

<b>Camera .....</b>	<b>8-2</b>
Getting Started .....	8-2
Photo Camera & Video Camera	
Overview .....	8-3
<b>Photo Camera.....</b>	<b>8-5</b>
Capturing Still Images .....	8-5
Selecting Camera by Use .....	8-8
Changing & Saving Camera Settings...	8-11
Registering Faces (Detect Personal)...	8-14
<b>Video Camera .....</b>	<b>8-16</b>
Recording Video .....	8-16

<b>Opening Files .....</b>	<b>8-18</b>
Opening Saved Images via Album.....	8-18
Opening Saved Files via Review .....	8-21
<b>Editing Images .....</b>	<b>8-22</b>
Picture Editor .....	8-22
Composite .....	8-25
<b>DPOF.....</b>	<b>8-26</b>
Printing Images .....	8-26
<b>Additional Functions .....</b>	<b>8-27</b>
<b>Troubleshooting.....</b>	<b>8-33</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

944SH 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 Camera Key (P.8-27)  Opening Help (P.8-27)



# 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)*	8M
	Pro Auto Camera	Capture nearby subjects easily (settings mostly changeable)	Normal(Portrait)	8M
	Quick Camera	Capture distant scenery quickly	Manual Focus*	3M
Subject & Conditions	Scene Cameras	Select one according to subject/shooting conditions	Normal(Portrait)*	8M
	Monochrome Camera	Capture black and white images	Normal(Portrait)*	8M
	Sepia Camera	Capture sepia images	Normal(Portrait)*	8M
	Long Exposure Camera	Capture images in low light (fireworks, night scenes, etc.)	Normal(Portrait)*	8M
	Shot Memo Camera	Improve text readability in captured memos, tables, etc.	Center Auto Focus*	3M
Auto Shutter Release	Look Back Camera	Play whistle sound and release shutter automatically when subject turns face to camera	Normal(Portrait)*	8M
	Smile Camera	Release shutter automatically when subject smiles	Normal(Portrait)*	8M
	Self Timer Camera	Release shutter automatically after selected time elapses	Normal(Portrait)*	8M



## Specific Objectives

## Wallpaper Camera

Show mock Clock/Calendar in Viewfinder to capture image and set it as Wallpaper

Normal(Portrait)

Wallpaper\*

## Sub-Wallpaper Camera

Capture images suited for Sub Display Wallpaper

Center Auto Focus\*

Sub-Display\*

## 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

## Special Shooting

## Rapid Shooting Camera

Capture up to 100 images consecutively

Normal(Portrait)/  
Center Auto Focus

QVGA

## Panorama Camera

Capture panoramic images of scenery, etc.

Center Auto Focus

—

## Scanner Camera

Move handset to scan the area to capture

Center Auto Focus

Free

## Additional Cameras

## Pretty Arrange Camera

Touch up faces in captured images

Normal(Portrait)\*

3M

## Self Portrait Camera

Use guide to capture self portraits

Normal(Portrait)\*

3M

## Face Register Camera

Register name and note for faces

Normal(Portrait)\*

VGA\*

## Video Camera

## Fine Video Camera

Record long high quality video

Auto Focus

Wide

## Video Camera for Mail

Record short video easily to send it via mail

Auto Focus

QCIF



## Capturing Still Images

Follow these steps to capture someone's image using **Easy Auto Camera**:

### 1 ➔ Frame subject on Display

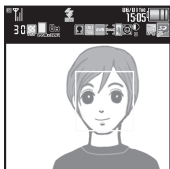



Photo Viewfinder

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

### 2



Captured Image Window

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

### 3



- Viewfinder returns.

### 4 ➔ Camera shuts down

#### Sending Captured Images at High Speed via Infrared

[Captured Image Window]  (Long)  
➔ Yes or No ➔ 

- Set recipient device to ready beforehand.

Sending Captured Images via Mail  
[Captured Image Window]  ➔  
Complete message ➔ 

#### Detect Personal


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

#### Mobile Light

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

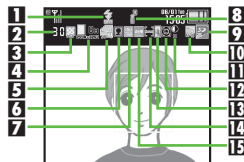
[Photo Viewfinder]  ➔ **Mobile Light** ➔  ➔ **Off** ➔ 

### Advanced

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



## Photo Viewfinder Indicators



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

## Showing Large Indicators

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



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

## Accessing Settings via Indicators

While indicators appear, use to select function ➔

■ Press to toggle functions.

