8

Camera & Imaging

Getting Started

Capture still images or record video.

Detect Personal

Register faces; related information appears in Viewfinder upon face detection.

Continuous AF

Focus continuously adjusts as the framed subject's position changes.

Select Camera

943SH is loaded with preset camera modes tailored for various purposes/ occasions; select a camera mode to suit subject/shooting conditions.

Album

Sort saved images into up to 500 albums; create original albums as needed.

Important Mobile Camera Usage Notes

- Clean dust/smudges from lens cover with soft dry cloth before use.
- Mobile camera is a precision instrument, however, some pixels may appear brighter or darker.
- Shooting/saving images while handset is hot may affect the image quality.
- Exposing lens to direct sunlight may damage color filter and affect image color.

Auto Shut-off

- Before image capture/recording, mobile camera shuts down after a period of inactivity and handset returns to Standby.

Shutter Click

- Shutter click and Self-timer tone sound at fixed volume regardless of handset settings.

Cycloid Position

- Activate mobile camera and rotate Display to Cycloid position to capture images/record in wideview.
  - Image/recording size changes accordingly.

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Camera & Imaging

Advanced

🖐 ●Changing function assigned to Camera Key (🗖) ●Opening Help (**P.8-27**)

Photo Camera & Video Camera Overview

Focus modes and sizes shown below are defaults (sizes are for portrait position); those with * are fixed.

		Description	Focus Mode	Size
Standard Shooting	**Easy Auto Camera**	Capture nearby subjects easily (settings partially changeable)	Normal(Portrait)*	8M
	Pro Auto Camera	Capture nearby subjects easily (settings mostly changeable)	Normal(Portrait)	8M
	Quick Camera	Capture distant scenery quickly	Manual Focus*	3M
Subject & Conditions	**Scene Cameras**	Select one according to subject/shooting conditions	Normal(Portrait)*	8M
	Monochrome Camera	Capture black and white images	Normal(Portrait)*	8M
	Sepia Camera	Capture sepia images	Normal(Portrait)*	8M
	Long Exposure Camera	Capture images in low light (fireworks, night scenes, etc.)	Normal(Portrait)*	8M
Specific Objectives	**Wallpaper Camera**	Show mock Clock/Calendar in Viewfinder to capture image and set it as Wallpaper	Normal(Portrait)	Wallpaper*
	Auction Camera	Use guide to capture multiple images for posting on auction sites	Center Auto Focus	VGA
	Messaging Camera	Capture and send images via mail easily	Normal(Portrait)*	VGA
	Blog Camera	Capture and post images to blogs easily	Normal(Portrait)	VGA

8 Camera & Imaging

		Description	**Focus Mode**	**Size**
Auto Shutter Release	**Look Back Camera**	Play whistle sound and release shutter automatically when subject turns face to camera	Normal(Portrait)*	8M
	Smile Camera	Release shutter automatically when subject smiles	Normal(Portrait)*	8M
	Self Timer Camera	Release shutter automatically after selected time elapses	Normal(Portrait)*	8M
Special Shooting	**Shooting Camera**	Capture up to nine images consecutively	Normal(Portrait)	Wallpaper
	Panorama Camera	Capture panoramic images of scenery, etc.	Center Auto Focus	—
	Scanner Camera	Move handset to scan the area to capture	Center Auto Focus	Free
Additional Cameras	**Pretty Arrange Camera**	Touch up faces in captured images	Normal(Portrait)*	3M
	Self Portrait Camera	Use guide to capture self portraits	Normal(Portrait)*	3M
	Face Register Camera	Register name and note for faces	Normal(Portrait)*	VGA*
Video Camera	**Fine Video Camera**	Record long high quality video	Auto Focus	Wide
	Video Camera for Mail	Record short video easily to send it via mail	Auto Focus	QCIF

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Camera & Imaging

Capturing Still Images

Follow these steps to capture someone's image using *Easy Auto Camera*:
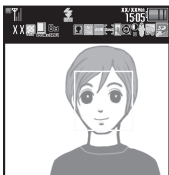
1. **⬛ ➡ Frame subject on Display**

Photo Viewfinder

● Focus is locked on faces automatically for Easy Auto Camera, Pro Auto Camera, etc. (Portrait auto focus)
■ When multiple faces are detected, frame appears on each face; use ☺ to select one on which to lock focus.
■ Detection may fail depending on face angle, distance from subject or environment.

2. **●**

Captured Image Window

● Shutter clicks; captured image is saved.
● Open saved images via Review or Data Folder.

3. **●**
● Viewfinder returns.

4. **🔲 ➡ Camera shuts down**

Sending Captured Images at High Speed via Infrared
　[Captured Image Window] ⓨ (Long) ➡ *Yes* or *No* ➡ ●
■ Set recipient device to ready beforehand.

Sending Captured Images via Mail
　[Captured Image Window] ⓨ ➡ Complete message ➡ ⓨ

Detect Personal
● Register name, note, etc. for faces; entered information appears in Viewfinder upon face detection.

Mobile Light
● Mobile Light may illuminate automatically depending on ambient light level or camera mode. Follow these steps to turn setting off:
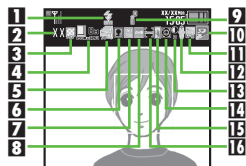　[Photo Viewfinder] ⓜ ➡ *Mobile Light* ➡ ● ➡ *Off* ➡ ●

Advanced

🖐 ●Selecting Self-timer time/repeat interval ●Changing image size ●Changing focus frame design ●Changing shutter click sound ●Changing save location ●Changing Mobile Light mode (And more on **P.8-27** - **8-28**)

Photo Viewfinder Indicators

1	Mobile Light	9	Remote Shutter
2	Memory	10	Background Save
3	Picture Quality		Save to
4	Picture Size	11	Auto Save
5	Continuous Type	12	Image Orientation
	Long Exposure	13	Exposure
6	Scene	14	Focus
7	ISO Sensitivity	15	Shake Reducing
	Self-timer	16	Shutter Mode
8	White Balance		

■ Showing Large Indicators

Press 💬 in Photo Viewfinder to show large indicators along the edges of Display.

Press 💬 to toggle indicator view (Icon On, Icon Off and Guidance).

Accessing Settings via Indicators
While indicators appear, use 🔲 to select function ➡ ●
- Press 🔲 to toggle functions.

Pre-Image Capture Operations

Zoom In/Out	⑤/ⓠ
Toggle Mode	ⓨ (Long)
Adjust Brightness	◉/◉
Change Image Size	4ᵈ
Toggle Mobile Light Mode	#⬝
Open Help	0ᵘ

Press 🗨 to open Options menu for more functions/settings.

