Taking a self portrait shot

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



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



- To turn the beep on or off, select **Self-Portrait** in the sound settings. (p. 108)
- If you turn volume off in settings, the camera will not emit a beep.

Taking a smile shot

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





In Shooting mode, select $\triangle \to \Re_F \to \Theta$. When your subject smiles broadly, your camera can detect the smile more easily.

Detecting eye blinking

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



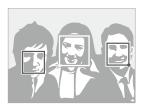
In Shooting mode, select $\triangle \rightarrow \bigcirc$



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

Using smart face recognition

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



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

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

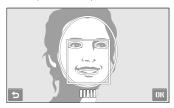


- The camera may recognize and register faces incorrectly depending on lighting conditions, remarkable changes in the subject's pose or face, and whether or not the subject is wearing glasses.
- The camera can automatically register up to 14 faces. If the camera recognizes a new face when there are 14 registered faces, it will replace the face in the lowest priority with the new one.
- . The camera can detect up to 5 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, select $\triangle \rightarrow \Re_{F} \rightarrow \Im$.
- 2 Align your subject's face with the oval guideline 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 will take 5 photos of the subject's face: one each from the front, left, right, above, and below.
 - Take photos of one person at a time when registering faces.



- 3 Select **b** when the face list appears.
- Your favorite faces are indicated with a ★ on the face list.



- You can register up to 6 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, select ▲ → 🕞 → 🔏.
- 2 Select material to view your favorite faces.



- To change the ranking of your favorite faces, select 🐀 (p. 68)
 - To cancel your favorite faces, select for

Adjusting brightness and color

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

Adjusting the exposure manually (EV)



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

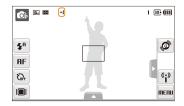


- 1 In Shooting mode, select ▲ → 型.
- 2 Select a value to adjust the exposure.
 - +: brighter, -: darker



3 Select OK.

The adjusted exposure value will appear as shown below.





- Once you adjust the exposure, the setting will remain the same. You
 may need to change the exposure value later to avoid overexposure
 or underexposure.
- If you cannot decide on an appropriate exposure, select AEB (Auto Exposure Bracket). The camera takes 3 consecutive photos with different exposures: normal, underexposed, and overexposed. (p. 59)

Compensating for backlighting (ACB)

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





Without ACB

With ACB

- 2 Select an option.



Option	
COFF	Off: ACB is off.
	On: ACB is on.



- The ACB feature is always on in node.

 This feature is not available when Continuous, Motion Capture, or AEB is in use.

Changing the metering option • • •

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

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



Option	
	Multi: • Your camera divides the frame into several areas,
- ♦-	and then measures the light intensity of each area.
	Suitable for general photos.

Option	
•	Spot: Your camera measures only the light intensity of the very center of the frame. If a subject is not in the center of the frame, your photo may be improperly exposed. Suitable for a subject with backlighting.
٥	Center-weighted: Your camera averages the meter reading of the entire frame with emphasis placed on the center. Suitable for photos with subjects in the center of the frame.

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.



1 In Shooting mode, select ▲ → ••••.

2 Select an option.

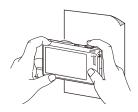


AWB	Auto WB : Use automatic settings depending on the lighting conditions.
*	Daylight : Select when taking outdoor photos on a sunny day.
a >	Cloudy: Select when taking outdoor photos on a cloudy day or in shadows.
:)	Fluorescent_H: Select when shooting under a daylight fluorescent or three-way fluorescent light.
崇	Fluorescent_L: Select when shooting under white fluorescent light.
: ķ c	Tungsten: Select when taking indoor photos under incandescent bulbs or halogen lamps.
	Custom Set: Use your pre-defined settings. (p. 58)

Defining your own white balance

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

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



3 Press [Shutter].

Using burst modes •

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



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



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

The options may differ depending on the shooting mode.



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

Improving your photos

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

Applying photo styles on on one

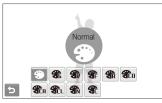
Apply various styles to your photos, such as Soft, Vivid, or Forest.







- 1 In Shooting mode, select ▲ → �. (In \bigcirc mode, select $\triangle \rightarrow \rightarrow \bigcirc$.)
- 2 Select an option.
 - Select **%** to define your own RGB tone.

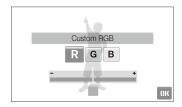




If you use this function, you cannot set the face recognition, smart filter and image adjustment options.

Defining your own RGB tone

- 1 In Shooting mode, select $\triangle \rightarrow$ **3**. (In \bigcirc mode, select $\triangle \rightarrow > \rightarrow$.)
- 2 Select **3**.
- 3 Select a color (R: Red, G: Green, B: Blue).
- 4 Adjust the amount of the selected color.



5 Select **OK**.

Applying smart filter effects 🚳 🚳 🕮

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





Miniature

__ `





Fish-eye 1

Fish-eye 2

- 1 In Shooting mode, select $\triangle \rightarrow \square$. (In \bigcirc mode, select $\triangle \rightarrow \rightarrow \rightarrow \square$.)
- 2 Select an effect.

Option	Description
A	Normal: No effect
3	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 of lomo cameras.
	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.
	Sketch: Make a photo looks like a drawing.
	Defog: Make a photo clearer.

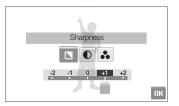


- If you select **Miniature** when recording a video, the miniature recording time is displayed with the contains in containing time is displayed with the containing time is displayed with the containing time. real recording time.
 - If you select Miniature when recording a video, the sound will not be recorded.
 - When you apply a smart filter effect while recording a video, the recording speed will be set to 💆 and the recording resolution will be set to less than 640.
 - If you use this function, you cannot set the photo style and image adjustment options.
 - The options may differ depending on the shooting mode.
 - When you select Sketch, the photo will be automatically resized to 5_M or smaller.

Adjusting your photos

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

- 1 In Shooting mode, select $\triangle \rightarrow \rightarrow \rightarrow \square$.
- 2 Select an adjustment option.
 - 🖪: Sharpness
 - D: Contrast
 - 🎎: Saturation
- 3 Select a value to adjust the selected item.



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

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



- Select 0 if you do not want to apply any effects (suitable for printing).
 If you use this function, you cannot set the face recognition, photo style and smart filter options.

