7

Camera & Imaging

Getting Started

Capture still images or record video.

Portrait Photography

Automatically locks focus on faces, or releases shutter when subjects smile or turn their faces to camera.

Auto Focus

Measures the distance between subjects and camera to adjust focus.

Multiple Shooting Modes

Apply effect or add frame, capture sequential/panoramic or scan images, or use long exposure.

Review

Open/play last saved mobile camera file quickly with a single key; access older files as needed.

Precautions
- Clean dust/smudges from lens cover with a dry, soft 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.

Internal & External Cameras
- Use Internal Camera or External Camera; unless noted otherwise, operations in this chapter are described for External Camera.
  - Sizes are limited and shooting modes are not available for Internal Camera.

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Camera & Imaging

Advanced

🔊 ●Opening Help ●Changing function assigned to Camera Key ( ) (**P.7-22**)

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Capturing Still Images

Viewer Position

Operation descriptions are based on landscape orientation.

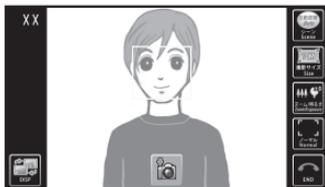**1 Rotate Display to Viewer position**

X X

Photo Viewfinder

- After all indicators appear briefly, Photo Viewfinder appears.
- When rotating Display to Viewer position for the first time, Viewer Position menu opens; tap *Take Picture* to complete setup.
- Frames appear on detected faces.
- Alternatively, touch area on which to lock focus.

2 Frame subject on Display ➔ ▭

CLEAR/BACK | Using Adjustment | OK | Send | END

Captured Image Window

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

3 Tap *OK*

- Viewfinder returns.

4 Tap ⌢ (END) ➔ Camera shuts down

Clamshell Open

Descriptions are for operation with handset keys.

1 [□▣]

- Photo Viewfinder appears.

2 Frame subject on Display ➔ ●

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

3 ●

- Viewfinder returns.

4 [☎] ➔ Camera shuts down

Capturing Self Portraits

Open handset and rotate Display 180 degrees. Turn handset around and look into the lens to capture yourself.

Advanced

🖐 ●Activating Mobile Light ●Adjusting focus quickly for close-up shots ●Adjusting camera's light sensitivity ●Changing image size ●Adjusting color balance according to lighting conditions (And more on **P.7-22** - **7-24**)

7 Camera & Imaging

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Pre-Image Capture Operations

Use handset keys or tap indicators.

Handset Keys

Zoom In/Out	🔍/🔍
Toggle Mode	Y
Adjust Brightness	🔄/🔄
Change Image Size	2
Toggle Mobile Light Mode	#
Toggle Indicator View	☞
Toggle Internal Camera and External Camera	📷
Open Help	🔟

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

Touch Panel

Indicators appear along the edges of Display. Tap one to adjust the corresponding setting or execute the assigned command.
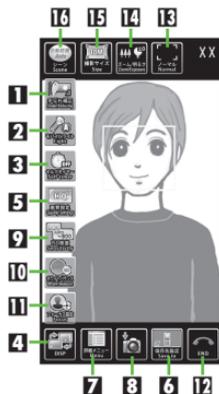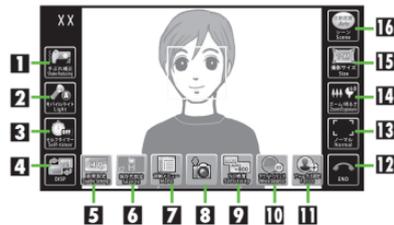
1	Shake Reducing	**9**	ISO Sensitivity
2	Mobile Light	**10**	White Balance
3	Self-timer	**11**	Focus
4	Toggle indicator view	**12**	Exit
5	Picture Quality	**13**	Shutter Mode
6	Save to	**14**	Zoom/Exposure
7	Options menu	**15**	Picture Size
8	Release shutter	**16**	Scene

Toggling Indicator View
In Photo Viewfinder, tap 🖾 (DISP)

■ **Additional Operations & Restriction**
Shortcuts:

Zoom In/Out	Drag finger up or down on image
Adjust Brightness	Drag finger left or right on image
Focus Lock	Tap image

● Tap 🖾 (Menu) to open Options menu for more functions/settings.
● Toggle Internal/External camera with clamshell open.

Opening Help
● Tap as follows:
🖾 (Menu) ➡ *Help*

■ **Touch Panel Operation Example**
Follow these steps to use Self-timer:

1. **In Photo Viewfinder, tap 🎞 (DISP)**

2. **Tap 🕐 (Self-timer)**

   - *10sec.* appears on indicator. A ten-second Self-timer is ready.
   - Tap indicator to toggle status (5 sec., 2 sec. and Off).

3. **Frame subject on Display ➡ ▭**

   - After selected time elapses, captured image appears.
   - Tap *OK* to return to Viewfinder.