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Camera & Imaging

Advanced

🖐 ●Correcting portrait auto focus images (And more on **P.8-29**)

8-6

Focus Lock

Lock focus on subject; camera continuously focuses on the subject even if it moves. Chase Focus tracks the subject's movement, and Continuous AF adjusts focus as the distance to the subject changes.

1 **In Photo Viewfinder, frame subject in center of Display**

2 🖾
● Focus Lock is set.

3 ●
● Captured image appears.
● Press ● to return to Viewfinder.

Canceling Focus Lock
● Press 🖾.

Chase Focus
● Camera distinguishes the subject by color; light-colored subjects or subjects having the same color as the background may not be tracked correctly.

Image Size & Print/Display Size

943SH Picture Size & Corresponding Print/Display Size:

8M	A4 prints
5M	B5 prints
3M	L to 2L prints
Full HD	Full HD display wallpaper[*]
Wallpaper	943SH Wallpaper
VGA	VGA display wallpaper[*]
QVGA	QVGA display wallpaper[*]

[*]For image specifications, see **P.17-20** "Photo Camera."

Auto Resize Zoom
● At *8M*, Picture Size changes with zoom scale (print quality may be affected); check the size on indicator before image capture.

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Camera & Imaging

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Selecting Camera by Use

Switching Cameras

¹In Photo Viewfinder, ☺ ➡ *Switch Camera* ➡ ●

[Easy Auto Cam]

Ease and beauty with auto. Good for first time users.

● Alternatively, in Main Menu, *Camera* ➡ *Various Cameras* to select camera.

²Select camera ➡ ●
● Selected camera activates.
● For subsequent operations, see "Using Selected Camera."

Using Selected Camera

■ **Shooting Camera**

¹Frame subject on Display ➡ ●

1/4

● After image capture, the first preview image appears.

²● (Long)
● All captured images are saved.

Saving Selected Images
After ¹, ☺ (select image) ➡ ●

■ **Look Back Camera**

¹Frame subject on Display ➡ 🔲
● Whistle sound plays.

²Face detection activates, and shutter releases; image appears

³●
● Viewfinder returns.

■ **Smile Camera**

¹Frame subject on Display

²Smile detection activates, and shutter releases; image appears

³●
● Viewfinder returns.

Advanced

🔧 ●Adjusting smile detection level ●Changing continuous shooting mode ●Changing Look Back Camera sound (**P.8-28**)

■ **Self Timer Camera**

1 **Frame subject on Display** ➡ ●
   - Countdown starts.

2 **Shutter releases after approximately ten seconds; image appears**

3 ●
   - Viewfinder returns.

■ **Wallpaper Camera**

1 **Frame subject on Display** ➡ ●
   - Wallpaper preview appears.

2 (Y')
   - Image is set as Wallpaper. (Viewfinder returns.)

■ **Auction Camera**

1 **Frame subject on Display** ➡ ●
   - First preview image appears.

2 ●
   - Repeat 1 - 2 to capture two more images following onscreen instructions.

3 *Yes* ➡ ●

■ **Messaging Camera**

1 **Frame subject on Display** ➡ ●

2 (Y')
   - Mail Composition window opens. Complete and send message.

■ **Pretty Arrange Camera**

1 **Frame subject on Display** ➡ ●

2 2½

   | 1 👩 | 2 👩 | 3 👩 |
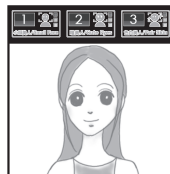
   - Face is touched up.

3 ● ➡ ●
   - Viewfinder returns.

Adjusting Each Effect Separately
   After 2, 1½ **(Small Face),** 2½ **(Cute Eyes) or** 3½ **(Fair Skin)** ➡ 3
Editing Images
   After 1, 1½
   ■ For more, see **P.8-22** "Picture Editor."

8 **Camera & Imaging**

Advanced

✎ ●Selecting Self-timer time/repeat interval (**P.8-27**)
   ●Changing Clock/Calendar type for Wallpaper Camera (**P.8-28**)

■ **Panorama Camera**

1 **Frame subject on Display**
   ➡ ●

2 **Move handset slowly to keep ⊬ aligned with either of yellow lines**

3 ●
   ● Captured image is saved.
   ● Image is captured automatically when the bar (▊▊▊▊) turns blue.

■ **Self Portrait Camera**

1 **Turn handset around and look into the lens**

2 **Face detection activates, tones sound, and shutter releases; image appears**

3 ●
   ● Viewfinder returns.

Changing Frame Size & Position
[Photo Viewfinder] ☺ ➡ *Set Face Recog. Area* ➡ ● ➡ **Select option** ➡ ●
■ Select *for Pair Shot* to automatically release shutter upon detection of two faces within the white frame.
■ Alternatively, press 🔲 in Photo Viewfinder to toggle frame size/position.

■ **Additional Cameras**

Scene Cameras	
Monochrome Camera	Frame subject on Display ➡ ●
Sepia Camera	
Long Exposure Camera	Frame subject on Display ➡ ● ● Shutter is left open for approximately 30 seconds before image capture.
Blog Camera	Frame subject on Display ➡ ● ➡ ⊙ ➡ Proceed with blogging
Scanner Camera	Frame subject on Display ➡ ● ➡ Move handset slowly to scan the area to capture ➡ ●

8 Camera & Imaging

Advanced

📷 ●Changing panorama/scanner settings ●Previewing panorama image ●Changing panorama image preview method ●Changing exposure time for Long Exposure Camera (**P.8-29**)

Changing & Saving Camera Settings

Change settings according to purpose/shooting conditions; save frequently used settings as *My Camera* for future use.

- Some settings may be unavailable depending on camera mode (no corresponding indicators appear).
- For setting procedures, see **P.8-27** - **8-28**. In addition to these, there are settings unique to each tailored camera.