## Pre-Image Capture Operations

Zoom In/Out	
Toggle Mode	(Long)
Adjust Brightness	
Change Image Size	
Toggle Mobile Light Mode	
Open Help	

Press to open Options menu for more functions/settings.

## Advanced

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

## Focus Lock


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

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



- Focus Lock is set.



- Captured image appears.
- Press  to return to Viewfinder.

### Canceling Focus Lock

- Press .

### Chase Focus

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

## Image Size & Usage

944SH Picture Size & Corresponding Usage:

<b>8M</b>	A4 prints
<b>5M</b>	B5 prints
<b>3M</b>	2L or postcard prints
<b>Full HD</b>	Full HD display wallpaper
<b>Wallpaper</b>	944SH Wallpaper
<b>VGA</b>	Blog posts, etc.
<b>QVGA</b>	Mail attachments, etc.

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

### Auto Resize Zoom

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



## Selecting Camera by Use

### Switching Cameras

- 1 In Photo Viewfinder, ➔ **Switch Camera** ➔



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

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

### Using Selected Camera

#### ■ Rapid Shooting Camera

- 1 Frame subject on Display ➔
- After image capture, the first preview image appears.
- 2 (Long)
- For **Highest100Pics(QVGA)**, a confirmation appears. Choose **Yes** and press , then press again.
  - All captured images are saved.

#### Saving Selected Images

After , (select image) ➔

#### ■ Look Back Camera

- 1 Frame subject on Display ➔
- Whistle sound plays.
- 2 Face detection activates and shutter releases; image appears
- 3
- Viewfinder returns.
- Smile Camera
- 1 Frame subject on Display
- 2 Smile detection activates and shutter releases; image appears
- 3
- Viewfinder returns.

### Advanced

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





### Self Timer Camera

#### 1 Frame subject on Display



- Countdown starts.

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



- Viewfinder returns.

### Wallpaper Camera

#### 1 Frame subject on Display



- Wallpaper preview appears.



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

### Sub-Wallpaper Camera

#### 1 Frame subject on Display



- Wallpaper preview appears.



Yr ➔ Select panel ➔ ●

#### 3 Select option ➔ ●

- Select **Cut** to specify image area or zoom in/out.



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

### Auction Camera

#### 1 Frame subject on Display



- First preview image appears.



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



Yes ➔ ●

### Messaging Camera

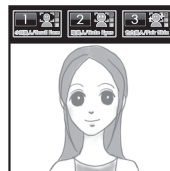
#### 1 Frame subject on Display



- Mail Composition window opens.  
Complete and send message.

### Pretty Arrange Camera

#### 1 Frame subject on Display



- Face is touched up.



- Viewfinder returns.

#### Adjusting Each Effect Separately

After 2, 1+ (Small Face), 2+ (Cute Eyes) or 3+ (Fair Skin) ➔ 3

#### When Multiple Faces are Detected

- After 2, press 1+ to touch up all faces. To touch up selected faces, follow these steps:

After 2, ~ (select face) ➔ ● (✓)  
➔ 2+ ➔ 3

#### Editing Images

After 1, 1+

- For more, see P.8-22 "Picture Editor."

## Advanced

- Selecting Self-timer time/repeat interval (P.8-27)
- Changing Clock/Calendar type for Wallpaper Camera (P.8-29)



## ■ Panorama Camera

- 1 Frame subject on Display  
➡ ●
- 2 Move handset slowly to keep + aligned with either of yellow lines
- 3 ●
  - Captured image is saved.
  - Image is captured automatically when the bar (■■■■■) turns blue.

## ■ Self Portrait Camera

- 1 Turn handset around and look into the lens
- 2 Face detection activates, tones sound, and shutter releases; image appears
- 3 ●
  - Viewfinder returns.

## ■ Shot Memo Camera

- 1 Frame subject on Display  
➡ ●
- 2 [1:1] ➡ Correction starts ➡ ●
  - Captured image is corrected accordingly.
- 3 ●
  - Viewfinder returns.

