playback mode, press [MENU].
- 2 Select File Options  $\rightarrow$  Recycle Bin  $\rightarrow$  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  $\rightarrow$  Copy to Card.
- 3 Select Yes to copy files.

## Viewing photos

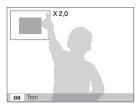
Zoom in on part of a photo or view photos in a slide show.

#### Enlarging a photo



In Playback mode, rotate  $[{\it Zoom}]$  right to enlarge a photo (rotate  $[{\it Zoom}]$  left to reduce a photo).

The enlarged area and zoom ratio are indicated on the top of the screen. The maximum zoom ratio may vary depending on the resolution.



То	Do this
Move the enlarged area	Press [DISP], [\$], [\$], 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	<ul> <li>Set the photos you want to view as a slide show.</li> <li>All: View all photos in a slide show.</li> <li>Date: View photos captured on a specific date in a slide show.</li> <li>Select: View selected photos in a slide show.</li> </ul>
Interval	<ul> <li>Set the interval between photos.</li> <li>This is available when Off is selected in the effect option.</li> <li>When used with effect options other than Off, the interval will be set to 1 sec.</li> </ul>
Music	Select a background audio.
Effect	<ul><li>Select a transition effect.</li><li>Select Off for no effects.</li></ul>

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- 4 Set the slide show effect.
- 5 Select Start → Play.
  - To loop the slide show, select Repeat.
  - Press [OK] to pause or resume the slide show.

To stop the slide show and switch to Playback mode, press [0K] and then  $[{\car{4}}]$ .

#### 2 Use the following buttons to control playback.

Press	То
[ <b>4</b> ]	Scan backward.
[OK]	Pause or resume playback.
[&]	Scan forward.
[Zoom] left or right	Adjust the volume level.

#### Trimming a video during playback

- 1 Press [OK] at the point where you want the new video to begin and rotate [Zoom] right.
- 2 Press [OK] to resume playback.
- 3 Press [OK] at the point where you want the new video to end and rotate [Zoom] right.
- 4 Select Yes.
- The original video should be at least 10 seconds long.
  - The edited video will be saved as a new file.

### 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].



#### Capturing an image during playback

- 5 Press [OK] at the point where you want to save a still image.
- 6 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	То
[ <b>4</b> ]	Scan backward.
[ <b>O</b> K]	Pause or resume playback.
[&]	Scan forward.
[2]	Stop playback.
[Zoom] left or right	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.

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## **Editing a photo**

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

Edited photos will be saved as new files.

## **Resizing photos**

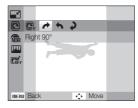
- 1 In Playback mode, select a photo and press [MENU].
- 2 Select Edit  $\rightarrow$  Resize  $\rightarrow$  an option.



- Select \$\$\mathbb{R}\$\$ to save the photo as a start image. (p. 87)
  - 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  $\rightarrow$  Rotate  $\rightarrow$  an option.



Depending on the original photo size, the rotated photo may be resized to a lower resolution.

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## Applying photo styles

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

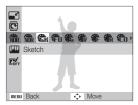


Vivid

Soft

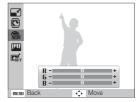
Forest

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



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

## Correcting exposure problems

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

#### Adjusting ACB (Auto Contrast Balance)

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

#### Removing red-eye

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

#### Hiding facial imperfections

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

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## Applying smart lens effects

Apply various lens effects to your photos to create unique images.







Vignetting

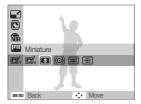


Fish-eye 1



Fish-eye 2

- 1 In Playback mode, select a photo and press [MENU].
- 2 Select Edit  $\rightarrow$  Smart Filter.
- 3 Select an effect.



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## 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  $\rightarrow$  DPOF  $\rightarrow$  Standard  $\rightarrow$  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 rotate [Zoom] left or right to select the number of copies. Repeat for the photos you want and press [Fn].
  - If you select All, press [DISP] or [] to select the number of copies and press [OK].

### 4 Press [MENU].

5 Select File Options  $\rightarrow$  DPOF  $\rightarrow$  Size  $\rightarrow$  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 rotate [Zoom] left or right to select the print size. Repeat for the photos you want and press [Fn].
  - If you select All, press [DISP] or [2] to select the print size and press [OK].

