

<b>Camera</b> .....	<b>8-2</b>
Getting Started .....	8-2
Photo Camera & Video Camera	
Overview .....	8-3
<b>Photo Camera</b> .....	<b>8-6</b>
Capturing Still Images .....	8-6
Selecting Camera by Use .....	8-9
Changing & Saving Camera Settings ...	8-12
Registering Faces (Detect Personal)...	8-15
<b>Video Camera</b> .....	<b>8-17</b>
Recording Video .....	8-17
Checking Golf Swing .....	8-20
Changing & Saving Video Camera	
Settings .....	8-21

<b>Opening Files</b> .....	<b>8-24</b>
Opening Saved Images via Album ...	8-24
Opening Saved Files via Review ...	8-27
<b>Editing Images</b> .....	<b>8-28</b>
Picture Editor .....	8-28
Composite .....	8-32
<b>Editing Video</b> .....	<b>8-33</b>
<b>DPOF</b> .....	<b>8-34</b>
Printing Images .....	8-34
<b>Additional Functions</b> .....	<b>8-35</b>
<b>Troubleshooting</b> .....	<b>8-42</b>

# 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

945SH 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.

## Advanced

 ● Changing function assigned to   ● Opening Help (P.8-35)



# Photo Camera & Video Camera Overview

Focus modes and sizes shown below are defaults; those with \* are fixed.

		Description	Focus Mode	Size
Standard Shooting	Easy Auto Camera	Capture nearby subjects easily (settings partially changeable)	Normal(Portrait)*	12M
	Pro Auto Camera	Capture nearby subjects easily (settings mostly changeable)	Normal(Portrait)	12M
	Quick Camera	Capture distant scenery quickly	Manual Focus*	3M
Subject & Conditions	Scene Cameras	Select one according to subject/shooting conditions	Normal(Portrait)*	12M
	Monochrome Camera	Capture black and white images	Normal(Portrait)*	12M
	Sepia Camera	Capture sepia images	Normal(Portrait)*	12M
	Long Exposure Camera	Capture images in low light (fireworks, night scenes, etc.)	Normal(Portrait)*	12M
	Shot Memo Camera	Improve text readability in captured memos, tables, etc.	Center Auto Focus*	5M
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



## Auto Shutter Release

Look Back Camera

Play whistle sound and release shutter automatically when subject turns face to camera

Normal(Portrait)\*

12M

Smile Camera

Release shutter automatically when subject smiles

Normal(Portrait)\*

12M

Self Timer Camera

Release shutter automatically after selected time elapses

Normal(Portrait)\*

12M

## Consecutive Shooting

Rapid Shooting Camera

Capture up to 100 images rapidly

Center Auto Focus

QVGA

Three-Shot Camera

Capture three consecutive images of up to 12M size automatically

Normal(Portrait)

12M

Best Select Photo

Select best image from a series of rapid shot images including moments immediately before shutter releases

Center Auto Focus

QVGA

## Special Shooting

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

Self Portrait Camera

Use guide to capture self portraits

Normal(Portrait)\*

5M



Additional  
Cameras

## Drawable Camera

Drag on captured image to scribble or sketch

Normal(Portrait)\*

Wallpaper

## Pretty Arrange Camera

Touch up faces in captured images

Normal(Portrait)\*

5M

## Face Register Camera

Register name and note for faces

Normal(Portrait)\*

VGA\*

## HD Video Camera

Record long high quality video

Normal(Portrait)

HD\*

## Video Camera for Mail

Record short video easily to send it via mail

Normal(Portrait)

QCIF

## Pro Auto Video Camera

Record video with more customizable options

Normal(Portrait)

HD

## Golf Swing Video Camera

Record and check golf swing

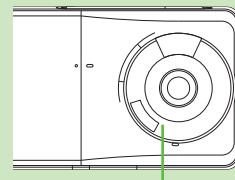
—

Wide\*

## Video Camera

## Camera-in-Use Light

- LED beside the lens flashes red while mobile camera is active. LED illuminates red while recording video.



Camera-in-Use Light



## Capturing Still Images

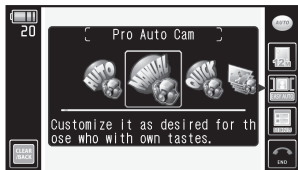
### Viewer Position

(Landscape Display Touch Panel Operations)  
Follow these steps to capture someone's image via **Pro Auto Camera**:

#### 1 Rotate Display to Viewer position

- When rotating Display to Viewer position for the first time, Viewer Position menu opens; tap **Take Picture** to complete setup.

#### 2 Tap ➡ Swipe to select Pro Auto Cam



#### 3 Tap Pro Auto Camera

- Pro Auto Camera activates.

#### 4 Frame subject on Display

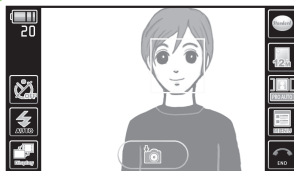


Photo Viewfinder  
(face detected)

- Focus is locked on faces automatically for Pro Auto Camera, Easy Auto Camera, etc. (Portrait auto focus)
  - When multiple faces are detected, frame appears on each face; tap one on which to lock focus.
  - Detection may fail depending on face angle, distance from subject or environment.
- Register name, note, etc. for faces; entered information appears in Viewfinder upon face detection, and captured images are sorted into albums (Portrait) when saved. (Detect Personal)

#### 5



Captured Image Window

- Shutter clicks; captured image appears.



#### 6 Tap

- Image is saved. (Viewfinder returns.)
- Open saved images via Album, Review or Data Folder.

#### 7 Tap **END** ➡ Camera shuts down


#### Mobile Light

- Mobile Light may illuminate automatically depending on ambient light level or camera mode. Follow these steps to turn setting off:

**[Photo Viewfinder]** Tap  ➡ Tap  **twice**

- May require access via **MENU** depending on camera mode.

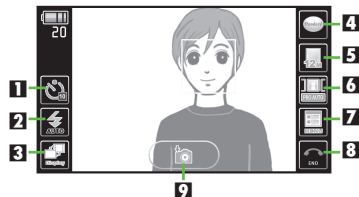
### Advanced

-  ● 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.8-35 - 8-36**)



## Pre-Image Capture Operations (Touch Panel)

Indicators appear on Display. Tap one to adjust the corresponding setting or execute the assigned command.  
Indicators vary by camera mode.



1	Self-timer	6	Switch cameras
2	Mobile Light	7	MENU
3	Toggle indicator view	8	Exit
4	Scene	9	Release shutter
5	Picture Size		

**Toggling Indicator View**  
[Photo Viewfinder] Tap **Display**

## Additional Operations

Shortcuts:

<b>Zoom In/Out</b>	Drag up or down across image
<b>Adjust Brightness</b>	Drag left or right across image
<b>Focus Lock</b>	Tap image

Tap **MENU** for more functions/settings.

