Camera

Overview.......................................................... 7-2
  Viewfinder Indicators........................................ 7-3
  Switching Cameras........................................... 7-5
Capturing Still Images......................................... 7-6
  Capturing Still Images...................................... 7-6
Recording Videos............................................... 7-8
  Recording Videos........................................... 7-8
Various Features............................................... 7-10
  Using Smile Mode ......................................... 7-10
  Continuous Shooting ....................................... 7-10
  Add Frames to Images ..................................... 7-11
  Auto Timer.................................................... 7-11
  Panoramic Shooting ........................................ 7-11
  Recording Slow-Motion Video (Speed Movie)............ 7-12
  Chance Capture............................................. 7-12
  Recording Only Sound ..................................... 7-13
Advanced Features............................................ 7-14
  During Shooting............................................. 7-14
  After Shooting............................................... 7-14
Overview

Capture still images and record videos with handset camera.

**Capture Still Images/Videos**

**Wide Range of Image Sizes**
Select image size accordingly. Use small sizes for S! Mail/PC Mail attachments and larger sizes for saving high resolution images.

**Photo Modes**
Select a mode suited to the subject/scene such as Portrait, Scenery and Sports mode.

**Various Features**
Features include:
- Auto Timer
- Continuous Shooting
- Adding Frames
(P. 7-10, P. 7-11)

**Smile Mode**
Shutter automatically releases when Camera detects a smile (P. 7-10).

- Lens’ focus sound may be audible when using Rear Camera. This is normal.
- Still images are saved in JPEG format and videos in MPEG4 format.
- Clean the lens with soft cloth. Fingerprints or grime on the lens may result in blurred images.
- Handset movement during shooting may cause image blurring when Shake Correction is **OFF**. Setting Shake Correction to **Auto** is recommended.
- Although Camera is made with high-precision technology, some pixels may appear brighter and some darker.
- Shooting or saving images when handset is warm may affect image quality.
- Exposing the lens to direct sunlight for an extended period may result in discoloration of photo images.
- Shutter click and Auto Timer tone sound at a fixed volume even in Manner Mode.

When **Auto-change Screen** is set to **ON**, turn handset on its left side while using Camera for Landscape View.
## Overview

### Viewfinder Indicators

#### Landscape View

1. **Focus Frame (Still Images)**
   - A white frame appears for Auto Focus.
   - Focus Frame is green when focus is locked, and red if focusing failed.

2. **Shake Correction**
   - Auto

3. **Storage Location (Still Image)**
   - Handset
   - Memory Card

4. **Storage Capacity (Still Image)**
   - White number: 11 or more files
   - Yellow number: 10 or less files
   - Red number: No memory space

5. **Storage Location (Video)**
   - Handset
   - Memory Card

6. **Storage Capacity (Video)**
   - Blue: 500 KB or more
   - Yellow: Less than 500 KB
   - Red: No memory space

7. **Camera Mode**
   - Movie Mode
   - Speed Movie
   - Chance Capture
   - Photo Mode
   - Auto Continuous Shooting
   - Manual Continuous Shooting
   - Voice Mode
   - Panorama Cap. Mode
### Overview

#### 7.4 Image Size
- **Photo Mode/Continuous Shooting**
  - 8M (2448 × 3264) to QCIF (176 × 144)
- **Panorama Cap. Mode**
  - Panorama (4096 × 480 : Vertical)
  - Panorama (2738 × 480 : Horizontal)
- **Movie Mode/Speed Movie\(^2\)/Chance Capture**
  - VGA (640 × 480) to QCIF (176 × 144)

#### 7.5 Image Quality (Still Image)
- **Super Fine**
- **Normal**
- **Fine**

#### 7.6 File Size (Video)
- **Mail attachment\(^3\)**
- **Long time**
- **Up to 2 MB**

#### 7.7 Photo Mode
- **Auto**
- **Sports Mode**
- **Portrait**
- **Night Mode**
- **Smile**
- **Pet**
- **Scenery**
- **Food**
- **Backlight**
- **OFF**