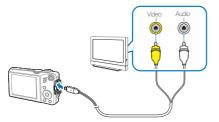
#### Printing photos as thumbnails

- 1 In Playback mode, press [MENU].
- 2 Select File Options  $\rightarrow$  DPOF  $\rightarrow$  Index  $\rightarrow$  Yes.
- If you specify the print size, you can print photos only with DPOF 1.1compatible printers.

## Viewing files on a TV or HDTV

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

- Select a video signal output according to your country or region. (p. 89)
- 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.

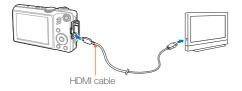
- On some TVs, digital noise may occur or part of an image may not appear.
  - Images may not appear centred on the TV screen depending on your TV settings.
  - You can capture photos or videos while the camera is connected to a TV.

#### Viewing files on an HDTV

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

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select Settings → HDMI Size.
- 3 Select an HDMI resolution.
- 4 Turn off your camera and HDTV.

5 Connect your camera to your HDTV using the optional HDMI cable.



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

## Transferring files to your computer (for Windows)

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

#### Requirements for Intelli-studio

Item	Requirements
CPU	Pentium 4, 3.2 GHz or higher (AMD Athlon™ 64FX, 2.6GHz or better)
RAM	Minimum 512 MB RAM (1 GB and above recommended)
OS	Windows XP SP2/Vista/7
Hard disk capacity	250 MB or more (1 GB or more recommended)
Others	<ul> <li>CD-ROM drive</li> <li>nVIDIA Geforce 7600GT or higher/ATI X1600 series or higher</li> <li>1024 x 768 pixels, 16-bit color display compatible monitor (1280 x 1024 pixels, 32-bit color display recommended)</li> <li>USB port, Microsoft DirectX 9.0c or later</li> </ul>

- Intelli-studio may not perform correctly on some computers, even when the computer meets the requirements.
  - If your computer does not meet the requirements, videos may not play correctly or it may take longer to edit videos.
  - Install DirectX 9.0c or above before you use the program.
  - You must use Windows XP/Vista/7 or Mac OS 10.4 or later to connect the camera as a removable disk.

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

## Transferring files using Intelli-studio

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

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	N/I	

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

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select Settings  $\rightarrow$  PC Software  $\rightarrow$  On.
- 3 Turn off the camera.
- 4 Connect the camera to your computer with the USB cable.

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



#### 5 Turn on the camera.

• The computer recognizes the camera automatically.

If you set the USB option to **Select Mode**, select **Computer** from the pop-up window.

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

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

#### Using Intelli-studio

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

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



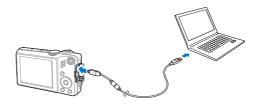
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0	Open menus
2	Display files in the selected folder
3	Change to the Photo edit mode
4	Change to the Video edit mode
6	Change to the Sharing mode (You can send files by email or upload files to websites, such as Flickr or YouTube.)
6	Enlarge or reduce the thumbnails in the list
7	Select a file type
8	View files of the selected folder on your computer
9	Show or hide files of the connected camera
0	View files of the selected folder on the camera
0	View files as thumbnails, in Smart Album, or on a map
12	Browse folders in the connected device
<b>B</b>	Browse folders in your computer
14	Move to the previous or next folder
<b>()</b>	Print files, view files on a map, store files in My Folder, or register faces

# Transferring files by connecting the camera as a removable disk

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

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select Settings  $\rightarrow$  PC Software  $\rightarrow$  Off.
- 3 Turn off the camera.
- 4 Connect the camera to your computer with the USB cable.
  - You must plug the end of the cable with the indicator light (A) into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.



### 5 Turn on the camera.

• The computer recognizes the camera automatically.

If you set the USB option to **Select Mode**, select **Computer** from the pop-up window.

- $\label{eq:computer} \begin{array}{l} 6 & \text{On your computer, select } My \ computer \rightarrow Removable \\ Disk \rightarrow DCIM \rightarrow 100PHOTO. \end{array}$
- 7 Select the files you want and drag or save them to your computer.

## Disconnecting the camera (for Windows XP)

The way to disconnect the USB cable for Windows Vista/7 is similar.

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



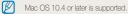
- 3 Click the pop-up message.
- 4 Remove the USB cable.



