### **Getting Started**

Shoot photos or videos.

#### **Detect Personal & Pet**

Locks focus on the face of a person or pet. Register people's faces; related information appears in Viewfinder upon face detection.

#### **Continuous AF**

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

#### **Select Camera**

Handset 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 a soft dry cloth before use.
- Camera is a precision instrument; however, some pixels may remain on/off.
- Shooting/saving images while handset is hot may affect image quality.
- Exposing Lens to direct sunlight may damage Color Filter and affect image color.

#### **Automatic Shutdown**

 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.

## **Photo Camera & Video Camera Overview**

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

		Description	Focus Mode	Size
	Easy Auto Camera	Capture nearby subjects easily (settings partially changeable).	Normal(Face)*	12M
Standard Shooting	Pro Auto Camera	Capture nearby subjects easily (settings mostly changeable).	Normal(Face)	12M
	Quick Camera	Capture distant scenery quickly.	Manual Focus	ЗМ
	Scene Cameras	Select one according to subject/shooting conditions.	Normal(Face)	12M
Subject &	Monochrome Camera	Capture black and white photos.	Normal(Face)	12M
Conditions	Sepia Camera	Capture sepia photos.	Normal(Face)	12M
	Shot Memo Camera	Improve text readability in captured memos, tables, etc.	Center Auto Focus	5M
	Wallpaper Camera	Show mock Clock/Calendar in Viewfinder to capture photo and set it as Wallpaper.	Normal(Face)	Wallpaper
Specific	Auction Camera	Use guide to capture multiple photos for posting on auction sites.	Center Auto Focus	VGA
Objectives	Messaging Camera	Capture and send photos using mail easily.	Normal(Face)	VGA
	Blog Camera	Capture and post photos to blogs easily.	Normal(Face)	VGA

		Description	Focus Mode	Size
	Look Back Camera	Play sound and release shutter automatically when subject turns face to Camera.	-	12M
Auto Shutter Release	Smile Camera	Release shutter automatically when subject smiles.	Normal(Face)	12M
	Self Timer Camera	Release shutter automatically after selected time elapses.	Normal(Face)*	12M
	Rapid Shooting Camera	Capture up to 30 photos rapidly.	Normal(Face)	VGA
Consecutive Shooting	Three-Shot Camera	Capture three consecutive photos of up to 12M size automatically.	Normal(Face)	12M
	Best Select Photo	Select best photo from a series of rapid shot photos including moments immediately before shutter releases.	Normal(Face)	VGA
	Fish-eye Camera	Capture photos with enhanced barrel distortion as if shot with full-frame horizontal fisheye lens.	Center Auto Focus	ЗМ
Fun Cameras	Miniaturize Camera	Capture photos of scenery, etc. that resemble miniature models as if shot with a tilt-shift lens.	Center Auto Focus	5M
	Drawable Camera	Drag on captured photo to scribble or sketch.	Normal(Face)	Wallpaper

		Description	Focus Mode	Size
	Pretty Arrange Camera	Touch up faces in captured photos.	Normal(Face)	5M
Additional Cameras	Self Portrait Camera	Use guide to capture self portraits.	Normal(Face)	5M
	Face Register Camera	Register name and note for faces.	Normal(Face)*	VGA <sup>*</sup>
	HD Video Camera	Record long high quality videos.	Normal(Portrait)	HD*
Video Camera	Pro Auto Video Camera	Record videos with more customizable options.	Normal(Portrait)	HD
	Video Camera for Mail	Record small videos easily to send using mail.	Normal(Portrait)	QCIF

### Capturing Photos

Capture photos in portrait or landscape. Unless noted otherwise, photo capture descriptions are for portrait orientation.

#### **Using Photo Camera**

To capture someone's photo with Easy Auto Camera:





Photo Viewfinder (face detected)

 Focus automatically locks on detected face. (Face auto focus)







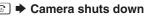
Captured Photo Window

• Shutter clicks; captured photo is saved.



