

Wireless network

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

Connecting to a WLAN and configuring network settings	92
Connecting to a WLAN automatically	92
Setting network options	93
Setting IP manually	93
Network connection tips	94
Storing your information	95
Storing email addresses	95
Setting the file size to share	96
Setting a password	96
Changing the password	96
Checking information	97
Entering text	97
Using photo or video sharing websites ...	98
Accessing a website	98
Uploading photos or videos	99
Sending photos via email	100
Viewing photos or videos on the allshare devices	101
Viewing photos or videos on a TV screen ...	101
Viewing photos or videos on another device (renderer)	102
Sending or receiving photos or videos with a camera	104
Sending photos or videos to another camera	104
Receiving photos or videos from another camera	104

Connecting to a WLAN and configuring network settings

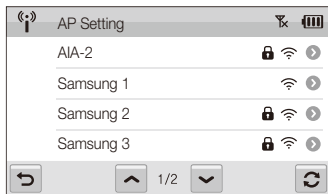
Learn to connect via an access point (AP) when you are in a range of a WLAN. You can also configure network settings and learn how to enter text.



This camera uses non-harmonized frequencies and is intended for use in all European countries.
The WLAN can be operated indoors in the EU without restriction, but cannot be operated outdoors in France.

Connecting to a WLAN automatically

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



Icon	Description
	Secured AP
	Ad hoc AP
	Signal strength
	Signal is found.
	No signal is found.

- 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  →  **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 **OK**.

Setting IP manually

- 1 In Shooting or Playback mode, select  →  **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 connect.
- 4 Select **IP Setting** → **Manual**.
- 5 Select the boxes next to the options you will set.

Option	Description
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 **OK**.
- 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

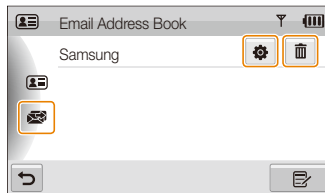
Store your name and email address to send emails or to find your camera on another device.

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

Storing email addresses

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

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



Icon	Description
	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 **OK**.

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 .

- 1 In Shooting or Playback mode, select  →  **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.

- 1 In Shooting or Playback mode, select  →  **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.



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.

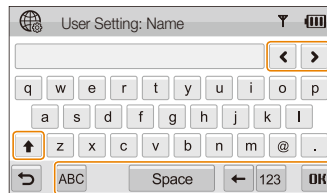
Checking information

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** .



You must create your account on web in advance.

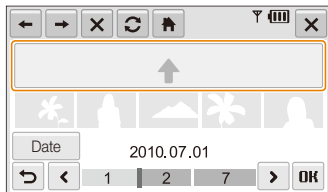
Icons on a website



Icon	Description
	Previous page
	Next page
	Stop
	Refresh
	Home
	Close

Uploading photos or videos

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



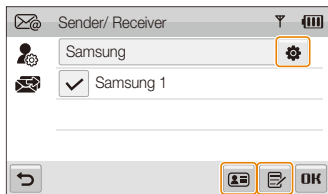
- Select **Date** to categorize the files. (p. 69)
- 4 Enter an album title, and then select .



- 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 .
- Titles for photos or videos you are uploading could be the date they are captured.
- 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  →  **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.



Icon	Description
	Enter or modify the email address of the sender.
	Retrieve the stored email addresses.
	Enter an email address manually.

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



- When the total size of all photos selected is smaller than 10 MB, you can send them via email (up to 20 photos).
- You can enter up to 10 recipients for each email.
- You may not be able to send an email due 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. (p. 95)
- 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 A/V 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 time.

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  →  **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.

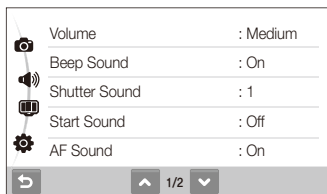
Settings menu	107
Accessing the settings menu	107
Sound settings	108
Display settings	108
Camera settings	109

Settings menu

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

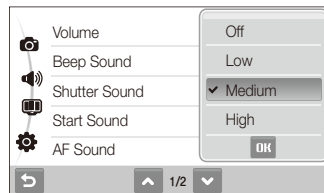
Accessing the settings menu

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



Icon	Description
	Sound settings: Set various camera sounds and volume. (p. 108)
	Display settings: Customize the display settings, such as brightness. (p. 108)
	Camera settings: Change the settings for the camera system, such as memory format, default file name, and USB mode. (p. 109)

- 3 Select an option and save your settings.



