




Selecting a bracketing option

- 1 In Shooting mode, press **[MENU]**.
- 2 Select  → **Bracket**.
- 3 Select a bracketing option.

Icon	Description
	WB BKT: Capture 3 photos with different white balance.
	AE BKT: Capture 3 photos with selected exposures.

- 4 Adjust the color for the selected light source (white balance) or select an exposure value.
- 5 Press **[OK]** to save your settings.

Applying effects/Adjusting images

Applying Smart Filter effects PASM

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



Miniature





Vignetting















Fish-eye





Sketch









- 1 In Shooting mode, press **[MENU]**.
- 2 Select  or  → **Smart Filter**.
- 3 Select an effect.





Available filters in Program, Aperture Priority, Shutter Priority, and Manual modes

Icon	Description
	Normal: No effect
	Miniature: Apply a tilt-shift effect to make the subject appear in miniature.
	Vignetting: Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.
	Soft Focus: Hide facial imperfections or apply dreamy effects.
	Old Film: Apply a vintage film effect.
	Half Tone Dot: Apply a halftone effect.
	Sketch: Apply a pen sketch effect.
	Fish-eye: Distort close objects to imitate the visual effect of a fisheye lens.
	Classic: Apply a black and white effect.
	Retro: Apply a sepia tone effect.
	Oil Painting: Apply an oil painting effect.
	Cartoon: Apply a cartoon painting effect.

Icon	Description
	Ink Painting: Apply a watercolor painting effect.
	Cross Filter: Add lines that radiate outward from bright objects to imitate the visual effect of a cross filter.

Available filters in Movie mode

Icon	Description
	Normal: No effect
	Palette Effect 1: Create a vivid look with sharp contrast and strong color.
	Palette Effect 2: Make scenes clean and clear.
	Palette Effect 3: Apply a soft brown tone.
	Palette Effect 4: Create a cold and monotone effect.
	Miniature: Apply a tilt-shift effect to make the subject appear in miniature.
	Vignetting: Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.
	Half Tone Dot: Apply a halftone effect.


Icon	Description
	Sketch: Apply a pen sketch effect.
	Fish-eye: Distort close objects to imitate the visual effect of a fisheye lens.
	Classic: Apply a black and white effect.
	Retro: Apply a sepia tone effect.

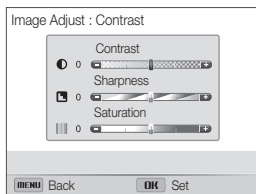


- If you select **Miniature** when recording a video, the miniature recording time is displayed with the **Miniature** icon and is shorter than the real recording time.
- If you select **Miniature** when recording a video, you cannot record the video sound or capture still images while recording a video.
- If you select **Miniature**, **Vignetting**, **Half Tone Dot**, **Sketch**, or **Fish-eye** while recording a video, the recording speed will be set to **1/5** and the recording resolution will be set to **VGA**.
- If you select **Sketch**, **Oil Painting**, **Cartoon**, **Ink Painting**, or **Cross Filter** when capturing a photo, the photo size will automatically change to **5M** and below.
- If you set Smart Filter effects, you cannot set Smart Zoom, Face Recognition options, Image Adjustment options, Burst options, Tracking AF, or Selection AF.

Adjusting your photos P A S M

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

- 1 In Shooting mode, press **[MENU]**.
- 2 Select  → **Image Adjust**.
- 3 Select an option.
 - Contrast
 - Sharpness
 - Saturation



- 4 Rotate the navigation button or press **[⚡/☺]** to adjust each value.

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

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

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

- 5 Press **[OK]** to save your settings.



- Select 0 if you do not want to apply any effects (suitable for printing).
- If you set adjustment functions, you cannot use Smart Filter options and Face Detection options.

Playback/Editing

Learn how to play back photos or videos, and edit photos or videos. Also, learn how to connect your camera to your computer, photo printer, TV, HDTV, or 3D TV.

Viewing photos or videos

in Playback mode	86
Starting Playback mode	86
Viewing photos	92
Playing a video	95
Editing a photo	97
Resizing photos	97
Rotating a photo	97
Applying Smart Filter effects	98
Adjusting your photos	99
Creating a print order (DPOF)	100
Viewing files on a TV, HDTV, or 3D TV	102

Transferring files to your

Windows computer	105
Transferring files with Intelli-studio	106
Transferring files by connecting the camera as a removable disk	108
Disconnecting the camera (for Windows XP)	109
Transferring files to your Mac computer	110
Printing photos with a PictBridge photo printer	111

Viewing photos or videos in Playback mode

Learn how to play back photos or videos and how to manage files.

Starting Playback mode

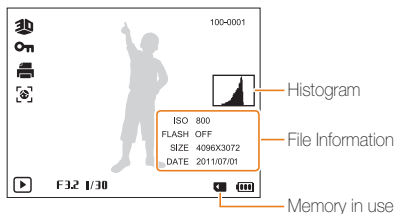
View photos or play videos stored in your camera.

- 1 Press [▶].
 - The most recent file will be displayed.
 - If the camera is off, it will turn on and display the most recent file.
- 2 Rotate the navigation button or press [⚡/😊] to scroll through files.
 - Press and hold [⚡/😊] to scroll through files quickly.



- If you want to view files stored in the internal memory, remove your memory card.
- The camera will not properly play back files of unsupported sizes or files that were captured with other cameras.

Photo file information

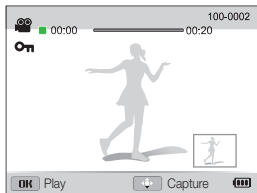


Icon	Description
100-0001	Folder name–File name
	Photo captured in 3D Photo mode
	Photo captured in a High-speed burst mode or in Precapture mode (See Viewing files as a folder, p. 86)
	Protected file
	Print order has been set (DPOF)
	Photo includes a registered face (Available only when you use a memory card.)



To display file information on the screen, press [DISP].

Video file information

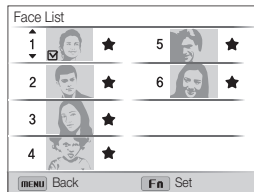


Icon	Description
100-0002	Folder name-File name
00:00	Current playback time
00:20	Video length
	Video file
	Video includes images captured while recording
	Video made in Creative Movie Maker mode
	Protected file
	Image captured while recording a video

Ranking your favorite faces

You can rank your favorite faces. The favorite face feature is available only when you insert a memory card into the camera.


- 1 In Playback mode, press **[MENU]**.
- 2 Select → **Face List Edit** → **Edit Ranking**.
- 3 Select a face from the list, and then press **[OK]**.



- 4 Rotate the navigation button or press **[DISP/👉]** to change the ranking of the face, and then press **[Fn]**.

Deleting favorite faces

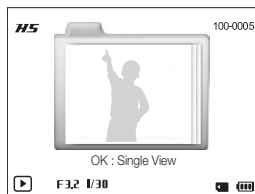
You can delete your favorite faces. The favorite face feature is available only when you insert a memory card into the camera.

- 1 In Playback mode, press **[MENU]**.
- 2 Select  → **Face List Edit** → **Delete**.
- 3 Select a face, and then press **[OK]**.
- 4 Press **[Fn]**.
- 5 When the pop-up message appears, select **Yes**.

Viewing files as a folder

Photos captured in a High-speed burst mode or in Precapture mode appear as a folder.

- 1 In Playback mode, rotate the navigation button or press **[⚡/🔄]** to scroll to a desired folder.
 - The camera will automatically play back photos in the folder.



- 2 Press **[OK]** to open the folder.
- 3 Rotate the navigation button or press **[⚡/🔄]** to scroll through the files.
- 4 Press **[OK]** to return to Playback mode.

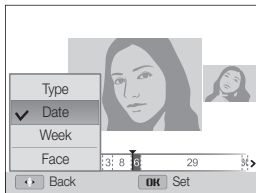


You cannot edit a photo while viewing a folder. To edit a photo in a folder, press **[OK]** to open the folder, and then scroll to the photo.

Viewing files by category in Smart Album

View files by category, such as date, face, or file type.

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



Option	Description
Type	View files by the file type.
Date	View files by the date they were saved.
Week	View files by the day of the week they were saved.
Face	View files by recognized faces and favorite faces. (Up to 20 people)

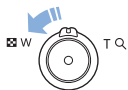
- 4 Rotate the navigation button or press **[⚡/☺]** to scroll through the files.
 - Press and hold **[⚡/☺]** to scroll through files quickly.
- 5 Press **[OK]** to return to the normal view.



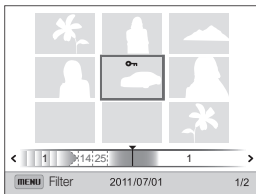
It may take some time for the camera to open Smart Album, change the category, or reorganize files.

Viewing files as thumbnails

Scan thumbnails of files.



In Playback mode, rotate **[Zoom]** to the left to view thumbnails (3 at a time). Rotate **[Zoom]** to the left once or twice more to display more thumbnails (9 or 20 at a time). Rotate **[Zoom]** to the right to return to the previous view.



To	Description
Scroll through files	Rotate the navigation button or press [DISP] / / / .
Delete files	Press [Fn] , and then select Yes .

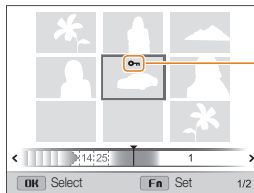


When you scroll to a video file or folder in the thumbnails view, the camera will automatically play back the video or the photos in the folder.

Protecting files

Protect your files from accidental deletion.

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



Protected file icon

- Press **[Fn]**.



You cannot delete or rotate a protected file.

Deleting files

Select files to delete in Playback mode.

Deleting a single file

You can select one file, and then delete it.


- 1 In Playback mode, select a file, and then press **[Fn]**.
- 2 When the pop-up message appears, select **Yes**.



- When viewing files in Smart Album or thumbnails view, press **[Fn]** to delete a file.
- While viewing files as a folder, press **[Fn]** to delete all photos in the folder.
- To delete a specific photo in a folder, open the folder, select a file, and then press **[Fn]**.


Deleting multiple files

You can select multiple files, and then delete them at once.

- 1 In Playback mode, press **[Fn]**.
- 2 When the pop-up message appears, select **Multiple Delete**.
 - You can also delete multiple files in Playback mode by pressing **[MENU]**, and then selecting  → **Delete** → **Select**.
- 3 Scroll to each file you want to delete, and then press **[OK]**.
 - Press **[OK]** again to cancel your selection.
- 4 Press **[Fn]**.
- 5 When the pop-up message appears, select **Yes**.


Deleting all files

You can select all files, and then delete them at once.

- 1 In Playback mode, press **[MENU]**.
- 2 Select  → **Delete** → **All**.
- 3 When the pop-up message appears, select **Yes**.
 - All unprotected files are deleted.

Copying files to a memory card

Copy files from the internal memory to a memory card.