#### 7.8 Brightness
- -2 to +2

#### 7.9 White Balance\(^4\)
- **Auto**
- **Light bulb**
- **Fine**
- **Fluorescent lamp**

#### 7.10 AF Mode (Still Image)
- **AF ON (Face detection + AF ON)**
- **AF ON**
- **Close-up**
- **AF OFF**

#### 7.11 AF Guidance (Still Images)
For AF toggle and focus lock

#### 7.12 Face Select Mode (Still Image)
- **Face selecting mode**

#### 7.13 Auto Timer
- **Auto Timer set**

#### 7.14 Zoom (16 steps)
- Minimum to Maximum

#### 7.15 Recording Type (Video)
- Normal (Video & Sound)
- Video only
- Sound only

#### 7.16 Image Quality (Video)
- Long time
- Fine
- Normal
- Super Fine

#### 7.17 Recording Status (Video)
- Recording ready
- **REC** Recording

---

### Auto Save
Captured still images and videos are automatically saved to handset.

#### Tip
- To set so that a preview window appears after recording:
  - 
  - **Auto Save Set**
  - **OFF**

### Shake Correction
Camera is equipped with Shake Correction. This function reduces camera shake in 6 axial directions for still images and 4 axial directions for videos taken with the rear camera.

Set Shake Correction off when not needed.

---

1. Approximate value
2. Switches to QVGA (320 × 240) in **Speed Movie**.
3. Available when **Select Size** is QCIF (176 × 144).
4. Available only when **Photo Mode** is set to **OFF** (in normal and continuous shooting modes).
Switching Cameras

1. [Photo Viewfinder]/[Video Viewfinder]  \( \Rightarrow \)  \( \Rightarrow \)  \textit{Front Camera or Rear Camera}  \( \Rightarrow \)  \\

Rear Camera
Use for people, animals and scenery. Image appearing on Display appear as seen.

Front Camera
Use to photograph yourself. Image appearing on Display is in mirror display, but the saved image is displayed normally.
Capturing Still Images

1. 
   - **Camera** ➔ **Photo Mode** ➔

   ![Photo Viewfinder]

   **Photo Viewfinder**

2. Frame image in Viewfinder ➔
   - When the focus locks, Focus Frame turns green and shutter is released. Image is automatically saved.

   **Tip**
   - Alternatively, press and hold to activate Camera in Photo Mode.

---

**Photo Preview Window**

Appears when **Auto Save Set** is set to **OFF**. Press to save image.

**Photo Preview Window**

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**Operations in Viewfinder**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Icon</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF Change</td>
<td></td>
</tr>
<tr>
<td>AF Lock</td>
<td></td>
</tr>
<tr>
<td>Face Select Mode&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Press and hold 📷 and move Focus Frame to the subject. Press and hold 📷 again.</td>
</tr>
<tr>
<td>Zoom In</td>
<td></td>
</tr>
<tr>
<td>Zoom Out</td>
<td></td>
</tr>
<tr>
<td>Open Menu</td>
<td></td>
</tr>
<tr>
<td>Toggle Camera Mode</td>
<td>1</td>
</tr>
<tr>
<td>Select Size</td>
<td>2</td>
</tr>
<tr>
<td>Quality Setting</td>
<td>3</td>
</tr>
<tr>
<td>Photo Mode</td>
<td>4</td>
</tr>
<tr>
<td>Adjust Brightness</td>
<td>5</td>
</tr>
<tr>
<td>White Balance&lt;sup&gt;2&lt;/sup&gt;</td>
<td>6</td>
</tr>
<tr>
<td>Toggle Viewfinders&lt;sup&gt;3&lt;/sup&gt;</td>
<td>9</td>
</tr>
<tr>
<td>Help</td>
<td>0</td>
</tr>
</tbody>
</table>

---

1. Available when AF is set to **Face ON**.
2. Available when **Photo Mode** is set to **OFF**.
3. Available when **Auto-change Screen** is set to **OFF**.