Major Items

		Description
Focus	**Focus Mode**	Select from *Normal(Portrait)*, *Center Auto Focus*, *Spot Auto Focus*, *Macro* and *Manual Focus*
	Continuous AF	Select whether to adjust focus continuously as focus-locked subject's position changes
	Chase Focus	Select whether to track focus-locked subject automatically as it moves within framed image
	Focus Mark	Select focus frame design from *Pattern 1* to *Pattern 6*
Shutter	**Self-timer**	Select *10 sec.*, *5 sec.*, *2 sec.* or *Off*
	Shutter Mode	Select from *Normal* (manual), *Egao* (smile detection) and *Furimuki* (face detection)
	Shutter Sound	Select shutter click sound from *Pattern 1* to *Pattern 3*
Image Size & Quality	**Picture Size**	Select image size from *8M(2448x3264)* to *QVGA(240x320)* (Portrait) or from *3M(2048x1536)* to *QVGA(320x240)* (Landscape)
	Picture Quality	Select image quality from *High Quality*, *Fine* and *Normal*

		Description
Conditions	**ISO Sensitivity**	Select light sensitivity from *Auto(〜800)* to *Auto(High:〜12800)* and *100* to *12800*
	White Balance	Select *Auto*, *Daylight*, *Cloud/Shade*, *Tungsten* or *Fluorescent* according to lighting conditions
	Exposure	Select amount of light received by camera from *-2* to *+2*
	Mobile Light	Select Mobile Light mode from *On*, *Automatic*, *Low Light* and *Off*
Save Settings	**Save Pictures to**	Select *Memory Card Priority*, *Memory Card Fixed*, *Phone Memory*, *DCIM* or *Ask Each Time*
	Auto Save	Select *ON(Preview Off)*, *On(Preview 2 sec.)*, *On(Preview Manual)* or *Off*
	Background Save	Select whether to enable quick transition to Viewfinder after saving images
Other	**Shake Reducing**	Select shake reduction option from *Auto*, *Auto(Strong)* and *Off*
	Display Setting	Select indicator view from *Guidance*, *Icon On* and *Icon Off*
	Set Send Key	Select send option assigned to ⊙

Changing Settings

Example: Picture Size

1. **In Photo Viewfinder,** ⊠

   Switch Camera

2. *Picture Size* ➡ ●

3. **Select size** ➡ ●
   - Viewfinder returns.

Saving Changed Settings

After image capture, save changed settings with a name and captured image; load saved settings in the same manner as switching cameras.
May be unavailable depending on camera mode.

Saving as My Camera

1. **In captured image window,** ⊠ ➡ *Save as My Camera* ➡ ●
   - Messages appear.

2. **Specify image area**
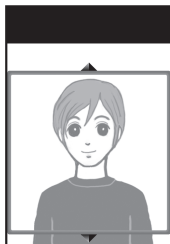
   - The specified portion will be used as the camera's icon.

3. ●

4. *My Camera Name:* ➡ ●

5. **Enter name** ➡ ●

6. ⚈
   - My Camera is created.

Entering Information
After ⊖, *Note:* ➡ ● ➡ Enter text ➡ ● ➡ ⊖

Using My Cameras

1. **In Photo Viewfinder,** ⊠ ➡ *Switch Camera* ➡ ●

2. **Select My Camera** ➡ ●

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Camera & Imaging

Advanced

🖐 ●Deleting My Cameras ●Editing My Cameras (**P.8-29**)

8-13

Registering Faces (Detect Personal)

Register faces; related information
appears in Viewfinder upon face
detection, and captured images are
sorted into albums (Person) when saved.
● Register name, note and priority for up to
ten faces.
● When multiple registered faces are detected,
focus is locked to one with highest priority.
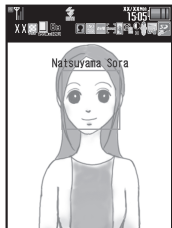
Viewfinder Information

Saving Entries

1 **In Photo Viewfinder,** ⊠

2 *Detect Personal* ➡ ●

3 *Register Face* ➡ ●

> Face in Guide
> frame when in
> frame red, take a
> picture.

4 **Use guide to find best position**
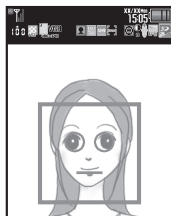
● Guide turns red when face is detected.

5 ●

> Register Face
> 1 Empty
> 2 Empty
> 3 Empty
> 4 Empty

● Window shown above opens when
face is recognized correctly; if not,
repeat 4 - 5.

6 *Empty* ➡ ●

7 *Name:* ➡ ●

8 **Enter name** ➡ ●

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9 ⓨ
- Entry is saved.
- The lower the entry number the higher the priority.

Entering Information
After **8**, *Note:* ➡ ● ➡ Enter text ➡
● ➡ **9**

Setting Text Color
After **8**, *Font Color:* ➡ ● ➡ Select
color ➡ ● ➡ **9**
■ Upon face detection, Viewfinder
information appears in the selected color.

Editing Entries

1 In Photo Viewfinder, ✉

2 *Detect Personal* ➡ ● ➡
Edit Face ➡ ●

Edit Face Window

3 Select entry ➡ ●

Name:
Natsuyama Sora
Note:

4 Select item ➡ ● ➡ Edit in
the same manner as saving
entries

5 ⓨ
- Entry is overwritten.

Deleting/Moving Entries

Follow these steps to delete an entry:

1 In Edit Face window, select
entry ➡ ✉

2 *Delete* ➡ ● ➡ *Yes* ➡ ●
- Entry is deleted.

Moving Entries (Changing Priorities)
After **1**, *Change Priority* ➡ ● ➡
Select target location ➡ ●

Recording Video

Follow these steps to record short video using *Video Camera for Mail*:

1. ● ➡ *Camera* ➡ ●

2. *Video Camera for Mail* ➡ ●
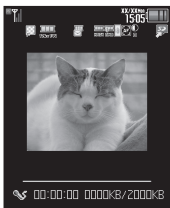
Video Viewfinder
(Video Camera for Mail)

3. **Frame subject on Display** ➡ ●
   - Recording starts after a tone.

4. ●
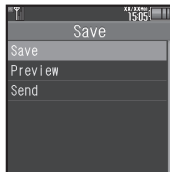
Save
Preview
Send

5. *Save* ➡ ●
   - Video is saved. (Viewfinder returns.)
   - Play saved video via Review, Data Folder or Media Player.

6. 🔚 ➡ **Camera shuts down**

Playing Unsaved Video
   In 5, *Preview* ➡ ●
Incoming Calls
- If a call arrives before video is saved, recorded clip is temporarily saved. End the call to return.
If Battery Runs Low
- Recording stops. (Recorded clip is saved.)
Switching Video Cameras
   [Video Viewfinder] ✉ ➡ *Simple Setting* ➡ ● ➡ Select video camera ➡ ●

Advanced

📷 ●Adjusting focus quickly for close-up shots ●Changing image quality ●Activating Mobile Light ●Capturing images while recording video (still image capture) ●Changing recording size (And more on **P.8-30**)

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Video Viewfinder Indicators
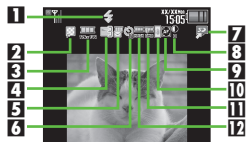
1	Mobile Light	7	Save to
2	Video Quality	8	Exposure
3	Record Size	9	Focus
4	Memory for still image capture	10	Shake Reducing
5	Record Time	11	Audio Encode
6	Self-timer	12	Video Encode

Operations in Video Viewfinder

Zoom In/Out	🔍/🔍
Toggle Mode	🄨 (Long)
Adjust Brightness	⊙/⊙
Toggle Mobile Light Mode	#
Change Quality	✳
Pause/Resume Recording	While Recording, 🄨*
Capture Still Images	While Recording, 🄨
Cancel Recording (Start Over)	⌫
Open Help	0

*Fine Video Camera only. (May be unavailable depending on recording size.)