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

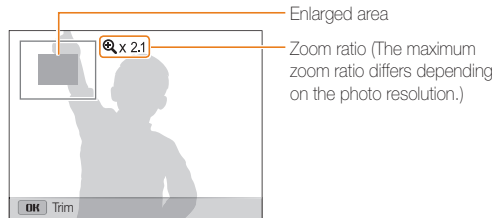
Viewing photos

Enlarge part of a photo or view photos as a slide show.

Enlarging a photo



In Playback mode, rotate **[Zoom]** to the right to enlarge a portion of the photo. Rotate **[Zoom]** to the left to zoom out.



To	Description
Move the enlarged area	Rotate the navigation button or press [DISP/⏪/⏩/⏹].
Trim the enlarged photo	Press [OK], and then select Yes . (The trimmed photo will be saved as a new file. The original photo is retained in its original form.)



When you view photos that were captured by another camera, the zoom ratio may differ.

Viewing panoramic photos

View photos captured in Panorama mode.


- In Playback mode, rotate the navigation button or press [⏪/⏹] to scroll to a desired panoramic photo.
 - The entire panoramic photo appears on the screen.
- Press [OK].
 - The camera automatically scrolls through the photo horizontally or vertically, depending on the direction you moved when capturing the photo. The camera then switches to Playback mode.
 - While playing back a panoramic photo, press [OK] to pause or resume.
 - After you have paused the playback of a panoramic photo, press [DISP/⏪/⏩/⏹] to move the photo horizontally or vertically, depending on the direction you moved when capturing the photo.
- Press [MENU] to return to Playback mode.



- The camera automatically scrolls through the panoramic photo only if the longest side of the photo is two or more times longer than the shortest side.
- On your camera's display, a photo captured in 3D Panorama mode appears as a 2D panoramic photo. To see the 3D effect, connect your camera to a 3D TV or 3D monitor. (p. 102)

Playing a slide show

Apply effects and audio to a slide show of your photos. The slide show function does not work for videos.

- 1 In Playback mode, press **[MENU]**.
- 2 Select .
- 3 Select a slide show effect option.
 - Skip to step 4 to start a slide show with no effects.

* Default

Option	Description
Start	Set whether or not to repeat the slide show. (Play, Repeat)
Images	Set the photos you want to view as a slide show. <ul style="list-style-type: none"> • All*: View all photos in a slide show. • Date: View photos captured on a specific date in a slide show. • Select: View selected photos in a slide show.
Interval	<ul style="list-style-type: none"> • Set the interval between photos. (1 sec*, 3 sec, 5 sec, 10 sec) • You must set the Effect option to Off to set the interval.

* Default

Option	Description
Effect	<ul style="list-style-type: none"> • Set a scene change effect between photos. (Off*, Calm, Shine, Relax, Lively, Sweet) • Select Off to cancel effects. • When you use the Effect option, the interval between photos will be set to 3 seconds.
Music	Set background audio.

- 4 Select **Start** → **Play**.
 - Select **Repeat** to loop the slide show.
- 5 View the slide show.
 - Press **[OK]** to pause the slide show.
 - Press **[OK]** again to resume the slide show.

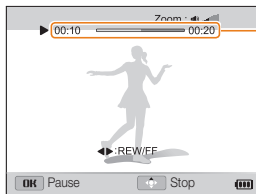


Press **[OK]**, and then press [] to stop the slide show and return to Playback mode.

Playing a video

In Playback mode, you can view a video, and then capture or trim parts of the playing video. You can save the captured or trimmed segments as new files.

- 1 In Playback mode, select a video, and then press **[OK]**.
- 2 View the video.



Current playback time/
Video length

To	Description
Scan backward	Press [↶]. Each time you press [↶], you change the scan speed in this order: 2X, 4X, 8X.
Pause or resume playback	Press [OK] .
Scan forward	Press [↷]. Each time you press [↷], you change the scan speed in this order: 2X, 4X, 8X.
Adjust the volume level	Rotate [Zoom] to the left or right.

Trimming a video

- 1 While viewing a video, press **[OK]** at the point where you want the trimming to begin.
- 2 Rotate **[Zoom]** to the right, and then press **[OK]**.
- 3 Press **[OK]** at the point where you want the trimming to end.
- 4 Rotate **[Zoom]** to the right.
- 5 When the pop-up message appears, select **Yes**.



- The original video should be at least 10 seconds long.
- The camera will save the edited video as a new file and leave the original video intact.

Capturing an image from video

- 1 While viewing a video, press **[OK]** at the point where you want to capture an image.
- 2 Press **[📷]**.



- The resolution of the captured image will be the same as the original video.
- The captured image is saved as a new file.


Editing a photo

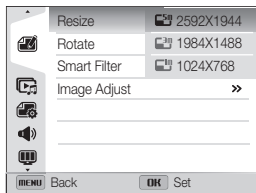
Learn how to edit photos.

- The camera will save edited photos as new files.
- When you edit photos, the camera will automatically convert them to a lower resolution. Photos that you rotate or resize manually are not automatically converted to a lower resolution.

Resizing photos


Change the size of a photo and save it as a new file.

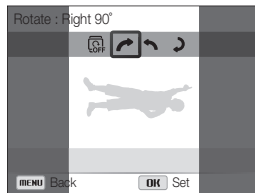
- 1 In Playback mode, select a photo, and then press **[MENU]**.
- 2 Select  → **Resize**.
- 3 Select an option.



- Available resize options differ depending on the original size of the photo.

Rotating a photo


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

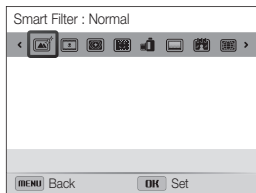






- The camera will overwrite the original file.












Applying Smart Filter effects

Apply special effects to your photos.

- 1 In Playback mode, select a photo, and then press **[MENU]**.
- 2 Select  → **Smart Filter**.
- 3 Select an effect.




Icon	Description
	Normal: No effect
	Miniature: Apply a tilt-shift effect to make the subject appear in miniature.
	Vignetting: Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.
	Soft Focus: Hide facial imperfections or apply dreamy effects.

Icon	Description
	Old Film: Apply a vintage film effect.
	Half Tone Dot: Apply a halftone effect.
	Sketch: Apply a pen sketch effect.
	Fish-eye: Distort close objects to imitate the visual effect of a fisheye lens.
	Classic: Apply a black and white effect.
	Retro: Apply a sepia tone effect.
	Oil Painting: Apply an oil painting effect.
	Cartoon: Apply a cartoon painting effect.
	Ink Painting: Apply a watercolor painting effect.
	Cross Filter: Add lines that radiate outward from bright objects to imitate the visual effect of a cross filter.
	Zooming Shot: Blur the edges of a photo to emphasize the subjects in the center.





Adjusting your photos

Learn how to correct red-eye, adjust the skin tone, and adjust the brightness, contrast, or saturation. The camera will save an edited photo as a new file, but may convert it to a lower resolution.


Removing red-eye




- 1 In Playback mode, select a photo, and then press **[MENU]**.
- 2 Select  → **Image Adjust** → **Red-eye Fix**.
- 3 Press **[OK]** to save your settings.




Retouching faces

- 1 In Playback mode, select a photo, and then press **[MENU]**.
- 2 Select  → **Image Adjust** → **Face Retouch**.
- 3 Press .
- 4 Rotate the navigation button or press [/] to adjust the skin tone.
 - As the number increases, the skin tone becomes brighter.
- 5 Press **[OK]** to save your settings.


Adjusting brightness, contrast, or saturation

- 1 In Playback mode, select a photo, and then press **[MENU]**.
- 2 Select  → **Image Adjust**.
- 3 Select an adjusting option.

Icon	Description
	Brightness
	Contrast
	Saturation


- 4 Press .
- 5 Rotate the navigation button or press [/] to adjust the option.
- 6 Press **[OK]** to save your settings.

Adding noise to the photo

- 1 In Playback mode, select a photo, and then press **[MENU]**.
- 2 Select  → **Image Adjust** → **Add Noise**.
- 3 Press **[OK]** to save.

Creating a print order (DPOF)

Select photos to print and save print options in the Digital Print Order Format (DPOF). This information is saved in the MISC folder on your memory card for convenient printing on DPOF-compatible printers.

- 1 In Playback mode, press **[MENU]**.
- 2 Select  → **DPOF** → **Standard** → **Select**.
 - Select **All** to print all photos.

3 Scroll to a photo you want to print, rotate **[Zoom]** to the left or right to select the number of copies, and then press **[Fn]**.

- If you select **All**, press **[DISP/🌸]** to select the number of copies, and then press **[OK]**.

4 Press **[MENU]**.

5 Select  → **DPOF** → **Size** → **Select**.

- Select **All** to choose the print size for all photos.


6 Scroll to a photo you want to print, rotate **[Zoom]** to the left or right to select the print size, and then press **[Fn]**.

- If you select **All**, press **[DISP/🌸]** to select the print size, and then press **[OK]**.

Printing photos as thumbnails

Print photos as thumbnails to check all the photos at once.

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

2 Select  → **DPOF** → **Index**.

3 When the pop-up message appears, select **Yes**.

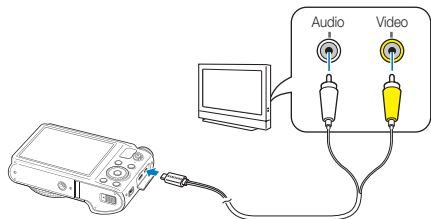


- You can take the memory card to a print shop that supports DPOF (Digital Print Order Format) or you can print photos directly through a DPOF-compatible printer at home.
- Photos with dimensions that are wider than the paper may be cut off on the left and right edges. Ensure that your photo dimensions are compatible with the paper you select.
- You cannot set DPOF options for photos stored in the internal memory.
- If you specify the print size, you can print photos only with DPOF 1.1-compatible printers.

Viewing files on a TV, HDTV, or 3D TV

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


- 1 In Shooting or Playback mode, press **[MENU]**.
- 2 Select **⚙️** → **Video Out**.
- 3 Select the video signal output for your country or region.
(p. 115)
- 4 Turn off your camera and TV.
- 5 Connect your camera to your TV with the A/V cable.
- 6 Turn on your TV, and then select the A/V video source with the TV remote control.
- 7 Turn on your camera.
 - The camera automatically enters into Playback mode when you connect it to a TV.
- 8 View photos or play videos using the camera buttons.

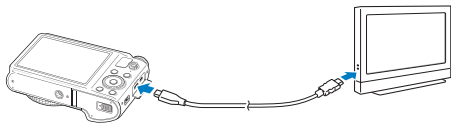


- Depending on the TV model, you may see some digital noise or part of an image may not appear.
- Images may not be centered on the TV screen depending on your TV settings.

Viewing files on an HDTV

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

- 1 In Shooting or Playback mode, press **[MENU]**.
- 2 Select  → **HDMI Size**.
- 3 Select an HDMI resolution. (p. 115)
- 4 Turn off your camera and HDTV.
- 5 Connect your camera to your HDTV with the optional HDMI cable.