---

**Tip**

- Attach still images to S! Mail or set as wallpaper (P. 7-14, P. 7-15).
- Still images are saved to My Picture in Data Folder. The storage location can be changed to memory card (P. 14-24).
- Shutter clicks even if focusing fails and Focus Frame turns red.
More Features

Advanced

During Shooting
- Use Camera Menu
- Switch Color Modes
- Reduce Flicker
- Check Storage Capacity
- Set Shake Correction

(P. 7-14)

After Shooting
- Zoom In/Out
- Upload Still Image to Blog
- Send Still Image with Graphic Mail
- Send Still Image by S! Mail
- Show Mirror Image of Shot Still Image
- Save Mirror Image of Shot Still Image
- Show Shot Still Image in Standby

(P. 7-14)

Customize

Camera Settings
- Set Shutter Sound
- Set Display for Landscape View Shooting

(P. 14-24)

File Storage
- Set Storage Location for Still Images

(P. 14-24)
Recording Videos

1 **Camera** ➔ **Movie Mode** ➔ **Camera** ➔ **Movie Mode**

**Video Preview Window**
Appears when **Auto Save Set** is set to **OFF**. Press **○** to save video.

![Video Preview Window](image)

To Discard the Recording and Return to Viewfinder

To Discard the Recording and Return to Viewfinder

**Tip**
- Video is saved to **Videos** in Data Folder. The storage location can be changed to memory card (P. 14-24).

**Operations in Video Viewfinder**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Icon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoom In</td>
<td>📷</td>
</tr>
<tr>
<td>Zoom Out</td>
<td>📷</td>
</tr>
<tr>
<td>Open Menu</td>
<td>📷</td>
</tr>
<tr>
<td>Toggle Camera Mode</td>
<td>1</td>
</tr>
<tr>
<td>Select Size</td>
<td>2</td>
</tr>
<tr>
<td>File Size Setting</td>
<td>3</td>
</tr>
<tr>
<td>Photo Mode</td>
<td>4</td>
</tr>
<tr>
<td>Adjust Brightness</td>
<td>5</td>
</tr>
<tr>
<td>White Balance</td>
<td>6</td>
</tr>
<tr>
<td>Toggle Viewfinders*</td>
<td>9</td>
</tr>
<tr>
<td>Help</td>
<td>0</td>
</tr>
</tbody>
</table>

* Available when **Auto-change Screen** is set to **OFF**.

**Tip**
- Key operation tones may be recorded if you adjust zoom, etc. while recording a video.
More Features

Advanced

During Shooting
- Use Camera Menu
- Set Image Quality
- Switch Color Modes
- Reduce Flicker
- Check Storage Capacity
- Change Video Type
- Set Shake Correction

(► P. 7-14)

After Shooting
- Upload Video to Blog
- Send Video by S! Mail
- Show Recorded Video in Standby
- Edit Title of Video

(► P. 7-14)

Customize

Video Settings
- Set Shutter Sound
- Set Display for Landscape View Shooting

(► P. 14-24)

File Storage
- Set Storage Location for Videos

(► P. 14-24)
Various Features

Using Smile Mode
Camera automatically detects a smile and automatically releases the shutter.

1. [Photo Viewfinder] 

Smile Mode Viewfinder

2. Frame image in Viewfinder
When the person in Focus Frame smiles, the shutter is automatically released. Smiley face flashes while the smile is being detected. Image is automatically saved.

Continuous Shooting
Shoot up to 20 still images continuously. Automatic continuous shooting mode: Automatically shoots a set number of images at set intervals after you release the shutter. Manual continuous shooting mode: Shoots a set number of images, each of which is shot by releasing the shutter manually. See P. 14-24 for details on setting interval/number of shots for Continuous Shooting.