## ■ Additional Cameras

Scene Cameras	
Monochrome Camera	Frame subject on Display ➡ ●
Sepia Camera	
Long Exposure Camera	Frame subject on Display ➡ ● <ul style="list-style-type: none"> <li>• Shutter is left open for approximately 30 seconds before image capture.</li> </ul>
Blog Camera	Frame subject on Display ➡ ● ➡ [Y] ➡ Proceed with blogging
Scanner Camera	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.8-29)

## Changing & Saving Camera Settings

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

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

### Major Items

		Description
Focus	Focus Mode	Select <b>Normal(Portrait)</b> , <b>Center Auto Focus</b> , <b>Spot Auto Focus</b> , <b>Macro</b> or <b>Manual Focus</b>
	Continuous AF	Adjust focus continuously as focus-locked subject's position changes
	Chase Focus	Track focus-locked subject automatically as it moves within framed image
	Focus Mark	Select focus frame design from <b>Pattern 1</b> to <b>Pattern 6</b>
Shutter	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>
Image Size & Quality	Picture Size	Select image size from <b>8M(2448x3264)</b> to <b>QVGA(240x320)</b>
	Picture Quality	Select image quality from <b>High Quality</b> , <b>Fine</b> and <b>Normal</b>



## Conditions

## ISO Sensitivity

Description	
ISO Sensitivity	Select light sensitivity from <b>Auto</b> (~800) to <b>Auto(High)</b> (~12800) 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> according to lighting conditions
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

## Auto Save

## Background Save

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

## Other

## Shake Reducing

## Display Setting

## Sub-Display\*

## Set Send Key

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>Guidance</b> , <b>Icon On</b> and <b>Icon Off</b>
Sub-Display*	Select camera-in-use graphic for Sub Display from <b>Pattern 1</b> to <b>Pattern 3</b> and <b>Off</b>
Set Send Key	Select send option assigned to (㊄)

\*For more about Sub Display, see "Sub Display" in Chapter 2.

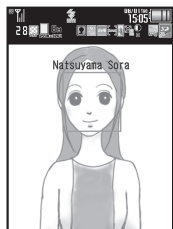




## Registering Faces (Detect Personal)

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.

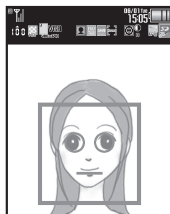


Viewfinder Information

### Saving Entries

- 1 In Photo Viewfinder,
- 2 **Detect Personal**
- 3 **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 **Empty**
- 7 **Name:**
- 8 **Enter name**
- 9
  - Entry is saved.
  - The lower the entry number the higher the priority.

### Entering Information

After 3, **Note:** Enter text

### Setting Text Color

After 3, **Font Color:** Select color

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



**Editing Entries**


- 1 In Photo Viewfinder, 
- 2 **Detect Personal** ➔  ➔ **Edit Face** ➔ 




Edit Face Window

- 3 Select entry ➔ 



- 4 Select item ➔  ➔ Edit in the same manner as saving entries



- 5 
  - Entry is overwritten.

**Deleting/Moving Entries**

Follow these steps to delete an entry:

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

**Moving Entries (Changing Priorities)**

After 1, **Change Priority** ➔  ➔  
**Select target location** ➔ 

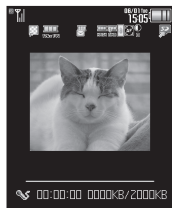


## Recording Video

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

1 ➔ **Camera** ➔

2 **Video Camera for Mail** ➔

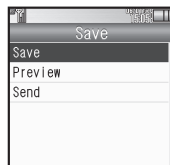


Video Viewfinder  
(Video Camera for Mail)

3 **Frame subject on Display**  
➔

- Recording starts after a tone.

4



5 **Save** ➔

- Video is saved. (Viewfinder returns.)
- Play saved video via Review, Data Folder or Media Player.

6 ➔ **Camera shuts down**

### Playing Unsaved Video

In 3, **Preview** ➔

### Incoming Calls

- If a call arrives before video is saved, recorded clip is temporarily saved. End the call to return.

### If Battery Runs Low

- Recording stops. (Recorded clip is saved.)

### Switching Video Cameras

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

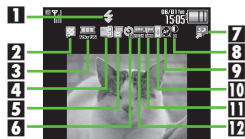
### Advanced

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





## Video Viewfinder Indicators



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

## Operations in Video Viewfinder

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

\*Fine Video Camera only. (May be unavailable depending on recording size.)  
Press to open Options menu for more functions/settings.





## Opening Saved Images via Album

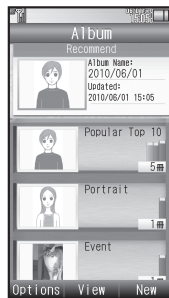
### Basics

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

<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

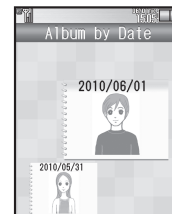
#### 1 (Long)



Album Window

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

#### 2



Album List

- Albums within appear.