6 Turn on your camera.

- If you have an Anynet+ compatible Samsung HDTV and you have turned on your camera's Anynet+ function, the HDTV turns on automatically and displays the camera screen, while the camera automatically enters Playback mode.
- If Anynet+ is off in your camera or your TV does not have Anynet+, the TV does not turn on automatically. Turn the TV on manually.


7 View files using the buttons on your camera or, if the TV has Anynet+, the remote control of your HDTV.

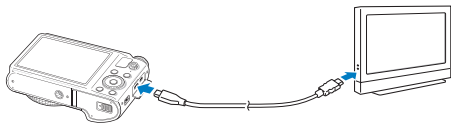


- If your HDTV supports the Anynet+(CEC) profile, turn Anynet+ on in the camera's settings menu (p. 114) to control the camera and TV with the TV's remote control.
- Anynet+ lets you control all connected Samsung AV devices with the TV remote control.
- The time it takes for the camera to connect to your HDTV may vary with the type of SD, SDHC, or SDXC card you use. A faster SD, SDHC, or SDXC card will not necessarily result in a faster HDMI transfer, because the main function of the card is to improve the transfer rate during shooting.

Viewing files on a 3D TV

You can view photos captured in 3D Photo or 3D Panorama mode on a 3D TV.

- 1 In Shooting or Playback mode, press **[MENU]**.
- 2 Select  → **HDMI Size**.
- 3 Select an HDMI resolution. (p. 115)
- 4 Turn off your camera and 3D TV.
- 5 Connect your camera to your 3D TV with the optional HDMI cable.



- 6 Turn on your camera.
 - If you have an Anynet+ compatible Samsung 3D TV and you have turned on your camera's Anynet+ function, the 3D TV turns on automatically and displays the camera screen, while the camera automatically enters Playback mode.
 - If Anynet+ is off in your camera or your TV does not have Anynet+, the TV does not turn on automatically. Turn the TV on manually.
- 7 Press  to switch to **3D TV Mode**.
 - Press  again to switch to **2D TV Mode**.
- 8 Turn on your TV's 3D function.
 - Refer to your TV's user manual for more details.
- 9 View 3D photos with the buttons on your camera or, if the TV has Anynet+, the remote control of your 3D TV.



- You cannot view an MPO file in 3D on TVs that do not support the file format.
- Use proper 3D glasses when you view an MPO file on a 3D TV.



Do not view the 3D images captured by your camera on a 3D TV or 3D monitor for an extended period of time. It may cause unpleasant symptoms, such as eyestrain, fatigue, nausea, and dizziness.

Transferring files to your Windows computer

Transfer files to your Windows computer, edit them with Intelli-studio, and upload them to the web.

Requirements

Item	Requirements
CPU	Intel® Core 2 Duo® 1.66 GHz or higher/ AMD Athlon™ X2 Dual-Core 2.2 GHz or higher
RAM	Minimum 512 MB RAM (1 GB or more recommended)
OS*	Windows XP SP2, Windows Vista, or Windows 7 (32-bit editions)
Hard disk capacity	250 MB or more (1 GB and above recommended)
Others	<ul style="list-style-type: none">• CD-ROM drive• 1024 X 768 pixels, 16-bit color display compatible monitor (1280 X 1024 pixels, 32-bit color display recommended)• USB 2.0 port• nVIDIA Geforce 7600GT or higher/ ATI X1600 series or higher• Microsoft DirectX 9.0c or higher

* The programs may not work properly on 64-bit editions of Windows XP, Windows Vista, and Windows 7.



- The requirements are recommendation only. Intelli-studio may not work properly even when the computer meets the requirements, depending on the condition of your computer.
- 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 Intelli-studio.
- Your computer must be running Windows XP, Windows Vista, or Windows 7 for you to connect the camera as a removable disk.



The manufacturer is not responsible for any damage that results from using unqualified computers such as a computer you assembled yourself.

Transferring files with Intelli-studio

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

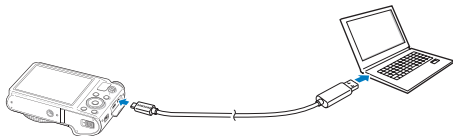


The battery will charge while the camera is connected to a computer with the USB cable.

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



You must plug the small end of the USB cable 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 and Intelli-studio launches automatically.



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

6 Select a destination folder on your computer, and then select **Yes**.

- New files stored on the camera will automatically transfer to the selected folder.
- If your camera has no new files, the pop-up window for saving new files will not appear.



For Windows Vista and Windows 7, select **Run iStudio.exe** from the Auto Play window to start Intelli-studio.

Using Intelli-studio

Intelli-studio is a built-in program that allows you to play back and edit files. For details, select **Help** → **Help** from the program toolbar.



- You can update the firmware of your camera by selecting **Web Support** → **Upgrade firmware for the connected device** from the program toolbar.
- 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**.
- You cannot edit files directly on the camera. Transfer files to a folder on your computer before editing.
- 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



No.	Description
1	Open menus.
2	Display files in the selected folder.
3	Switch to the Photo edit mode.
4	Switch to the Video edit mode.
5	Switch to the Sharing mode (to 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 in the selected folder on your computer.
9	Show or hide files on the connected camera.
10	View files in the selected folder on the camera.
11	View files as thumbnails or on a map.
12	Browse folders stored on the camera.
13	Browse folders stored on 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.

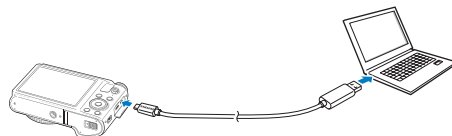
Transferring files by connecting the camera as a removable disk

Connect the camera to your computer as a removable disk.

- 1 In Shooting or Playback mode, press **[MENU]**.
- 2 Select **⚙️** → **PC Software** → **Off**.
- 3 Turn off the camera.
- 4 Connect the camera to your computer with the USB cable.



You must plug the small end of the USB cable 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**, select **Computer** in the pop-up window.

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

7 Drag or save files to your computer.

Disconnecting the camera (for Windows XP)

With Windows Vista and Windows 7, the methods for disconnecting the camera are similar.

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



- 3 Click the pop-up message.
- 4 Click the message box that indicates the camera can be removed safely.
- 5 Remove the USB cable.



The camera may not disconnect safely while Intelli-studio is running. End the program before disconnecting the camera.

Transferring files to your Mac computer

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

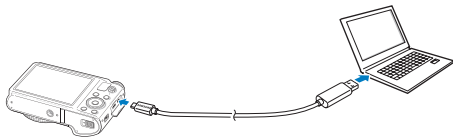


Mac OS 10.4 or later is supported.

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



You must plug the small end of the USB cable 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 displays a removable disk icon.




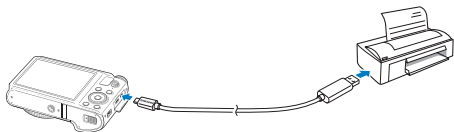
If you set the USB option to **Select**, select **Computer** in the pop-up window.

- 3 Double-click the removable disk icon.
- 4 Drag or save files to your computer.

Printing photos with a PictBridge photo printer

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

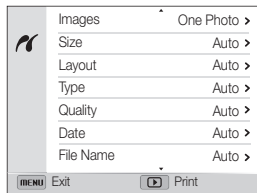
- 1 In Shooting or Playback mode, press **[MENU]**.
- 2 Select  → **USB** → **Printer**.
- 3 Turn on the printer, and then connect your camera to the printer with the USB cable.



- 4 If the camera is off, press **[POWER]** or **[▶]** to turn it on.
 - The printer recognizes the camera automatically.
- 5 Press **[⚡/☺]** to select a file to print.
 - Press **[MENU]** to set printing options. See "Configuring print settings."
- 6 Press **[OK]** to print.
 - Printing starts. Press **[⚡]** to cancel printing.

Configuring print settings

Press **[MENU]** to configure print settings.



Option	Description
Images	Select whether to print the current photo or all photos.
Size	Set the print size.
Layout	Set the number of photos to be printed on a single sheet of paper.
Type	Set the type of paper.
Quality	Set the print quality.
Date	Set to print the date.
File Name	Set to print the file name.
Reset	Reset settings to their default values.



Some options may not be supported by some printers.

Wireless network (WB850F only)



Learn to connect to wireless local area networks (WLANs) and use functions.

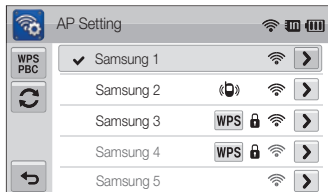
Connecting to a WLAN and configuring network settings	113
Connecting to a WLAN	113
Setting network options	114
Manually setting the IP address	114
Network connection tips	115
Sending photos via email	116
Changing email settings	116
Sending photos via email	118
Entering text	119
Using photo or video sharing websites ...	120
Accessing a website	120
Uploading photos or videos	120
Using a smart phone as a remote shutter release	121
Viewing photos or videos on a AllShare-enabled TV	123
Viewing photos or videos on a TV I	123
Viewing photos or videos on a TV II	125
Sending or receiving photos or videos with another camera	126
Sending photos or videos to another camera	126
Receiving photos or videos from another camera	126
Using Auto Backup to send photos or videos	128
Installing the program for Auto Backup on your PC	128
Sending photos or videos to a PC	128
Sending photos or videos to a Blu-ray disc Player	129
About the Wakeup on LAN (WOL) feature ...	130








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.

Connecting to a WLAN






- 1 On the Home screen, touch .
- 2 Touch .
 - The camera automatically searches for available AP devices.
- 3 Touch an AP.



Icon	Description
	Ad hoc AP
	Secured AP
	WPS AP
	Signal strength
	AP setting options
	Connecting WPS AP
	Refreshing connectable APs

- When you select a secured AP, a pop-up window appears. Input the required passwords to connect to the WLAN (for information about entering text, refer to page 114).
- When you select an unsecured AP, the camera will connect to the WLAN.
- If you select a WPS profile supported AP, touch **WPS PIN**, and then enter a PIN on the AP device. You can also connect to a WPS profile supported AP by touching **WPS PBC** on the camera, and then pressing **WPS** button on the AP device.






Setting network options

- 1 On the Home screen, touch ,  or .
- 2 Touch .
 - The camera automatically searches for available AP devices.
- 3 Touch  next to an AP.
- 4 Touch each option and enter the required information.

Option	Description
Authentication	Select a network authentication type.
Data Encryption	Select an encryption type.
Network Key	Enter the network key.
IP Setting	Set the IP address manually.

- 5 When you are finished, touch **OK**.

Manually setting the IP address

- 1 On the Home screen, touch ,  or .
- 2 Touch .
 - The camera automatically searches for available AP devices.
- 3 Touch  next to an AP to change settings.
- 4 Touch **IP Setting** → **Manual**.
- 5 Touch each option and enter the required information.

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 Touch **OK** to save your changes.