Releasing Shutter during Countdown
   After ❸, ▭
Incoming Calls/Alarm during Countdown
   ● Countdown stops. (Self-timer remains active.)

Image Size & Print/Display Size

933SH Picture Size & Corresponding Print/Display Size:

10M	A3 prints
5M	A3 prints
3M	A4 prints
Full HD	Full HD size display wallpaper
Wallpaper	933SH Wallpaper
VGA	VGA size display wallpaper
QVGA	QVGA size display wallpaper

Auto Resize Zoom
● At *10M*, Picture Size changes with zoom scale (print quality may be affected); check the size on indicator before image capture.
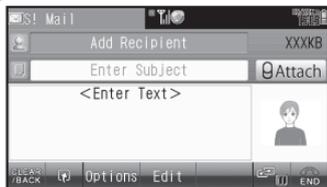
Sending Captured Images

Via Mail

1 In captured image window, tap *Send*

```
Confirm
Please select the
create Mail Size.        300KB(S)
                         1MB(L)
□ From now on too.
CLEAR
/BACK      Check
```

2 Tap message size limit

```
S! Mail
    Add Recipient         XXXKB
    Enter Subject        Attach
    <Enter Text>
CLEAR
/BACK    Options  Edit
```

- Mail Composition window opens.
- Images may be resized automatically.
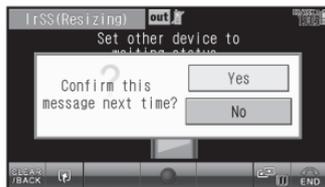
3 Complete message and tap *Send*

Using Handset Keys
In captured image window, ⊙ ➡
Select message size limit ➡ ● ➡
Complete message ➡ ⊙

Applying the Selected Message Size Limit Hereafter

- Before selecting message size limit, tap *Check* or press ⊙ to check *From now on too.* checkbox.

Via Infrared

1 In captured image window, Long Touch *Send*

```
IrSS(Resizing)        out
            Set other device to
            waiting status
Confirm this         Yes
message next time?
                     No
CLEAR
/BACK
```

2 Tap *Yes* or *No*

Using Handset Keys
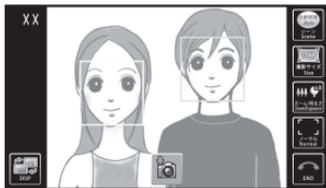In captured image window, ⊙
(Long) ➡ *Yes* or *No* ➡ ●

Using Portrait Photography Features

Most operation descriptions are based on Viewer position.

Locking Focus on Faces Automatically

933SH camera locks focus on faces automatically; frames appear on detected faces. (Portrait auto focus)
Detection may fail depending on face angle, distance from subject or environment.

When Multiple Faces are Detected
● Frame appears on each face; tap one on which to lock focus.

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

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

2 **Half press ⬜ or tap subject**
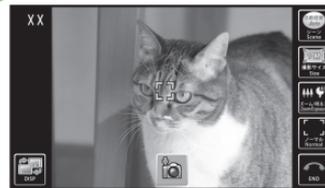
● Focus Lock is set.

3 ⬜
● Captured image appears.
● Tap *OK* to return to Viewfinder.

Using Handset Keys
In Photo Viewfinder, frame subject in center of Display ➜ 🔲 ➜ ●
Canceling Focus Lock
● Release ⬜ or press 🔲.

Advanced

🔅 ●Adjusting smile detection level ●Setting Center Auto Focus ●Correcting portrait auto focus images (And more on **P.7-23** - **7-24**)

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Camera & Imaging

Releasing Shutter upon Smile/ Face Detection

Available Shutter Modes:

Egao focus shutter	Releases shutter when subject smiles
Furimuki shutter	Releases shutter when subject turns face to camera

Adjust smile detection level as needed.

1 **In Photo Viewfinder, tap ⌗ (Normal)**
 ● Tap indicator to toggle Shutter Mode between *Egao* (⌖ appears), *Furimuki* (☺ appears) and *Normal*.

2 **Shutter is released upon smile/face detection**
 ● Captured image appears.
 ● Tap *OK* to return to Viewfinder.

Using Handset Keys
 In Photo Viewfinder, 5 ➜ Shutter is released upon smile/face detection

Capturing with Tailored Settings

In Auto mode, 933SH camera detects subject type/environment (Portrait, Landscape, Night, Portrait+Night, Food, Scan Text, Scan Barcode or Scan Card) and applies suitable settings automatically. Select a specific mode for a particular subject/environment.
Examples of Specific Modes:

Baby	Brightens skin tone
Food	Yields vivid colors
Sea	Enhances the blue
Fireworks	Intensifies the black
Pet	Increases shutter speed

1 **In Photo Viewfinder, tap ⊛ (Scene)**

Scene Menu

2 **Tap mode**
 ● For *Auto*, select *Find Only Scene* (to disable Scan Card and Scan Barcode) or *Find Card/Barcode*.