Playback/Editing

Viewing files on a TV 82

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

Playing back	Transferring files to your computer
Starting Playback mode	(for Windows)
Playing a video73	Transferring files using Intelli-studio
Playing a voice memo	Transferring files by connecting the camera
Editing a photo 76	as a removable disk
Rotating a photo	Disconnecting the camera (for Windows XP) 87
Resizing photos	Transferring files to your computer
Using Smart crop	(for Mac)
Applying photo styles	Printing photos with a photo printer
Applying smart filter effects	(PictBridge)
Applying a special effect	(121211254)
Adjusting photo80	
Creating a print order (DPOF)	

Playing back

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

Starting Playback mode

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

1 Press [Playback].

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

2 Drag files left or right to scroll through files.

- Select \triangleleft to view the previous file. Hold to view files quickly.
- Select > to view the next file. Hold to view files quickly.



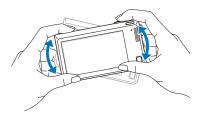




- If you want to view files stored in the internal memory, remove your memory card.
 - The camera will not properly play back files that are too large or those taken with cameras from other manufacturers.

Viewing files using motion recognition

You can view files by tilting the camera.



- Motion recognition may not work well if you hold the camera parallel to the ground.
- When you rotate the camera 90° or 180° while viewing a photo, the camera will automatically change the orientation of the displayed photo according to the camera direction.
- To deactivate this function, select MENU → → Gesture View → Off in Playback mode.

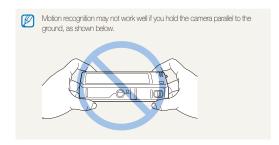
Selecting a menu using motion recognition

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

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



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



Display in Playback mode



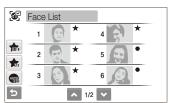
•	Photo includes a voice memo
,00	Video file
	Print order has been set (DPOF)
Оπ	Protected file
3	Photo includes a registered face; Available only when you use a memory card
•	Favorite file
100-0001	Folder name – File name
1	Open the face list (p. 68); Available only when you use a memory card
ŵ	Delete files (p. 71)
F	Play a slide show (p. 72)
	Edit photos (p. 76)

Icon	
	Select a display type (p. 24)
	Select a menu using motion recognition (p. 66)
(i)	Use network menus (p. 91)
MENU	Playback and settings menus
00:00:20	Playback time of videos or voice memos
0	Play videos or voice memos (Video p. 73/Voice memo p. 74)

Ranking your favorite faces

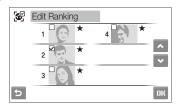
You can change the ranking of your favorite faces or delete them. This feature is available only when you use a memory card.

1 In Playback mode, select 🔏.



Select to cancel your favorite faces.

2 Select ★ → a face.



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

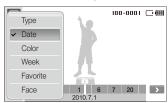
Viewing files by category in Smart Album

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

1 In Playback mode, select .

• You can also access Smart Album by rotating [Zoom] left.

2 Select **DATE** → a category.

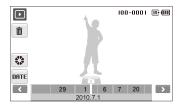


Option	Description
Туре	View files by the file type.
Date	View files by the date they were saved.
Color	View files by the dominant color of the image.
Week	View files by the weekday they were saved.
Favorite	View your favorite files.
Face	View files by recognized faces and favorite faces. (Up to 20 people)



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

- 3 Select a date, file type, weekday, color, or face.
 - file types, weekdays, colors, or faces.



- 4 Select **<** or **>** to scroll through files.
- 5 Select to return to the normal view.



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

To view files in 3D view

- 2 Drag files left or right to scroll through files.
 - Drag files left or right to move them more quickly. The farther you drag an icon across the screen, the more files you will scroll through at a time.
 - Select to view files in Smart Album.



- 3 Select a file in the middle of the screen to view in the full screen.
 - · Select the file to return to 3D view.



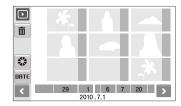
- You cannot play movies or voice memos in 3D view.
- The 3D feature is not available while the camera is connected to a TV.

Viewing files as thumbnails

Scan thumbnails of files.



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



То	Do this
Scroll through files	Select \triangleleft or \triangleright or slide your finger on the screen left or right to scroll through files.
View a file	Select a thumbnail.
Delete files	Select m . (p. 71)
View in 3D	Select 🗱.
Select a category	Select DATE.



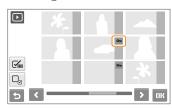
When you drag files in thumbnail mode, indication icons may appear after thumbnail have loaded.

Protecting files

Protect your files from accidental deletion.

To select and protect files,

- 1 In Playback mode, select **MENU**.
- 2 Select Protect → Select.
- 3 Select files you want to protect.
 - Select 📶 to select all files.
 - Select n to cancel your selection.



4 Select **DK**.

To protect all files,

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

Deleting files

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

To delete a single file,

- 1 In Playback mode, select a file → m.
- 2 Select **Yes** to delete the file.

To delete multiple files,

- 1 In Playback mode, select m → Multiple Delete.
- 2 Select files you want to delete.
 Select ⊈ to select all files on the current screen.
 - Select to cancel your selection.
- 3 Select **DK** → Yes.

Copying files to the memory card

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

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

Enlarging a photo



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

The enlarged area is indicated on the top of the screen. The maximum zoom ratio may vary depending on the resolution. Scroll toward the direction you want to move.



Icon	Description
â	Delete the file.
#	Crop the enlarged photo (it will be saved as a new file).
Q	Go back to the original view.
X2.0	Zoom ratio

Starting a slide show

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

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



Option	Description
	Images: Select photos (up to 2.000) for your slide show.

Playback/Editing 72

Option	
→	Play Mode: Select whether or not to loop the slide show.
Φ	Interval: Set the interval between photos. This will be available when you set Effect to 肯子. When used with an effect option than 青子, the interval will be set to 1 sec.
OFF	Music: Select background audio.
₩	Fifect: Select a transition effect. Select ##F for no effects.

- 3 Select **t** to start the slide show.
 - Touch on the screen (except for option icons) to pause the slide show.

 - Select to switch to Playback mode.

Playing a video

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

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



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

Trimming a video during playback

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



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

Capturing an image during playback

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



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

Playing a voice memo

Playing a voice memo

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



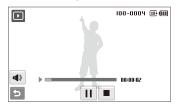
44	Scan backward.
/▶	Pause or resume playback.
	Stop playback.
>>	Scan forward.
4)	Adjust volume or mute sound.