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 it 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 camera may not be able to locate the device or the name may appear incorrectly.
 - 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 to 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.
 - The camera may display 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 a 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 not authorized to use.
 - Before you connect to a network, 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.



Sending photos via email

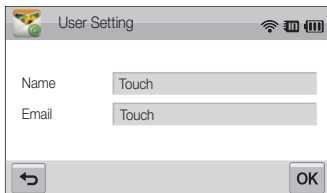
You can change settings in the email menu, and send photos stored on the camera via email.


Changing email settings

In the email menu, you can change settings for storing your information or saving email addresses. You can also set or change the email password. See p. 114 for information about entering text.




Storing your information

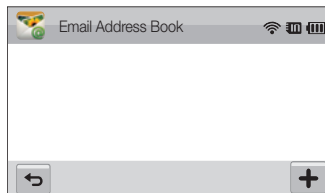
- 1 On the Home screen, touch .
- 2 Touch  → **User Setting**.
- 3 Touch the **Name** box, input your name, and then touch **OK**.





- 4 Touch the **Email** box, input your email address, and then touch **OK**.
- 5 Touch **OK** to save your changes.
 - To delete your information, touch .



Saving email addresses

- 1 On the Home screen, touch .
- 2 Touch  → **Email Address**.
- 3 Touch  to open the email address.





- 4 Touch the **Name** box, input a name, and then touch **OK**.
- 5 Touch the **Email** box, input an email address, and then touch **OK**.
- 6 Touch **OK** to save the new email address.
 - Touch  to add an address.
 - Touch  to delete the address from the list.

Setting an email password

- 1 On the Home screen, touch .
- 2 Touch , and then touch the setting button next to **Setting Password**.
- 3 When the pop-up appears, touch **Confirm**.
- 4 Enter a 4-digits password.
- 5 Enter the password again.
- 6 When the pop-up appears, touch **Confirm**.

Changing the email password




- 1 On the Home screen, touch .
- 2 Touch  → **Change Password**.
- 3 Enter your current 4-digit password.
- 4 Enter a new 4-digit password.
- 5 Enter the new password again.
- 6 When the pop-up appears, touch **Confirm**.



If you do not want to use a password to access email options, touch the setting button next to **Setting Password** to deactivate it.

Sending photos via email

You can send photos stored on the camera via email. See p. 114 for information about entering text.

- 1 On the Home screen, touch .
- 2 Touch the **Sender** box, input your email address, and then touch **OK**.
 - If you have previously saved your information, it will be inserted automatically. (p. 111)
- 3 Touch the **Receiver** box, input an email address, and then touch **OK**.
 - Touch  to use an address from your address book. (p. 111)
 - Touch the **Touch** box to add additional recipients. You can input up to 10 recipients.
 - Touch  to delete an address from the list.
- 4 Touch **OK**.
- 5 Select photos to send, and then touch **OK**.
 - You can select up to 20 photos. The total size must be 10 MB or less.
- 6 Touch the **Text** box, input your comments, and then touch **OK**.
 - For information about entering text, refer to page 114.
- 7 Touch **Send** to connect to the network and send the photos.
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device and send the photo.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 108)



- You may not be able to send an email if no network connection is available or if your email account settings are incorrect.
- The camera will display the **Transfer completed.** message, even when the photos cannot be sent or will be recognized as spam due to an error with the recipient's email account.
- The maximum photo resolution you can send is **2m**. If you select a photo with resolution that is higher than **2m**, it will be automatically resized.
- 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.

Entering text

Learn how to enter text. The icons in the table below let you move the cursor, change the case, etc.



Icon	Description
	Move the cursor.
	In ABC mode, change the case. In 123 mode, view more symbols.
ABC	Switch to ABC mode.
.COM	Enter ".com".
Space	Enter a space.
	Delete the last letter.
123	Switch to 123 mode.
OK	Save the displayed text.




You can enter only English alphabets, 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 On the Home screen, touch .
- 2 Select a website.
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 108)
- 3 Input your ID and password, and then touch **Login**.
 - You may be logged in automatically, if you have previously logged in to the website.




You must have an existing account on the file sharing website to use this feature.

Uploading photos or videos

- 1 Access the website with your camera, and then touch **Upload**.
- 2 Select files to upload from the list, and then touch **OK**.
 - You can select up to 20 photos and the total size must be 10 MB or less.
- 3 Touch the **Comment** box, input your comments, and then touch **OK**.
- 4 Touch **Upload**.




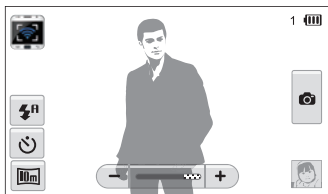
- The maximum photo resolution you can upload is **2m**, and the longest video you can upload is 30 seconds at **320** resolution or a video recorded using . If the selected photo resolution is higher than **2m**, it will be automatically resized to a lower resolution.
- The method of uploading photos 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.
- If you are unable to upload photos or videos due to server errors, touch **Retry**.
- Uploaded photos or videos may be automatically titled with the date they were captured.
- The speed of your internet connection may affect how quickly photos upload or web pages open.




Using a smart phone as a remote shutter release

The camera connects to a smart phone via a WLAN. Use the smart phone as a remote shutter release with the Remote Viewfinder feature. The captured photo will display on the smart phone.

- This feature is supported only by Galaxy S smart phones with the Android 2.2 OS or higher. If your smart phone uses the Android 2.1 OS, upgrade your smart phone to Android 2.2. This feature is also supported by 7 inch. Galaxy Tab and iPhone 4 with the iOS 4.3.
- You can download the application from Samsung Apps, Android market, or Apple App Store.


- 1 On your smart phone, turn on the Remote Viewfinder application.
 - If you are using an iPhone, activate Personal Hotspot before using the application.
- 2 On the Home screen of the camera, touch .
- 3 Select your smart phone from the list of available devices found by the camera.
 - If the smart phone connected to the camera recently, it will reconnect to the camera automatically.
 - You can choose only one camera at a time.
 - If you are using an iPhone, enter your password.
- 4 On the smart phone, set the following shooting options.



Icon	Description
	Flash option
	Timer option
	Photo size

- While using this feature, only the touch screen and **[POWER]** are available on your camera.
 - The zoom button and the shutter button on your smart phone will not function when using this feature.
 - Remote Viewfinder mode supports the  and  photo sizes only.
- 5 On the smart phone, touch and hold  to focus.
 - The focus is automatically set to multi-AF.
 - 6 Release  to capture the photo.
 - The photo will be saved in your camera.
 - Touch the photo in the bottom right corner of the screen to save it to the smart phone. The photo will be resized to VGA (640x480) size.



- When you use this feature, the ideal distance between the camera and the smart phone may vary, depending on your surroundings.
- The smart phone must be within 30 ft/10 m of the camera to use this feature.
- It will take some time to capture the photo after you release  on the smart phone.
- The Remote Viewfinder function will deactivate when:
 - there is an incoming call on the smart phone
 - either of the camera or the smart phone turn off
 - memory is full
 - either device loses connection to the WLAN
 - the Wi-Fi connection is poor or unstable
- To rotate the scene by rotating the smart phone, turn on the rotation feature on your smart phone.
- When you take a self image shot, the display will show a reflected image, just like a mirror.

Note: Wi-Fi function is never operational when taking photographs.




Viewing photos or videos on a AllShare-enabled TV


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. You cannot send or receive voice memos.

Viewing photos or videos on a TV I

View your photos or videos on a TV that supports the AllShare function. Your camera acts as a server and you can search for shared photos or videos with the TV remote control.

1 On the Home screen, touch .

2 Touch **Broadcast files**.

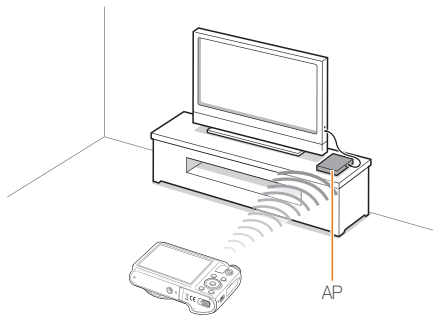
- The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
- If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 108)
- To store your camera's name, in AllShare mode, touch  → **Device Name**, and then input a name by touching the **Device Name** box.

3 Connect your TV to a wireless network via an AP device.

- Refer to your TV's user manual for more information.

4 On the TV, search for the camera and browse the shared photos or videos.

- 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 the type of TV or network condition. (p. 55) If this happens, re-record the video in **640** or **320** quality and play it again. If videos do not play smoothly on your TV over the wireless connection, try connecting the camera to the TV with an AV cable.






- You can share up to 1,000 photos.
- 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 slower.
- Photos will be shared according to the size you set.
- Videos will be shared in their original sizes.
- You can use this feature only with AllShare-enabled TVs.
- 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, the number of files to be shared, or sizes of the files.
- If you power off the camera abnormally while viewing photos or videos on a TV (for example, by removing the battery), the TV considers the camera to still be connected.
- The order of photos or videos on the camera may be different than on the TV.
- 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 a TV II

View your photos or videos on a TV that supports the AllShare function. The TV acts as a display device and you can search photos or videos via the camera.

- 1 On the Home screen, touch .
- 2 Touch **Send files**.
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 108)
- 3 Connect your TV to the wireless network via an AP device and activate AllShare.
 - Refer to your TV's user manual for more information.
- 4 On your camera, select photos or videos to view.
- 5 From the list on your camera, select the TV to use for displaying files.
 - The camera will transfer the files. Touch **Cancel** to stop the transfer.






- When searching for AllShare-enabled devices in the area, the camera may not list all available devices.
- If you power off the TV abnormally while viewing photos or videos on a TV, the camera considers the TV to still be connected.
- Photos will be shared according to the size you set.
- Videos will be shared in their original sizes.
- You can use this feature only with AllShare-enabled TVs.
- 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, the number of files to be shared, or sizes of the files.
- You can transfer files one by one.
- When there are no photos or videos in the camera memory, you cannot use this feature.
- On a TV screen, you can view only photos or videos captured with your camera.
- Network conditions will affect how long the camera searches for devices. If the search takes an unusually long time, try reconnecting the camera to the network.


Sending or receiving photos or videos with another camera

Learn to send or receive photos or videos to or from Samsung cameras that support network connections. You cannot send or receive voice memos.

Sending photos or videos to another camera

- 1 On the Home screen, touch .
- 2 Touch **Send**.
 - The camera generates a password and displays it on the screen while waiting to make a connection with the receiving camera.
 - To store your camera's name, in Camera to Camera mode, touch  → **Device Name**, and then input a name by touching the **Device Name** box.
- 3 On the receiving camera, activate the camera to camera function, and then select Receive.
- 4 On the receiving camera, select your camera from the list of available devices.
- 5 On the receiving camera, enter the 4-digit password displayed on your camera in step 2.
 - When the connection is made, the selection area automatically appears on the sending camera.
- 6 Select photos or videos to send, and then touch .