### Opening Help

[Photo Viewfinder] Tap **MENU** ➔ Tap **Help** twice

### Clamshell Open

(Portrait Display Handset Key Operations)  
Follow these steps to capture someone's image via **Quick Camera**:

- 1
  - Photo Viewfinder appears.
- 2 ➔ **Switch Camera** ➔ ➔ **Quick Cam** ➔

## 3 Frame subject on Display

- Faces are not detected automatically for Quick Camera. For close-up portrait shots, press and use to adjust focus. (Manual Focus)

## 4

- Shutter clicks; captured image is saved. (Viewfinder returns.)
- Open saved images via Album, Review or Data Folder.

## 5

➔ **Camera shuts down**

### 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

• Correcting portrait auto focus images (And more on **P.8-37**)



### Pre-Image Capture Operations (Handset Keys)

Zoom In/Out	
Adjust Brightness	
Toggle Mobile Light Mode	
Toggle Indicator View	
Open Help	

Press to open Options menu for more functions/settings.

### 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.
- May be unavailable depending on camera mode.

### 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 or **OK** to return to Viewfinder.

### Using Handset Keys

[Photo Viewfinder] Frame subject in center of Display ➔ ➔

### Canceling Focus Lock

- Release or 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 & Usage

945SH Picture Size & Corresponding Usage:

<b>12M</b>	A3 prints
<b>8M</b>	A4 prints
<b>5M</b>	B5 prints
<b>3M</b>	L to 2L prints
<b>Full HD</b>	Full HD display wallpaper
<b>Wallpaper</b>	945SH Wallpaper
<b>VGA</b>	Blog posts, etc.
<b>QVGA</b>	Mail attachments, etc.

For image specifications, see **P.17-21** "Photo Camera."

### Smart Resize Zoom

- At **12M(Smart Resize)**, Picture Size changes with zoom scale (print quality may be affected); check the size on indicator before image capture.





# Selecting Camera by Use

## Switching Cameras

(Landscape Display Touch Panel Operations)

- 1 In Photo Viewfinder, tap camera selection indicator (📷, etc.)



- Alternatively, in Main Menu, **Camera** ➔ **Various Cameras** to select camera.

- 2 Swipe to select camera

- 3 Tap camera

- Selected camera activates.
- For subsequent operations, see "Using Selected Camera."

## Using Selected Camera

(Landscape Display Touch Panel Operations)

### ■ Rapid Shooting Camera

- 1 Tap 📷
- 2 Tap mode twice
- 3 Frame subject on Display ➔  
• After image capture, thumbnails appear.
- 4 Tap **Options** ➔ Tap **Check All**
- 5 Tap **Save**  
• All captured images are saved.  
• Save process may take some time depending on the number of captured images.

## Saving Selected Images

After 📷, tap image (👉) ➔ Tap **Save**  
Creating Strobe Photo (Composite Image)

After 📷, tap 📷 ➔ Tap **Yes** ➔ Tap **OK**

- Tap 📷 to save.
- May be unavailable depending on the number of captured images.

### ■ Look Back Camera

- 1 Frame subject on Display ➔ Tap 📷 or 📷  
• Whistle sound plays.
- 2 Face detection activates and shutter releases; image appears
- 3 Tap **OK**  
• Viewfinder returns.

## Advanced

- 👉 ● Changing continuous shooting mode ● Combining successive images ● Changing Look Back Camera sound (P.8-36)



## ■ Smile Camera

- 1 Frame subject on Display
- 2 Smile detection activates and shutter releases; image appears

3 Tap **OK**

- Viewfinder returns.

## ■ Self Timer Camera

## 1 Frame subject on Display



- Countdown starts.

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

3 Tap **OK**

- Viewfinder returns.

## ■ Wallpaper Camera

## 1 Frame subject on Display



- Wallpaper preview appears.

2 Tap **Setting**

- Image is set as Wallpaper.  
(Viewfinder returns.)

## ■ Auction Camera

## 1 Frame subject on Display



- First preview image appears.

## 2 Tap

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

3 Tap **Yes**

## ■ Messaging Camera

## 1 Frame subject on Display



## 2 Tap

- Mail Composition window opens.  
Complete and send message.

## ■ Shot Memo Camera

## 1 Frame subject on Display

2 Tap ➔ **Correction starts**  
➔ **Swipe to select preview image** ➔ **Tap Apply**

## 3 Tap

- Viewfinder returns.

## ■ Pretty Arrange Camera

## 1 Frame subject on Display



## 2 Tap

- Face is touched up.
- To cancel, tap .

3 Tap **Apply** ➔ Tap 

- Viewfinder returns.

**Adjusting Each Effect Separately**  
After 2, tap corresponding indicator  
(, etc.)

- Tap the same indicator repeatedly for further adjustment.

**When Multiple Faces are Detected**

- After 2, tap to touch up all faces. To touch up select faces, follow these steps:

Tap frame () ➔ Tap ➔ 3

**Editing Images**

After 1, tap ➔ Tap effect




- For more, see P.8-28 "Picture Editor."

**Advanced**

- Selecting Self-timer time/repeat interval (P.8-35)
- Adjusting smile detection level • Changing Clock/Calendar type for Wallpaper Camera (P.8-36 - 8-37)




## ■ 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

Activate Self Portrait Camera with handset open and follow these steps:

- 1 **Turn handset upside down**
- 2 **Rotate Display 180 degrees ➡ Tap OK**
- 3 **Frame your face on Display and look into the lens**
- 4 **Face detection activates, tones sound, and shutter releases; image appears**
- 5 
  - Viewfinder returns.



## ■ Additional Cameras

<b>Three-Shot Camera</b>	Frame subject on Display ➡  ➡ Tap image ➡ Tap <b>Save</b> • To save all images, see  -  in "Rapid Shooting Camera" on P.8-9.
<b>Best Select Photo</b>	
<b>Scene Cameras</b>	
<b>Monochrome Camera</b>	Frame subject on Display ➡ 
<b>Sepia Camera</b>	
<b>Long Exposure Camera</b>	Frame subject on Display ➡  <ul style="list-style-type: none"> <li>• Shutter is left open for approximately 30 seconds before image capture.</li> </ul>
<b>Blog Camera</b>	Frame subject on Display ➡  ➡ Tap  ➡ Proceed with blogging
<b>Drawable Camera</b>	Frame subject on Display ➡  ➡ Tap  ➡ Drag on image ➡ Tap <b>Assign</b>
<b>Scanner Camera</b>	Frame subject on Display ➡  ➡ Move handset slowly to scan the area to capture ➡ 

## Advanced

-   Changing panorama/scanner settings  Previewing panorama image  Changing panorama image preview method  Changing exposure time for Long Exposure Camera (P.8-37)



## Changing & Saving Camera Settings


Change settings by 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.8-35 - 8-36**. In addition to these, there are settings unique to each tailored camera.