Press 🄨 to open Options menu for more functions/settings.

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Camera & Imaging

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Opening Saved Images via Album

Basics

Handset sorts saved images into up to 500 albums of the following preloaded categories automatically; create original albums as needed.

Person	Stores portraits sorted into albums by face registered via Detect Personal
Event	Stores images sorted into albums by period scheduled in Calendar
By Camera	Stores images sorted into albums by camera mode
By Date	Stores images sorted into albums by captured date

Album Images & Source Files

● Album stores only file locations. (Source files are saved in Data Folder.) Images disappear from Album if source files are deleted.
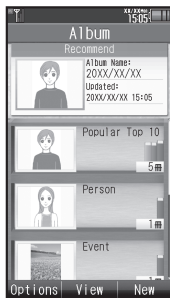
A single image can be sorted into multiple categories (e.g., a portrait captured using a specific camera is stored in **By Camera** and **Person**). In addition, a single image with multiple registered faces will be stored in each subject's album in **Person**.

Opening Albums

1 [📷] (Long)

Album Window

● **Recommend** shows a recently updated album.
● **Popular Top 10** stores ten most frequently opened albums.

2 Select category ➡ ●
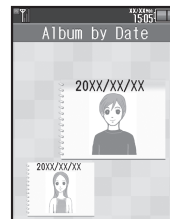
Album List

● Albums within appear.

3 Select album ➜ ●

Image List

4 ⊙ Select image

5 ●
● Image appears.

Opening Latest Album
After **1**, ⊛
Slide Show
After **2**, select album ➜ ⊚ ➜ *Slide Show* ➜ ●
Copying/Moving Images to Other Albums
After **4**, ⊚ ➜ *Past Other Album* (or *Re-Past Other Album*) ➜ ● ➜ Select category ➜ ● ➜ Select album ➜ ●
● Images in By Date or By Camera albums cannot be moved (*Re-Past Other Album* does not appear).

Creating Original Albums

Create new albums by selecting sort keys (from Person, Event and By Camera) and specifying date and time.
Follow these steps to create an album by selecting sort keys from Person and By Camera:

1 In Album window, ⊚ ➜ *Create Original Album* ➜ ●

Original Album

2 *Choose Portrait* ➜ ●

3 Select entry ➜ ●

Choose Portrait

● Repeat **3** to complete selection.

4 ⊛

5 *Select Camera type* ➜ ●

6 Select camera ➜ ●

Camera Type

● Repeat **6** to complete selection.

7 ⊛

8 *Create Album* ➜ ●

9 Enter name ➜ ●

10 *Yes* ➜ ●

Previewing Created Album
After **7**, *Album Preview* ➜ ●
■ To return, press ⬛.
Editing Sort Keys
[Album List] Select album ➜ ⊚ ➜ *Edit Auto Sort Keys* ➜ ● ➜ Select item ➜ ● ➜ Edit ➜ ⊛

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Editing Albums

Some albums may not be edited.

Renaming Albums

1 **In Album window or album list, select album ➡ ✉**

2 *Change Album Name* ➡ ●

3 **Enter name ➡ ●**

Adding Images

Not available for By Date or By Camera albums.

1 **In album list, select album ➡ ✉**

2 *Add Picture* ➡ ●


```
                      XX/XX/XX
                        15:05
            Add Picture
        Picture Folder
        DCIM Folder
```

3 **Select folder ➡ ●**
● For *DCIM Folder*, select a folder and press ●.

4 **Select image ➡ ●**

Adding Images via Data Folder
● ➡ *Data Folder* ➡ ● ➡ *Pictures* or *DCIM* ➡ ● ➡ Select image ➡ ✉ ➡ *Save to Album* ➡ ● ➡ Select category ➡ ● ➡ Select album ➡ ●
■ For *DCIM*, select a folder and press ●.

Deleting Albums

1 **In album list, select album ➡ ✉**

2 *Delete* ➡ ●

3 *Yes* ➡ ●

Adding Comments to Images

1 **In image list, select image ➡ ✉**

2 *Edit Comment* ➡ ●

3 **Enter text ➡ ●**


```
   📶                    XX/XX/XX
                          15:05
                20XX/XX/XX
      15:05
                              Great vi
                              ew!
```

● Entered text appears in image list.

Other Editing Options
● Album image handling is similar to that of Data Folder. For more information, see the chapter "Data Folder & Memory Card."

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Camera & Imaging

Advanced

ō ●Changing album covers ●Sorting albums ●Unlocking Secret Data Folder temporarily ●Opening album properties ●Removing images from albums ●Deleting images (**P.8-31**)

8-20

Opening Saved Files via Review

Opening Last Saved File

Open/play last saved mobile camera file; access older files as needed.

1. $\odot$ ➔ *Camera* ➔ $\odot$

2. *Review* ➔ $\odot$

Review Window

● To end Review, press $\fbox{☎}$.

Enlarging Images
  After ➋, $\odot$
Pausing/Resuming Video
  After ➋, $\odot$ (press to pause/resume)
Opening Help
  [Review Window] $\fbox{0}$
Opening from Viewfinder
  [Photo Viewfinder]/[Video Viewfinder]
  $\fbox{📷}$ **(Long)**

Accessing Older Files

1. In Review window, $\widehat{\curlyvee}$
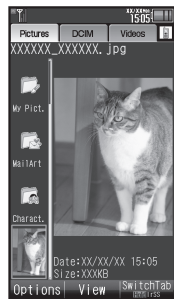
Review File List

● File list appears.
● Press $\widehat{\curlyvee}$ to toggle lists.

2. Select file ➔ $\odot$
● File opens/plays.

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Camera & Imaging

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Picture Editor

Picture Editor Options

The following options are available. Some images may not be editable depending on file type and size.