Receiving photos or videos from another camera

- 1 On the Home screen, touch .
- 2 On the sending camera, activate the camera to camera function.
- 3 On the sending camera, select Send, and then on your camera, touch **Receive**.
- 4 Select the sending camera from the list of available devices.
- 5 Enter the 4-digit password displayed on the sending camera.
- 6 On the sending camera, send photos or videos.
 - Your camera will receive the files from the sending 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 the 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 you power off the camera 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.
- Transferring photos or videos to the device may take some time depending on the network connection and the file size.
- 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.
- Photos larger than **2m** will automatically be resized.
- The maximum video file size you can send or receive is 35 MB.



Using Auto Backup to send photos or videos

You can send photos or videos that you captured with the camera to a PC or Blu-ray disc player wirelessly. Before sending files to your PC, connect the camera to the PC with the USB cable, so that the camera can store information about the PC. The Auto Backup feature works only with the Windows OS.

Installing the program for Auto Backup on your PC

- 1 Connect the camera to the PC with the USB cable.
- 2 Turn on the camera.
 - The computer recognizes the camera and Intelli-studio launches automatically.
- 3 When the pop-up appears, click **OK**.
 - The program will be installed automatically.



- Before install program, ensure that the PC is connected to a network. If no internet connection is available, you must install the program from the provided CD.
- This program is for backing up files to the PC. You do not need a program to send files to the Blu-ray disc player.

Sending photos or videos to a PC

- 1 On the Home screen of your camera, touch .
- 2 Touch **Confirm**.

3 Select options, and then touch **Confirm**.

- The camera will prepare to connect to the network and send files.

4 The camera will send files.



- You cannot select individual files to send. This function is available only for newly stored files on the camera.
- The progress will be shown on the PC monitor.



- If the PC supports the Wake on LAN(WOL) feature, you can turn on the PC automatically by searching for the PC from your camera. (p.125)
- When you connect the camera to the WLAN, select the AP that is connected to the PC.
- The camera will search for available access points even if you are connecting to the same access point again.
- If you turn off the camera or remove the battery while sending files, the file transfer will be interrupted.
- While you are using this feature, the buttons on the camera will be disabled.
- You can connect only one camera to the PC at a time for sending files.
- The backup may be canceled due to network conditions.
- Photos or videos can be sent to a PC or Blu-ray player one time only. Files cannot be sent again even if you reconnect your camera.

Sending photos or videos to a Blu-ray disc Player

You can send photos from your camera to the Samsung Blu-ray disc player that has an HDD.

- 1 On the Home screen, touch .
- 2 Touch  to connect to the AP.
 - Select the AP that is connected to the Blu-ray player.
- 3 Search for available devices, and then select your Blu-ray player.
- 4 When the camera is connected to the Blu-ray player and a pop-up appears on the player's display, select **Allow**.
- 5 On the Blu-ray player, select **Menu** → **Settings** → **Network** → **AllShare Server Management** → **Device Access Control** → your camera. Then, set the Blu-ray player to be accessible by other devices.
 - The Blu-ray player will remember the most recent access settings. If the connection conditions are the same as the last connection, the camera will automatically access the Blu-ray player.
- 6 Touch **Confirm** to send files.
 - Transferred files will be stored on the hard disk of the Blu-ray player.



- Before you backup the files, connect the Blu-ray disc player to a wired AP. Select **Menu** → **Settings** → **Network** → **Network Setting** to view the player's IP allocation.
- Even when you have set the Blu-ray player to be accessed by other devices, you may be prompted to change the access setting again. To set the access setting, refer to steps 4 – 5.
- This feature works with Samsung Blu-ray players that support Auto Backup.
- The Auto Backup function cannot be used when the Blu-ray player is:
 - playing back files or access to browser, in My Contents or My Device menu
 - upgrading the software
 - recording files or time-shifting files (reservation recordings will function normally during automatic backups.)
 - formatting the player's hard disk or when you are testing the device or its capabilities

About the Wakeup on LAN (WOL) feature

With the WOL feature, you can automatically turn on or wake up a PC with your camera. This feature has been available for Samsung desktop PCs for the last 5 years (not available for all-in-one PCs).



Setting the PC to wake up from sleep mode

- 1 Click **Start**, and then open the **Control Panel**.
- 2 Configure the network connection.
 - Windows 7:
Click **Network and Internet** → **Network and Sharing Center** → **Change adapter settings**.
 - Windows Vista:
Click **Network and Internet** → **Network and Sharing Center** → **Manage network connections**.
 - Windows XP:
Click **Network and Internet Connection** → **Network Connection**.
- 3 Right click **Local Area**, and then click **Properties**.
- 4 Click **Configure** → the **Power manage** tab → **Allow this device to wake the computer**.
- 5 Click **OK**.
- 6 Restart the PC.



Setting the PC to turn on

- 1 Turn on the PC and press F2 while the PC is booting.
 - The BIOS setting menu will appear.
- 2 Select **Advanced** tab → **Power management Setup**.
- 3 Select **Resume on PME** → **Enabled**.
- 4 Press F10 to save your changes and continue booting.
- 5 Click **Start**, and then open the **Control Panel**.
- 6 Configure the network connection.
 - Windows 7:
Click **Network and Internet** → **Network and Sharing Center** → **Change adapter settings**.
 - Windows Vista:
Click **Network and Internet** → **Network and Sharing Center** → **Manage network connections**.
 - Windows XP:
Click **Network and Internet Connection** → **Network Connection**.
- 7 Select drivers related to network adapter.
- 8 Click **Advanced** tab and then set WOL menus.



- You cannot use this feature across a firewall or if a security program has been installed.
- To turn on the PC with the WOL feature, the PC must have an active connection to the LAN. Ensure that the indicator light on the PC's LAN port is on, which shows that the LAN connection is active.
- Depending on your PC model, the camera may only be able to wake the PC.
- Depending on your PC's OS or drivers, the names of the WOL setting menu may vary.
 - examples of setting menu names : Enable PME, Wake on LAN etc.
 - examples of setting menu values : Enable, Magic packet etc.



Any changes to your PC's BIOS settings other than the ones described below may damage your PC. The manufacturer is not responsible for damage caused by your changing your PC's BIOS settings.

Settings

Refer to options to configure your camera's settings.

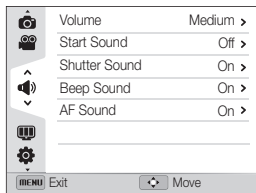
Settings menu	133
Accessing the settings menu	133
Sound	134
Display	134
Settings	135




Settings menu

Learn to configure your camera's settings.

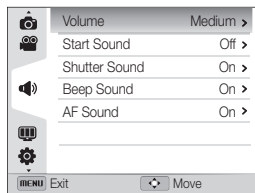
Accessing the settings menu

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

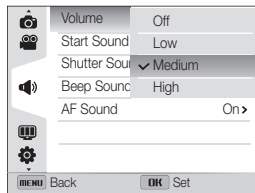


Option	Description
	Sound: Set various camera sounds and the volume. (p. 112)
	Display: Customize the display settings. (p. 112)
	Settings: Customize the settings for the camera system. (p. 113)

- 3 Select an item.



- 4 Select an option.



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



Sound

* Default


Item	Description
Volume	Set the volume of all sounds. (Off, Low, Medium* , High)
Start Sound	Set to emit a sound when you turn on your camera. (Off* , On)
Shutter Sound	Set to emit a sound when you press the shutter button. (Off, On*)
Beep Sound	Set to emit a sound when you press the buttons or switch modes. (Off, On*)
AF Sound	Set to emit a sound when you half-press the shutter button. (Off, On*)

Display

* Default


Item	Description
Function Description	Display a brief description of an option a menu. (Off, On*)
Grid Line	Select a guide to help you compose a scene. (Off* , 3 X 3 , 2 X 2 , Cross , Diagonal)
Date/Time Display	Set whether or not to display the date and time on the camera's display. (Off* , On)
Display Brightness	Adjust the brightness of the screen. (Auto* , Dark , Normal , Bright)  Normal is fixed in Playback mode even if you have selected Auto .
Quick View	Set the duration for reviewing a captured image before returning to the 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. (Off* , On)  <ul style="list-style-type: none"> In Power save mode, press any button other than [POWER] to resume using the camera. Even if you do not set the Power save mode, the screen will dim 30 seconds after the last operation to save power.



Settings


Item	Description
Device Information (WB850F only)	See the Mac address and serial number of your camera.
Language	Set a language for the display text.
Time Zone	Set the time zone for your location. When you travel to another country, select Visit , and then select the appropriate time zone. (Home* , Visit)
Date/Time Set	Set the date and time.
Date Type	Set a date format. (YYYY/MM/DD*, MM/DD/YYYY, DD/MM/YYYY)  The default date type may differ depending on the language selected.

* Default


* Default

Item	Description
File No.	<p>Specify how to name files.</p> <ul style="list-style-type: none"> • Reset: Set the file number to start from 0001 when you insert a new memory card, format a memory card, or delete all files. • Series*: Set the file number to resume from the previous file number when you insert a new memory card, format a memory card, or delete all files. <p> • The default name of the first folder is 100PHOTO and the default name of the first file is SAM_0001.</p> <ul style="list-style-type: none"> • The file number increases one at a time from SAM_0001 to SAM_9999. • The folder number increases one at a time from 100PHOTO to 999PHOTO. • The maximum number of files that can be stored in one folder is 1,000. • The camera defines file names according to the Design rule for Camera File system (DCF) standard. If you intentionally change file names, the camera may not play back the files.

Item	Description	* Default
Imprint	<p>Set whether or not to display the date and time on captured photos. (Off, Date, Date & Time)</p>  <ul style="list-style-type: none"> The date and time will be displayed on the bottom right corner of the photo. Some printer models may not print the date and time properly. The camera will not display the date and time if: <ul style="list-style-type: none"> - you select Text in SCN mode - you select Panorama mode 	
Auto Power Off	<p>Set the camera to automatically turn off when you perform no operations for a specified period. (Off, 1 min, 3 min*, 5 min, 10 min)</p>  <ul style="list-style-type: none"> Your settings will not change when you replace the battery. The camera will not automatically turn off when the camera is connected to a computer or printer, and when you are playing a slide show or videos. 	
AF Lamp	<p>Set a light to automatically turn on in dark places to help you focus. (Off, On*)</p>	

Item	Description	* Default
Format	<p>Format the internal memory and the memory card. Formatting will delete all files, including protected files. (No, Yes)</p>  <p>Errors can occur if you use a memory card formatted by another brand of camera, a memory card reader, or a computer. Please format memory cards in the camera before using them to capture photos.</p>	
Reset	<p>Reset menus and shooting options. Date and time, language, and video output settings will not be reset. (No, Yes)</p>	
Anynet+ (HDMI-CEC)	<p>Turn on to control the camera with a TV remote control when you connect it to an HDTV that supports the Anynet+(CEC) profile.</p> <ul style="list-style-type: none"> Off: View files without using an HDTV remote control. On*: Control the camera with an HDTV remote control. 	