3 **Frame subject in center of Display ➜ ⬚**
 ● Captured image appears.
 ● Tap *OK* to return to Viewfinder.

Using Handset Keys
 In Photo Viewfinder, ✉ ➜ *Scene* ➜ ● ➜ Select mode ➜ ●
 ■ For *Auto*, select *Find Only Scene* (to disable Scan Card and Scan Barcode) or *Find Card/Barcode* and press ●.

Toggling Scene Menu Pages
 ● In Scene menu, tap *Next* or press ☒.

Saving Custom Settings
 ● To save the current camera settings, tap as follows:
  In Scene menu, *User Settings* ➜ *Save* ➜ *Yes*
 ■ To load the saved settings, open Scene menu and tap *User Settings*.

Recording Video

Viewer Position

Operation descriptions are based on landscape orientation.

1. **In Photo Viewfinder, tap 🗐 (Menu)**

2. **Tap *Camera Mode***

3. **Tap *Video Camera***

Video Viewfinder

4. **Frame subject on Display ➡ ▭**
   - Recording starts after a tone.

5. **▭**

Save Menu

6. **Tap *Save***
   - Video is saved. (Viewfinder returns.)

Playing Unsaved Video
  In ❻, tap *Preview*
Incoming Calls
- If a call arrives before video is saved, recorded clip is temporarily saved. End the call to return.
When Battery Runs Low
- Recording stops. (Recorded clip is saved.)

Clamshell Open

Descriptions are for operation with handset keys.

1. **[📷▣] ➡ (Yʳ)**
   - Video Viewfinder appears.
   - Omit step of pressing (Yʳ) if Video Camera is already active.

2. **Frame subject on Display ➡ (●)**
   - Recording starts after a tone.

3. **(●)**

Save Menu

   - Recording stops with a tone.

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

5. **[☎] ➡ Camera shuts down**

Advanced

⅏ ●Activating Mobile Light ●Adjusting focus quickly for close-up shots (And more on **P.7-22**)
　●Capturing images while recording video ●Changing recording time/size ●Enlarging Viewfinder size (And more on **P.7-24**)

Operations in Video Viewfinder

Use handset keys or tap indicators.

Handset Keys

Zoom In/Out	(⚪)/(⚪)
Toggle Mode	(Y)
Adjust Brightness	(⚪)/(⚪)
Change Record Size	2
Toggle Mobile Light Mode	#
Change Quality	✳
Pause/Resume Recording	(Y)*
Cancel Recording (Start Over)	🔲
Toggle Internal Camera and External Camera	🔲
Open Help	🔲

*May be unavailable depending on recording size. Press 🔲 to open Options menu for more functions/settings.

Touch Panel

Zoom In/Out	Tap *Zoom* ➡ Drag slider
Adjust Brightness	Tap *Exposure* ➡ Drag slider
Toggle Mobile Light Mode	Tap *Light*
Focus Lock	Tap image
Pause/Resume Recording	Tap *Pause*/*Restart**
Cancel Recording (Start Over)	Tap *CLEAR/BACK* (in Viewer position only)

*May be unavailable depending on recording size. Tap *Options* to open Options menu for more functions/settings.

Opening Help
- Tap as follows:
  Options ➡ *Help*

Sending Recorded Video via Mail

Most operation descriptions are based on Viewer position.

1 **In Save menu, tap *Send***

2 **Tap *Save and Send***
- Mail Composition window opens.
- Message creation confirmation appears depending on file size; choose *Yes* to proceed. (Choose *No* to cancel attachment.)

3 **Complete message and tap *Send***

Using Handset Keys
In Save menu, *Send* ➡ ● ➡ *Save and Send* ➡ ● ➡ Complete message ➡ (Y)
Hiding Message Creation Confirmation Hereafter
- While confirmation appears, tap *Check* or press 🔲 to check *From now on too.* checkbox.

Self-timer

Most operation descriptions are based on Viewer position.

1 **In Video Viewfinder, tap Options**

2 **Tap Self-timer**

3 **Tap time**

4 **Frame subject on Display ➔ ▭**

- After selected time elapses, recording starts.
- To stop recording, press ▭.
- For more, see operation descriptions on **P.7-9**.

Using Handset Keys
In Video Viewfinder, ✉ ➔ *Self-timer* ➔ ● ➔ Select time ➔ ● ➔ Frame subject on Display ➔ ● ➔ ●
Releasing Shutter during Countdown
After ❹, ▭
Incoming Calls/Alarm during Countdown
- Countdown stops. (Self-timer remains active.)

Opening Saved Files

Most operation descriptions are based on Viewer position.

Opening Last Saved File

Open/play last saved mobile camera file quickly with a single key; access older files as needed.