Adding a voice memo to a photo

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

Playing a voice memo added to a photo

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



		Description
	/ ▶	Pause or resume playback.
		Stop playback.
	4)	Adjust volume or mute sound.

Editing a photo

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



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

Rotating a photo

- 1 In Playback mode, select a photo → FE.
- 2 Select **©** → an option.



3 Select **OK**.



The rotated photo will be saved as the same file, not a new file.

Resizing photos

- 1 In Playback mode, select a photo → F.
- 2 Select \blacksquare \rightarrow an option.
 - Select & to save the photo as a start image. (p. 108)



3 Select OK.



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

Using Smart crop

Select part of a photo to enlarge and save the photo as a new file.

- 1 In Playback mode, select a photo → ■.
- 2 Select 🖳.
- 3 Select 4 points on the touch screen to select an area.



- 4 Select **OK**.
 - The photo is saved as a new file.



The new file size will be reduced regardless the original size.

Applying photo styles

Apply a different color tone to the photo, such as Soft, Vivid, or Forest. The edited photo will be saved as a new file but it could be resized to a lower resolution.







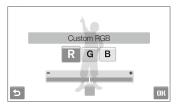
- 1 In Playback mode, select a photo → F.



3 Select **DK**.

Defining your own RGB tone

- 2 Select a color (R: Red, G: Green, B: Blue).
- 3 Adjust the amount of the color.



4 Select **OK**.

Applying smart filter effects

Apply various filter effects to your photos to create unique images. The edited photo will be saved as a new file but it could be resized to a lower resolution.





Miniature

Vignetting

No.





Fish-eye 1

Fish-eye 2

- 1 In Playback mode, select a photo → F.
- 2 Select

 → an effect.



3 Select OK.

Applying a special effect

Apply special effects to the photo, such as color filters or noise effects. The edited photo will be saved as a new file but it could be resized to a lower resolution.

- 1 In Playback mode, select a photo → F.
- 2 Select **#** → an option.



	©	Color Filter : Change background colors to black and white to make the main subject stand out.
	F 7	Elegant : Apply effects to the photo to make it brighter and softer.
		Add Noise : Add noise to the photo to give it an aged look.
	*	Face Retouch: Retouch the portrait photos and express faces more brightly and clearer.

3 Select OK.

Playback/Editing 79

Adjusting photo

Remove red-eyes or adjust brightness, contrast and saturation. The edited files are saved as new files but the size may be reduced.

Adjusting brightness/contrast/saturation

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

Removing red-eyes

- 1 In Playback mode, select a photo → F.
- 2 Select **—** → **⑤**.
- 3 Select **OK**.

Adjusting ACB (Auto Contrast Balance)

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

Creating a print order (DPOF)

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



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

- 3 Select photos to print.
 - Select
 ✓ fill to select all files.
 - Select 🖳 to cancel your selection.
- 4 Select OK.
- 5 Set DPOF options.





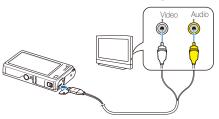
- 6 Select ∧ or ∨ to set the number of copies.
- 7 Select **OK**.



Viewing files on a TV

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

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



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

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



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

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

Itam	Doguiromento
Item	Requirements
CPU	Intel Pentium 4, 3.2 GHz or higher/ AMD Athlon™ FX 2.6 GHz or higher
RAM	Minimum 512 MB RAM (1 GB and above recommended)
OS	Windows XP SP2/Vista/7
Hard disk capacity	250 MB or more (1 GB and above recommended)
Others	CD-ROM driver nVIDIA Geforce 7600GT or higher/ATI X1600 series or higher 1024 X 768 pixels, 16-bit color display compatible monitor (1280 X 1024 pixels, 32-bit color display recommended) USB 2.0 port, Microsoft DirectX 9.0c or later



- Intelli-studio may not perform correctly on some computers, even when the computer meets the requirements.
 - If your computer does not meet the requirements, videos may not play correctly or it may take longer to edit videos.
 - Install DirectX 9.0c or above before you use the program.
 - You must use Windows 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.
 - The programs may not work properly on 64-bit Edition of Windows XP, Vista, and 7.

Transferring files using Intelli-studio

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

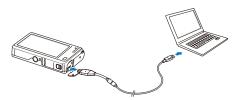


The battery will be charged while the camera is connected to a computer with the USB cable.

- 1 In Shooting or Playback mode, select **MERU** → **‡**.
- 2 Select **∨** (twice) → **PC Software** → **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 and Windows 7, 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 **Help** → **Help** in the program.



- If you install Intelli-studio on your computer, the program will launch more quickly. To install the program, select Tool → Install Intelli-studio on PC.

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



Playback/Editing 85

Icon	Description
0	Open menus
2	Display files in the selected folder
3	Change to the 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
10	View files of the selected folder on the camera
0	View files as thumbnails, in Smart Album, or on a map
1	Browse folders in the connected device
B	Browse folders in your computer
14	Move to the previous or next folder
15	Print files, view files on a map, store files in My Folder, or register faces

Transferring files by connecting the camera as a removable disk

You can connect the camera to your computer as a removable

- 1 In Shooting or Playback mode, select **MERU** → **②**.
- 2 Select **∨** (twice) → **PC Software** → **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.

- 6 On your computer, select **My computer** → **Removable** Disk → DCIM → 100PHOTO.
- 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

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



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



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

Transferring files to your computer (for Mac)

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

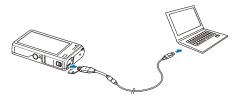


Mac OS 10.4 or later is supported.

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



You must plug the end of the cable with the indicator light ($\bf A$) 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.



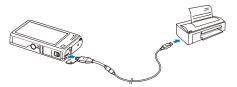
If you set the USB option to **Select Mode**, select **Computer** from the pop-up window.

- 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, select **MENU** → **♦**.
- 2 Select **∨** (twice) → **USB** → **Printer**.
- 3 Turn off the camera.
- 4 With the printer on, connect your camera to the printer with the USB cable.



- 5 Turn on your camera.
 - The printer recognizes the camera automatically.

- 6 Select to print.
 - Select to set printing options.