### 3 Select album ➡



Image List

### 4 Select image

### 5

- Image appears.

#### Opening Latest Album

After 1, ➡

#### Slide Show

After 2, select album ➡ ➡ Slide Show ➡

#### Copying/Moving Images to Other Albums

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

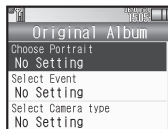
- Images in By Date or By Camera albums cannot be moved.

### Creating Original Albums

Create new albums by selecting sort keys (from Portrait, Event and By Camera) and specifying date and time.

Follow these steps to create an album by selecting sort keys from Portrait and By Camera:

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



### 2 Choose Portrait ➡

### 3 Select entry ➡

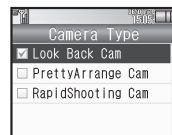


- Repeat 3 to complete selection.

### 4

### 5 Select Camera type ➡

### 6 Select camera ➡



- Repeat 5 to complete selection.

### 7

### 8 Create Album ➡

### 9 Enter name ➡

### 10 Yes ➡

#### Previewing Created Album

After 7, Album Preview ➡

- To return, press [Back].

#### Editing Sort Keys

[Album List] Select album ➡ ➡ Edit Auto Sort Keys ➡ ➡ Select item ➡ ➡ Edit ➡

- For items other than **Select Date/Time**, press [Back] 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* or *DCIM* ➔ ● ➔ Select image ➔ ●

- ➔ *Save to Album* ➔ ● ➔ Select category ➔ ● ➔ Select album ➔ ●

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

## Deleting Albums

## 1 In album list, select album



## 2 Delete ➔ ●

## 3 Yes ➔ ●

## Adding Comments to Images

## 1 In image list, select image



## 2 Edit Comment ➔ ●

## 3 Enter text ➔ ●



- 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.8-31)



## 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]

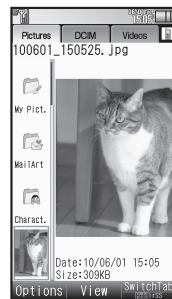
### Opening from Viewfinder

[Photo Viewfinder]/[Video Viewfinder]

(Long)

### 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>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 .

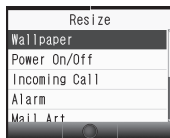


## Changing Image Size

Select from preset sizes or crop image.

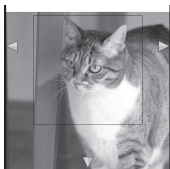
### Resize to Preset Size

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



Resize Window

- 2 Select size ➡ ●
- 3 Specify image area



• If crop frame does not appear, omit 3.

4 ●

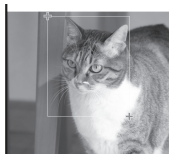
• Editing is complete.

### Zooming In/Out

After 3, 4 ➡ 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 ➡ 4

### Zooming In/Out

After 3, 4 ➡ 4

## Applying Visual Effects

Render in sepia tones or add blur, etc.

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

- 2 Select effect ➡ ●

- 3 ●
- Editing is complete.

### Adding Frames

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

- 2 Select frame ➡ ●

- 3 ●
- Editing is complete.

## Advanced

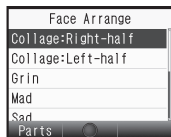
● Using additional editing options (P.8-31 - 8-32)



## Face Arrange

Make faces smiley, sad, etc.

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



Face Arrange Menu

# 2 Select type ➔ ●



- 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, ● ➔

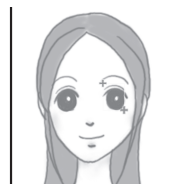
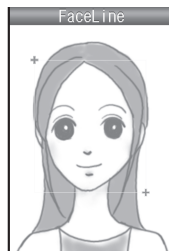


- A rectangle appears with + in the upper left corner.

# 2 ● ➔ Move + to top left of face



# 3 ● ➔ Move + to bottom right of face



- 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

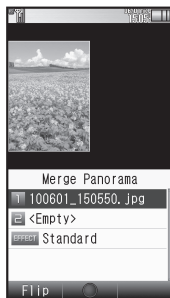
1 ● ➔ **Data Folder** ➔ ●

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.8-32)



## Printing Images

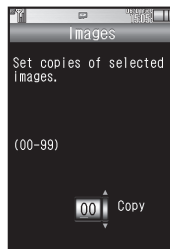
### Digital Print Order Format (DPOF)

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

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

- 1 ➔ **Settings** ➔ ➔
- 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.8-32)