1 Tap *MENU* ➜ Tap *Camera*

2 Tap *Review*

Review Window

Using Handset Keys
🔲 **(Long)**
Exiting Review
● Tap 🔗 (END) or press 🔲.
Hiding Indicators/Softkeys
● Tap Display or press 🔲.
Enlarging Images
● After 2, tap *Zoom* or press ◉.

Pausing Video
● During playback, tap 🔲 or press ◉. To resume, tap ▶ or press ◉.
Opening Help
● Tap as follows:
  Options ➜ *Help*
■ Alternatively, press 🔲.

Accessing Older Files

1 In Review window, tap file ➜ Tap *List*

Review File List

● File list appears.
● Tap *Switch Tab* to toggle lists.

2 Tap file
● File opens/plays.

Using Handset Keys
In Review window, 🔲 ➜ Select file
➜ ◉
■ Press 🔲 to toggle lists.

Sending Images

Send images to blogs, etc. via mail. Infrared and other options can also be used for sending images to other devices. To send images to blogs, complete Blog Setting beforehand.

1 In Review file list, select image ➜ Tap *Options*

2 Tap *Send/Blog*

3 Tap option
● Follow onscreen instructions.

Using Handset Keys
In Review file list, select image ➜ 🔲 ➜ *Send/Blog* ➜ ◉ ➜ Select option ➜ ◉

Using Shooting Modes (Photo Camera)

May be unavailable depending on selected image size.

Continuous Shoot

Available Modes:

4 Pictures	Capture four separate images with Index Image
9 Pictures	Capture nine separate images with Index Image
Overlapped	Capture five images to create a composite image

1. In Photo Viewfinder, ⊚ ➔ *Modes* ➔ ●

   Add Frame
   Mode Menu

2. *Continuous Shoot* ➔ ●

3. Select mode ➔ ● ➔ Select speed ➔ ●

4. **Frame subject on Display ➔ ●**

   - After image capture, Index Image or a composite image appears. (All captured images are saved.)
   - When shooting speed is set to *Manual* (4 Pictures and 9 Pictures modes), repeat ④ for each frame.

Checking Captured Images before Saving
- Set Auto Save to *Off* beforehand. After image capture, Index Image or a composite image appears.
   ■ Long Press ● to save all captured images.
   ■ Follow these steps to save selected image:
     ⊙ **Select image ➔ ●**

Continuous Shoot (Large)

Capture ten continuous shots of *1M(864x1152)* images at high speed.

1. In Photo Viewfinder, ⊚ ➔ *Modes* ➔ ●

2. *HQ Continuous* ➔ ● ➔ *On* ➔ ●

3. **Frame subject on Display ➔ ●**

   - After image capture, the first preview image appears.

4. ⊙ **Select image ➔ ●**
   - Image is saved and preview returns.

Saving All Captured Images
   In ④, ● (Long)
Saving Strobe Photo (Composite Image)
   In ④, ⊚ ➔ *Strobe Photo* ➔ ● ➔ *Yes* ➔ ● ➔ ● ➔ ●

Adding Frames

1. In Photo Viewfinder, ⊚ ➡ *Modes* ➡ ⦿

2. *Add Frame* ➡ ⦿

3. *Preset Frames* ➡ ⦿

Preset Frames

4. Select frame ➡ ⦿

5. **Frame subject on Display** ➡ ⦿
   - Captured image appears.
   - Press ⦿ to return to Viewfinder.

Using Frames in Data Folder
In ⓷, *Data Folder* ➡ ⦿ ➡ Select frame ➡ ⦿ ➡ ⦿ ➡ Frame subject on Display ➡ ⦿

Camera Effects

1. In Photo Viewfinder, ⊚ ➡ *Modes* ➡ ⦿

2. *Camera Effects* ➡ ⦿

Camera Effects
Off

3. Select effect ➡ ⦿

4. **Frame subject on Display** ➡ ⦿
   - Captured image appears.
   - Press ⦿ to return to Viewfinder.

Long Exposure

Capture low-light shots (fireworks, night scenes, etc.) clearly.

1. In Photo Viewfinder, ⊚ ➡ *Modes* ➡ ⦿

2. *Long Exposure* ➡ ⦿

3. Select time ➡ ⦿

4. **Frame subject on Display** ➡ ⦿

Capturing...
Hold handset firmly.

   - Shutter is left open for an extended period of time, then captured image appears.
   - Press ⦿ to return to Viewfinder.

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Camera & Imaging

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Panorama Picture

1 **In Photo Viewfinder, ✉ ➡ *Modes* ➡ ●**

2 ***Panorama/Scanner* ➡ ●**

Panorama/Scanner Menu

3 ***Panorama Picture* ➡ ● ➡ *On* ➡ ●**

4 **Frame subject on Display ➡ ●**
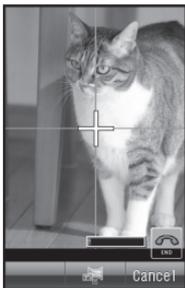
- Move handset slowly to keep ✛ aligned with either of yellow lines.
- Image is captured automatically when the bar (▭) turns blue.