Resize	Select from preset sizes or crop image
Frame	Add Frame to images
Paste	Add text/dates to images
Retouch	Dress up images with preloaded visual effects
Stamp	Add stamps to images
Face Arrange	Make smiley, angry or sad faces
Correction	Correct images
Rotate	Rotate images
File Format	Convert file format and change file size

Basic Operation

1. $\bullet$ ➡ *Data Folder* ➡ $\bullet$
2. *Pictures* ➡ $\bullet$ ➡ Select image ➡ $\bullet$
3. $\boxdot$ ➡ *Edit* ➡ $\bullet$
4. *Picture Editor* ➡ $\bullet$

Picture Editor Menu

5. Select effect ➡ $\bullet$ ➡ Edit
   ● To start over, press $\boxed{}$.

6. When finished, $\textcircled{x}$

7. *Save as New* ➡ $\bullet$
   ● To overwrite, select *Overwrite* and press $\bullet$. (Omit ⑧.)

8. Enter name ➡ $\bullet$ ➡ *Save here* ➡ $\bullet$

Canceling Effects
After ⑤, *Undo* ➡ $\bullet$
■ To restore effect immediately after canceling, select *Redo* and press $\bullet$.

Changing Image Size

Select from preset sizes or crop image.

Resize to Preset Size

1 **In Picture Editor menu, *Resize* ▶ ●**

Resize
| Wallpaper |
| Power On/Off |
| Incoming Call |
| Alarm |
| Mail Art |
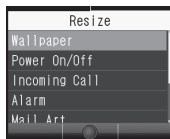
Resize Window

2 **Select size ▶ ●**

3 **ⓞ Specify image area**
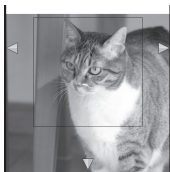
● If crop frame does not appear, omit 3.

4 **●**

● Editing is complete.

Zooming In/Out
After 3, ✉ ▶ ⓞ ▶ 4

Cropping Images

1 **In Resize window, *Cut* ▶ ●**

2 **ⓞ Move + to the upper left corner of the portion to crop ▶ ✉**
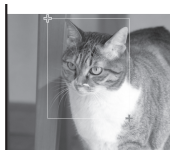
3 **ⓞ Move + to the lower right corner of the portion to crop ▶ ●**

4 **●**

● Editing is complete.

Specifying Image Area
After 3, ⓞ ▶ 4
Zooming In/Out
After 3, ✉ ▶ ⓞ ▶ 4

Applying Visual Effects

Render in sepia tones or add blur, etc.

1 **In Picture Editor menu, *Retouch* ▶ ●**

2 **Select effect ▶ ●**

3 **●**

● Editing is complete.

Adding Frames

1 **In Picture Editor menu, *Frame* ▶ ●**

2 **Select frame ▶ ●**

3 **●**

● Editing is complete.

8

Camera & Imaging

Advanced

○Using additional editing options (**P.8-31**)

8-23

Face Arrange

Make faces smiley, sad, etc.

1 **In Picture Editor menu,** *Face Arrange* ➡ ●

```
        Face Arrange
Collage:Right-half
Collage:Left-half
Grin
Mad
Sad
 Parts
```
Face Arrange Menu

2 **Select type** ➡ ●

3 ●
 ● Editing is complete.

Important Face Arrange Usage Note
 ● When using Face Arrange, take care not to create images that may embarrass or offend others. Always obtain permission before photographing others.

Adjusting Positions

Change the default positions and sizes of targets to fit the image.

1 **In Face Arrange menu,** ✉ ➡ ✉
 ● A rectangle appears with *+* in the upper left corner.

2 ۞ **Move *+* to top left of face** ➡ ✉

3 ۞ **Move *+* to bottom right of face**

```
         FaceLine
```
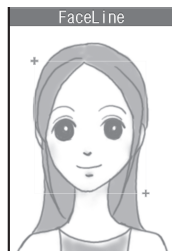
4 ●
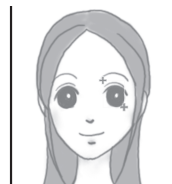
 ● Face line is set. Set the eyes and then mouth in the same way.

5 ● ➡ *Yes* ➡ ● ➡ *Save here* ➡ ●
 ● Image is saved as a new entry with Face Arrange positions adjusted. Complete Face Arrange. Face Arrange is applied to the adjusted positions.

8

Camera & Imaging

8-24

Composite

Composite Options

The following options are available.
Some images may not be editable depending on file type and size.

Split Picture	Combine up to four reduced images into one
Merge Panorama	Combine two still images into one

Panorama Images

Panorama Image Effects:

Near View	Best suited for close-up shots
Document	Use for images with text
Standard	Apply to other images

1 ● ➡ *Data Folder* ➡ ●

2 *Pictures* ➡ ● ➡ Select image ➡ ●

3 ✉ ➡ *Edit* ➡ ●

4 *Composite* ➡ ●

5 *Merge Panorama* ➡ ●

● File selected in 2 is set as left image.

6 *<Empty>* ➡ ● ➡ Select image ➡ ●

7 *EFFECT* ➡ ● ➡ Select effect ➡ ●

● Editing is complete.

8 When finished, ⊡

● Merged image appears.

9 ●

10 Enter name ➡ ● ➡ *Save here* ➡ ●

Changing Images
After 2, select image ➡ ● ➡ ✉ ➡ Select image ➡ ●

Switching Image Positions
After 5, ✉

Advanced

⊛ ●Combining reduced images (**P.8-32**)

Printing Images

Digital Print Order Format (DPOF)

Select images from Memory Card and specify the number of copies to print on DPOF-compatible printers, or at digital printing services.

DPOF settings made on other devices are unusable; delete existing settings to create new ones on handset.

1 ● ➡ *Settings* ➡ ● ➡ ⊙ *Phone/*💬

2 *Memory Card* ➡ ● ➡ *DPOF* ➡ ●

3 *Number of Copies* ➡ ●

4 *For Each Picture* ➡ ● ➡ Select folder ➡ ●

5 Select image ➡ ⊠

6 Enter a number of copies to print ➡ ●
● For more settings, repeat 5 - 6.

7 ⊗

Applying a Number to All Images
 In 4, *For All Pictures* ➡ ● ➡ Enter a number of copies to print ➡ ●
Canceling Specified Number
 In 6, enter *00* ➡ ● ➡ ⊗
Viewing Current Print Settings
 In 3, *Check Settings* ➡ ●

Using Printers

Connect handset to a Bluetooth®-compatible printer and print images in Pictures folder.
● Activate Bluetooth® on the printer.
● Some images may not be sent depending on file type and size.

1 ● ➡ *Data Folder* ➡ ● ➡ *Pictures* ➡ ●

2 Select image ➡ ⊠ ➡ *Print* ➡ ●

3 *Via Bluetooth* ➡ ● ➡ Select printer ➡ ●

4 *Yes* ➡ ●
● To cancel, press ⊗.