* Default

Item	Description
HDMI Size	<p>Set the resolution of photos when the camera plays back files on an HDTV via the HDMI cable. (NTSC: 1080i*, 720p, 480p/ PAL: 1080i*, 720p, 576p)</p>  <ul style="list-style-type: none"> If the HDTV does not support the selected resolution, the HDTV automatically selects the next lower resolution. If you select 480p or 576p, the playback menus and Smart Album will not be available when you connect the camera to a TV.
Video Out	<p>Set the video signal output for your region.</p> <ul style="list-style-type: none"> 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

* Default

Item	Description
USB	<p>Select the mode to use when you connect the camera to a computer or printer with a USB cable.</p> <ul style="list-style-type: none"> Select: Manually select the USB mode when you connect your camera to a device. Computer*: Connect your camera to a computer for transferring files. Printer: Connect your camera to a printer for printing files.
PC Software	<p>Set Intelli-studio to launch automatically when you connect your camera to your computer. (Off, On*)</p>

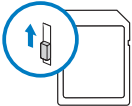
Appendixes

Get information about error messages, specifications, and maintenance.

Error messages	139
Camera maintenance	140
Cleaning your camera	140
Using or storing the camera	141
About memory cards	142
About the battery	145
Before contacting a service center	149
Camera specifications	152
Glossary	156
FCC notice	161
Index	162

Error messages

When the following error messages appear, try these remedies.

Error message	Suggested remedies
Card Error	<ul style="list-style-type: none">• Turn off your camera, and then turn it on again.• Remove your memory card, and then insert it again.• Format your memory card.
Card Locked	<p>You can lock an SD, SDHC, or SDXC card to prevent files from being deleted. Unlock the card when shooting.</p> 
Card not supported.	<p>The inserted memory card is not supported by your camera. Insert a SD, SDHC, or SDXC memory card.</p>
DCF Full Error	<p>File names do not match the DCF standard. Transfer the files from the memory card to your computer and format the card. Then, open the Settings menu and select File No. → Reset. (p. 113)</p>

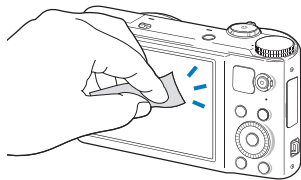
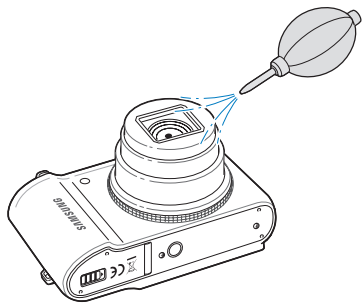
Error message	Suggested remedies
File Error	<p>Delete the damaged file or contact a service center.</p>
File system not supported.	<p>Your camera does not support the FAT file structure of the inserted memory card. Format the memory card on the camera.</p>
Low Battery	<p>Insert a charged battery or recharge the battery.</p>
Memory Full	<p>Delete unnecessary files or insert a new memory card.</p>
No Image File	<p>Capture photos or insert a memory card that contains some photos.</p>

Camera maintenance

Cleaning your camera

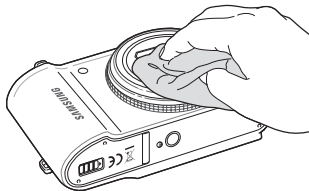
Camera lens and display

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

Using or storing the camera

Inappropriate places to use or store the camera

- Avoid exposing the camera to very cold or very hot temperatures.
- Avoid using your camera in areas with extremely high humidity, or where the humidity changes drastically.
- Avoid exposing the camera to direct sunlight and storing it in hot, poorly-ventilated areas, such as in a car during summer time.
- Protect your camera and the display from impact, rough handling, and excessive vibration to avoid serious damage.
- Avoid using or storing your camera in dusty, dirty, humid, or poorly-ventilated areas to prevent damage to moving parts and internal components.
- Do not use your camera near fuels, combustibles, or flammable chemicals. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the camera or its accessories.
- Do not store the camera where there are mothballs.

Using on beaches or shores

- Protect your camera from sand and dirt when you use it on beaches or in similar areas.
- Your camera is not waterproof. Do not handle the battery, adapter, or memory card with wet hands. Operating the camera with wet hands may cause damage to your camera.

Storing for extended period of time

- When you store the camera for an extended period, place it in a sealed container with an absorbent material, such as silica gel.
- Remove the batteries from your camera when storing it for an extended period. Installed batteries may leak or corrode over time and cause serious damage to your camera.
- Over time, unused batteries will discharge and must be recharged before use.

Using the camera with caution in humid environments

When you transfer the camera from a cold environment to a warm one, condensation can form on the lens or internal components of the camera. In this situation, turn off the camera and wait for at least 1 hour. If condensation forms on the memory card, remove the memory card from the camera and wait until all moisture has evaporated before reinserting it.

Other cautions

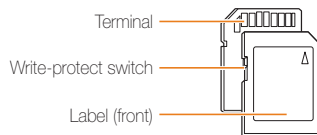
- Do not swing your camera by the strap. This may cause injury to yourself or others or damage to your camera.
- Do not paint your camera, as paint can clog moving parts and prevent proper operation.
- Turn off the camera when not using it.
- Your camera contains delicate parts. Avoid impacts to the camera.
- Protect the display from external force by keeping it in the case when not in use. Protect the camera from scratches by keeping it away from sand, sharp implements, or loose change.
- Do not expose the lens to direct sunlight, as this may discolor the image sensor or cause it to malfunction.
- Protect the lens from fingerprints and scratches. Clean the lens with a soft, clean, debris-free lens cloth.
- The camera may turn off if struck or dropped. This is to protect the memory card. Turn on the camera to use it again.
- While you use the camera, it may heat up. This is normal and should not affect your camera's lifespan or performance.
- When you use the camera in low temperatures, it may take some time to turn on, the color of the display may be changed temporarily, or after-images may appear. These conditions are not malfunctions and they will correct themselves when the camera is returned to milder temperatures.

- Paint or metal on the outside of the camera may cause allergies, itchy skin, eczema, or swelling for people with sensitive skin. If you experience any of these symptoms, stop using the camera immediately and consult a doctor.
- Do not insert foreign objects into any of your camera's compartments, slots, or access points. Damage due to improper use may not be covered by your warranty.
- Do not allow unqualified personnel to service the camera or attempt to service the camera yourself. Any damage that results from unqualified service is not covered by your warranty.

About memory cards

Supported memory cards

Your camera supports SD, SDHC, or SDXC memory cards.



You can prevent files from being deleted by using the write-protect switch on an SD, SDHC, or SDXC card. Slide the switch down to lock or slide it up to unlock. Unlock the card when capturing photos and videos.

Memory card capacity

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

Photo

Size	Super Fine	Fine	Normal
	XXX	XXX	XXX
	XXX	XXX	XXX
	XXX	XXX	XXX
	XXX	XXX	XXX
	XXX	XXX	XXX
	XXX	XXX	XXX
	XXX	XXX	XXX
	XXX	XXX	XXX

Video

Size	1000fps	440fps	250fps	30fps
FULL HD 1920X1080	-	-	-	Approx. XX' XX"
HD 1280X720	-	-	-	Approx. XX' XX"
VGA 640X480	-	-	-	Approx. XX' XX"
368 368X272	-	-	Approx. XX' XX"	-
368 368X272	-	Approx. XX' XX"	-	-
112 112X80	Approx. XX' XX"	-	-	-

* The figures above are measured without using the zoom function. Available recording time may vary if you use the zoom. Several videos were recorded in succession to determine the total recording time.

Cautions when using memory cards

- Avoid exposing memory cards to very cold or very hot temperatures (below 0 °C/32 °F or above 40 °C/104 °F). Extreme temperatures can cause memory cards to malfunction.
 - Insert a memory card in the correct direction. Inserting a memory card in the wrong direction may damage your camera and memory card.
 - Do not use memory cards that have been formatted by other cameras or by a computer. Reformat the memory card with your camera.
 - Turn off the camera when you insert or remove the memory card.
 - Do not remove the memory card or turn off your camera while the lamp is blinking, as this may damage your data.
 - When the lifespan of a memory card has expired, you cannot store any more photos on the card. Use a new memory card.
 - Do not bend, drop, or subject memory cards to heavy impact or pressure.
 - Avoid using or storing memory cards near strong magnetic fields.
 - Avoid using or keeping memory cards in areas with high temperature, high humidity, or corrosive substances.
- Prevent memory cards from making contact with liquids, dirt, or foreign substances. If dirty, wipe the memory card clean with a soft cloth before you insert the memory card in your camera.
 - Do not allow liquids, dirt, or foreign substances to come in contact with memory cards or the memory card slot. Doing so may cause memory cards or the camera to malfunction.
 - When you carry a memory card, use a case to protect the card from electrostatic discharges.
 - Transfer important data to other media, such as a hard disk, CD, or DVD.
 - When you use the camera for an extended period, the memory card may become warm. This is normal and does not indicate a malfunction.



The manufacturer is not responsible for any loss of data.

About the battery

Use only Samsung-approved batteries.

Battery specifications

Specification	Description
Model	SLB-10A
Type	Lithium-ion battery
Cell capacity	1050 mAh
Voltage	3.7 V
Charging time* (when the camera is switched off)	Approximately 150 min

* Charging the battery by connecting it to a computer may take longer.

Battery life

Average shooting time/ Number of photos		Test conditions (when the battery is fully charged)
Photos	Approximately XXX min/ Approximately XXX photos	<p>The battery life was measured under the following conditions: in P mode, in darkness, 4K resolution, Fine quality, OIS on.</p> <ol style="list-style-type: none"> 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, waiting 30 seconds between each step. Repeat the process for 5 minutes, and then turn off the camera for 1 minute. 4. Repeat steps 1 to 3.
Videos	Approximately XX min	Record videos at FULL HD resolution and 30 FPS.

- The figures above are measured by Samsung's standards. Your results may differ, depending on your 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.

Low battery message

When the battery has fully discharged, the battery icon will turn red and the "Low Battery" message will appear.

Notes about using the battery

- Avoid exposing batteries to very cold or very hot temperatures (below 0 °C/32 °F or above 40 °C/104 °F). Extreme temperatures can reduce the charging capacity of your batteries.
- When you use the camera for an extended period, the area around the battery chamber may become warm. This does not affect the normal use of the camera.
- Do not pull the power supply cord to disconnect the plug from the power outlet, as this may cause a fire or electric shock.
- In temperatures below 0 °C/32 °F, battery capacity and battery life may decrease.
- Battery capacity may decrease in low temperatures but will return to normal in milder temperatures.

Cautions about using the battery

Protect batteries, chargers, and memory cards from damage

Prevent batteries from making contact with metal objects, as this can create a connection between the + and – terminals of your battery and lead to temporary or permanent battery damage and may cause a fire or electric shock.