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

## Transferring files to your computer (for Mac)

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



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



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



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



If you set the USB option to **Select Mode**, select **Computer** from the pop-up window.

- 3 Double-click the removable disk icon.
- 4 Transfer photos or videos to the computer.

## Printing photos with a photo printer (PictBridge)

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

- 1 In Shooting or Playback mode, press [MENU].
- 2 Select Setting  $\rightarrow$  USB  $\rightarrow$  Printer.
- 3 With the printer on, connect your camera to the printer with the USB cable.



- 4 Turn on your camera.
  - The printer recognizes the camera automatically.
- 5 Press [4] or [3] to select a photo.
  - Press [MENU] to set printing options. See "Configuring print settings."
- 6 Press [OK] to print.
  - Printing starts. Press [4] to cancel printing.

#### Configuring print settings



Option	Description
٩	<b>Images</b> : 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.
Œ	Date: Set to print the date.
Ť	File Name: Set to print the name of the file.
0	Reset: Reset the print options.

Some options are not supported by some printers.

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# **Appendixes**

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

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## Camera settings menu

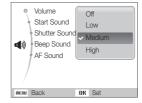
Learn about various options to configure your camera's settings.

## Accessing the settings menu

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

Shoce Movie	by Start Sound Shutter Sound Beep Sound AF Sound
Menu	Description
<b>4</b> »	<b>Sound</b> : Set various camera sounds and volume. (p. 87)
Ŵ	<b>Display</b> : Customize the display settings, such as language and brightness. (p. 87)
\$	Settings: Change the settings for the camera system, such as memory format, default file name, and USB mode. (p. 88-90)

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 o 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, $\ensuremath{Ont}$ )	

## Display

Item	Description	
Language	Select a language for the display text.	
Function Description	Display a brief description of an option or menu. (Off, On*)	
Grid line	Select a type of the grid lines that helps you to compose a scene. (2 X 2*, 3 X 3, X, +)	

Item	Description	
	<ul> <li>Set a start image to display when the camera turns on.</li> <li>Off*: Display no start image.</li> <li>Logo: Display a default image stored in the internal memory.</li> <li>User Image: Display the image you want. (p. 71)</li> </ul>	
Start Image	<ul> <li>Only one start image will be saved in the internal memory.</li> <li>If you select a new photo as a start image or reset your camera, the current image will be deleted.</li> <li>A wide image or image in 3:2 ratio cannot be set as a start image.</li> </ul>	
Display Brightness	Adjust the brightness of the screen. (Auto*, Dark, Normal, Bright) Mormal is fixed in Playback mode even if Auto is selected.	
Quick View	Set the duration for reviewing a captured image before returning to Shooting mode. (Off, 0.5 sec*, 1 sec, 3 sec)	
Power Save	If you perform no operations for 30 seconds, the camera automatically switches to Power save mode (press any button to deactivate the Power save mode). ( <b>Off</b> <sup>*</sup> , <b>On</b> )	

## Settings

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

	" Detault	
Item	Description	
File No.	<ul> <li>Specify how to name files.</li> <li>Reset: Set the file number to start from 0001 when inserting a new memory card, formatting a memory card, or deleting all files.</li> <li>Series<sup>*</sup>: Set the file number to follow the previous file number when inserting a new memory card, formatting a memory card, formatting a memory card, or deleting all files.</li> <li>The default name of the first folder is 100PHOTO and the default name of the first file is SAM_0001.</li> <li>The file number increases one by one from SAM_0001 to SAM_9999.</li> <li>The folder number increases one by one from 100PHOTO to 999PHOTO.</li> <li>The maximum number of files that can be stored in one folder is 9999.</li> <li>The camera defines file names according to the Digital rule for Camera File system (DCF) standard. If you change the names of files intentionally, the camera may not play back the files.</li> </ul>	

\* Default

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

Item	Description	
Video Out	<ul> <li>Set the video signal output according to your region.</li> <li>NTSC*: USA, Canada, Japan, Korea, Taiwan, Mexico.</li> <li>PAL (supports only BDGHI): Australia, Austria, Belgium, China, Denmark, Finland, Germany, England, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand, Norway.</li> </ul>	
AF Lamp	Set an assistant light to help you focus in dark places. (Off, On*)	
Anynet+ (HDMI-CEC)	<ul> <li>Set to control the camera connected to a Samsung HDTV that supports Anynet+(CEC) with the TV remote control.</li> <li>On*: Control the camera with an HDTV remote control.</li> <li>Off: View files without using an HDTV remote control.</li> </ul>	