5 **●**

- Image is saved.

Checking Captured Images before Saving

- Set Auto Save to *Off* beforehand. After image capture, Save menu opens.
  - To check captured images, follow these steps in Save menu:
    Preview ➡ ●
  - To save captured images, follow these steps in Save menu:
    Save ➡ ●

Scanning Images

1 **In Photo Viewfinder, ✉ ➡ *Modes* ➡ ●**

2 ***Panorama/Scanner* ➡ ●**

3 ***Scanner* ➡ ●**

4 **Select size ➡ ● ➡ Frame subject on Display ➡ ●**

- Move handset slowly to scan the area to capture. (Refer to indicators on Display.)

5 **●**

- Image is saved.

Checking Captured Images before Saving

- Set Auto Save to *Off* beforehand. After image capture, Save menu opens.
  - To check captured images, follow these steps in Save menu:
    Preview ➡ ●
  - To save captured images, follow these steps in Save menu:
    Save ➡ ●

7 Camera & Imaging

Advanced

⚫Changing Panorama settings ⚫Changing Panorama image preview method (**P.7-24**)

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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
Scribbling	Scribble or sketch
File Format	Convert file format and change file size

Basic Operation

1. ● ➡ *Data Folder* ➡ ●
2. *Pictures* ➡ ● ➡ Select image ➡ ●
3. ✉ ➡ *Edit* ➡ ●
4. *Picture Editor* ➡ ●

Picture Editor Menu

5. Select effect ➡ ● ➡ Edit

   ● To start over, press [CLEAR/BACK].

6. When finished, ⸌

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

8. Enter name ➡ ● ➡ *Save here* ➡ ●

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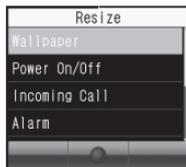■ To restore effect immediately after canceling, select *Redo* and press ●.

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

   Resize Window

2. **Select size** ➡ ●

3. 🔄 **Specify image area**

   ● If crop frame does not appear, omit ❸.

4. ●
   ● Editing is complete.

   Zooming In/Out
   After ❸, ✉ ➡ 🔄 ➡ ❹

Cropping Images

1. **In Resize window,** *Cut* ➡ ●

2. 🔄 **Move + to the upper left corner of the portion to crop**
   ➡ ✉
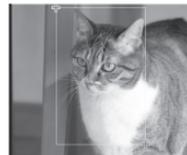
3. 🔄 **Move + to the lower right corner of the portion to crop**
   ➡ ●

4. ●
   ● Editing is complete.

   Specifying Image Area
   After ❸, 🔄 ➡ ❹
   Zooming In/Out
   After ❸, ✉ ➡ 🔄 ➡ ❹

7 Camera & Imaging

Advanced

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Applying Visual Effects

Render in sepia tones or add blur, etc.

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

Retouch
Sepia
Sparkling
Ripples
Tile

2 **Select effect ➡ ●**

3 ●
  ● Editing is complete.

Adding Frames

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

Frame
Frame 1
Frame 2
Frame 3
Frame 4
View
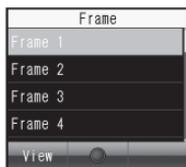
2 **Select frame ➡ ●**
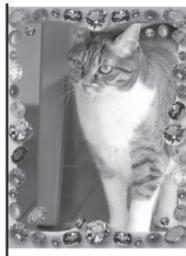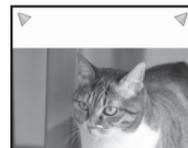
3 ●
  ● Editing is complete.

Scribbling

Drag finger on Display to scribble or sketch.

1 **In Picture Editor menu,**
  Scribbling ➡ ●

2 **Drag finger freely on image**

3 ●
  ● Editing is complete.

Changing Line Thickness & Color
　In ②, ✉ ➡ Select thickness ➡ ● ➡
　Select color ➡ ● ➡ ✓
Zooming In
　In ②, ✓
Viewing Portions Outside Display
　In ②, drag arrows at the corners

Face Arrange

Make faces smiley, sad, etc.

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

Face Arrange
Collage:Right-half
Collage:Left-half
Grin
Mad
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

---
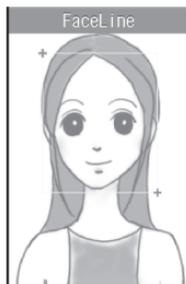
4 **●**
 ● Face line is set. Set the eyes and then mouth in the same way.
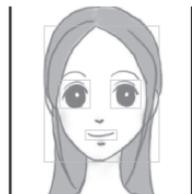
5 **● ▶ *Yes* ▶ ● ▶ *Save here* ▶ ●**
 ● Image is saved as a new entry with Face Arrange positions adjusted. Complete Face Arrange. Face Arrange is applied to the adjusted positions.