### Major Items

		Description
<div>8</div> <div>Camera &amp; Imaging</div> <div>Focus</div>	Focus Mode	Select <b>Normal(Portrait)</b> , <b>Center Auto Focus</b> , <b>Macro</b> or <b>Manual Focus</b>
	Continuous AF	Adjust focus as focus-locked subject's position changes; choose <b>On</b> or <b>Off</b>
	Chase Focus	Track focus-locked subject as it moves within framed image; choose <b>On</b> or <b>Off</b>
	Focus Mark	Select focus frame design from <b>Pattern 1</b> to <b>Pattern 6</b>
<div>Shutter</div>	Self-timer	Select <b>10 sec.</b> , <b>5 sec.</b> , <b>2 sec.</b> or <b>Off</b>
	Shutter Mode	Select <b>Normal</b> (manual), <b>Egao</b> (smile detection) or <b>Furimuki</b> (face detection)
	Shutter Sound	Select shutter click sound from <b>Pattern 1</b> to <b>Pattern 3</b>
<div>Image Size &amp; Quality</div>	Picture Size	Select image size from <b>12M(3000x4000)</b> to <b>QVGA(240x320)</b>
	Picture Quality	Select image quality from <b>High Quality</b> , <b>Fine</b> and <b>Normal</b>



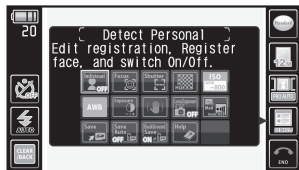
		Description
Conditions	ISO Sensitivity	Select light sensitivity from <b>Auto</b> (~800) to <b>Auto(High:~12800)</b> and <b>100</b> to <b>12800</b>
	White Balance	Select <b>Auto</b> , <b>Daylight</b> , <b>Cloud/Shade</b> , <b>Tungsten</b> or <b>Fluorescent</b> for best color balance
	Exposure	Select amount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



## Changing Settings

(Landscape Display Touch Panel Operations)  
Example: Picture Quality

### 1 In Photo Viewfinder, tap **MENU**



### 2 Tap **Picture Quality** twice



### 3 Tap quality twice

- Viewfinder returns.
- For some settings, current status appears in their indicators.

## Saving Changed Settings

(Landscape Display Touch Panel Operations)  
After image capture, save changed settings with a name and captured image; load saved settings in the same manner as switching cameras.

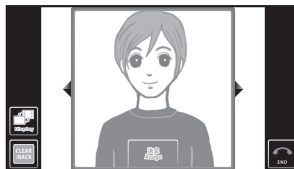
May be unavailable depending on camera mode.

### Saving as My Camera

#### 1 In captured image window, tap **Options** ➔ Tap **Save as My Camera**

- Messages appear.

#### 2 Drag frame to specify image area



- The specified portion will be used as the camera's icon.

### 3 Tap **Assign**

### 4 Tap **My Camera Name:**

### 5 Enter name ➔ Tap **Done**

### 6 Tap **Assign**

- My Camera is created.

### Entering Information

After ⑤, tap **Note:** ➔ Enter text ➔ Tap **Done** ➔ ⑥

### Using My Cameras

#### 1 In Photo Viewfinder, tap camera selection indicator (📷, etc.)

#### 2 Swipe to select My Camera

#### 3 Tap My Camera

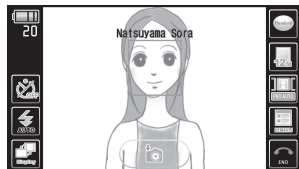
## Advanced

- 👉 ● Deleting My Cameras ● Editing My Cameras (P.8-38)

## Registering Faces (Detect Personal)

Register faces; related information appears in Viewfinder upon face detection, and captured images are sorted into albums (Portrait) 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

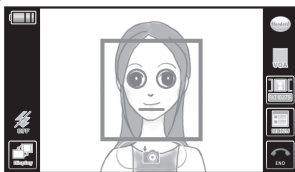
### Saving Entries

(Landscape Display Touch Panel Operations)

- 1 In Photo Viewfinder, tap **MENU**
- 2 Tap **Detect Personal**

### 3 Tap **Register Face**

### 4 Use guide to find best position



- Guide turns red when face is detected.

### 5



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

### 6 Tap **Empty**

### 7 Tap **Name:**

### 8 Enter name ➔ Tap **Done**

### 9 Tap **Assign**

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

### Entering Information

After 3, tap **Note:** ➔ Enter text ➔ Tap **Done** ➔ 9

### Setting Text Color

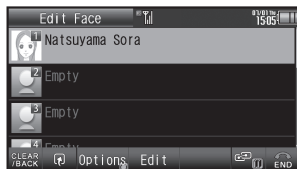
After 3, tap **Font Color:** ➔ Tap color ➔ 9

- Upon face detection, Viewfinder information appears in the selected color.



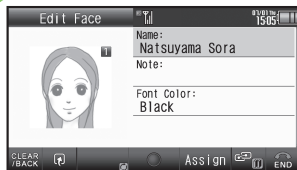
**Editing Entries**

- 1** In Photo Viewfinder, tap **MENU**
- 2** Tap **Detect Personal** ➔ Tap **Edit Face** twice



Edit Face Window

- 3** Select entry ➔ Tap **Edit**



- 4** Tap item ➔ Edit in the same manner as saving entries
- 5** Tap **Assign**
  - Entry is overwritten.

**Deleting/Moving Entries**

Follow these steps to delete an entry:

- 1** In Edit Face window, select entry
- 2** Tap **Options**
- 3** Tap **Delete** ➔ Tap **Yes**
  - Entry is deleted.

**Moving Entries (Changing Priorities)**  
After **2**, tap **Change Priority** ➔ Tap target location

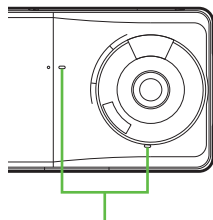




## Recording Video

### Precautions

Do not cover Recorder Microphones while recording video.



Recorder Microphones

### Viewer Position

(Landscape Display Touch Panel Operations)  
Follow these steps to record high definition video via **HD Video Camera**.  
Record up to four seconds per shot on handset.  
Insert a Memory Card to record longer shots.

#### 1 (Long)



Video Viewfinder  
(HD Video Camera)

#### 2 Frame subject on Display



- Recording starts after a tone.