	" Deraun	
	Description	
HDMI Size	Select the resolution of photos when playing back files on an HDTV with the HDMI cable. (NTSC: <b>1080i</b> *, <b>720p</b> , <b>480p</b> / PAL: <b>1080i</b> *, <b>720p</b> , <b>576p</b> )	
	If the HDTV does not support the selected resolution, the HDTV automatically selects the next lower resolution.	
USB	<ul> <li>Set the function to use via a USB connection with a computer or printer.</li> <li>Computer*: Connect your camera to a computer for transferring files.</li> <li>Printer: Connect your camera to a printer for printing files.</li> <li>Select Mode: Select a USB mode when you connect your camera to another device.</li> </ul>	
PC Software	Set Intelli-studio to start automatically when you connect your camera to your computer. (Off, On*)	

## **Error messages**

When the following error messages appear, try these remedies.

Error message	Suggested remedies	
Card Error	<ul> <li>Turn off your camera and then turn it on again.</li> <li>Remove your memory card and insert it again.</li> <li>Format your memory card. (p. 88)</li> </ul>	
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. 88)	
File Error	Delete the damaged file or contact a service centre.	
Low Battery	Insert a charged battery or recharge the battery.	
Memory Full	Delete unnecessary files or insert a new memory card.	
No Image File Take photos or insert a memory card that ha some photos.		
Card not supported.	The inserted memory card is not available with your camera. Use only the memory card that fits to the standardization of manufactures.	

## **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.

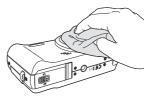




#### Camera body

Ø

Wipe gently with a soft, dry cloth.

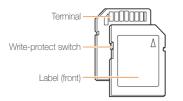


- Never use benzene, thinners, or alcohol to clean the device. These solutions can damage the camera or cause it to malfunction.
- Do not press on the lens cover or use a blower brush on the lens cover.

## About memory cards

#### Memory cards you can use

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



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

#### Memory card capacity

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

	Size	Super fine	Fine	Normal	60 FPS	30 FPS	15 FPS
	I2 <b></b> м	147	285	405	-	-	-
	<b>(10</b> )	168	314	442	-	-	-
Р	9м	203	368	529	-	-	-
h	8м	212	375	538	-	-	-
o t o	5м	340	568	794	-	-	-
S	3м	534	804	1068	-	-	-
	2м	872	1147	1441	-	-	-
	Įм	1475	1675	1878	-	-	-
*	1280 HQ	-	-	-	-	12' 49"	23' 23"
V i d	1580	-	-	-	-	14' 27"	26' 04"
e o	640	-	-	-	-	25' 00"	48' 02"
s	<b>320</b>	-	-	-	50' 54"	73' 27"	94' 20"

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

## About the battery

Use only Samsung-approved batteries.

Battery specifications		
Mode	SLB-11A	
Туре	Lithium-ion battery	
Cell capacity	1,130 mAh	
Voltage	3.8 V	
Charging time (when the camera is switched off)	Approx. 190 min	

#### Battery life

Shooting time / Number of photos		
Photos	Approx. 135 min/ Approx. 270 photos	<ul> <li>This is measured under the following conditions: in the Autro mode, 12M resolution, Fine quality, OIS on.</li> <li>1. Set the flash option to Fill in, take a single shot, and zoom in or out.</li> <li>2. Set the flash option to Off, take a single shot, and zoom in or out.</li> <li>3. Perform steps 1 and 2 for 30 seconds and repeat for 5 minutes. Then turn off the camera for 1 minute.</li> <li>4. Repeat steps 1 to 3.</li> </ul>
Videos	Approx. 100 min	Record videos at 1280 X 720 HQ resolution and 30 fps.

 The figures above are measured by Samsung's standards and may differ depending on actual usage.

Several videos were recorded in succession to determine the total recording time.

#### Camera maintenance

#### 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 the cable is overheated or the temperature is too high, the indicator light may turn orange. Charging will start when the battery cools down.