When Authorization Code is Required
 Enter Authorization Code ➡ ●

Advanced

🔧 ●Changing print settings (**P.8-32**)

8 Camera & Imaging

General

Changing function assigned to Camera Key (⊡)	● ➡ *Camera* ➡ ● ➡ *Set Camera Key* ➡ ● ➡ Select function ➡ ●

Photo Camera

Some functions may be unavailable or accessible via a different menu path depending on camera mode.

Opening Help	In Photo Viewfinder, ⊠ ➡ *Help* ➡ ●
Releasing shutter remotely with a Bluetooth® watch	**In Photo Viewfinder, press the corresponding button on Bluetooth® watch** ● Connect handset to a Bluetooth® watch and set Set Remote Shutter to *On* beforehand. For details, see the Bluetooth® watch guide.
Disabling remote shutter control via Bluetooth® watches	In Photo Viewfinder, ⊠ ➡ *Shutter Settings* ➡ ● ➡ *Set Remote Shutter* ➡ ● ➡ *Off* ➡ ● ● Available when a Bluetooth® watch is registered.

■ Photo Camera Settings (General)

Selecting Self-timer time/ repeat interval	In Photo Viewfinder, ⊠ ➡ *Self-timer* ➡ ● ➡ Select time ➡ ● ● For Self Timer Camera, select time or repeat interval.
Changing image size	In Photo Viewfinder, ⊠ ➡ *Picture Size* ➡ ● ➡ Select size ➡ ●
Setting Center Auto Focus	In Photo Viewfinder, ⊠ ➡ *Focus Setting* ➡ ● ➡ *Center Auto Focus* ➡ ●
Specifying point of focus manually	In Photo Viewfinder, ⊠ ➡ *Focus Setting* ➡ ● ➡ *Spot Auto Focus* ➡ ● ● A frame appears on Display; use ۞ to move frame over target point of focus.
Adjusting focus quickly for close-up shots	In Photo Viewfinder, ⊠ ➡ *Focus Setting* ➡ ● ➡ *Macro* ➡ ●
Adjusting focus manually	In Photo Viewfinder, ⊠ ➡ *Focus Setting* ➡ ● ➡ *Manual Focus* ➡ ● ➡ Adjust focus ➡ ● ● To readjust focus, press ⌐.
Canceling Continuous AF	In Photo Viewfinder, ⊠ ➡ *Focus Setting* ➡ ● ➡ *Continuous AF* ➡ ● ➡ *Off* ➡ ●
Canceling Chase Focus	In Photo Viewfinder, ⊠ ➡ *Focus Setting* ➡ ● ➡ *Chase Focus* ➡ ● ➡ *Off* ➡ ●
Changing focus frame design	In Photo Viewfinder, ⊠ ➡ *Focus Setting* ➡ ● ➡ *Focus Mark* ➡ ● ➡ Select pattern ➡ ●

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Camera & Imaging

Releasing shutter when subject smiles	In Photo Viewfinder, B ➡ *Shutter Settings* ➡ ● ➡ *Shutter Mode* ➡ ● ➡ *Egao* ➡ ●
Adjusting smile detection level	In Photo Viewfinder, B ➡ *Shutter Settings* ➡ ● ➡ *Egao level* ➡ ● ➡ Select level ➡ ● ● Lower the level when detection is slow.
Releasing shutter when subject turns face to camera	In Photo Viewfinder, B ➡ *Shutter Settings* ➡ ● ➡ *Shutter Mode* ➡ ● ➡ *Furimuki* ➡ ●
Changing shutter click sound	In Photo Viewfinder, B ➡ *Shutter Settings* ➡ ● ➡ *Shutter Sound* ➡ ● ➡ Select pattern ➡ ● ● Shutter click sounds for continuous shooting and panorama/scanner image capture are fixed.
Changing image quality	In Photo Viewfinder, B ➡ *Settings* ➡ ● ➡ *Picture Quality* ➡ ● ➡ Select quality ➡ ●
Adjusting light sensitivity	In Photo Viewfinder, B ➡ *Settings* ➡ ● ➡ *ISO Sensitivity* ➡ ● ➡ Select level ➡ ●
Adjusting image color to lighting conditions	In Photo Viewfinder, B ➡ *Settings* ➡ ● ➡ *White Balance* ➡ ● ➡ Select mode ➡ ●
Adjusting brightness	In Photo Viewfinder, B ➡ *Settings* ➡ ● ➡ *Exposure* ➡ ● ➡ Adjust level
Selecting shake reduction option	In Photo Viewfinder, B ➡ *Settings* ➡ ● ➡ *Shake Reducing* ➡ ● ➡ Select option ➡ ●
Capturing images in low light	In Photo Viewfinder, B ➡ *Settings* ➡ ● ➡ *Long Exposure* ➡ ● ➡ Select time ➡ ●
Switching indicator view	In Photo Viewfinder, B ➡ *Settings* ➡ ● ➡ *Display Setting* ➡ ● ➡ Select option ➡ ●

Selecting send option assigned to Y	In Photo Viewfinder, B ➡ *Settings* ➡ ● ➡ *Set Send Key* ➡ ● ➡ *Short press* or *Long press* ➡ ● ➡ Select option ➡ ● ● Select send option separately for each key press method.
Changing save location	In Photo Viewfinder, B ➡ *Save Settings* ➡ ● ➡ *Save Pictures to* ➡ ● ➡ Select option ➡ ●
Selecting automatic save option	In Photo Viewfinder, B ➡ *Save Settings* ➡ ● ➡ *Auto Save* ➡ ● ➡ Select option ➡ ● ● When *Off*, press ● after image capture to save.
Disabling quick transition to Viewfinder after saving images	In Photo Viewfinder, B ➡ *Save Settings* ➡ ● ➡ *Background Save* ➡ ● ➡ *Off* ➡ ●
Changing Mobile Light mode	In Photo Viewfinder, B ➡ *Mobile Light* ➡ ● ➡ Select mode ➡ ● ● Mobile Light goes out automatically after three minutes. Reactivate mobile camera to re-illuminate it. ● Do not use Mobile Light near people's faces or look into the light yourself.