7

Camera & Imaging

7-19

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 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* ➡ ●

   Merge Panorama
   1 XXXXXX_XXXXXX.jpg
   2 <Empty>
   EFFECT Standard

   Flip

   ● File selected in **2** is set as left image.

6. *<Empty>* ➡ ● ➡ Select image ➡ ●

7. *EFFECT* ➡ ● ➡ Select effect ➡ ●

   ● Editing is complete.

8. When finished, ☞
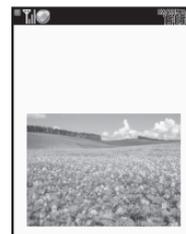
   ● Merged image appears.

9. ●

10. Enter name ➡ ● ➡ *Save here* ➡ ●

Changing Images
After **7**, select image ➡ ● ➡ ✉ ➡ Select image ➡ ●

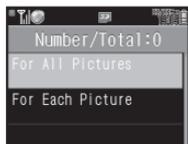**Switching Image Positions**
After **6**, ✉

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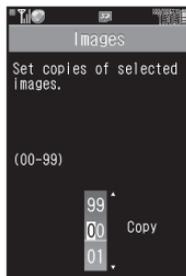
DPOF settings made on other devices are unusable; delete existing settings to create new ones on handset.

1. ● ➔ *Settings* ➔ ● ➔ ⊙ *Connectivity*

2. *Memory Card* ➔ ● ➔ *DPOF* ➔ ●

3. *Number of Copies* ➔ ●

```
Number/Total:0
For All Pictures
For Each Picture
```

4. *For Each Picture* ➔ ● ➔ Select folder ➔ ●

5. Select image ➔ ☺

```
Images
Set copies of selected
images.

(00-99)

99
00      Copy
01
```

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.7-25**)

7

Camera & Imaging

Photo Camera & Video Camera

■ General

Accessing files from Viewfinder	**In Photo/Video Viewfinder,** ⊜ ➡ *Data Folder* ➡ ● ➡ Select file ➡ ●
Opening Help	**In Photo/Video Viewfinder,** ⊜ ➡ *Help* ➡ ● ● Press ⓨ to toggle Help window for Touch Panel, indicator descriptions and key assignments.
Changing function assigned to Camera Key (⚬◻)	● ➡ *Camera* ➡ ● ➡ *Set Camera Key* ➡ ● ➡ Select function ➡ ●

■ Capturing

Activating Mobile Light	**In Photo/Video Viewfinder,** ⊜ ➡ *Mobile Light* ➡ ● ➡ *On* or *Automatic* ➡ ● ● *Low Light* is also available for still image capture. ● Do not use Mobile Light near people's faces or look into the light yourself.
Adjusting brightness	**In Photo/Video Viewfinder,** ⊜ ➡ *Settings* ➡ ● ➡ *Exposure* ➡ ● ➡ Adjust level
Changing image quality	**In Photo/Video Viewfinder,** ⊜ ➡ *Settings* ➡ ● ➡ *Picture Quality* or *Video Quality* ➡ ● ➡ Select quality ➡ ●
Adjusting focus quickly for close-up shots	**In Photo/Video Viewfinder,** ⊜ ➡ *Focus Setting* ➡ ● ➡ *Macro* ➡ ●
Adjusting focus manually	**In Photo/Video Viewfinder,** ⊜ ➡ *Focus Setting* ➡ ● ➡ *Manual Focus* ➡ ● ➡ ⓠ Adjust focus ➡ ● ● To readjust focus, press ⟳.

Locking focus	**In Photo/Video Viewfinder,** ⟳ ● Frame subject in center of Display first. ● To start over, press ⟳ again.

■ Saving

Selecting automatic save option	**Start Here** **In Photo/Video Viewfinder,** ⊜ ➡ *Save Setting* ➡ ● ➡ *Auto Save* ➡ ● ➡ **See below** **For Still Images** Select option ➡ ● ● When *Off*, press ● after image capture to save. **Saving Video Automatically** *On* ➡ ●
Changing save location	**In Photo/Video Viewfinder,** ⊜ ➡ *Save Setting* ➡ ● ➡ *Save Pictures to* or *Save Videos to* ➡ ● ➡ Select option ➡ ●

Photo Camera

■ General

Changing shutter click sound	**In Photo Viewfinder,** ⊜ ➡ *Shutter Setting* ➡ ● ➡ *Shutter Sound* ➡ ● ➡ Select pattern ➡ ● ● Shutter click sounds for Continuous Shoot, Panorama Picture and Scanner are fixed.
Switching indicator view	**In Photo Viewfinder,** ⊜ ➡ *Settings* ➡ ● ➡ *Display Setting* ➡ ● ➡ Select option ➡ ●
Changing send option assigned to ⓨ	**In Photo Viewfinder,** ⊜ ➡ *Settings* ➡ ● ➡ *Set Send Key* ➡ ● ➡ *Short press* or *Long press* ➡ ● ➡ Select option ➡ ● ● Change send option separately for each key press method.