#### Notes about charging with a computer connected

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



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

- The battery can ignite or explode if not handled properly. If you
  notice any deformities, cracks, or other abnormalities in the battery,
  immediately discontinue use of the battery and contact your
  manufacturer.
- Use only authentic, manufacturer-recommend battery chargers and adapters and charge the battery only by the method described in this user manual.
- Do not expose the battery to temperatures of 60 °C (140°F) or above.
- Do not place the battery near heating devices or expose to excessively warm environments, such as the inside of an enclosed car in the summertime.
- · Do not place the battery in a microwave oven.
- Avoid storing or using the battery in hot, humid places, such as spas or shower enclosures.
- Do not allow the battery to come in contact with moisture or liquids.
- Do not rest the device on flammable surfaces, such as bedding, carpets, or electric blankets for a prolonged period.
- When the device is switched on, do not leave it in any confined space for a prolonged period.

- Do not allow battery terminals to come in contact with metallic objects, such as necklaces, coins, keys, or watches.
- Use only authentic, manufacturer-recommended, Lithiumion replacement batteries.
- Do not disassemble or puncture the battery with any sharp object.
- · Avoid exposing the battery to high pressure or crushing forces.
- Avoid exposing the battery to major impacts, such as dropping it from high places.

#### Disposal guidelines

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

## Before contacting a service centre

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

Situation	Suggested remedies	
Cannot turn on the camera	<ul><li>Make sure that the battery is inserted.</li><li>Make sure that the battery is inserted correctly.</li><li>Charge the battery.</li></ul>	
The power turns off suddenly	<ul> <li>Charge the battery.</li> <li>Your camera may be in Power save mode. (p. 87)</li> <li>The camera may turn off to prevent the memory card from being damaged due to an impact. Turn on your camera again.</li> </ul>	
The camera is losing battery power quickly	<ul> <li>The battery may lose power more quickly in low temperatures (below 0° C). Keep the battery warm by putting it into your pocket.</li> <li>Using the flash or recording videos depletes the battery quickly. Recharge if needed.</li> <li>Batteries are consumable parts that must be replaced over time. Get a new battery if the battery life is diminishing quickly.</li> </ul>	

Situation	Suggested remedies		
Cannot take photos	<ul> <li>There is no space on the memory card. Delete unnecessary files or insert a new card.</li> <li>Format the memory card. (p. 88)</li> <li>The memory card is defective. Get a new memory card.</li> <li>The memory card is locked. Unlock the card. (p. 91)</li> <li>Make sure that the camera is switched on.</li> <li>Charge the battery.</li> <li>Make sure that the battery is inserted correctly.</li> </ul>		
The camera freezes	Remove the battery and insert it again.		
The flash does not work	<ul> <li>The flash option may be set to Off. (p. 43)</li> <li>You cannot use the flash in the Could, , or some SCN modes.</li> </ul>		
The flash fires unexpectedly	The flash may fire due to static electricity. This is not a malfunction of the camera.		

Suggested remedies		Situation
Set the date and time in the display settings menu.		
Remove the battery and insert it again.		The photo
The memory card has not been reset. Format the card. (p. 88)		
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
<ul> <li>Make sure that the focus option you set is suitable for close up shots. (p. 46)</li> </ul>		
<ul> <li>Make sure that the subject is within range of the flash. (p. 100)</li> </ul>		The photo
Make sure that the lens is clean. If not, clean the lens. (p. 92)		
An incorrect white balance can create unrealistic color. Select the proper white balance option to suit the light source. (p. 56)		The TV do display yo
	Set the date and time in the display settings menu. Remove the battery and insert it again. The memory card has not been reset. Format the card. (p. 88) 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. • Make sure that the focus option you set is suitable for close-up shots. (p. 46) • Make sure that the subject is within range of the flash. (p. 100) • Make sure that the lens is clean. If not, clean the lens. (p. 92) An incorrect white balance can create unrealistic color. Select the proper white balance option to suit the light source.	Set the date and time in the display settings menu. Remove the battery and insert it again. The memory card has not been reset. Format the card. (p. 88) 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. • Make sure that the focus option you set is suitable for close-up shots. (p. 46) • Make sure that the subject is within range of the fiash. (p. 100) • Make sure that the lens is clean. If not, clean the lens. (p. 92) An incorrect white balance can create unrealistic color. Select the proper white balance option to suit the light source.