 See "Configuring print settings" on page 90.



7 Select an option.

Option	
Current Photo	Print the currently selected photo. Skip to step 9 .
Selected Photos	Print the photos you want.
All Photos	Print all photos. Skip to step 9.

- 8 Select **<** or **>** to scroll to a photo to print.
- 9 Select ∧ or ∨ to set the number of copies and select
 - If you chose Selected Photos, repeat steps 8 and 9 for all photos you want to print.
- 10 Select Yes to confirm.
 - Printing starts. Select Cancel to cancel printing.

Configuring print settings



	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.
ā	File Name: Set to print the name of the file.
2	Reset: Reset the print options.

Some options are not supported by some printers.

Wireless network

Learn to use several functions that use wireless local area networks (WLANs) feature.

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camera	10

Connecting to a WLAN and configuring network settings

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



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

The WLAN can be operated indoors in the EU wilthout restriction, but cannot be operated outdoors in France.

Connecting to a WLAN automatically

- 2 Select Access Point Setting.
 - The camera will search for and display available AP devices.
- 3 Select an AP device.





- If the selected AP is not secured, the camera will connect to the WLAN.
- If the selected AP device requires a password, enter the password to connect to the WLAN.

Setting network options

- 1 In Shooting or Playback mode, select (i) → Network Setting.
- 2 Select Access Point Setting.
 - The camera will search for and display available AP devices.
- 3 Select > next to the AP you want to set.
- 4 Select network options.

Option	Description
Authentication	Select a network authentication.
Data Encryption	Select an encryption type.
Network Key	Select Touch and enter the Network Key.

5 Select **DK**.

Setting IP manually

- 2 Select Access Point Setting.
 - The camera will search for and display available AP devices.
- 3 Select > next to the AP you want to connect.
- 4 Select IP Setting → Manual.
- 5 Select the boxes next to the options you will set.

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

- 6 Enter values and select **DK**.
- 7 When you are finished, select **OK**.

Network connection tips

- The quality of the network connection will be determined by the AP.
- The further the distance between your camera and the AP, the longer will take to connect to the network.
- If a nearby device is using the same radio frequency signal as your camera, it may interrupt your connection.
- If your AP name is not in English, the device may not be located or the name may appear incorrect.
- For network settings or a password, contact your network administrator or network service provider.
- If a WLAN requires authentication from the service provider, you may not be able to connect it. To connect the WLAN, contact your network service provider.
- Depending on the encryption type, the number of digits in the password may differ.
- A WLAN connection may not be possible in all surroundings.
- A WLAN-enabled printer may be shown on the AP lists. However, you cannot connect to the network via a printer.
- You cannot connect your camera to a network and a TV simultaneously. Also you cannot view photos or videos on a TV while connected to a network.
- Connecting to a network may incur additional charges. Costs will vary based on the conditions of your contract.

- You can use only free WLANs with your camera. If you use free WLANs that require the user agreement and additional information when you connect to a web browser, some features may be limited when connecting to websites or sending email.
- Available network connections may differ by country.
- The WLAN feature of your camera must comply with radio transmission laws in your region. To ensure compliance, use the WLAN feature only in the country where you purchased the camera.
- For network profiles and a password, contact your network administrator or network service provider.
- The process for adjusting network settings may differ, depending on network conditions.
- Do not access a network that you are unauthorized to use.
- When connecting to networks, ensure your battery is fully charged.
- When a DHCP server is not available you must make an autoip.
 txt file and copy it to the inserted memory card to connect to the network using Auto IP.

Storing your information

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

- 1 In Shooting or Playback mode, select (i) →
 Network Setting.
- 2 Select User Setting.
- 3 Select the name input field and enter your name.
 - For information about entering text, refer to page 97.
- 4 When you are finished, select **DK**.
- 5 Select the email input field and enter your email address.
- 6 When you are finished, select **DK**.
- 7 Select **DK** to save your information.

Storing email addresses

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

- In Shooting or Playback mode, select (;) →
 Network Setting.
- 2 Select Email Address.



Icon	Description
\searrow	Display the email addresses you used recently.
₽ *	Edit the email address.
*	Delete the email address.

^{*} The icons will appear after you store an email address.

- 3 Select

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

Setting the file size to share

Set the file size you will share with other allshare-enabled devices. You can select either the original size or ${\bf 2_M}$.

- In Shooting or Playback mode, select (i) →
 Network Setting.
- 2 Select DLNA -Image Size.
- 3 Select a size.

Setting a password

Restrict sending emails and configuring network settings by setting a password.

- In Shooting or Playback mode, select (i) →
 Network Setting.
- 2 Select **→** → **Setting Password** → **On** → **Confirm**.

- 3 Enter a password (4 digits).
- 4 Enter the password (4 digits) again.

Changing the password

Change the password if necessary.

- 1 In Shooting or Playback mode, select (;) → Network Setting.
- 2 Select **→** Change Password.
- 3 Enter the current password (4 digits).
- 4 Enter a new password (4 digits).
- 5 Enter the new password (4 digits) again.
- Ø

To reset a password, select **Reset** from the password input window. If you reset the password, your stored email addresses, recently sent email addresses, and all personal information will be deleted to protect user information.

Checking information

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

- 1 In Shooting or Playback mode, select (;) → Network Setting.
- 2 Select **→ Device Information**.

Entering text

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



Icon	Description
>	Move the cursor.
•	In ABC mode, change the cases. In 123 mode, view more symbols.
ABC	Switch to ABC mode.
Space	Enter a space.
←	Delete the last letter.
123	Switch to 123 mode.
OK	Store the displayed text.



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

Using photo or video sharing websites

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

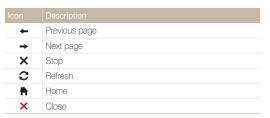
Accessing a website

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









Uploading photos or videos

- 1 Select 🏜.
- 2 Select \triangleleft or \triangleright to scroll through files.
- 3 Drag photos or videos to the selection area or select photos or videos, and select **OK**.



- Select **Date** to categorize the files. (p. 69)
- 4 Enter an album tittle, and then select .



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

Sending photos via email

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



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



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

Viewing photos or videos on the allshare devices

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

Viewing photos or videos on a TV screen

View your photos or videos on a TV that supports the allshare function.