Disabling quick transition to Viewfinder after saving images	In Photo Viewfinder, ☺ ➔ *Save Setting* ➔ ◉ ➔ *Background Save* ➔ ◉ ➔ *Off* ➔ ◉

■ **Capturing**

Adjusting camera's light sensitivity	In Photo Viewfinder, ☺ ➔ *Settings* ➔ ◉ ➔ *ISO Sensitivity* ➔ ◉ ➔ Select level ➔ ◉ ● ISO Sensitivity is *Auto(~800)* by default. However, 800 or higher sensitivity may be applied depending on environment.
Changing image size	In Photo Viewfinder, ☺ ➔ *Picture Size* ➔ ◉ ➔ Select size ➔ ◉
Adjusting smile detection level	In Photo Viewfinder, ☺ ➔ *Shutter Setting* ➔ ◉ ➔ *Egao level* ➔ ◉ ➔ Select level ➔ ◉ ● Lower the level when detection is slow.
Adjusting color balance according to lighting conditions	In Photo Viewfinder, ☺ ➔ *Settings* ➔ ◉ ➔ *White Balance* ➔ ◉ ➔ Select mode ➔ ◉
Disabling shake reduction	In Photo Viewfinder, ☺ ➔ *Settings* ➔ ◉ ➔ *Shake Reducing* ➔ ◉ ➔ *Off* ➔ ◉

■ **Focus**

Setting Center Auto Focus	In Photo Viewfinder, ☺ ➔ *Focus Setting* ➔ ◉ ➔ *Center Auto Focus* ➔ ◉
Canceling Continuous AF	In Photo Viewfinder, ☺ ➔ *Focus Setting* ➔ ◉ ➔ *Continuous AF* ➔ ◉ ➔ *Off* ➔ ◉

Canceling Chase Focus	In Photo Viewfinder, ☺ ➔ *Focus Setting* ➔ ◉ ➔ *Chase Focus* ➔ ◉ ➔ *Off* ➔ ◉
Changing Focus Mark	In Photo Viewfinder, ☺ ➔ *Focus Setting* ➔ ◉ ➔ *Focus Mark* ➔ ◉ ➔ Select pattern ➔ ◉

■ **Correction/Preview**

Checking image details before saving	After image capture, $1^{\text{#}}$ - $9^{\text{#}}$ (Long) or Long Touch portion ● Available when Auto Save is *Off*. ● Use ⊙ or drag within enlarged portion to see other portions enlarged. Press ◉ or double-tap to enlarge further. Press ⌫ to cancel. ● Key Assignments: ■ Portrait $1^{\text{#}}$ (Upper left) $2^{\text{#}}$ (Upper center) $3^{\text{#}}$ (Upper right) $4^{\text{#}}$ (Left) $5^{\text{#}}$ (Center) $6^{\text{#}}$ (Right) $7^{\text{#}}$ (Lower left) $8^{\text{#}}$ (Lower center) $9^{\text{#}}$ (Lower right) ■ Landscape (rotated 90 degrees counterclockwise) $3^{\text{#}}$ (Upper left) $6^{\text{#}}$ (Upper center) $9^{\text{#}}$ (Upper right) $2^{\text{#}}$ (Left) $5^{\text{#}}$ (Center) $8^{\text{#}}$ (Right) $1^{\text{#}}$ (Lower left) $4^{\text{#}}$ (Lower center) $7^{\text{#}}$ (Lower right) ● May be unavailable depending on image size, etc.

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 Options menu depending on Auto Save setting.
Seeking guidance for better shots	**After image capture, tap ☺ (Guide)** ● Follow onscreen instructions.

■ **Panorama Picture**

Changing Panorama settings	**Start Here** In Photo Viewfinder, ⊠ ➡ *Modes* ➡ ⦿ ➡ *Panorama/Scanner* ➡ ⦿ ➡ See below
	Hiding Guides *Assisting Lines* ➡ ⦿ ➡ *Off* ➡ ⦿
	Locking Display Brightness during Image Capture *AE-Lock* ➡ ⦿ ➡ *Enable* ➡ ⦿
Changing Panorama image preview method	**In Panorama preview,** ⊠ ➡ *Manual Scroll* or *Full Image* ➡ ⦿ ● Available when Auto Save is *Off*.

■ **Bluetooth® Watches**

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 Setting* ➡ ⦿ ➡ *Set Remote Shutter* ➡ ⦿ ➡ *Off* ➡ ⦿ ● Available when a Bluetooth® watch is registered.