Notes about charging the battery

- If the indicator light is off, make sure that the battery is inserted correctly.
- If the camera is on while charging, the battery may not fully charge. Turn off the camera before charging the battery.
- Do not use your camera when you charge the battery. This may cause a fire or electric shock.
- Do not pull the power supply cord to disconnect the plug from the power outlet, as this may cause a fire or electric shock.
- Let the battery charge for at least 10 minutes before turning on the camera.
- If you connect the camera to an external power source while the battery is depleted, using some high energy-consuming functions will cause the camera to turn off. To use the camera normally, recharge the battery.

- Using the flash or recording videos depletes the battery quickly. Charge the battery until the red indicator light turns off.
- If the status lamp blinks in red, 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 status lamp may blink in red. Charging will start when the battery cools down.
- Overcharging batteries may shorten battery life. After charging is finished, disconnect the cable from your camera.
- 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 charge 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)

Handling and disposing of batteries and chargers with care

- Never dispose of batteries in a fire. Follow all local regulations when you dispose of used batteries.
- Never place batteries or cameras on or in heating devices, such as microwave ovens, stoves, or radiators. Batteries may explode when they are overheated.



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 a service center.
- Use only authentic, manufacturer-recommended battery chargers and adapters and charge the battery only by the methods described in this user manual.
- Do not place the battery near heating devices or expose it 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.
- Do not expose the battery to sources of 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 you contact a service center. If you have attempted the suggested remedy 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	<ul style="list-style-type: none">• Ensure that the battery is inserted.• Ensure that the battery is inserted correctly. (p. 17)• Charge the battery.
The power turns off suddenly	<ul style="list-style-type: none">• Charge the battery.• Your camera may be in Power save mode. (p. 112)• 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	<ul style="list-style-type: none">• The battery may lose power more quickly in low temperatures (below 0 °C/32 °F). 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 capture photos	<ul style="list-style-type: none">• There is no space on the memory card. Delete unnecessary files or insert a new card.• Format the memory card.• 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 you use the camera, it may heat up. This is normal and should not affect your camera's lifespan or performance.
The flash does not work	<ul style="list-style-type: none">• The flash option may be set to Off. (p. 60)• You cannot use the flash in some modes.

Situation	Suggested remedies
The flash fires unexpectedly	The flash may fire due to static electricity. The camera is not malfunctioning.
The date and time are incorrect	Set the date and time in the display settings. (p. 113)
The display or buttons do not work	Remove the battery, and then insert it again.
The camera display responds 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	<ul style="list-style-type: none"> • Turn off your camera, and then turn it on again. • Remove your memory card, and then insert it again. • Format your memory card. See "Cautions when using memory cards" for more detail. (p. 122)
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 the files on your computer.

Situation	Suggested remedies
The photo is blurry	<ul style="list-style-type: none"> • Make sure that the focus option you set is suitable for close-up shots. (p. 63) • Make sure that the lens is clean. If not, clean the lens. (p. 118) • Make sure that the subject is within range of the flash. (p. 131)
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. 74)
The photo is too bright	Your photo is overexposed. <ul style="list-style-type: none"> • Turn off the flash. (p. 60) • Adjust the ISO sensitivity. (p. 62) • Adjust the exposure value. (p. 72)
The photo is too dark	Your photo is underexposed. <ul style="list-style-type: none"> • Turn on the flash. (p. 60) • Adjust the ISO sensitivity. (p. 62) • Adjust the exposure value. (p. 72)

Situation	Suggested remedies
The TV does not display your photos	<ul style="list-style-type: none"> • Make sure that the camera is correctly connected to the TV with the A/V cable. • Make sure that your memory card contains photos.
Your computer does not recognize your camera	<ul style="list-style-type: none"> • 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	Videos may not play on some video player programs. To play video files captured with your camera, install and use the Intelli-studio program on your computer. (p. 104)

Situation	Suggested remedies
Intelli-studio is not functioning properly	<ul style="list-style-type: none"> • End Intelli-studio and restart the program. • You cannot use Intelli-studio on Macintosh computers. • Make sure that PC Software is set to On in the settings menu. (p. 115) • Depending on your computer's specifications and environment, the program may not launch automatically. In this case, click Start → My Computer → Intelli-studio → iStudio.exe on your computer.
Your TV or computer cannot display photos and videos that are stored on an SDXC memory card.	SDXC memory cards use the exFAT file system. Ensure that the external device is compatible with the exFAT file system before connecting the camera to the device.
Your computer does not recognize an SDXC memory card.	SDXC memory cards use the exFAT file system. To use SDXC memory cards on a Windows XP computer, download and update the exFAT file system driver from the Microsoft website.

Camera specifications

Image sensor	
Type	1/2.3" (Approximately 7.76 mm) BSI CMOS
Effective pixels	Approximately 16.2 mega-pixels
Total pixels	Approximately 16.8 mega-pixels
Lens	
Focal length	Schneider-KREUZNACH 21x Zoom Lens f = 4.1-86.1 mm (35 mm film equivalent: 23-483 mm)
F-stop range	F2.8 (W)-F5.9 (T)
Zoom	<ul style="list-style-type: none"> Still image mode: 1.0-4.0X (Optical zoom X Digital zoom: 84.0X, Smart zoom X Digital zoom: 5.3X) Playback mode: 1.0-9.4X (depending on image size)
Display	
Type	AMOLED
Feature	3.0" (7.62 cm) 921K
Focusing	
Type	TTL auto focus (Multi AF, Center AF, Selection AF, Manual Focus, Face Detection AF, Tracking AF, Smart Face Recognition AF)

Range	Wide (W)	Tele (T)
	Normal (AF)	80 cm-infinity
Macro	5-80 cm	100-350 cm
Auto Macro	5 cm-infinity	100 cm-infinity
Manual Focus	5 cm-infinity	100 cm-infinity

Shutter speed

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

Exposure









Control	Program AE, Shutter AE, Aperture Priority AE, Manual Exposure
Metering	Multi, Spot, Center-weighted, Face Detection
Compensation	±2EV (1/3 EV Step)
ISO equivalent	Auto, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200

Camera specifications

Flash	
Mode	Smart Auto, Auto, Red-eye, Fill in, Slow Sync, Off, Red-eye Fix
Range	<ul style="list-style-type: none"> • Wide: 0.3-3.35 m (ISO Auto) • Tele: 0.5-1.85 m (ISO Auto)
Recharging time	Approximately 4 sec.
Shake reduction	
DUAL IS [Optical Image Stabilization (OIS) + Digital Image Stabilization (DIS)]	
Effect	
Photo Shooting mode	<ul style="list-style-type: none"> • Smart Filter: Normal, Miniature, Vignetting, Ink Painting, Oil Painting, Cartoon, Cross Filter, Sketch, Soft Focus, Fish-eye, Old Film, Half Tone Dot, Classic, Retro, Zooming Shot • Image Adjust: Contrast, Sharpness, Saturation
Video Shooting mode	Smart Filter: Normal, Palette Effect 1, Palette Effect 2, Palette Effect 3, Palette Effect 4, Miniature, Vignetting, Half Tone Dot, Sketch, Fish-eye, Classic, Retro
White Balance	
Auto WB, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom Set, Color Temp.	

Date Imprinting	
Date & Time, Date, Off	
Shooting	
Photos	<ul style="list-style-type: none"> • Modes: Smart Auto (Portrait, Night Portrait, Backlight Portrait, Night, Backlight, Landscape, White, Natural Green, Blue Sky, Sunset, Macro, Macro text, Macro Color, Tripod, Action, Fireworks), Program, Aperture Priority, Shutter Priority, Manual, Scene (Beauty Shot, Night, Landscape, Text, Sunset, Dawn, Backlight, Beach & Snow), Magic Plus (Panorama, 3D Photo, Magic Frame, Split Shot, Picture in Picture, Artistic Brush, HDR), GPS • Burst: Single, High-speed (10fps, 5fps, 3fps), Precapture, Bracket (WB, AE) • Timer: 10 Sec, 2 Sec, Double
	<ul style="list-style-type: none"> • Modes: Smart Scene Detection (Landscape, Blue Sky, Natural Green, Sunset), Movie • Format: MP4 (H.264) (Max recording time: 20 min) • Size: 1920X1080, 1280X720, 640X480 • Frame Rate: 30fps, 15fps (only in some Smart Filter options) • High-speed: 1000fps(112X80), 440fps (224X160), 250fps (368X272) • Sound Alive: Sound Alive On, Sound Alive Off, Mute • Audio Zoom • Video editing (embedded): Pause during recording, Still image capture
Videos	

Playback	
Photos	<ul style="list-style-type: none"> Type: Single image, Thumbnails, Multi Slide Show with Music and Effect, Movie clip, Smart Album*, Creative Movie Maker * Smart Album category: Type, Date, Week, Face, Location, Landmark Edit: Resize, Rotate, Image Adjust, Smart Filter, Trim Effect: Image Adjust (Red-eye Fix, Face Retouch, Brightness, Contrast, Saturation, Add Noise), Smart Filter (Normal, Miniature, Vignetting, Ink Painting, Oil Painting, Cartoon, Cross Filter, Sketch, Soft Focus, Fish-eye, Old Film, Half Tone Dot, Classic, Retro, Zooming Shot)
Videos	Edit: Creative Movie Maker, Still image capture, Time trimming
Storage	
Media	<ul style="list-style-type: none"> Internal memory: Approximately XX MB External memory (Optional): SD card (up to 2 GB guaranteed), SDHC card (up to 32 GB guaranteed), SDXC card (up to 64 GB guaranteed) <p>Internal memory capacity may not match these specifications.</p>

File format	<ul style="list-style-type: none"> Still Image: JPEG (DCF), EXIF 2.21, DPOF 1.1, PictBridge 1.0 Movie Clip: MP4 (Video: MPEG-4.AVC/H.264, Audio: AAC) 				
Image size	For 1 GB SD: Number of photos				
			Super Fine	Fine	Normal
		4608X3456	XXX	XXX	XXX
		4608X3072	XXX	XXX	XXX
		4608X2592	XXX	XXX	XXX
		3648X2736	XXX	XXX	XXX
		2832X2832	XXX	XXX	XXX
		2592X1944	XXX	XXX	XXX
		1984X1488	XXX	XXX	XXX
		1920X1080	XXX	XXX	XXX
	1024X768	XXX	XXX	XXX	
<p>These figures are measured under Samsung's standard conditions. Your results may vary depending on the shooting conditions and camera settings.</p>					

Camera specifications

Interface

Digital output connector	USB 2.0
Audio input/output	Internal speaker (Mono), Microphone (Stereo)
Video output	<ul style="list-style-type: none">• A/V: NTSC, PAL (selectable)• HDMI 1.4: NTSC, PAL (selectable)
DC power input connector	4.2 V

Power source

Rechargeable battery	Lithium-ion battery (SLB-10A, 1050 mAh)
Connector type	Micro USB (7 pin)

The power source may differ depending on your region.