## General


































Changing function assigned to Camera Key (  )	 ➔ <b>Camera</b> ➔  ➔ <b>Set Camera 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> ➔ 
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> ➔  ➔ <b>Select time</b> ➔  • For Self Timer Camera, select time or repeat interval.
Changing image size	In Photo Viewfinder,  ➔ <b>Picture Size</b> ➔  ➔ <b>Select size</b> ➔ 
Setting Center Auto Focus	In Photo Viewfinder,  ➔ <b>Focus Setting</b> ➔  ➔ <b>Center Auto Focus</b> ➔ 
Specifying point of focus manually	In Photo Viewfinder,  ➔ <b>Focus Setting</b> ➔  ➔ <b>Spot Auto Focus</b> ➔  • A frame appears on Display; use  to move frame over target point of focus.
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> ➔  ➔ <b>Adjust focus</b> ➔  • 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> ➔  ➔ <b>Select pattern</b> ➔ 



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 three 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>Select sound</b>



Changing Clock/Calendar type for Wallpaper Camera	In Wallpaper Camera Viewfinder,  ➔ <i>Clock/Calendar</i> ➔  ➔
Changing panorama/scanner settings	<p> In Panorama Camera or Scanner Camera Viewfinder,  ➔ See below</p> <p><b>Hiding Guides</b>  <i>Assisting Lines</i> ➔  ➔ <i>Off</i> ➔ </p> <p><b>Locking Display Brightness during Image Capture</b>  <i>AE-Lock</i> ➔  ➔ <i>Enable</i> ➔ </p>
Previewing panorama image	<p>After panorama image capture, <i>Preview</i> ➔ </p> <ul style="list-style-type: none"> <li>Available when Auto Save is <i>Off</i>.</li> </ul>
Changing panorama image preview method	<p>After panorama image capture, <i>Preview</i> ➔ </p> <p>➔  ➔ </p> <ul style="list-style-type: none"> <li>Available when Auto Save is <i>Off</i>.</li> </ul>
Changing exposure time for Long Exposure Camera	<p>In Long Exposure Camera Viewfinder,  ➔</p> <p><i>Exposure Time</i> ➔  ➔ <i>Select time</i> ➔ </p>
<b>■ Correction &amp; Preview</b>	
Correcting portrait auto focus images	<p> After image capture,  ➔ <i>Correlate to Face</i> ➔  ➔ See below</p> <ul style="list-style-type: none"> <li>Available when Auto Save is <i>Off</i>.</li> </ul> <p><b>Adjusting Face/Background Brightness</b>  <i>Against sun</i> ➔  ➔  ➔ </p> <p><b>Blurring Out-of-Focus Portions</b>  <i>Portrait</i> ➔  ➔  ➔ </p>
Brightening backlit subjects (Dynamic Range Adjustment)	<p>After image capture,  ➔ </p> <ul style="list-style-type: none"> <li>May be unavailable or require access via <i>D-Range</i> in Options menu depending on Auto Save setting.</li> </ul>

Applying mosaic effect	<p> After image capture,  ➔ <i>Mosaic Editor</i> ➔  ➔ See below</p> <p><b>Whole Face or Eyes Only</b>   (Whole) or  (Eyes) ➔  ➔ </p> <p><b>All Faces</b>   (Whole) or  (Eyes) ➔  ➔  ➔ </p> <p><b>Selected Faces</b>   (Whole) or  (Eyes) ➔  ➔ Select face ➔  ➔  ➔ </p> <p><b>Specific Area (Square or Round)</b>   (Square) or  (Round) ➔ Move + to the upper left corner of the portion ➔  ➔ Move + to the lower right corner of the portion ➔ </p>
	<p>After image capture,  ➔ <i>Shot Memo</i> ➔  ➔ </p> <p>Correction starts ➔  ➔ Select preview image ➔  ➔ </p>
	<p>After image capture, </p> <ul style="list-style-type: none"> <li>Follow onscreen instructions.</li> <li>May be unavailable depending on Auto Save setting.</li> </ul>
	<p>After image capture,  -  (Long)</p> <ul style="list-style-type: none"> <li>Available when Auto Save is <i>Off</i> or <i>On (Preview Manual)</i>.</li> <li>Use  to see other portions enlarged. Press  to enlarge further. Press  to cancel.</li> <li>Key Assignments:   (Upper Left)  (Upper Center)  (Upper Right)   (Center Left)  (Center)  (Center Right)   (Lower Left)  (Lower Center)  (Lower Right)</li> <li>May be unavailable depending on image size, etc.</li> </ul>