- 4 Select  to return to the previous screen.

Sound settings

* Default

Item	Description
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

Item	Description
Function Description	Display a brief description of an option or menu. (Off , On*)
Start Image	Set a start image to display when the camera turns on. • Off*: Display no start image. • Logo: Display a default image stored in the internal memory. • User Image : Display the image you want. (p. 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
Display Brightness	Adjust the brightness of the screen. (Auto*, Dark, Normal, Bright)  Normal is fixed in Playback mode even if Auto is selected.
Quick View	Set the duration for reviewing a captured image 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 Power save mode). (Off*, On)

Camera settings

* Default

Item	Description
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

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

* Default

Item	Description
Video Out	Set the video signal output according to your region. • NTSC*: USA, Canada, Japan, Korea, Taiwan, Mexico • PAL (supports only BDGHI): Australia, Austria, Belgium, China, Denmark, 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	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.

Error messages	113
Camera maintenance	114
Cleaning your camera	114
About memory cards	115
About the battery	116
Before contacting a service center	119
Camera specifications	122
FCC notice	126
Index	130

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.

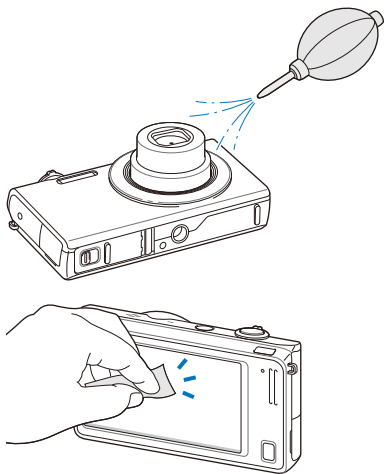
Error message	Suggested remedies
Invalid password.	The password for transferring files to another camera is wrong. Enter the correct password again.
Low Battery	Insert a charged battery or recharge the battery.
Memory Full	Delete unnecessary files or insert a new memory card.
No Image File	Take photos 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 again.

Camera maintenance

Cleaning your camera

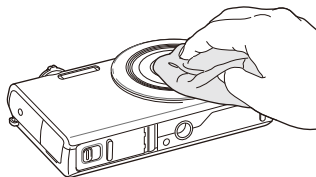
Camera lens and touch screen

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



Camera body

Wipe gently with a soft, dry cloth.



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

About memory cards

Memory cards you can use

You can use microSD™ (Secure Digital) or microSDHC™ (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
P h o t o s		122	240	353	-	-	-
		142	278	409	-	-	-
		137	267	391	-	-	-
		163	320	471	-	-	-
		211	409	594	-	-	-
		335	637	908	-	-	-
		510	936	1,314	-	-	-
		762	1,373	1,931	-	-	-
		1,626	2,574	3,089	-	-	-
* V i d e o s		-	-	-	-	Approx. 13' 30"	Approx. 23' 36"
		-	-	-	-	Approx. 15' 20"	Approx. 29' 42"
		-	-	-	-	Approx. 35' 54"	Approx. 67' 30"
		-	-	-	Approx. 78' 07"	Approx. 138' 19"	Approx. 237' 41"
		-	-	-	-	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
Type	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	Approx. 100 min/ Approx. 200 photos	This is measured under the following conditions: in On mode, 14M resolution and Normal quality. 1. Set the flash option to Fill in, take a single shot, and zoom in or out. 2. Set the flash option to Off, take a single shot, and zoom in or out. 3. Perform steps 1 and 2 for 30 seconds and repeat for 5 minutes. Then turn off the camera for 1 minute. 4. Repeat steps 1 to 3.
Videos	Approx. 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-recommended battery chargers and adapters and charge the battery only by the method described in this user manual.
- Do not place the battery near heating devices or expose to excessively warm environments, such as the inside of an enclosed car in the summertime.
- Do not place the battery in a microwave oven.
- Avoid storing or using the battery in hot, humid places, such as spas or shower enclosures.
- Do not rest the device on flammable surfaces, such as bedding, carpets, or electric blankets for a prolonged period.
- When the device is switched on, do not leave it in any confined space for a prolonged period.
- Do not allow battery terminals to come in contact with metallic objects, such as necklaces, coins, keys, or watches.
- Use only authentic, manufacturer-recommended, Lithium-ion replacement batteries.