■ **Photo Camera Settings (Selected Camera)**

Changing continuous shooting mode	In Shooting Camera Viewfinder, B ➡ *Continuous Type* ➡ ● ➡ Select mode ➡ ●
Changing Look Back Camera sound	In Look Back Camera Viewfinder, B ➡ *Turn Sound* ➡ ● ➡ Select sound ➡ ●
Changing Clock/ Calendar type for Wallpaper Camera	In Wallpaper Camera Viewfinder, B ➡ *Clock/ Calendar* ➡ ● ➡ Select type ➡ ●

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Camera & Imaging

Changing panorama/scanner settings	**Start Here** In Panorama Camera or Scanner Camera Viewfinder, ◎ ➡ See below
	Hiding Guides *Assisting Lines* ➡ ● ➡ *Off* ➡ ●
	Locking Display Brightness during Image Capture *AE-Lock* ➡ ● ➡ *Enable* ➡ ●
Previewing panorama image	After panorama image capture, *Preview* ➡ ● ● Available when Auto Save is *Off*.
Changing panorama image preview method	After panorama image capture, *Preview* ➡ ● ➡ ◎ ➡ *Select method* ➡ ● ● Available when Auto Save is *Off*.
Changing exposure time for Long Exposure Camera	In Long Exposure Camera Viewfinder, ◎ ➡ *Exposure Time* ➡ ● ➡ *Select time* ➡ ●

■ Correction & Preview

Correcting portrait auto focus images	**Start Here** After image capture, ◎ ➡ *Correlate to Face* ➡ ● ➡ See below ● Available when Auto Save is *Off*.
	Adjusting Face/Background Brightness *Against sun* ➡ ● ➡ ●
	Blurring Out-of-Focus Portions *Portrait* ➡ ● ➡ ●
Brightening backlit subjects (Dynamic Range Adjustment)	After image capture, ◎ ● May be unavailable or require access via *D-Range* in Options menu depending on Auto Save setting.

Seeking guidance for better shots	After image capture, 🔘 ● Follow onscreen instructions. ● May be unavailable depending on Auto Save setting.
Checking image details before saving	After image capture, 1 - 9 (Long) ● Available when Auto Save is *Off* or *On(Preview Manual)*. ● Use ✪ to see other portions enlarged. Press ● to enlarge further. Press 🔲 to cancel. ● Key Assignments: 1 (Upper Left) 2 (Upper Center) 3 (Upper Right) 4 (Center Left) 5 (Center) 6 (Center Right) 7 (Lower Left) 8 (Lower Center) 9 (Lower Right) ● May be unavailable depending on image size, etc.

■ My Camera

Deleting My Cameras	In Photo Viewfinder, ◎ ➡ *Switch Camera* ➡ ● ➡ Select My Camera ➡ ◎ ➡ *Delete My Camera* ➡ ● ➡ *Yes* ➡ ●
Editing My Cameras	In Photo Viewfinder, ◎ ➡ *Switch Camera* ➡ ● ➡ Select My Camera ➡ ◎ ➡ *Edit My Camera* ➡ ● ➡ *My Camera Name:* or *Note:* ➡ ● ➡ Edit ➡ ● ➡ ⓨ

8 Camera & Imaging

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Video Camera

Opening Help	**In Video Viewfinder,** B ➡ *Help* ➡ % ● Press Y to toggle Help window for indicator descriptions and key assignments.
Selecting Self-timer time	**In Video Viewfinder,** B ➡ *Self-timer* ➡ % ➡ Select time ➡ %
Adjusting brightness	**In Video Viewfinder,** B ➡ *Settings* ➡ % ➡ *Exposure* ➡ % ➡ Adjust level
Adjusting focus quickly for close-up shots	**In Video Viewfinder,** B ➡ *Focus Setting* ➡ % ➡ *Macro* ➡ %
Adjusting focus manually	**In Video Viewfinder,** B ➡ *Focus Setting* ➡ % ➡ *Manual Focus* ➡ % ➡ Adjust focus ➡ % ● To readjust focus, press e.
Locking focus	**In Video Viewfinder,** e ● Frame subject in center of Viewfinder first. ● To start over, press e again.
Changing image quality	**In Video Viewfinder,** B ➡ *Settings* ➡ % ➡ *Video Quality* ➡ % ➡ Select quality ➡ %
Activating automatic saving	**In Video Viewfinder,** B ➡ *Save Settings* ➡ % ➡ *Auto Save* ➡ % ➡ *On* ➡ %
Changing save location	**In Video Viewfinder,** B ➡ *Save Settings* ➡ % ➡ *Save Videos to* ➡ % ➡ Select option ➡ %
Activating Mobile Light	**In Video Viewfinder,** B ➡ *Mobile Light* ➡ % ➡ *On* ➡ % ● Mobile Light goes out automatically after three minutes. Reactivate mobile camera to re-illuminate it. ● Do not use Mobile Light near people's faces or look into the light yourself.
Capturing images while recording video (still image capture)	**While recording,** B ● Captured images are saved when saving recorded clip; open them via Review or Data Folder.
Changing recording size	**In Video Viewfinder,** B ➡ *Record Time/Size* ➡ % ➡ *For Message* or *Extended Video* ➡ % ➡ Select size ➡ % ● Selectable item depends on camera mode.
Enlarging Viewfinder size	**In Video Viewfinder,** B ➡ *Display Size* ➡ % ➡ *Enlarge* ➡ %
Recording video without sound	**In Video Viewfinder,** B ➡ *Settings* ➡ % ➡ *Microphone* ➡ % ➡ *Off* ➡ %
Changing video encoding	**In Video Viewfinder,** B ➡ *Save Settings* ➡ % ➡ *Video Encode* or *Audio Encode* ➡ % ➡ Select option ➡ % ● Selectable item depends on camera mode.
Disabling shake reduction	**In Video Viewfinder,** B ➡ *Shake Reducing* ➡ % ➡ *Off* ➡ %
Prioritizing video frame rate	**In Video Viewfinder,** B ➡ *Save Settings* ➡ % ➡ *Picture Setting* ➡ % ➡ *Motion Prior* ➡ %

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Camera & Imaging

Album

Changing album covers	**Start Here** ⓐ (Long) ➡ Select category ➡ ⓔ ➡ Select album ➡ ⓒ ➡ *Change a Cover* ➡ ⓔ ➡ **See below** ● For By Date albums, only the latest images are available. **Selecting from All Images Within** *Select Picture List* ➡ ⓔ ➡ Select image ➡ ⓔ **Using Latest Image** *Latest Picture* ➡ ⓔ
Sorting albums	ⓐ (Long) ➡ Select category ➡ ⓔ ➡ Select album ➡ ⓔ ➡ ⓒ ➡ *Sort* ➡ ⓔ ➡ Select option ➡ ⓔ
Unlocking Secret Data Folder temporarily	ⓐ (Long) ➡ ⓒ ➡ *Unlock Temporarily* ➡ ⓔ ➡ Enter Handset Code ➡ ⓔ
Opening album properties	ⓐ (Long) ➡ Select category ➡ ⓔ ➡ Select album ➡ ⓒ ➡ *Details* ➡ ⓔ
Removing images from albums	ⓐ (Long) ➡ Select category ➡ ⓔ ➡ Select album ➡ ⓔ ➡ Select image ➡ ⓒ ➡ *Remove from Album* ➡ ⓔ ➡ *The Album* or *All Album* ➡ ⓔ ➡ *Yes* ➡ ⓔ ● *The Album* does not appear for images under some categories.
Deleting images	ⓐ (Long) ➡ Select category ➡ ⓔ ➡ Select album ➡ ⓔ ➡ Select image ➡ ⓒ ➡ *Delete Data* ➡ ⓔ ➡ *Yes* ➡ ⓔ ● Source files in Data Folder will be deleted.