## ■ 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> ➔  ➔ <b>Edit</b> ➔  ➔

## Video Camera

Opening Help	In Video Viewfinder,  ➔ <b>Help</b> ➔ • Press  to toggle Help window for indicator descriptions 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 .
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> ➔

Activating automatic saving	In Video Viewfinder,  ➔ <b>Save Settings</b> ➔  ➔ <b>Auto Save</b> ➔  ➔ <b>On</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 three 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>Record Time/Size</b> ➔  ➔ <b>For Message or Extended Video</b> ➔  ➔ <b>Select size</b> ➔ • Selectable item depends on camera mode.
Enlarging Viewfinder size	In Video Viewfinder,  ➔ <b>Display Size</b> ➔  ➔ <b>Enlarge</b> ➔
Recording video without sound	In Video Viewfinder,  ➔ <b>Settings</b> ➔  ➔ <b>Microphone</b> ➔  ➔ <b>Off</b> ➔
Changing video encoding	In Video Viewfinder,  ➔ <b>Save Settings</b> ➔  ➔ <b>Video Encode or Audio Encode</b> ➔  ➔ <b>Select option</b> ➔ • Selectable item depends on camera mode.
Disabling shake reduction	In Video Viewfinder,  ➔ <b>Shake Reducing</b> ➔  ➔ <b>Off</b> ➔



Album	
Changing album covers	<p>Start Here  (Long) ➔ Select category ➔  ➔ Select album ➔  ➔ Change a Cover ➔  ➔ See below</p> <ul style="list-style-type: none"> <li>For By Date albums, only the latest images are available.</li> </ul> <p>Selecting from All Images Within Select Picture List ➔  ➔ Select image ➔ </p> <p>Using Latest Image Latest Picture ➔ </p>
Sorting albums	<p> (Long) ➔ Select category ➔  ➔ Select album ➔  ➔ Sort ➔  ➔ Select option ➔ </p>
Unlocking Secret Data Folder temporarily	<p> (Long) ➔  ➔ Unlock Temporarily ➔  ➔ Enter Handset Code ➔ </p>
Opening album properties	<p> (Long) ➔ Select category ➔  ➔ Select album ➔  ➔ Details ➔ </p>
Removing images from albums	<p> (Long) ➔ Select category ➔  ➔ Select album ➔  ➔ Select image ➔  ➔ Remove from Album ➔  ➔ The Album or All Album ➔  ➔ Yes ➔ </p> <ul style="list-style-type: none"> <li>The Album does not appear for images under some categories.</li> </ul>
Deleting images	<p> (Long) ➔ Select category ➔  ➔ Select album ➔  ➔ Select image ➔  ➔ Delete Data ➔  ➔ Yes ➔ </p> <ul style="list-style-type: none"> <li>Source files in Data Folder will be deleted.</li> </ul>

## Editing Images

## Picture Editor

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



## 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**.

## 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** ●

## ■ Composite

## Combining reduced images

**Start Here** ● ➔ **Data Folder** ● ➔ **Pictures** ● ➔ **Select file** ● ➔ **Edit** ● ➔ **Composite** ● ➔ **See below**

**Creating Split Picture**

**SplitPicture 480x854 or SplitPicture 240x320** ➔

● ➔ **<Empty>** ● ➔ **Select file** ● ➔

When finished, **Y** ➔ **Enter name** ● ➔ **Save here** ●

- Repeat from selecting **<Empty>** as needed.

**Previewing Split Picture**

While creating Split Picture, **OK** ➔ **View Composite** ●

**Changing Images**

While creating Split Picture, select image ● ➔ **OK** ➔ **Select another** ●

**Deleting Images**

While creating Split Picture, select image ● ➔ **Remove** ● ➔ **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 is set to **Ask Each Time**.

### ? Display went dark during image capture

- 944SH camera has built-in mechanical shutter and ND filter. Strong shocks to handset during image capture may close mechanical shutter for camera protection, resulting in blank Viewfinder. Reactivate mobile camera to reopen the shutter.

### ? Image is dark or distorted

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

### ? Captured image appears all white

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

## Editing Images

### ? Cannot save/send edited images

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

## DPOF

### ? Cannot specify print settings properly

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





## Photo Camera Terms



### Center Auto Focus

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



### Continuous AF

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



### Chase Focus

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



### Self-timer

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



### Long Exposure

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



### ISO Sensitivity

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



### White Balance

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