- Do not disassemble or puncture the battery with any sharp object.
- Avoid exposing the battery to high pressure or crushing forces.
- Avoid exposing the battery to major impacts, such as dropping it from high places.
- Do not expose the battery to temperatures of 60° C (140° F) or above.
- Do not allow the battery to come in contact with moisture or liquids.
- 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  SELFIE,  STAR, or some SCENE modes.
The flash fires unexpectedly	The flash may fire due to static electricity. This is not a malfunction of the camera.

Situation	Suggested remedies
The date and time are incorrect	Set the date and time in the display settings menu. (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 memory 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 A/V cable. • Make sure that your memory card contains photos.

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

Shutter speed	
- Auto: 1/8 - 1/1,500 sec. - Program: 1 - 1/1,500 sec. - Night: 8 - 1/1,500 sec. - Fireworks: 2 sec.	
Exposure	
Control	Program AE
Metering	Multi, Spot, Center-weighted
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 Stabilization (DIS)	

Effect	
Shooting mode	• Photo Style Selector : Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB • 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	
Date & Time, Date, Off	
Shooting	
Photos	• 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, Macro Color, Fireworks), Auto, Program, Scene (Night, Portrait, Children, Landscape, Text, Close Up, Sunset, Dawn, Backlight, Fireworks, Beach & Snow, Frame Guide, Beauty Shot) • Drive: Single, Continuous, Motion Capture, AEB • Timer: 10 Sec, 2 Sec, Double, Motion Timer

Videos	• Modes: Smart Scene Detection (Landscape, Blue Sky, Natural Green, Sunset Sky), Movie • 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
Playback	
Type	Single image, Thumbnails, Multi slide show with music and effects, Movie clip, Smart Album* * Smart Album category: Type, Date, Color, Week, Face, Favorite
Edit	Resize, Rotate, Smart Crop, Photo Style Selector , Image Adjust, Smart Filter, Special Effect, Trim

Effect	• Photo Style Selector : Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB • Image Adjust: ACB, Brightness, Contrast, Saturation, Red-eye Fix • Smart Filter: Normal, Miniature, Vignetting, Fish-eye 1, Fish-eye 2, Sketch, Defog • Special Effect: Color Filter, Elegant, Add Noise, Face Retouch
Voice recording	
• Voice Recording (Max. 10 hours) • Voice Memo in a photo (Max. 10 sec.)	
Storage	
Media	• Internal memory: Approx. 22 MB • External memory (Optional): microSD™ card (up to 2 GB guaranteed), microSDHC™ card (up to 8 GB guaranteed) Internal memory capacity may not match these specifications.
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

Image size

For 1GB microSD™				
		Super Fine	Fine	Normal
	4320 X 3240	122	240	353
	4000 X 3000	142	278	409
	4320 X 2880	137	267	391
	4320 X 2432	163	320	471
	3264 X 2448	211	409	594
	2560 X 1920	335	637	908
	2048 X 1536	510	936	1,314
	1920 X 1080	762	1,373	1,931
	1024 X 768	1,626	2,574	3,089

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

Wireless network

Wi-Fi (IEEE 802.11 b/g), allshare

Interface

Digital output connector	USB 2.0
Audio output	Mono (Internal speaker), Mono (Microphone)
Video output	A/V: 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 ID: A3LSH100B

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.

NOTE:

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
Telephone No.	: 1-800-SAMSUNG (726-7864)

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

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with IC RF exposure compliance requirement, please avoid direct contact to the transmitting antenna during transmitting. The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. End users must follow this specific operating instruction for satisfying RF exposure compliance.