Editing Images

■ Picture Editor

Using additional editing options	**Start Here** ⓔ ➡ *Data Folder* ➡ ⓔ ➡ *Pictures* ➡ ⓔ ➡ Select file ➡ ⓔ ➡ ⓒ ➡ *Edit* ➡ ⓔ ➡ *Picture Editor* ➡ ⓔ ➡ **See below** **Changing Text/Outline Color** *Paste* ➡ ⓔ ➡ ⓒ ➡ Select text color ➡ ⓔ ➡ ⓠ ➡ Select outline color ➡ ⓔ ➡ ⓨ **Adding Text** *Paste* ➡ ⓔ ➡ *Free Text* ➡ ⓔ ➡ Enter text ➡ ⓔ ➡ ✪ Move text ➡ ⓔ **Adding Dates** *Paste* ➡ ⓔ ➡ *Date* ➡ ⓔ ➡ ✪ Move date ➡ ⓔ **Adding Stamps** *Stamp* ➡ ⓔ ➡ Select stamp ➡ ⓔ ➡ ✪ Move stamp ➡ ⓔ **Correcting Image Parameters** *Correction* ➡ ⓔ ➡ Select type ➡ ⓔ ➡ ⓔ **Rotating Images** *Rotate* ➡ ⓔ ➡ Select type ➡ ⓔ ➡ ⓔ **Converting File Format** *File Format* ➡ ⓔ ➡ *File Format* ➡ ⓔ ➡ Select format ➡ ⓔ ● Changing file format may affect file size/image quality. ● To return to Picture Editor menu, press ⓜ. **Changing File Size** *File Format* ➡ ⓔ ➡ *File Size* ➡ ⓔ ➡ Select size ➡ ⓔ ● Changing file size may affect image quality. ● To return to Picture Editor menu, press ⓜ.

■ **Composite**

Combining reduced images	Start Here ⬤ ➡ *Data Folder* ➡ ⬤ ➡ *Pictures* ➡ ⬤ ➡ **Select file** ➡ ⬤ ➡ ✉ ➡ *Edit* ➡ ⬤ ➡ *Composite* ➡ ⬤ ➡ **See below**
	Creating Split Picture *SplitPicture 480x854* or *SplitPicture 240x320* ➡ ⬤ ➡ *<Empty>* ➡ ⬤ ➡ **Select file** ➡ ⬤ ➡ **When finished,** ⬩ ➡ **Enter name** ➡ ⬤ ➡ *Save here* ➡ ⬤ ● Repeat from selecting *<Empty>* as needed.
	Previewing Split Picture **While creating Split Picture,** ✉ ➡ *View Composite* ➡ ⬤
	Changing Images **While creating Split Picture, select image** ➡ ⬤ ➡ ✉ ➡ **Select another** ➡ ⬤
	Deleting Images **While creating Split Picture, select image** ➡ ✉ ➡ *Remove* ➡ ⬤ ➡ *Yes* ➡ ⬤

DPOF

Changing print settings	Start Here ⬤ ➡ *Settings* ➡ ⬤ ➡ ⬨ *Phone/*🖭 ➡ *Memory Card* ➡ ⬤ ➡ *DPOF* ➡ ⬤ ➡ **See below**
	Adding Dates to Prints *Settings* ➡ ⬤ ➡ *Add Date* ➡ ⬤ ➡ *On* ➡ ⬤
	Creating an Index Print *Settings* ➡ ⬤ ➡ *Index Print* ➡ ⬤ ➡ *On* ➡ ⬤
	Resetting *Reset Settings* ➡ ⬤ ➡ *Yes* ➡ ⬤

8

Camera & Imaging

Mobile Camera

❓ **Mobile camera won't activate/ shuts down automatically**

- Battery may be low. Charge battery or install a charged battery.
- Leaving handset at high temperature may cause camera area to heat up, disabling mobile camera activation; wait a while and retry.
- Prolonged camera use may cause camera area to heat up, resulting in automatic shutdown; wait a while and retry.

❓ **Cannot use Background Save or Auto Save**

- Background Save/Auto Save is not available when Save Pictures to is set to *Ask Each Time*.

❓ **Display went dark during image capture**

- 943SH camera has built-in mechanical shutter and ND filter. Strong shocks to handset during image capture may close mechanical shutter for camera protection, resulting in blank Viewfinder. Reactivate mobile camera to reopen the shutter.

❓ **Image is dark or distorted**

- Avoid capturing strong light sources (sun, lamps, etc.) in the background.

❓ **Captured image appears all white**

- When Long Exposure is active, images captured in daylight or good light appear all white.

Editing Images

❓ **Cannot save/send edited images**

- Edited images may be too large to save or send via mail.

DPOF

❓ **Cannot specify print settings properly**

- If Memory Card image files have been deleted or renamed on PCs or other devices, reset print settings and start over with settings.

Photo Camera Terms

❓ Center Auto Focus

● Camera automatically selects center of the framed image as point of focus (**P.8-27**).

❓ Continuous AF

● Focus continuously adjusts as focus-locked subject's position changes (**P.8-7**, **P.8-27**).

❓ Chase Focus

● Focus tracks focus-locked subject as it moves within framed image (**P.8-7**, **P.8-27**).

❓ Self-timer

● Releases shutter automatically after selected time elapses (**P.8-27**).

❓ Long Exposure

● Capture images in low light (fireworks, night scenes, etc.) (**P.8-10**). Stabilize handset to reduce camera shake.

❓ ISO Sensitivity

● Adjust light sensitivity (**P.8-28**). Higher ISO brightens low light images, but increases noise, making images grainy.

❓ White Balance

● Select a mode (Daylight, Tungsten, Fluorescent, etc.) to adjust image color to lighting conditions (**P.8-28**).