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

You can share up to 1,000 photos or videos.

- 4 On the TV, search for the camera and browse the shared photos or videos.
 - Your camera's name is what you entered in the user setting.
 - For information about searching for the camera and browsing the photos or videos on the TV, refer to the TV user manual.
 - Videos may not play smoothly depending on type of TV or network condition. If this happens, re-record the video in 640 X 480 or 320 X 240 quality and play it again. If videos do not play smoothly on your TV over the wireless connection, connect the camera to the TV with an AV cable.



- On a TV screen, you can view only photos or videos captured with your camera.
 - The range of the wireless connection between your camera and a TV may vary depending on the specifications of the AP.
 - If the camera is connected to 2 TVs, playback may be slowed.
 - The photos will be shared according to the size you set. (p. 96) The videos will be shared in their original sizes.
 - You can use this feature only with a allshare-enabled Digital Media Players (DMPs).
 - Shared photos or videos will not be stored on the TV, but they can be stored according to the TV specifications.
 - Transferring photos or videos to the TV may take some time depending on the network connection and the file size.
 - If you power off the camera abnormally while viewing photos or videos on a TV (ex. removing battery), the TV considers the camera to still be connected.
 - The order of photos or videos on the camera and TV could be different.
 - Depending on the number of photos or videos you want to share, it may take some time to load your photos or videos and complete the initial set-up process.
 - While viewing photos or videos on the TV, continuously using the TV remote or performing additional operations on the TV may prevent this feature from working properly.
 - . If you reorder or sort files on the camera while viewing them on a TV, you must repeat the initial set-up process to update the list of files on the TV.
 - When there are no photos or videos in the camera memory, you cannot use this feature.

Viewing photos or videos on another device (renderer)

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



- When searching for allshare-enabled devices in the area, the camera may not list all available devices.
 - If you power off the device abnormally while viewing photos or videos on a device, the camera considers the device to still be connected.
 - The photos will be shared according to the size you set. (p. 96) The videos will be shared in their original sizes.
 - You can use this feature only with an allshare-enabled renderer.
 - The shared photos or videos will not be stored on the device, but some TVs may store photos or videos, depending on its memory capabilities and settings.
 - Transferring photos or videos to the device may take some time depending on the network connection and the file size.
 - You can transfer files one by one.
 - When there are no photos or videos in the camera memory, you cannot use this feature.
 - On other devices (renderer), you can view only photos or videos captured with your camera.
 - Network conditions will affect the duration of a search. If the search takes an unusually long time try reconnecting the camera to the network.

Sending or receiving photos or videos with a camera

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

Sending photos or videos to another camera

- 1 In Shooting or Playback mode, select (;) → Camera to Camera .
- 2 Select Send.
 - The camera generates a password and displays it on the screen while waiting for a connection with the receiving camera
- 3 On the receiving camera, select the name of the sending camera
 - The sending camera's name is what you entered in the user setting. (p. 95)
- 4 Enter the password (4 digits) on the receiving camera.
 - The selection area automatically appears on the sending camera.
- 5 Drag photos or videos to the selection area or select them.
 - The photos or videos will be sent to the receiving camera.

Receiving photos or videos from another camera

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



- This feature uses an ad hoc wireless network.
- If you most recently used your camera to receive files, you must end the connection and reassign your camera as sender to send files.
- The range of the wireless connection between two cameras may vary, depending on the conditions of the wireless ad-hoc network.
- If a camera turns off abnormally while sending or receiving photos or videos, the other camera considers the camera to still be connected. Cameras will be disconnected after some time.
- It may take some time to send or receive photos or videos depending on the file size and the ad hoc network connection.
- · You can transfer files one by one.
- If you fail to receive or send a photo or video, it will not be saved on the receiving camera.
- If no photos have been stored on the camera, you cannot use this feature.
- You can send and receive photos or videos taken with your camera or other camera only.
- If you select the original size in the allshare-image size setting, you can send or receive the photos without transformation. However, if you select 2m and the selected photo resolution is higher than 2m, it will be automatically resized to a lower resolution. (p. 96)
- You can send or receive videos smaller than 35 MB only.

Settings

Refer to options to configure your camera's settings.

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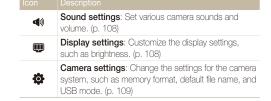
Settings menu

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

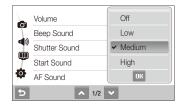
Accessing the settings menu

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





3 Select an option and save your settings.



4 Select **5** to return to the previous screen.

Sound settings

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

Display settings

	* Default
Function Description	Display a brief description of an option or menu. $(\mathbf{Off},\mathbf{On^*})$
Start Image	Set a start image to display when the camera turns on. • Off*: Display no start image. • Logo: Display a default image stored in the internal memory. • User Image: Display the image you want. (p. 76) • Only one user image will be saved in the internal memory. • If you select a new photo as a user image or reset your camera, the current image will be deleted.
Grid Line	Select a grid to help you compose a scene. (2 X 2*, 3 X 3, +, X)

* Default Item Description Adjust the brightness of the screen. (Auto*, Dark, Normal, Bright) Normal is fixed in Playback mode even if Auto is selected. Set the duration for reviewing a captured image before returning to Shooting mode. (Off, 0.5 sec*, 1 sec, 3 sec) If you perform no operations for 30 seconds, the camera automatically switches to Power save mode (press any button to deactivate Power save mode).

(Off*, On)

Camera settings

	* Default
Format	Format the internal memory and the memory card (all files-including the protected files-will be deleted). (No, Yes) 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 in your camera before using it.
Reset	Reset menus and shooting options (date and time, language, and video output settings will not be reset). (No, Yes)
Language	Select a language for the display text.
Time Zone	Select a region and set the daylight-saving time (DST).
Date/Time Set	Set the date and time.
Date Type	Select a date format (YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY, Off*)

	* Default
Item	Description
File No.	Specify how to name files. Reset: Set the file number to start from 0001 when inserting a new memory card, formatting a memory card, or deleting all files. Series*: Set the file number to follow the previous file number when inserting a new memory card, formatting a memory card, or deleting all files. The default name of the first folder is 100PHOTO and the default name of the first file is SAM_0001. The file number increases one by one from SAM_0001 to SAM_9999. The folder number increases one by one from 100PHOTO to 999PHOTO. The maximum number of files that can be stored in one folder is 9,999. The camera defines file names according to the Digital rule for Camera File system (DCF) standard, if you change the names of files intentionally, the camera may not play back the files.