Complies with
IDA Standards
DA100790

Numéro d'agrément:
MR5667 ANRT 2010
Date d'agrément:
30/06/2010

Approved by PTA,
year 2010



NTC

Type Approved
No.: ESD-1004674C



TA-2010/849
APPROVED

NO-L-14041/01/2010/ETA/2010
692/2010/WRLO



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)

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

Index

A

ACB

- in Playback mode 80
- in Shooting mode 55

Adjusting

- Brightness 80
- Contrast
 - in Playback mode 80
 - in Shooting mode 63
- Saturation
 - in Playback mode 80
 - in Shooting mode 63
- Sharpness 62

AF Lamp 110

AF Sound 108

Allshare 101

Aperture 34

Auto Contrast Balance (ACB) 55

Auto mode 25

B

Battery

- Charging 117
- Life 116
- Specifications 116

Beauty Shot mode 33

Blink detection 52

Burst

- Auto Exposure Bracket (AEB) 59
- Continuous 59
- Motion capture 59

C

Camera shake 28

Capturing an image 74

Cleaning

- Body 114
- Display 114
- Lens 114

D

Date and time 109

Deleting files 71

Digital Image Stabilization (DIS) 27

Digital zoom 26

Disconnecting the device 87

Display brightness 109

Display type 24

DPOF 80

Dragging 21

E

Editing 76

Email

- Address 95
- Sending photo 100

Enlarging 72

Entering text 97

Error messages 113

Exposure 54

F

Face detection

- Blink detection 52
- Face detection 50
- Self-portrait 51
- Smart face recognition 52
- Smile shot 51

Facial brightness 33

Facial imperfections 33

Flash

- Auto 45
- Fill in 46
- Off 45
- Red-eye 46
- Red-eye fix 46
- Slow sync 46

Focus area

- Center AF 49
- Multi AF 49
- One touch shooting 49
- Smart Touch AF 49

Focus distance

- Auto macro 47
- Macro 47

Format 109**Frame guide 34****Frame rate 36****Function description 108****G****Grid line 24, 108****H****Half-pressing 7****I****Icons 20****Imprint 110****Intelli-studio 85****ISO speed 46****L****Light source
(White balance) 57****Long time shutter 34****M****Macro 47****Maintenance 114****Memory card**

- Capacity 115
- microSD 115

Metering

- Center 56
- Multi 56
- Spot 56

Motion recognition

- in Playback mode 66
- in Shooting mode 23

Motion timer 44**Movie mode 36****Muting**

- Video 36

My Star

- Ranking 68
- Registering faces 53

N**Normal (AF) 47****O****One touch shooting 49****P****Photo quality 42****Photo styles**

- in Playback mode 77
- in Shooting mode 60

Playback button 18**Playback mode 65****Printing photos 89****Print order 80****Program mode 35****Protecting files 71****Q****Quick View 109****R****Recording**

- Video 36
- Voice memo 39

Red-eye

- in Playback mode 80
- in Shooting mode 45

Reset 109**Resizing 76**

Resolution

- Photo 41
- Video 42

RGB tone

- in Playback mode 78
- in Shooting mode 60

Rotating 76**S****Scene mode 32****Self-portrait 51****Service center 119****Settings**

- Accessing 107
- Camera 109
- Display 108
- Sound 108

Shooting mode

- Auto 25
- Movie 36
- Program 35
- Scene 32
- Smart Auto 31

Shutter speed 34**Slide show 72****Smart Album 69****Smart Auto mode 31****Smart crop 77****Smart face recognition 52****Smart filter effect**

- in Playback mode 78
- in Shooting mode 61

Smart Scene**Detection mode 37****Smart Touch AF 48****Smile shot 51****Special effects**

- Add noise 79
- Color filter 79
- Elegant 79

Start image 108**T****Timer 43****Touch Calibration 19, 111****Touching 21****Transferring files**

- for Mac 88
- for Windows 83

V**Video**

- Playing 73
- Recording 36

Video Out 111**Viewing files**

- as thumbnails 70
- on TV 82
- Slide show 72
- Smart album 69

Voice memo

- Playing 74
- Recording 39

Volume 108**W****Website**

- Accessing 98
- Uploading photo 99

White balance 57**WLAN 92****Z****Zooming 26**



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

CE0678!