1. [Photo Viewfinder]/[Video Viewfinder]

Continuous Shooting Viewfinder (Manual)

2. Frame image in Viewfinder
Image is automatically saved.

Thumbnail Preview Window
Appears when Auto Save Set is set to OFF. Press and hold  or Mirror Save and press  to save all still images.

To Discard Shot Images and Return to Viewfinder

Tip
- Image size can only be set to WQVGA, QVGA V. (,QVGA) or QCIF.
Add Frames to Images

1. [Photo Viewfinder] \( \rightarrow \) \( \rightarrow \) Select Frame \( \rightarrow \) \( \rightarrow \) Select a folder \( \rightarrow \) \( \rightarrow \) Select a frame \( \rightarrow \) 

2. Compose image in the frame \( \rightarrow \) 
   Image is automatically saved.

Framed Image Preview Window

Appears when Auto Save Set is set to OFF. Press \( \rightarrow \) to save image.

Auto Timer

- Auto Timer returns to OFF after shooting.

1. [Photo Viewfinder]/[Video Viewfinder] \( \rightarrow \) \( \rightarrow \) Auto Timer \( \rightarrow \) 

2. ON \( \rightarrow \) \( \rightarrow \) Enter time \( \rightarrow \) 

3. Frame image in Viewfinder \( \rightarrow \) 
   Auto Timer starts countdown, and Illumination flashes blue. About five seconds before shooting, a countdown tone sounds and Illumination flashes rapidly.
   To stop Auto Timer, press \( \rightarrow \) or CLEAR.
   - For Still Images
     Images are automatically saved.
   - For Videos
     Recording ends. Videos are automatically saved.

Tip

- To shoot manually during Auto Timer countdown, press \( \rightarrow \).

Panoramic Shooting

Create a single panorama shot by moving handset horizontally while shooting.

- Up and down handset movements may cause blurred images.
- Subject image may blur depending on the subject or if the subject is moving.

1. [Photo Viewfinder]/[Video Viewfinder] \( \rightarrow \) \( \rightarrow \) \( \rightarrow \) \( \rightarrow \) 

Panorama Cap. Window
Various Features

**Panorama Shooting**
Display one end of subject ➔
Panorama shooting starts.

Pan horizontally (left or right) using green line as a guide. Maintain even speed, making sure GOOD appears. If FAST appears, image may not be captured properly.

Panorama shooting ends.
Image is automatically saved.
Shooting automatically ends if the maximum storable capacity is reached.

**Recording Slow-Motion Video (Speed Movie)**

Use Speed Movie to record video in slow-motion.
- Available in Landscape View.

1. **[Photo Viewfinder]/[Video Viewfinder] ➔ ➔ ➔ ➔
2. **Frame image in Viewfinder ➔
Recording starts.
3. **
Recording ends.
Video is automatically saved.

**Tip**
- Sound is not recorded.
- Zoom is unavailable.
- Available only for Rear Camera.

**Chance Capture**
Continue recording video even when memory is full.

1. **[Photo Viewfinder]/[Video Viewfinder] ➔ ➔ ➔ ➔
2. **Frame image in Viewfinder ➔
Recording starts.
When the available recording time is over, the remaining time indication flashes.
3. **
Recording ends.
Video is automatically saved.

**Note**
- When recorded video exceeds available memory, handset saves the maximum recordable time from the end of recording. Initial portion is deleted.
Various Features

Recording Only Sound

Record only audio in Movie Mode (Voice Mode).