- Recording stops with a tone.
- After video is saved, file plays and Viewfinder returns.
- Play saved video via Review, Data Folder or Media Player.

### Incoming Calls

- If a call arrives before video is saved, recorded clip is temporarily saved. After the call, video is saved, file plays and Viewfinder returns.

### If Battery Runs Low

- Recording stops. (Recorded clip is saved.)

### Switching Video Cameras

[Video Viewfinder] Tap **MENU** ➔ Tap **Simple Setting** ➔ Tap video camera

### Advanced

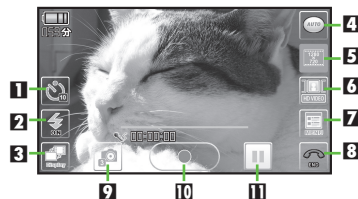
- Adjusting focus quickly for close-up shots ● Changing image quality ● Activating Mobile Light ● Capturing images while recording video (still image capture) ● Changing Microphone mode (And more on **P.8-38 - 8-39**)



## Video Viewfinder Operations (Touch Panel)

Indicators appear on Display. Tap one to adjust the corresponding setting or execute the assigned command.

Indicators vary by camera mode.



<b>1</b> Self-timer	<b>7</b> MENU
<b>2</b> Mobile Light	<b>8</b> Exit
<b>3</b> Toggle indicator view	<b>9</b> Capture still image
<b>4</b> Scene	<b>10</b> Start recording
<b>5</b> Recording size	<b>11</b> Pause/resume recording
<b>6</b> Switch cameras	

**Toggling Indicator View**  
[Video Viewfinder] Tap *Display*

## Additional Operations

<b>Zoom In/Out</b>	Drag up or down across image
<b>Adjust Brightness</b>	Drag left or right across image
<b>Focus Lock</b>	Tap image
<b>Cancel Recording (Start Over)</b>	Tap <b>CLEAR/BACK</b> (in Viewer position only)

\*May be unavailable depending on recording size.

Tap **MENU** for more functions/settings.

## Changing Scene Setting by Subject

[Video Viewfinder] Tap ➔ Tap scene

## Opening Help

[Video Viewfinder] Tap **MENU** ➔ Tap **Help**

## Switching Cameras

[Video Viewfinder] Tap camera selection indicator (, etc.) ➔ Swipe to select camera ➔ Tap camera



## Clamshell Open

(Portrait Display Handset Key Operations)  
Follow these steps to send recorded video  
via mail 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

- Recording stops with a tone.
- After video is saved, file plays.

5 **During playback,**

6 **S! Mail** ➔

- Mail Composition window opens.

7 **Complete message** ➔

## Switching Video Cameras

[Video Viewfinder] ➔ **Simple Setting** ➔ ➔ **Select video camera**  
➔

Video Viewfinder Operations  
(Handset Keys)

Zoom In/Out	/
Adjust Brightness	/
Mobile Light On/Off	
Change Quality	
Pause/Resume Recording	While Recording, *
Capture Still Image	While Recording,
Cancel Recording (Start Over)	
Open Help	

\*May be unavailable depending on recording size.

Press to open Options menu for more functions/settings.





## Checking Golf Swing

Play two golf swing video files simultaneously for comparison.

Be sure there is ample swinging space before recording golf swings.

## Recording with Golf Swing Video Camera

(Landscape Display Touch Panel Operations)

- 1** In Video Viewfinder, tap camera selection indicator (, etc.)
- 2** Swipe to select *GolfSwingVideoCam* and tap it
- 3** Frame head within green circle ➡ 
  - Countdown starts.
  - Recording starts after approximately ten seconds; video is saved automatically.









## Self-Recording







- Activate Golf Swing Video Camera with handset open and rotate Display 180 degrees to record yourself. Viewfinder image appears reversed; to display a mirror image, follow these steps:
- Tap Options ➤ Tap Settings ➤ Tap Display Setting ➤ Tap Mirror**

## Comparing Golf Swings

(Portrait Display Handset Key Operations)  
Play two video files recorded with Golf  
Swing Video Camera simultaneously in  
slow motion for comparison.

- Simultaneous playback may be unavailable for other video files.
- Golf Swing Play supports video recorded with Golf Swing Video Camera only.
- Simultaneous/synchronous playback may be unavailable depending on recording conditions (swing speed difference, background, etc.).











- 1  ➔ *Entertainment* ➔   
➔ *Media Player* ➔ 
- 2 *Videos* ➔  ➔ *Golf Swing Play* ➔ 
- 3 Select storage media ➔ 
- 4 Select first file ➔  (☐/✓)
- 5 Select second file ➔  (☐/✓)

- 6  To suppress message, press .
- 7    Synchronizing process starts.
- 8  Slow motion playback starts.



## Adjusting Head Position

In    $\Rightarrow$   (Chg. Up) or  (Chg.Low)  $\Rightarrow$   Move circle to frame head  $\Rightarrow$    $\Rightarrow$    $\Rightarrow$  

## Setting Swing Direction & Point of View

In 7,    (Chg. Up) or   
(Chg.Low)  (Prev.) or  (Next)  
    8

## Pausing Playback

- In pause, press  to advance frame or Long Press  for super slow motion playback (release for pause).

### Replaying during Playback



### Playing at Normal Speed

In 8,  (Long)

## Changing & Saving Video Camera Settings

Change settings by purpose/shooting conditions; save frequently used settings as My Video Camera for future use.

- Some settings may be unavailable depending on camera mode (no corresponding indicators appear).
- For setting procedures, see **P.8-38 - 8-39**.

### Major Items

		Description
Focus	Focus Mode	Select <b>Normal(Portrait)</b> , <b>Manual Focus</b> or <b>Macro</b>
	Chase Focus	Track focus-locked subject as it moves within framed image; choose <b>On</b> or <b>Off</b>
Video Size & Quality	Picture Size	Select recording size from <b>HD(1280x720)</b> to <b>QCIF(176x144)</b>
	Video Quality	Select <b>High Quality</b> , <b>Fine</b> or <b>Normal</b>
Microphone	Microphone	Record video with sound; choose <b>On</b> or <b>Off</b>
	Microphone Mode	Select <b>Wide</b> , <b>Focus</b> or <b>Chase</b>



## Conditions

Exposure

Select amount of light received by camera from **-2** to **+2**

Mobile Light

Activate Mobile Light; choose **On** or **Off**

ND Filter Setting

Select **Auto** or **Fixed**

## Save Settings

Save Videos to

Select **Memory Card Priority**, **Memory Card Fixed**, **Phone Memory** or **Ask Each Time**

Auto Save

Select **On(Preview Off)**, **On(Preview On)** or **Off**

## Other

Shake Reducing

Enable shake reduction; choose **On** or **Off**

Display Setting

Select indicator/Viewfinder view from **Normal**, **Guidance**, **Icon Off** and **Mirror**

Self-timer

Select **10 sec.**, **5 sec.**, **2 sec.** or **Off**

Video/Audio Encode

Select **H.264/ACC** or **MPEG4/AMR**

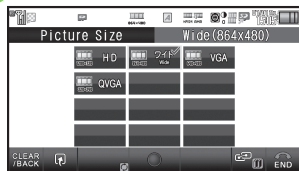
## Changing Settings

(Landscape Display Touch Panel Operations)  
Example: Picture Size (recording size)

### 1 In Video Viewfinder, tap **MENU**



### 2 Tap **Picture Size**



### 3 Tap **size**

- Viewfinder returns.
- For some settings, current status appears in their indicators.