Video Camera

Capturing images while recording video	**While recording,** ⊠ ● Captured images are saved when saving recorded clip; open them via Review or Data Folder.
Changing recording time/size	**In Video Viewfinder,** ⊠ ➡ *Record Time/Size* ➡ ⦿ ➡ *For Message* or *Extended Video* ➡ ⦿ ➡ Select size ➡ ⦿
Enlarging Viewfinder size	**In Video Viewfinder,** ⊠ ➡ *Display Size* ➡ ⦿ ➡ *Enlarge* ➡ ⦿
Recording video without sound	**In Video Viewfinder,** ⊠ ➡ *Settings* ➡ ⦿ ➡ *Microphone* ➡ ⦿ ➡ *Off* ➡ ⦿
Changing video encoding	**In Video Viewfinder,** ⊠ ➡ *Save Setting* ➡ ⦿ ➡ *Video Encode* or *Audio Encode* ➡ ⦿ ➡ Select option ➡ ⦿
Disabling shake reduction	**In Video Viewfinder,** ⊠ ➡ *Shake Reducing* ➡ ⦿ ➡ *Off* ➡ ⦿

Editing Images

■ Picture Editor

<table>
<tr>
<td rowspan="7">**Using additional editing options**</td>
<td>[Start Here] ● ➡ *Data Folder* ➡ ● ➡ *Pictures* ➡ ● ➡ Select file ➡ ● ➡ ☺ ➡ *Edit* ➡ ● ➡ *Picture Editor* ➡ ● ➡ See below</td>
</tr>
<tr>
<td>**Changing Text/Outline Color**
Paste ➡ ● ➡ ☺ ➡ Select text color ➡ ● ➡ ☺ ➡ Select outline color ➡ ● ➡ ☺</td>
</tr>
<tr>
<td>**Adding Text**
Paste ➡ ● ➡ *Free Text* ➡ ● ➡ Enter text ➡ ● ➡ ✥ Move text ➡ ●</td>
</tr>
<tr>
<td>**Adding Dates**
Paste ➡ ● ➡ *Date* ➡ ● ➡ ✥ Move date ➡ ●</td>
</tr>
<tr>
<td>**Adding Stamps**
Stamp ➡ ● ➡ Select stamp ➡ ● ➡ ✥ Move stamp ➡ ●</td>
</tr>
<tr>
<td>**Correcting Image Parameters**
Correction ➡ ● ➡ Select type ➡ ● ➡ ●</td>
</tr>
<tr>
<td>**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 [clear].

Changing File Size
File Format ➡ ● ➡ *File Size* ➡ ● ➡ Select size ➡ ●
● Changing file size may affect image quality.
● To return to Picture Editor menu, press [clear].</td>
</tr>
</table>

■ Composite

<table>
<tr>
<td rowspan="5">**Combining reduced images**</td>
<td>[Start Here] ● ➡ *Data Folder* ➡ ● ➡ *Pictures* ➡ ● ➡ Select file ➡ ● ➡ ☺ ➡ *Edit* ➡ ● ➡ *Composite* ➡ ● ➡ See below</td>
</tr>
<tr>
<td>**Creating Split Picture**
SplitPicture 480x854 or *SplitPicture 240x320* ➡ ● ➡ *<Empty>* ➡ ● ➡ Select file ➡ ● ➡ When finished, ☺ ➡ Enter name ➡ ● ➡ *Save here* ➡ ●
● Repeat from selecting *<Empty>* as needed.</td>
</tr>
<tr>
<td>**Previewing Split Picture**
While creating Split Picture, ☺ ➡ *View Composite* ➡ ●</td>
</tr>
<tr>
<td>**Changing Images**
While creating Split Picture, select image ➡ ● ➡ ☺ ➡ Select another ➡ ●</td>
</tr>
<tr>
<td>**Deleting Images**
While creating Split Picture, select image ➡ ☺ ➡ *Remove* ➡ ● ➡ *Yes* ➡ ●</td>
</tr>
</table>

DPOF

<table>
<tr>
<td rowspan="4">**Changing print settings**</td>
<td>[Start Here] ● ➡ *Settings* ➡ ● ➡ ✧ *Connectivity* ➡ *Memory Card* ➡ ● ➡ *DPOF* ➡ ● ➡ See below</td>
</tr>
<tr>
<td>**Adding Dates to Prints**
Settings ➡ ● ➡ *Add Date* ➡ ● ➡ *On* ➡ ●</td>
</tr>
<tr>
<td>**Creating an Index Print**
Settings ➡ ● ➡ *Index Print* ➡ ● ➡ *On* ➡ ●</td>
</tr>
<tr>
<td>**Resetting**
Reset Settings ➡ ● ➡ *Yes* ➡ ●</td>
</tr>
</table>

7

Camera & Imaging

7-25

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

- 933SH 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.

Captured image appears all white

- When Long Exposure is active (鼇, etc. appears), images captured in daylight or good light appear all white.

Image is dark or distorted

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

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.