1. [Photo Viewfinder]/[Video Viewfinder] ➔ 1 ➔ 2 ➔ 3

2. Recording starts.

3. Recording ends. Video is automatically saved.

Tip
- To activate Voice Mode from Main Menu: Camera ➔ Voice Mode ➔

More Features

Advanced

After Shooting
- View Images
- Save One Frame
- Save Only Selected Images
- Save as Animation
- Open an Image as Mirror Image
- Attach to S! Mail
- Change Frame before Saving Image (P. 7-15)

Customize

Camera Settings
- Set Level of Smile for Smile Mode
- Set Interval for Continuous Shooting
- Set Number of Shots for Continuous Shooting (P. 14-24)

File Storage
- Set Storage Location for Still Images/Videos (P. 14-24)
Advanced Features

## During Shooting

### Start Here
- **Photo Viewfinder** ....................... P. 7-6
- **Video Viewfinder** ....................... P. 7-8

### Use Camera Menu
- **Photo Viewfinder** / **Video Viewfinder**  
  - Select an item  

### Set Image Quality
- **Quality Setting**  
  - Select an item

### Switch Color Modes
- **Camera Settings**  
  - Full Color, Sepia or Monochrome

### Reduce Flicker
- **Camera Settings**  
  - Flicker
  - Auto, Mode 1(50Hz) or Mode 2(60Hz)

### Check Storage Capacity
- **Memory Info**

### Change Video Type
- **Movie Type**  
  - Normal, Video or Voice

### Set Shake Correction
- **Shake Correction**  
  - Auto or OFF

## After Shooting

### Start Here
- **Photo Preview** ....................... P. 7-6
- **Video Preview** ....................... P. 7-8
- **Thumbnail Preview** ...................... P. 7-10
- **Framed Image Preview** .............. P. 7-11

### Zoom In/Out
- **Zoom**  
  - or  
  - Press  to return to original size.

### Upload Still Image/Video to Blog
- **Blog Cont. or Blog Contribution**  
  - Attach Mail, FullHD Scale Down, VGA Scale Down or QVGA Scale Down  
  - Enter information

- **Save your blog e-mail address to Blog/Mail Member beforehand (P. 5-8).**
- **Video files exceeding the size limit are not uploaded to a blog.**

### Send Still Image with Graphic Mail
- **Insert Image**  
  - Insert Mail or SubQCIF Scale Down

### Send Still Image/Video by S! Mail
- **Attach Image or Compose Message**  
  - Attach Mail, FullHD Scale Down, VGA Scale Down or QVGA Scale Down

- **Compose S! Mail**

- **Video files exceeding the size limit are not attached.**
Show Mirror Image of Shot Still Image
[Photo Preview] window ➜ ➜ Mirror Display ➜

Save Mirror Image of Shot Still Image
[Photo Preview] window ➜ ➜ Mirror Save ➜

Show Shot Still Image in Standby
[Photo Preview] window ➜ ➜ Set as Display ➜ ➜ Stand-by Display ➜
Select a layout ➜ ➜ Check preview ➜

Show Recorded Video in Standby
[Video Preview] window ➜ ➜ Set as Stand-by ➜

Edit Title of Video
[Video Preview] window ➜ ➜ Edit Title ➜

View Images
[Thumbnail Preview] window ➜ Select an image ➜
Press ◄ to switch to the previous/next image.

Save One Frame
[Thumbnail Preview] window ➜ Select an image ➜ ➜ Save or Mirror Save ➜

Save Only Selected Images
[Thumbnail Preview] window ➜ Select an image ➜ ➜ ➜ Repeat the same step ➜ ➜ Save or Mirror Save ➜
Select a checked image and press ◄ to cancel the selection.

Save as Animation
[Thumbnail Preview] window ➜ ➜ Store All&Anime ➜ ➜ Save or Mirror Save ➜
Select a destination ➜

Open an Image as Mirror Image
[Thumbnail Preview] window ➜ ➜ Mirror Display ➜

Attach to 9 Mail
[Thumbnail Preview] window ➜ Select an image ➜ (twice) ➜ Attach Image ➜
(Attach Mail or QVGA Scale Down ➜
Compose 9 Mail ➜

Change Frame before Saving Image
[Framed Image Preview] window ➜ ➜ ➜ Change Frame ➜
Select a folder ➜
Select a frame ➜ (twice)