## Saving Changed Settings

(Landscape Display Touch Panel Operations)  
Save changed settings as My Video Camera and load them as needed.  
Change settings beforehand.

### Saving as My Video Camera

#### 1 In Video Viewfinder, tap **MENU** ➔ Tap **Simple Setting**

#### 2 Tap **Save as My Video1** or **Save as My Video2**

- Settings are saved as My Video Camera.

**Overwriting Saved My Video Camera**  
After 2, tap Yes

## Using My Video Cameras

### 1 In Video Viewfinder, tap **MENU** ➔ Tap **Simple Setting**

### 2 Tap My Video Camera





## Opening Saved Images via Album

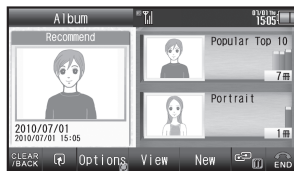
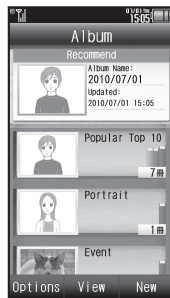
### Basics

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

<b>Portrait</b>	Stores portraits sorted into albums by face registered via Detect Personal
<b>Event</b>	Stores images sorted into albums by period scheduled in Calendar
<b>By Camera</b>	Stores images sorted into albums by camera mode
<b>By Date</b>	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 **Portrait**). In addition, a single image with multiple registered faces will be stored in each subject's album in **Portrait**.

### Opening Albums

(Portrait Display Handset Key Operations)

- 1 ➔ **Camera** ➔ ➔ **Album** ➔



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 (Still Images)

After 2, select album ➡ ➡ *Slide Show* ➡

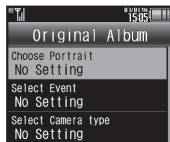
#### Copying/Moving Images to Other Albums

After 4, ➡ *Copy to Album (or Move to Album)* ➡ ➡ *Select category* ➡ ➡ *Select album* ➡

- Images in By Date or By Camera albums cannot be moved.

### Creating Original Albums

### 1 In Album window, ➡ *Create Original Album* ➡



### 2 Choose Portrait ➡

### 3 Select entry ➡

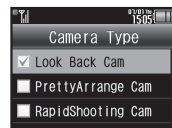


- Repeat to complete selection.

### 4

### 5 Select Camera type ➡

### 6 Select camera ➡



- Repeat 3 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* ➡

- For items other than *Select Date/Time*, press again.



## Editing Albums

Some albums may not be edited.

## Renaming Albums

## 1 In 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 ➔ ●



## 3 Select folder ➔ ●

- For *DCIM Folder*, select a folder and press ●.

## 4 Select image ➔ ●

## Adding Images via Data Folder

- ➔ *Data Folder* ➔ ● ➔ *Pictures, DCIM or Videos* ➔ ● ➔ *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 ➔ ●



- 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."

## Advanced

- Changing album covers
- Sorting albums
- Unlocking Secret Data Folder temporarily
- Opening album properties
- Removing images from albums
- Deleting images (P.8-39)



## Opening Saved Files via Review

### Opening Last Saved File

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

- 1 ➔ **Camera** ➔
- 2 **Review** ➔



Review Window

- To end Review, press .

### Enlarging Images

After ,

### Pausing/Resuming Video

After , (press to pause/resume)

### Opening Help

[Review Window]

### Accessing Older Files

- 1 In Review window,



Review File List

- File list appears.
- Press to toggle lists.

- 2 **Select file** ➔
- File opens/plays.



## Picture Editor

### Picture Editor Options

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

<b>Resize</b>	Select from preset sizes or crop image
<b>Frame</b>	Add Frame to images
<b>Paste</b>	Add text/dates to images
<b>Retouch</b>	Dress up images with preloaded visual effects
<b>Stamp</b>	Add stamps to images
<b>Face Arrange</b>	Make smiley, angry or sad faces
<b>Correction</b>	Correct images
<b>Rotate</b>	Rotate images
<b>Mosaic</b>	Apply mosaic effect to images
<b>Paint Pen</b>	Scribble or sketch
<b>File Format</b>	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 .

- 6 **When finished**,

- 7 **Save as New** ➔

• To overwrite, select **Overwrite** and press . (Omit .)

- 8 **Enter name** ➔ ➔ **Save here** ➔

### Canceling Effects

**After** , **Undo** ➔

■ To restore effect immediately after canceling, select **Redo** and press .

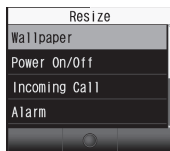


## Changing Image Size

Select from preset sizes or crop image.

### Resize to Preset Size

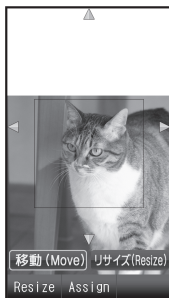
- 1 In Picture Editor menu, **Resize** ➡ ●



Resize Window

- 2 Select size ➡ ●

- 3 ● Specify image area



- If crop frame does not appear, omit ③.

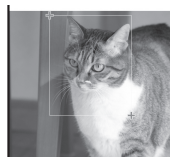
- 4 ●
- Editing is complete.

### 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

## Advanced

- Using additional editing options (P.8-40)



## Scribbling

Drag to scribble or sketch.

- 1 In Picture Editor menu, *Paint Pen* ➔ ●

- 2 Drag freely on image



- 3 ●  
• Editing is complete.

## Changing Line Thickness &amp; Color

- In ②, [P] ➔ Select thickness ➔ ● ➔ [C] ➔ Select color ➔ ● ➔ [Y]

## Using Pictograms

- In ②, [P] ➔ [P] ➔ Select size ➔ ● ➔ Select Pictogram ➔ ● ➔ [Y]

## Canceling Last Action

- Press [Undo].