	* Default	
Imprint	Set whether to display the date and time on your photos when printing. (Off*, Date, Date & Time) • The date and time will be displayed on the bottomright comer of the photo in yellow. • The date and time may not be printed on some printer models. • If you select E Text in SIENE mode, the date and time will not be displayed.	
Auto Power Off	Set the camera to automatically turn off when you are not using it. (Off, 1 min, 3 min*, 5 min, 10 min) • Your settings will not change after replacing the battery. • The camera will not automatically turn off when: - it is connected to a computer or printer - you are playing a slide show or videos - you are recording a voice memo	
AF Lamp	Set an assistant light to help you focus in dark places. (Off, \textsc{On}^*)	

ŧ	Def:	th re

	Doladit	
Item		
Video Out	Set the video signal output according to your region. NTSC*: USA, Canada, Japan, Korea, Taiwan, Mexico PAL (supports only BDGHI): Australia, Austria, Belgium, China, Denmark, England, Finland, Germany, Italy, Kuwait, Malaysia, Netherlands, New Zealand, Norway, Singapore, Spain, Sweden, Switzerland, Thailand	
USB	Set the function to use via a USB connection with a computer or printer. • Computer*: Connect your camera to a computer for transferring files. • Printer: Connect your camera to a printer for printing files. • Select Mode: Select a USB mode when you connect your camera to another device.	
PC Software	PC Software Set Intelli-studio to start automatically when you connect your camera to your computer. (Off, On*)	
Touch Calibration	Calibrate the screen so that your camera will properly recognize the input.	

Appendixes

Refer to error messages, specifications, and maintenance tips.

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Error messages

When the following error messages appear, try these remedies.

Error message	Suggested remedies
Card Error	Turn off your camera and then turn it on again. Remove your memory card and insert it again. Format your memory card.
Card not supported.	The inserted memory card is not available with your camera. Insert a microSD™ or microSDHC™ memory card.
Connection failed.	The camera cannot connect to the network using the selected access point. Select another and try again. The camera fails to connect to the other camera. Try connecting again.
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. 109)
Device disconnected.	Connect to a device again.
File Error	Delete the damaged file or contact a service center.
Initialization failed.	Turn on allshare enabled devices on the network. The camera fails to locate an allshare-enabled device.

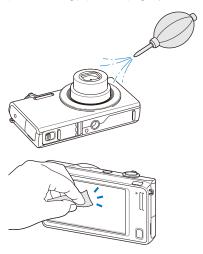
Error message	
Invalid password.	The password for transferring files to another camera is wrong. Enter the correct password again.
Low Battery	Insert a charged battery or recharge the battery.
Memory Full	Delete unnecessary files or insert a new memory card.
No Image File	Take photos or insert a memory card that has some photos.
Photo reception failed.	The camera fails to receive a photo from the sending camera. Ask the other person to send the file again.
Transfer failed.	The camera fails to send a photo. Try sending again. The camera fails emailing or sending to an allshare-enabled device. Ensure the network is available and try connecting agian.

Camera maintenance

Cleaning your camera

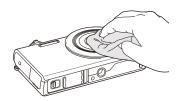
Camera lens and touch screen

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



Camera body

Wipe gently with a soft, dry cloth.





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

About memory cards

Memory cards you can use

You can use microSDTM (Secure Digital) or microSDHCTM (Secure Digital High Capacity) memory cards.

Memory card capacity

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

	Size	Super Fine	Fine	Normal	60 FPS	30 FPS	15 FPS
	ΙЧм	122	240	353	-	-	-
	154	142	278	409	-	-	-
	[IZM	137	267	391	-	-	-
P h	Шм	163	320	471	-	-	-
o t	Вм	211	409	594	-	-	-
0 S	Sm	335	637	908	-	-	-
	Эм	510	936	1,314	-	-	-
	ZM	762	1,373	1,931	-	-	-
	lм	1,626	2,574	3,089	-	-	-
	1280 1280	-	-	-	-	Approx. 13' 30"	Approx. 23' 36"
* V i	1580	-	-	-	-	Approx. 15' 20"	Approx. 29' 42"
i d e	640	-	-	-	-	Approx. 35' 54"	Approx. 67' 30"
0 S	320	-	-	-	Approx. 78' 07"	Approx. 138' 19"	Approx. 237' 41"
	320 320	-	-	-	-	Approx. 30"	-

^{*} 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

Model	BP-70A
Туре	Lithium-ion battery
Cell capacity	740 mAh (Minimum: 700 mAh)
Voltage	3.7 V
Charging time (when the camera is switched off)	Approx. 150 min

^{*} Charging the battery by attaching the USB cable to a PC and your camera may take longer.

Battery life

Average time / Number of photos		Test conditions (when the battery is fully charged)
Photos		This is measured under the following conditions: in node, 14M resolution and Normal quality.
	Approx. 100 min/ Approx. 200 photos	Set the flash option to Fill in , take a single shot, and zoom in or out.
		Set the flash option to Off , take a single shot, and zoom in or out.
		Perform steps 1 and 2 for 30 seconds and repeat for 5 minutes. Then turn off the camera for 1 minute.
		4. Repeat steps 1 to 3.
Videos	Approx. 80 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.
- When using network functions, the battery will be depleted more quickly.

Notes about charging the battery

- If the indicator light is off, make sure that the battery is inserted correctly.
- Do not use your camera when charging. Turn off the camera before charging the battery.
- Turn on your camera after charging the battery for more than 10 minutes.
- Using the flash or recording videos depletes the battery quickly. Charge the battery until the indicator light turns green.
- If the indicator light blinks in orange or does not illuminate, reconnect the cable, or remove the battery and insert it again.
- If you charge the battery when the cable is overheated or the temperature is too high, the indicator light may turn orange. Charging will start when the battery cools down.
- Do not pull a power supply cord to disconnect the plug from the power outlet. This may cause a fire or electric shock.
- Do not bend or place heavy objects on the AC cable. Doing so may damage the cable.