Wireless network (WB850F only)

Social Sharing, Email, Microsoft Sky Drive, SmartCamera Link, Remote Viewfinder, Auto Backup, TV Link, Wi-Fi Direct, Authentication Browser

Dimensions (W X H X D)

109.5 X 62.2 X 24.9(35.1) mm (without protrusions)

Weight

XXX g (without battery and memory card)

Operating Temperature

0-40 °C (32-104 °F)

Operating Humidity

5-85 %

Software

Intelli-studio Launcher, Map downloader

Specifications may change without notice to improve performance.

Glossary

AEB (Auto Exposure Bracket)

This feature automatically captures several images at different exposures to help you capture a properly-exposed image.

AF (Auto Focus)

A system that automatically focuses the camera lens on the subject. Your camera uses the contrast to focus automatically.

Aperture

The aperture controls the amount of light that reaches the camera's sensor.

Camera shake (Blur)

If the camera is moved while the shutter is open, the entire image may appear blurred. This occurs more often when the shutter speed is slow. Prevent camera shake by raising the sensitivity, using the flash, or using a faster shutter speed. Alternately, use a tripod, the DIS or OIS function to stabilize the camera.

Composition

Composition in photography means arranging objects in a photo. Usually, abiding by the rule of thirds leads to a good composition.

DCF (Design rule for Camera File system)

A specification to define a file format and file system for digital cameras created by the Japan Electronics and Information Technology Industries Association (JEITA).

Depth of field

The distance between the nearest and farthest points that can be acceptably focused in a photograph. Depth of field varies with lens aperture, focal length, and distance from the camera to the subject. Selecting a smaller aperture, for example, will increase the depth of field and blur the background of a composition.

Digital zoom

A feature that artificially increases the amount of zoom available with a zoom lens (Optical zoom). When using the Digital zoom, the image quality will deteriorate as the magnification increases.

DPOF (Digital Print Order Format)

A format for writing printing information, such as selected images and number of prints, on a memory card. DPOF-compatible printers, sometimes available at photo shops, can read the information from the card for convenient printing.

EV (Exposure Value)

All the combinations of the camera's shutter speed and lens aperture that result in the same exposure.

EV Compensation

This feature allows you to quickly adjust the exposure value measured by the camera, in limited increments, to improve the exposure of your photos. Set the EV compensation to -1.0 EV to adjust the value one step darker and 1.0 EV to one step brighter.

Exif (Exchangeable Image File Format)

A specification to define an image file format for digital cameras created by the Japan Electronic Industries Development Association (JEIDA).

Exposure

The amount of light allowed to reach the camera's sensor. Exposure is controlled by a combination of the shutter speed, the aperture value, and ISO sensitivity.

Flash

A speed light that helps to create adequate exposure in low-light conditions.

Focal length

The distance from the middle of the lens to its focal point (in millimeters). Longer focal lengths result in narrower angles of view and the subject is magnified. Shorter focal lengths result in wider angles of view.

Histogram

A graphical representation of the brightness of an image. The horizontal axis represents the brightness and the vertical axis represents the number of pixels. High points at the left (too dark) and right (too bright) on the histogram indicate a photo that is improperly exposed.

H.264/MPEG-4

A high-compression video format established by international standard organizations ISO-IEC and ITU-T and developed by the Joint Video Team (JVT). This codec is capable of providing good video quality at low bit rates.

Image sensor

The physical part of a digital camera that contains a photosite for each pixel in the image. Each photosite records the brightness of the light that strikes it during an exposure. Common sensor types are CCD (Charge-coupled Device) and CMOS (Complementary Metal Oxide Semiconductor).

ISO sensitivity

The sensitivity of the camera to light, based on the equivalent film speed used in a film camera. At higher ISO sensitivity settings, the camera uses a higher shutter speed, which can reduce blur caused by camera shake and low light. However, images with high sensitivity are more susceptible to noise.

JPEG (Joint Photographic Experts Group)

A lossy method of compression for digital images. JPEG images are compressed to reduce their overall file size with minimal deterioration of the image resolution.

LCD (Liquid Crystal Display)

A visual display commonly used in consumer electronics. This display needs a separate backlight, such as CCFL or LED, to reproduce colors.

Macro

This feature allows you to capture close-up photos of very small objects. When using the macro feature, the camera can maintain a sharp focus on small objects at a near life-size ratio (1:1).

Metering

The metering refers to the way in which the camera measures the quantity of light to set the exposure.

MJPEG (Motion JPEG)

A video format which is compressed as a JPEG image.

MPO (Multi Picture Object)

An image file format that contains multiple images in a file. An MPO file provides a 3D effect on MPO-compatible displays, such as 3D TVs or 3D monitors.

Noise

Misinterpreted pixels in a digital image that may appear as misplaced or random, bright pixels. Noise usually occurs when photos are shot with a high sensitivity or when a sensitivity is automatically set in a dark place.

Optical zoom

This is a general zoom which can enlarge images with a lens and does not deteriorate quality of images.

Quality

An expression of the rate of compression used in a digital image. Higher quality images have a lower rate of compression, which usually results in a larger file size.

Resolution

The number of pixels present in a digital image. High resolution images contain more pixels and typically show more detail than low resolution images.

Shutter speed

Shutter speed refers to the amount of time it takes to open and close the shutter, and it is an important factor in the brightness of a photo, as it controls the amount of light which passes through the aperture before it reaches the image sensor. A fast shutter speed allows less time to let light in and the photo becomes darker and more easily freezes subjects in motion.

Smart zoom

Smart zoom lets you zoom in with less degradation of picture quality than the optical zoom and digital zoom.

Vignetting

A reduction of an image's brightness or saturation at the periphery (outer edges) compared to the center of the image. Vignetting can draw interest to subjects positioned in the center of an image.

White balance (color balance)

An adjustment of the intensities of colors (typically the primary colors red, green, and blue), in an image. The goal of adjusting the white balance, or color balance, is to correctly render the colors in an image.



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

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

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



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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.

Dispose unwanted electronics through an approved recycler.
To find the nearest recycling location, go to our website:
www.samsung.com/recyclingdirect Or call, (877) 278 - 0799

FCC notice

- **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.

- **CAUTION:**

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

- **Declaration of Conformity**

Trade Name	: Samsung Electronics America, Inc.
Model No.	: Samsung WB850/WB850F
Responsible Party	: Samsung Electronics America, Inc.
Address	: 85 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.

FCC/IC notice

FCC RF Radiation Exposure Statement: This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 5mm between the radiator and your body.

RF du FCC d'exposition aux radiations: Cet équipement est conforme à l'exposition de la FCC rayonnements RF limites établies pour un environnement non contrôlé. Cet appareil et son antenne ne doivent pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur.

Cet équipement doit être installé et utilisé avec une distance minimale de 5mm entre le radiateur et votre corps.

IC: 649E-WB850F

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Index

A

AF-assist light

- Location 16
- Settings 136

AF Lamp 136

AF Sound 134

AllShare 123

Anynet+ 136

Aperture Priority mode 45

Aperture value 44

Auto Backup 128

A/V port 16

B

Battery

- Caution 146
- Charging 20
- Inserting 19

Beauty Shot mode 41

Blink Detection 71

Brightness

- Playback mode 100
- Shooting mode 74

Burst modes

- Bracket 80
- High-speed 79
- Precapture 80

C

Camera maintenance 140

Camera specifications 152

Capturing an image from video 96

Charging 20

Cleaning

- Camera body 140
- Display 140
- Lens 140

Connecting to a computer

- Mac 110
- Windows 105

Contrast

- Playback mode 100
- Shooting mode 84

D

Date/Time Set 135

Deleting files 91

Device Information 135

Digital Print Order Format (DOF) 100

Digital zoom 30

Disconnecting the camera 109

Display brightness 134

Display type 27

DUAL IS mode 48

E

Editing photos 97

Editing videos

- Capturing 96
- Trimming 95

Enlarging 92

Error messages 139

Exposure 74

F

Face Detection 69

Flash

- Auto 62
- Fill in 63
- Intensity 63

Off 62
Red-eye 63
Red-eye Fix 63
Slow Sync 63

Focus area

Center AF 68
Multi AF 68
Selection AF 68
Tracking AF 68

Formatting 136

Function button 18

G

Grid Line 134

H

Half-press shutter 33

HDMI Size 137

HDR mode 39

HDTV 103

I

Icons

Playback mode 86
Shooting mode 23

Image Adjustment

Add Noise 100
Brightness
Playback mode 100
Shooting mode 74
Contrast
Playback mode 100
Shooting mode 84
Red-eye 99
Saturation
Playback mode 100
Shooting mode 84
Sharpness 84

Image quality 60

Imprint 136

Intelli-studio 107

ISO sensitivity 64

L

Language settings 135

M

Macro

Auto Macro 66
Macro 66
Manual Focus 66

Magic Frame mode 40

Manual mode 47

Memory card

Caution 144
Insert 19

Menu button 18

Metering

Center-weighted 75
Multi 75
Spot 75

Mode dial 16

Movie mode 52

My star

Cancelling 88
Ranking 87
Registering 72

O

Optical Image Stabilization (OIS) 32

Optional accessories 15

P

Panorama

3D Panorama 49
Action Panorama 51
Live Panorama 49

PictBridge 111

Playback button 18

Playback mode 86

Power button 16

Power save mode 134

Printing photos 111

Program mode 43

Protecting files 90

Q

Quick view 134

R

Red-eye

Playback mode 99

Shooting mode 62

Remote Viewfinder 121

Reset 136

Resolution

Playback mode 97

Shooting mode 59

Retouching faces

Playback mode 99

Shooting mode 41

Rotating 97

S

Saturation

Playback mode 100

Shooting mode 84

Scene mode 38

Self portrait 70

Service center 149

Settings 135

Sharpness 84

Shooting portraits

Beauty Shot mode 41

Blink Detection 71

Face Detection 69

Red-eye 63

Red-eye fix 63

Self portrait 70

Smart Face Recognition 71

Smile Shot 70

Shutter button 16

Shutter Priority mode 46

Slide show 94

Smart Album 89

Smart Auto mode 36

Smart Face Recognition 71

Smart Filter

Playback mode 98

Shooting mode 82

Smart Scene Detection
mode 55

Smart zoom 31

Smile Shot 70

Sound settings 28

Status lamp 17

T

Thumbnails 90

Timer

Timer lamp 16

Time settings 21

Time zone settings 21, 135

Transferring files

Auto Backup 128

Camera to Camera 126

Email 116

Mac 110

Windows 105

Tripod mount 16

U

Unpacking 15

USB port 16

V

Video

Playback mode 95

Shooting mode 52

Video out 137

Viewing files

- Folder 88
- Slide show 94
- Smart Album 89
- Thumbnails 90
- TV 102

3

- 3D Photo mode 39
- 3D TV 104

W

Website

- Accessing 120
- Uploading photos or videos
120

White Balance 76

Wireless network 113

Z

Zoom

- Using the zoom 30
- Zoom button 17
- Zoom sound settings 52

Zooming Shot mode 42



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