## Zooming In

- In ②, [Y]

## Viewing Portions Outside Display

- In ②, drag arrows at the corners

## 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.

## Face Arrange

Make faces smiley, sad, etc.

- 1 In Picture Editor menu, *Face Arrange* ➔ ●



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,

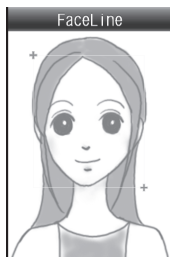


- A rectangle appears with + in the upper left corner.

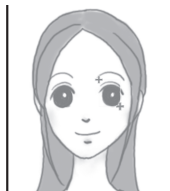
### 2 Move + to top left of face



### 3 Move + to bottom right of face



### 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.



# Composite

## Composite Options

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

<b>Split Picture</b>	Combine up to four reduced images into one
<b>Merge Panorama</b>	Combine two still images into one

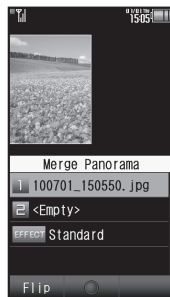
## Panorama Images

Panorama Image Effects:

<b>Near View</b>	Best suited for close-up shots
<b>Document</b>	Use for images with text
<b>Standard</b>	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 6, select image ➔ ➔ ➔ ➔

Select image ➔

### Switching Image Positions

After 6,

## Advanced

- Combining reduced images (P.8-40)





## Editing Video

Select start/end points to crop clips.  
Available only for files recorded on  
SoftBank handsets by SHARP. (Some  
files may not be editable.)

- 1 ● ➔ **Data Folder** ➔ ●
- 2 **Videos** ➔ ● ➔ **Select file**  
➔ ●
- 3 ● ➔ **Edit** ➔ ●



- 4 ● Select start point ➔ ●
  - Start point is set.
- 5 ● Select end point ➔ ●
  - End point is set, then portion between two points plays.
- 6 ●
  - The portion is saved and playback starts.



## Printing Images

### Digital Print Order Format (DPOF)

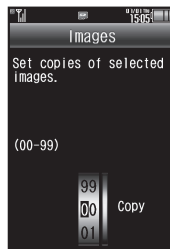
Select images from Memory Card and specify the number of copies to print on DPOF-compatible printers, or at digital printing services.

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

- 1 ➔ **Settings** ➔ ➔
- 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 6, **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.8-41)










## General






























Changing function assigned to 	 → <b>Camera</b> →  → <b>Set Camera Key</b> →  → <b>Select key</b> →  → <b>Select function</b> → 
---	---

## Photo Camera

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

Opening Help	In Photo Viewfinder,  → <b>Help</b> →  • Press  to toggle Help window for Touch Panel and key assignments.
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 <b>On</b> beforehand. For details, see the Bluetooth® watch guide.
Disabling remote shutter control via Bluetooth® watches	In Photo Viewfinder,  → <b>Shutter Settings</b> →  → <b>Set Remote Shutter</b> →  → <b>Off</b> →  • Available when a Bluetooth® watch is registered.

## Photo Camera Settings (General)

Selecting Self-timer time/ repeat interval	In Photo Viewfinder,  → <b>Self-timer</b> →  Select time →  • For Self Timer Camera, select time or repeat interval.
Changing image size	In Photo Viewfinder,  → <b>Picture Size</b> →  → Select size → 
Setting Center Auto Focus	In Photo Viewfinder,  → <b>Focus Setting</b> →  → <b>Center Auto Focus</b> → 
Adjusting focus quickly for close-up shots	In Photo Viewfinder,  → <b>Focus Setting</b> →  → <b>Macro</b> → 
Adjusting focus manually	In Photo Viewfinder,  → <b>Focus Setting</b> →  → <b>Manual Focus</b> →  → Adjust focus →  • To readjust focus, press  .
Canceling Continuous AF	In Photo Viewfinder,  → <b>Focus Setting</b> →  → <b>Continuous AF</b> →  → <b>Off</b> → 
Canceling Chase Focus	In Photo Viewfinder,  → <b>Focus Setting</b> →  → <b>Chase Focus</b> →  → <b>Off</b> → 
Changing focus frame design	In Photo Viewfinder,  → <b>Focus Setting</b> →  → <b>Focus Mark</b> →  → Select pattern → 



Releasing shutter when subject smiles	In Photo Viewfinder, <b>Shutter Settings</b> <b>Shutter Mode</b> <b>Egao</b>
Adjusting smile detection level	In Photo Viewfinder, <b>Shutter Settings</b> <b>Egao level</b> <b>Select level</b> <ul style="list-style-type: none"> <li>Lower the level when detection is slow.</li> </ul>
Releasing shutter when subject turns face to camera	In Photo Viewfinder, <b>Shutter Settings</b> <b>Shutter Mode</b> <b>Furumuki</b>
Changing shutter click sound	In Photo Viewfinder, <b>Shutter Settings</b> <b>Shutter Sound</b> <b>Select pattern</b> <ul style="list-style-type: none"> <li>Shutter click sounds for continuous shooting and panorama/scanner image capture are fixed.</li> </ul>
Changing image quality	In Photo Viewfinder, <b>Settings</b> <b>Picture Quality</b> <b>Select quality</b>
Adjusting light sensitivity	In Photo Viewfinder, <b>Settings</b> <b>ISO Sensitivity</b> <b>Select level</b>
Adjusting image color to lighting conditions	In Photo Viewfinder, <b>Settings</b> <b>White Balance</b> <b>Select mode</b>
Adjusting brightness	In Photo Viewfinder, <b>Settings</b> <b>Exposure</b> <b>Adjust level</b>
Selecting shake reduction option	In Photo Viewfinder, <b>Settings</b> <b>Shake Reducing</b> <b>Select option</b>
Capturing images in low light	In Photo Viewfinder, <b>Settings</b> <b>Long Exposure</b> <b>Select time</b>
Switching indicator view	In Photo Viewfinder, <b>Settings</b> <b>Display Setting</b> <b>Select option</b>

Selecting send option assigned to	In Photo Viewfinder, <b>Settings</b> <b>Set Send Key</b> <b>Short press or Long press</b> <b>Select option</b> <ul style="list-style-type: none"> <li>Select send option separately for each key press method.</li> </ul>
Changing save location	In Photo Viewfinder, <b>Save Settings</b> <b>Save Pictures to</b> <b>Select option</b>
Selecting automatic save option	In Photo Viewfinder, <b>Save Settings</b> <b>Auto Save</b> <b>Select option</b> <ul style="list-style-type: none"> <li>When <b>Off</b>, press  after image capture to save.</li> </ul>
Disabling quick transition to Viewfinder after saving images	In Photo Viewfinder, <b>Save Settings</b> <b>Background Save</b> <b>Off</b>
Changing Mobile Light mode	In Photo Viewfinder, <b>Mobile Light</b> <b>Select mode</b> <ul style="list-style-type: none"> <li>Mobile Light goes out automatically after ten minutes. Reactivate mobile camera to re-illuminate it.</li> <li>Do not shine Mobile Light in eyes.</li> </ul>