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 place the battery near heating devices or expose to excessively warm environments, such as the inside of an enclosed car in the summertime.
- Do not place the battery in a microwave oven.
- · Avoid storing or using the battery in hot, humid places, such as spas or shower enclosures.
- Do not rest the device on flammable surfaces, such as bedding, carpets, or electric blankets for a prolonged
- 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
- · Avoid exposing the battery to major impacts, such as dropping it from high places.
- Do not expose the battery to temperatures of 60° C (140° F) or above.
- Do not allow the battery to come in contact with moisture or liquids.
- Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

Disposal guidelines

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

Guidelines for charging the battery

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

Before contacting a service center

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



When you leave your camera at a service center, be sure to also leave the other components that may have contributed to the malfunction, such as the memory card and battery.

Situation	Suggested remedies
Cannot turn on the camera	Make sure that the battery is inserted. Make sure that the battery is inserted correctly. Charge the battery.
The power turns off suddenly	Charge the battery. Your camera may be in Power save mode. (p. 109) The camera may turn off to prevent the memory card from being damaged due to an impact. Turn on your camera again.
The camera is losing battery power quickly	The battery may lose power more quickly in low temperatures (below 0° C). Keep the battery warm by putting it into your pocket. Using the flash or recording videos depletes the battery quickly. Recharge if needed. Batteries are consumable parts that must be replaced over time. Get a new battery if the battery life is diminishing quickly.

Situation	Suggested remedies
Cannot take photos	There is no space on the memory card. Delete unnecessary files or insert a new card. Format the memory card. (p. 109) The memory card is defective. Get a new memory card. Make sure that the camera is switched on. Charge the battery. Make sure that the battery is inserted correctly.
The camera freezes	Remove the battery and insert it again.
The camera heats up	While using the camera, it may heat up. This is normal and should not affect your camera's lifespan or performance.
The flash does not work	The flash option may be set to Off. (p. 45) You cannot use the flash in M, P, P, or some STEFF modes.
The flash fires unexpectedly	The flash may fire due to static electricity. This is not a malfunction of the camera.

Situation			
The date and time are incorrect	Set the date and time in the display settings menu. (p. 108)		
The touch screen or buttons do not work	Remove the battery and insert it again.		
The camera screen works poorly	If you use your camera at very low temperatures, it may cause the camera screen to malfunction or discolor. For better performance of your camera screen, use your camera in moderate temperatures.		
The memory card has an error	Turn off your camera and then turn it on again. Remove your memory card and insert it again. Format your meory card. See "Protect batteries, chargers, and memory cards from damage" for more detail. (p. 2)		
Cannot play back files	If you change the name of a file, your camera may not play the file (the name of the file should meet the DCF standard). If you encounter this situation, play back files on your computer.		

Situation	Suggested remedies	
The photo is blurry	Make sure that the focus option you set is suitable for close-up shots. (p. 47) Make sure that the lens is clean. If not, clean the lens. (p. 114) Make sure that the subject is within range of the flash. (p. 122)	
The colors in the photo do not match the actual scene	An incorrect white balance can create unrealistic color. Select the proper white balance option to suit the light source. (p. 57)	
The photo is too bright	Turn off the flash. (p. 45) Your photo is overexposed. Adjust the exposure value. (p. 54)	
The photo is too dark	Your photo is underexposed. Turn on the flash. (p. 45) Adjust the ISO speed. (p. 46) Adjust the exposure value. (p. 54)	
The TV does not display your photos	Make sure that the camera is correctly connected to the external monitor with the AV cable. Make sure that your memory card contains photos.	

Situation			
Your computer does not recognize your camera	Make sure that the USB cable is connected correctly. Make sure that your camera is switched on. Make sure that you are using a supported operating system.		
Your computer disconnects the camera while transferring files	The file transmission may be interrupted by static electricity. Disconnect the USB cable and connect it again.		
Your computer cannot play videos	Depending on the video player programs, video files may not play. To play video files captured with your camera, install and use the Intelli-studio program on your computer. (p. 85)		
Intelli-studio is not functioning properly	End Intelli-studio and restart the program. You cannot use Intelli-studio on Macintosh computers. Make sure that the PC Software is set to On in the settings menu. (p. 111) Depending on your computer's specification and environments, the program may not launch automatically. In this case, click Start → My Computer → Intelli-studio → iStudio.exe on your computer.		

Camera specifications

Image sensor					
Туре	1/2.3" (Approx. 7.76 mm) CCD				
Effective pixels	Approx. 14.2 m	nega-pixels			
Total pixels	Approx. 14.5 m	nega-pixels			
Lens					
Focal length	0	Samsung lens f = 6.3 - 18.9 mm (35 mm film equivalent: 35 - 105 mm)			
F-stop range	F3.0 (W) - F5.6	i (T)			
Digital zoom	Still image mod	Still image mode: 1.0X - 3.0X			
Display					
Туре	WQVGA LCD				
Feature	3.0" Wide Full Touch Screen Panel				
Focusing					
Туре	TTL auto focus (Multi AF, Center AF, Face Recognition AF, Face Detection AF, Smart Touch AF, One Touch Shooting)				
		Wide (W)	Tele (T)		
_	Normal	80 cm - infinity	80 cm - infinity		
Range	Macro	10 cm - 80 cm	50 cm - 80 cm		
	Auto Macro 10 cm - infinity 50 cm - infinity				

 Auto: 1/8 - 1/1,5 Program: 1 - 1/1 Night: 8 - 1/1,50 Fireworks: 2 sec 	1,500 sec. 00 sec.		
Exposure			
Control	Program AE		
Metering	Multi, Spot, Center-weighted		
Compensation	±2EV (1/3EV steps)		
ISO equivalent	Auto, 80, 100, 200, 400, 800, 1600, 3200		
Flash			
Mode	Off, Auto, Red-eye, Fill in, Slow Sync, Red-eye Fix		
Range	 Wide: 0.4 m - 3.6 m (ISO Auto) Tele: 0.5 m - 1.9 m (ISO Auto) 		
Recharging time	Approx. 4 sec.		
Shake reduction			
Digital Image Stabili	ization (DIS)		