Situation	Suggested remedies		
The photo is too bright	<ul> <li>Your photo is overexposed.</li> <li>Adjust the exposure value. (p. 55)</li> <li>Adjust the aperture value or the shutter speed. (p. 33)</li> <li>Turn off the flash. (p. 43)</li> <li>Adjust the ISO speed. (p. 45)</li> </ul>		
The photo is too dark	<ul> <li>Your photo is underexposed.</li> <li>Adjust the exposure value. (p. 55)</li> <li>Adjust the aperture value or the shutter speed. (p. 33)</li> <li>Turn on the flash. (p. 43)</li> <li>Adjust the ISO speed. (p. 45)</li> </ul>		
The photo is distorted	The wide-angle lens may create distortions on the image. This is the normal feature of the wide-angle lens.		
The TV does not display your photos	<ul> <li>Make sure that the camera is correctly connected to the external monitor with the AV cable.</li> <li>Make sure that your memory card contains photos.</li> </ul>		

Situation	Suggested remedies	Situation	Suggested remedies	
Your computer does not recognize your camera	<ul> <li>Make sure that the USB cable is connected correctly.</li> <li>Make sure that your camera is switched on.</li> <li>Make sure that you are using a supported operating system.</li> </ul>	Intelli-studio is not functioning properly	<ul> <li>End Intelli-studio and restart the program.</li> <li>You cannot use Intelli-studio on Macintosh computers.</li> <li>Make sure that the PC Software is set to On in the settings menu. (p. 90)</li> <li>Depending on your computer's specification and environments, the program may not launch automatically. In this case, click Start → My Computer → Intelli-studio → iStudio.exe on your</li> </ul>	
Your computer disconnects the camera while transferring files	The file transmission may be interrupted by static electricity. Disconnect the USB cable and connect it again.	· · · · · · · · · · · · · · · · · · ·		
Your camera cannot play videos	<ul> <li>You can play videos only with the Intellistudio program. Install the program on your computer. (p. 79)</li> <li>Make sure that the USB cable is connected correctly.</li> </ul>		computer	

## **Camera specifications**

Image sensor				
Туре	1/2.3" (Approx. 1.10 cm) CCD			
Effective pixels	Approx. 12.0 m	Approx. 12.0 mega-pixels		
Total pixels	Approx. 14.2 m	Approx. 14.2 mega-pixels		
Lens				
Focal length		Schneider-KREUZNACH lens f = 3.9 ~ 58.5mm (35 mm film equivalent: 24 ~ 360mm), 15X optical zoom		
F-stop range	F3.2(W) ~ F5.8	F3.2(W) ~ F5.8(T)		
Digital zoom	Ŭ	<ul> <li>Still image mode: 1.0X - 5.0X</li> <li>Play mode: 1.0X - 12.5X (depending on image size)</li> </ul>		
Display				
Туре	3.0" TFT LCD	3.0" TFT LCD		
Feature	QVGA 230K dots			
Focusing				
Туре	Tracking AF, Ma	TTL auto focus (Multi AF, Center AF, Selection AF, Tracking AF, Manual Focus, Face Detection AF, Face Recognition AF)		
		Wide (W)	Tele (T)	
	Normal	80 cm - infinity	2 m - infinity	
Range	Macro	3 cm - 80 cm	1 m - 2 m	
	Auto Macro	3 cm - infinity	1 m - infinity	
	Manual	3 cm - infinity	1 m - infinity	

#### Shutter speed

- Auto: 1 1/2,000 sec.
- Manual: 16 1/2,000 sec.
- Night: 8 1/2,000 sec.
- Firework: 2 sec.