### ■ Photo Camera Settings (Selected Camera)

Changing continuous shooting mode	In Rapid Shooting Camera Viewfinder, <b>Continuous Type</b> <b>Select mode</b>
Combining successive images	After continuous shooting, <b>Compose Strobe Photo</b> <b>Yes</b> <ul style="list-style-type: none"> <li>May be unavailable depending on the number of captured images.</li> </ul>
Changing Look Back Camera sound	In Look Back Camera Viewfinder, <b>Turn Sound</b> <b>Button 1 or Button 2</b> <b>Select sound</b>



Changing Clock/Calendar type for Wallpaper Camera	In Wallpaper Camera Viewfinder,  ➔ <b>Clock/Calendar</b> ➔  ➔ <b>Select type</b> ➔
Changing panorama/scanner settings	<b>[Start Here]</b> In Panorama Camera or Scanner Camera Viewfinder,  ➔ See below
	<b>Hiding Guides</b> <b>Assisting Lines</b> ➔  ➔ <b>Off</b> ➔
	<b>Locking Display Brightness during Image Capture</b> <b>AE-Lock</b> ➔  ➔ <b>Enable</b> ➔
Previewing panorama image	After panorama image capture, <b>Preview</b> ➔ • Available when Auto Save is <b>Off</b> .
Changing panorama image preview method	After panorama image capture, <b>Preview</b> ➔ ➔  ➔ <b>Select method</b> ➔ • Available when Auto Save is <b>Off</b> .
Changing exposure time for Long Exposure Camera	In Long Exposure Camera Viewfinder,  ➔ <b>Exposure Time</b> ➔  ➔ <b>Select time</b> ➔

## ■ Correction & Preview

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

Applying mosaic effect	<b>[Start Here]</b> After image capture,  ➔ <b>Mosaic Editor</b> ➔  ➔ See below • Available when Auto Save is <b>Off</b> . <b>Whole Face or Eyes Only</b> <b>1</b> ➔ (Whole) or <b>2</b> ➔ (Eyes) ➔  ➔ <b>All Faces</b> <b>1</b> ➔ (Whole) or <b>2</b> ➔ (Eyes) ➔ <b>1</b> ➔  ➔  ➔ <b>Selected Faces</b> <b>1</b> ➔ (Whole) or <b>2</b> ➔ (Eyes) ➔  ➔ <b>Select face</b> ➔  ➔  ➔ <b>2</b> ➔  ➔  ➔ <b>Specific Area (Square or Round)</b> <b>3</b> ➔ (Square) or <b>4</b> ➔ (Round) ➔ Move <b>+</b> to the upper left corner of the portion ➔  ➔ Move <b>+</b> to the lower right corner of the portion ➔  ➔  ➔  ➔
Improving text readability	After image capture,  ➔ <b>Shot Memo</b> ➔  ➔ <b>Correction starts</b> ➔  ➔ <b>Select preview image</b> ➔  ➔ • Available when Auto Save is <b>Off</b> .
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, <b>1</b> ➔ - <b>9</b> ➔ (Long) • Available when Auto Save is <b>Off</b> or <b>On (Preview Manual)</b> . • Use  to see other portions enlarged. Press  to enlarge further. Press  to cancel. • Key Assignments: <b>1</b> ➔ (Upper Left) <b>2</b> ➔ (Upper Center) <b>3</b> ➔ (Upper Right) <b>4</b> ➔ (Center Left) <b>5</b> ➔ (Center) <b>6</b> ➔ (Center Right) <b>7</b> ➔ (Lower Left) <b>8</b> ➔ (Lower Center) <b>9</b> ➔ (Lower Right) • May be unavailable depending on image size, etc.



Sharpening images	After image capture, <b>Kukkiri</b>
Sending images via mail	After image capture, <b>Complete message</b>
Sending images at high speed via infrared	After image capture,  (Long) <b>Yes or No</b> • Set recipient device to ready beforehand.

## My Camera

Deleting My Cameras	In Photo Viewfinder, <b>Switch Camera</b> <b>Select My Camera</b> <b>Delete My Camera</b> <b>Yes</b>
Editing My Cameras	In Photo Viewfinder, <b>Switch Camera</b> <b>Select My Camera</b> <b>Edit My Camera</b> <b>My Camera Name: or Note:</b>

## Video Camera

Opening Help	In Video Viewfinder, <b>Help</b> • Press  to toggle Help window for Touch Panel and key assignments.
Selecting Self-timer time	In Video Viewfinder, <b>Self-timer</b> <b>Select time</b>
Adjusting brightness	In Video Viewfinder, <b>Settings</b> <b>Exposure</b> <b>Adjust level</b>
Adjusting focus quickly for close-up shots	In Video Viewfinder, <b>Focus Setting</b> <b>Macro</b>

Adjusting focus manually	In Video Viewfinder, <b>Focus Setting</b> <b>Manual Focus</b> <b>Adjust focus</b> • To readjust focus, press .
Canceling Chase Focus	In Video Viewfinder, <b>Focus Setting</b> <b>Chase Focus</b> <b>Off</b>
Locking focus	In Video Viewfinder, • Frame subject in center of Viewfinder first. • To start over, press  again.
Changing image quality	In Video Viewfinder, <b>Settings</b> <b>Video Quality</b> <b>Select quality</b>
Switching indicator/Viewfinder view	In Video Viewfinder, <b>Settings</b> <b>Display Setting</b> <b>Select option</b>
Selecting automatic save option	In Video Viewfinder, <b>Save Settings</b> <b>Auto Save</b> <b>Select option</b>
Changing save location	In Video Viewfinder, <b>Save Settings</b> <b>Save Videos to</b> <b>Select option</b>
Activating Mobile Light	In Video Viewfinder, <b>Mobile Light</b> <b>On</b> • Mobile Light goes out automatically after ten minutes. Reactivate mobile camera to re-illuminate it. • Do not shine Mobile Light in eyes.
Capturing images while recording video (still image capture)	<b>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>Picture Size</b> ➔  ➔ <b>Select size</b> ➔ • Selectable item depends on camera mode.
Recording video without sound	In Video Viewfinder,  ➔ <b>Settings</b> ➔  ➔ <b>Microphone</b> ➔  ➔ <b>Off</b> ➔
Changing video encoding	In Video Viewfinder,  ➔ <b>Settings</b> ➔  ➔ <b>Video/Audio Encode</b> ➔  ➔ <b>Select option</b> ➔ • May be unavailable depending on camera mode and recording size.
Enabling shake reduction	In Video Viewfinder,  ➔ <b>Shake Reducing</b> ➔  ➔ <b>On</b> ➔
Changing Microphone mode	In Video Viewfinder,  ➔ <b>Settings</b> ➔  ➔ <b>Microphone Mode</b> ➔  ➔ <b>Select mode</b> ➔
Locking neutral density (ND) filter movement	In Video Viewfinder,  ➔ <b>Settings</b> ➔  ➔ <b>ND Filter Setting</b> ➔  ➔ <b>Fixed</b> ➔