Shutter speed

Camera specifications

Effect			Modes: Smart Scene Detection (Landscape, Blue Sky, Natural Green, Sunset Sky), Movie	
Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB Shooting mode Smart Filter: Normal, Miniature, Vignetting, Fish-eye 1, Fish-eye 2, Sketch, Defog Image Adjust: Sharpness, Contrast, Saturation White Balance Auto WB, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom Set Date Imprinting		Videos	Format: MP4 (H.264) (Max recording time: 20 min) Size: 1280 X 720 HQ (30 FPS, 15 FPS), 1280 X 720 (30 FPS, 15 FPS), 640 X 480 (30 FPS 15 FPS), 320 X 240 (60 FPS, 30 FPS, 15 FPS), 320 X 240 For Sharing (30 FPS) Frame Rate: 60 FPS, 30 FPS, 15 FPS Effect: Photo Style Selector , White Balance, Smart Filter Voice: Off, On, Zoom Mute Video editing (embedded): Pause during recording, Still image capture. Time trimming	
Date & Time, Date, Off				
Shooting		Playback		
 Modes: Smart Auto (Portrait, Night Portrait, Backlight Portrait, Backlight, Landscape, White, Action, Tripod, Night, Macro, Macro Text, Blue Sky, Sunset Sky, Natural Green, Macro Portrait, 		Туре	Single image, Thumbnails, Multi slide show with music and effects, Movie clip, Smart Album* * Smart Album category: Type, Date, Color, Week, Face, Favorite	
Photos	Macro Color, Fireworks), Auto, Program, Scene (Night, Portrait, Children, Landscape, Text, Close Up, Sunset, Dawn, Backlight, Fireworks,	Edit	Resize, Rotate, Smart Crop, Photo Style Selector, Image Adjust, Smart Filter, Special Effect, Trim	
Beach & Snow, Frame Guide, Beauty Shot) • Drive: Single, Continuous, Motion Capture, AEB				

Timer: 10 Sec, 2 Sec, Double, Motion Timer

Camera specifications

	Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB		For 1GB micro		
Effect	Image Adjust: ACB, Brightness, Contrast,		ΙЧм	4320 X	
	Saturation, Red-eye Fix Smart Filter: Normal, Miniature, Vignetting,		15#	4000 X	
	Fish-eye 1, Fish-eye 2, Sketch, Defog		(12m	4320 X	
	Special Effect: Color Filter, Elegant, Add Noise, Face Retouch		<u></u>	4320 X	
Voice recording		Image size	Вм	3264 X 2560 X	
Voice Recording	(May 10 hours)		Sn 3n	2048 X	
~	a photo (Max. 10 sec.)		2M	1920 X	
Storage			In.	1024 X	
·	Internal memory: Approx. 22 MB External memory (Optional): microSD™ card (up to 2 GB quaranteed), microSDHC™ card The control of the control		These	e figures ard cond ing cond	
Media	(up to 8 GB guaranteed)	Wireless network			
	Internal memory capacity may not match these specifications.	Wi-Fi (IEEE 802.11	Wi-Fi (IEEE 802.11 b/g), allshare		
File format	DCF, EXIF 2.21, DPOF 1.1, PictBridge 1.0 Still Image: JPEG (DCF) Movie Clip: MP4 (Video: MPEG4.AVC/H.264, Audio: AAC) Audio file: WAV				

		Super Fine	Fine	Norma
ΙЧм	4320 X 3240	122	240	353
15×	4000 X 3000	142	278	409
154	4320 X 2880	137	267	391
Шм	4320 X 2432	163	320	471
Өм	3264 X 2448	211	409	594
Sm	2560 X 1920	335	637	908
Эм	2048 X 1536	510	936	1,314
2н	1920 X 1080	762	1,373	1,931
lи	1024 X 768	1,626	2,574	3,089
	e figures are me ard conditions			0

Interface	
interrace	
Digital output connector	USB 2.0
Audio output	Mono (Internal speaker), Mono (Microphone)
Video output	AV: NTSC, PAL (selectable)
DC power input connector	20 pin, 4.2V
Power source	
Rechargeable battery	Lithium-ion battery (BP-70A, 740 mAh)

The power source may differ depending on your region.

Dimensions (W x H x D)

92 x 55.4 x 18.5 mm

Weight

108 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.

FCC notice



FCC ID:A3LSH100

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution:

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception. which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorientate, or relocate, the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

RF exposure statements:

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

Declaration of Conformity

Trade Name : Samsung Electronics America, Inc.

Model No. : Samsung SH100

Responsible Party : Samsung Electronics America, Inc.

Address : 105 Challenger Road, Ridgefield Park,

NJ 07660

: 1-800-SAMSUNG (726-7864) Telephone No. This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including

interference that may cause undesired operation.



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.



PlanetFirst represents Samsung Electronics' commitment to the sustainable development and social responsibility through eco-driven business and management activities.



Correct disposal of batteries in this product

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

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

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

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

CAUTION

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

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Operation is subject to the following two conditions:

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

Caution

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

IC: 649E-SH100

Complies with IDA Standards DA100790 Numéro d'agrément: MR5667 ANRT 2010 Date d'agrément: 30/06/2010

Approved by PTA, year 2010







NO-L-14041/01/2010/ETA/2010



Declaration of Conformity

Product details

For the following

Product: DIGITAL CAMERA Model(s): SAMSUNG SH100

Manufactured at:

Manufacturer: SAMSUNG ELECTRONICS CO., LTD.

416, Maetan-3dong, Yeongtong-gu, Suwon-City,

Gyeonggi-do, 443-742, Korea

Factory: TianJin Samsung Opto-Electronics Co., Ltd.

No.9 ZhangHeng Street, Micro-Electronic Industrial Park,

JinGang Road, Tianjin, China. 300385

(Factories name and address)

EN 55022:2006 EN 301 489-1 v1.8.1:2008 EN 300 328-1 v1.7.1 EN 301 489-17 v2.1.1:2009

and the Eco-Design Directive (2009/125/EC) implemented by Regulation (EC) No 278/2009 for external power supplies

Representative in the EU

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

May 31, 2010 (Place and date of issue) D. C. palez

Yong Sang Park / S. Manager (Name and signature of authorized person)

Declaration & Applicable standards

We hereby declare, that the product above is in compliance with the essential requirements of the R&TTE Directive (1999/5/ EC), the EMC Directive (2004/108/EC) and the LVD Directive (2006/95/EC) by application of:

EN 60950-1:2006 EN 55024:1998+A1:2001+A2:2003

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