Exposure			
Control	Program AE, Shutter Priority AE, Aperture Priority AE, Manual Exposure		
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	<ul> <li>Wide: 0.3 m - 5.0 m (ISO Auto)</li> <li>Tele: 0.5 m - 3.0 m (ISO Auto)</li> </ul>		
EVC	±1EV (1/2 steps)		
Recharging time	Approx. 4 sec.		
Shake reduction			
DUAL IS [Optical Image Stabilization (OIS) + Digital Image Stabilization (DIS)]			

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Effect		
Shooting mode	<ul> <li>Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB, Sketch, Defog</li> <li>Image Adjust: Sharpness, Contrast, Saturation</li> <li>Smart Filter: Normal, Miniature, Vignetting, Fish-eye 1, Fish-eye 2</li> </ul>	Videos
White Balance		
Auto WB, Daylight, Custom Set	Cloudy, Fluorescent_H, Fluorescent_L, Tungsten,	
Shooting		
Photos	Modes: Smart Auto (Portrait, Night Portrait,	Playbac
	Backlight Portrait, Backlight, Landscape, White, Motion, Tripod, Night, Macro, Macro Text, Blue Sky, Sunset Sky, Natural Green, Natural Portrait, Macro	Туре
	Color, Firework), Auto, Program, Aperture Priority, Shutter Priority, Manual, DUAL IS, Movie, Beauty	Edit
	Shot, Scene (Night, Portrait, Children, Landscape, Text, Close Up, Sunset, Dawn, Backlight, Firework,	
	<ul><li>Beach &amp; Snow, Frame Guide)</li><li>Drive: Single, Continuous, Motion Capture, AEB</li></ul>	
	Timer: Off, 10 sec, 2 sec, Double, Motion Timer	Effect

os	<ul> <li>Stereo recording with volume control and mute in zooming</li> <li>Size: 1280 x 720 High Quality, 1280 x 720 Standard Quality, 640 x 480, 320 x 240</li> <li>Frame Rate: 60 FPS, 30 FPS, 15 FPS</li> <li>Voice: Off, On</li> <li>OIS: On, Off</li> <li>Video editing (embedded): Pause during recording, Still image capture, Time trimming</li> <li>Effect: Photo Style Selector, EV, White Balance, Metering, Smart Filter</li> </ul>
/back	
Э	Single image, Thumbnails, Multi slide show, Movie clip, Smart Album
	Resize, Rotate, Photo Style Selector, Image Adjust, Smart Filter
ct	<ul> <li>Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB, Sketch, Defog</li> <li>Image Adjust: ACB, Red-eye Fix, Face Retouch, Brightness, Contrast, Saturation, Add Noise</li> <li>Smart Filter: Normal, Miniature, Vignetting, Fish-eye 1, Fish-eye 2</li> </ul>

Eormat: H 264 (Max recording time: 20 min)

#### Voice recording

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

Storage	
Media	<ul> <li>Internal memory: Approx. 128 MB</li> <li>External memory (Optional) <ul> <li>SD card (up to 2 GB guaranteed)</li> <li>SDHC card (up to 8 GB guaranteed)</li> </ul> </li> <li>Internal memory capacity may not match these specifications.</li> </ul>
File format	<ul> <li>Photo: JPEG (DCF), EXIF 2.21, DPOF 1.1, PictBridge 1.0</li> <li>Video: MP4 (H.264 (MPEG-4.AVC))</li> <li>Audio: WAV</li> </ul>

For 10	For 1GB SD			
		Super fine	Fine	Normal
I2M	4000 x 3000	147	285	405
<b>(10</b> H	3984 x 2656	168	314	442
9м	3840 x 2160	203	368	529
8м	3264 x 2448	212	375	538
5м	2560 x 1920	340	568	794
3м	2048 x 1536	534	804	1068
2м	1920 x 1080	872	1147	1441
M	1024 x 768	1475	1675	1878

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

Interface	
Digital output connector	USB 2.0 (20 pin)
Audio output	Mono (Internal speaker), Stereo (Microphone)
Video output	<ul><li>AV: NTSC, PAL (selectable)</li><li>HDMI 1.4: NTSC, PAL (selectable)</li></ul>
DC power input connector	20 pin, 4.4 V

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Image size

#### Camera specifications

Power source				
Rechargeable battery	Lithium-ion battery (SLB-11A, 1,130 mAh)			
The power source ma	ay differ depending on your region.			
Dimensions (W x H x D)				
106.6 x 60.5 x 28mm				
Weight				
210.7 g (without battery and memory card)				
Operating temperature				
0 - 40° C				
Operating humidity				
5 - 85 %				
Software				
Intelli-studio				

Specifications are subject to change without prior notice.



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

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

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



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

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



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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.

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

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