## Album

Changing album covers	<b>Start Here</b> ➔ <b>Camera</b> ➔  ➔ <b>Album</b> ➔  ➔ <b>Select category</b> ➔  ➔ <b>Select album</b> ➔  ➔ <b>Change a Cover</b> ➔  ➔ <b>See below</b> • For By Date albums, only the latest images are available. <b>Selecting from All Images Within</b> <b>Select Picture List</b> ➔  ➔ <b>Select image</b> ➔ <b>Using Latest Image</b> <b>Latest Picture</b> ➔
Sorting albums	➔ <b>Camera</b> ➔  ➔ <b>Album</b> ➔  ➔ <b>Select category</b> ➔  ➔ <b>Select album</b> ➔  ➔  ➔ <b>Sort</b> ➔  ➔ <b>Select option</b> ➔

Unlocking Secret Data Folder temporarily	➔ <b>Camera</b> ➔  ➔ <b>Album</b> ➔  ➔  ➔ <b>Unlock Temporarily</b> ➔  ➔ <b>Enter Handset Code</b> ➔
Opening album properties	➔ <b>Camera</b> ➔  ➔ <b>Album</b> ➔  ➔ <b>Select category</b> ➔  ➔ <b>Select album</b> ➔  ➔  ➔ <b>Details</b> ➔
Removing images from albums	➔ <b>Camera</b> ➔  ➔ <b>Album</b> ➔  ➔ <b>Select category</b> ➔  ➔ <b>Select album</b> ➔  ➔ <b>Select image</b> ➔  ➔  ➔ <b>Remove from Album</b> ➔  ➔ <b>The Album or All Album</b> ➔  ➔ <b>Yes</b> ➔ • <i>The Album</i> does not appear for images under some categories.
Deleting images	➔ <b>Camera</b> ➔  ➔ <b>Album</b> ➔  ➔ <b>Select category</b> ➔  ➔ <b>Select album</b> ➔  ➔ <b>Select image</b> ➔  ➔  ➔ <b>Delete Data</b> ➔  ➔ <b>Yes</b> ➔ • Source files in Data Folder will be deleted.



## Editing Images

## Picture Editor

Using additional editing options	<p><b>Start Here</b> → <b>Data Folder</b> → <b>Pictures</b> → <b>Select file</b> → <b>Edit</b> → <b>Picture Editor</b> → See below</p> <p><b>Changing Text/Outline Color</b>  <b>Paste</b> → <b>Select text color</b> → <b>Select outline color</b></p> <p><b>Adding Text</b>  <b>Paste</b> → <b>Free Text</b> → Enter text → <b>Move text</b></p> <p><b>Adding Dates</b>  <b>Paste</b> → <b>Date</b> → <b>Move date</b></p> <p><b>Adding Stamps</b>  <b>Stamp</b> → <b>Select stamp</b> → <b>Move stamp</b></p> <p><b>Correcting Image Parameters</b>  <b>Correction</b> → <b>Select type</b></p> <p><b>Rotating Images</b>  <b>Rotate</b> → <b>Select type</b></p> <p><b>Applying Mosaic Effect</b>  <b>Mosaic</b> → <b>Select shape</b> → <b>Move</b> + to the upper left corner of the portion → <b>Move</b> + to the lower right corner of the portion</p>
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## Using additional editing options

**Start Here** → **Data Folder** → **Pictures** → **Select file** → **Edit** → **Picture Editor** → See below

## 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 **Back**.

## Changing File Size

**File Format** → **File Size** → **Select size**

- Changing file size may affect image quality.
- To return to Picture Editor menu, press **Back**.

## Composite

Combining reduced images	<p><b>Start Here</b> → <b>Data Folder</b> → <b>Pictures</b> → <b>Select file</b> → <b>Edit</b> → <b>Composite</b> → See below</p> <p><b>Creating Split Picture</b>  <b>SplitPicture 480x854 or SplitPicture 240x320</b> → <b>&lt;Empty&gt;</b> → <b>Select file</b>  When finished, <b>Enter name</b> → <b>Save here</b>  • Repeat from selecting <b>&lt;Empty&gt;</b> as needed.</p> <p><b>Previewing Split Picture</b>  While creating Split Picture, <b>View Composite</b></p> <p><b>Changing Images</b>  While creating Split Picture, select image → <b>Select another</b></p> <p><b>Deleting Images</b>  While creating Split Picture, select image → <b>Remove</b> → <b>Yes</b></p>
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## 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 



## 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

- 945SH camera has built-in mechanical shutter and neutral density (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.

### ? Operation sounds recorded

- Operation/zooming sound from built-in mechanical shutter/neutral density (ND) filter may be recorded. Canceling Chase Focus or setting ND Filter Setting to **Fixed** may reduce such sounds.

### ? An error message appeared while recording with HD Video Camera

- Did you use recommended Memory Card? Use recommended Memory Cards only. For details, see **P.17-24** "microSD Memory Card Compatibility."
- Video may not record properly on Memory Card to/from which files have been saved/ deleted repeatedly. Format the card on handset and try again. (Formatting deletes all Memory Card files; always back up important information.)

## 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.8-35).



### Continuous AF

- Focus continuously adjusts as focus-locked subject's position changes (P.8-8, P.8-35).



### Chase Focus

- Focus tracks focus-locked subject as it moves within framed image (P.8-8, P.8-35).



### Self-timer

- Releases shutter automatically after selected time elapses (P.8-10, P.8-35).



### Long Exposure

- Capture images in low light (fireworks, night scenes, etc.) (P.8-11, P.8-36).  
Stabilize handset to reduce camera shake.



### ISO Sensitivity

- Adjust light sensitivity (P.8-36). Higher ISO brightens low light images, but increases noise, making images grainy.



### White Balance

- Select a mode (Daylight, Tungsten, Fluorescent, etc.) for best color balance (P.8-36).