- Viewfinder returns.
- Open saved photos from Album, Review or Data Folder.





#### One Touch Shutter

• Tap subject in Photo Viewfinder; focus locks and shutter releases automatically. Mobile Light

 Mobile Light may illuminate automatically depending on ambient light or Camera mode. To turn Mobile Light off:

Light ⇒ • • Off ⇒ •

#### **Face Auto Focus**

- · Focus automatically locks on face of detected person or pet for Easy Auto Camera, Pro Auto Camera, etc.
- Detection may fail depending on angle, distance from subject or environment.

#### **Detect Personal**

- To use Detect Personal, first register a face with a name, etc. If Camera detects registered face, saved name, etc. appears in Viewfinder; handset automatically sorts saved photos to designated folder (Portrait & Pet).
  - Camera cannot detect registered faces and pets at the same time.

#### Landscape Orientation

Hold handset horizontally for landscape photo capture; changes Viewfinder too.

In Photo Viewfinder, rotate handset 90 degrees



#### **Main Viewfinder Operations**

#### Handset Keys

Zoom In/Out or Adjust Focus	ै/ू
Adjust Brightness	•/•
Toggle Mobile Light Mode	# 50
Change Viewfinder	(3- a)
Open Help	0 %

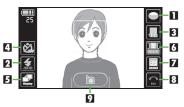
- Multi Selector functions change with Viewfinder orientation.

#### Touchscreen

Menu icons or Camera indicators appear on Display; Tap target item for assigned setting/function. Icons/indicators vary by Camera mode and Viewfinder orientation.



Example: Pro Auto Camera



Example: Pro Auto Camera

1	Scene	6	Switch Cameras
2	Mobile Light	7	MENU
3	Shooting Size	8	Exit
4	Self-timer	9	Release Shutter
5	Change Viewfinder		·

## Changing Photo Viewfinder [Photo Viewfinder] Tap [A]/Disp

■ Switch from menu icons to Camera indicators to all off.
■ In all off. Press (☞) for menu icons.

#### Additional Operations

Zoom In/Out or Adjust Focus	Drag up/down.
Adjust Brightness	Drag left/right.

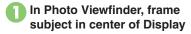
• Tap MENU for more functions/settings.

# Opening Help [Photo Viewfinder] Tap MENU → Tap Help

#### **Focus Lock**

Lock focus on subject; Camera continuously focuses on moving subjects.

- Chase Focus tracks subject's movement, and Continuous AF adjusts focus as distance to the subject changes.
- May be unavailable depending on Camera mode.







• Focus Mark (e.g., []) appears and Focus Lock is set.





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

#### **Canceling Focus Lock**

[1.7]

#### **Chase Focus**

• Camera uses color to track subjects; may not correctly track faintly colored subjects or ones similar to background color.

Shooting Size & Usage		
12M	A3 prints	
QFHD	16:9 aspect ratio prints	
5M	B5 prints	
3M	L to 2L prints	
Full HD	Full HD display wallpaper	
Wallpaper	Handset Wallpaper	
VGA Blog posts, etc.		
3M Full HD Wallpaper	L to 2L prints Full HD display wallpaper Handset Wallpaper	

## **Selecting Camera**

#### **Switching Cameras**







- Selected Camera activates.
- For subsequent operations, see
   "Using Selected Camera" on the right.

Selecting Camera by Purpose
After ①, № → From ②
Selecting Camera by Subject
After ①, № → № → From ②

#### **Using Selected Camera**

■ Rapid Shooting Camera



- Select mode → ●
- Frame subject on Display 

  After photo conture, thumbnails appear
  - After photo capture, thumbnails appear.





- Save process may take some time depending on the number of captured photos.
- If confirmation appears, follow onscreen prompts.
- Saved photos appear in Data Folder (Pictures > Shooted Pics).

#### **Shooting Manually**

After €, Press ● for each frame ◆ From ②

#### Saving Selected Photos

After ⊚, select photo ▶ • (☑) ▶ ☑

#### Using Photo Recommender

 Save a photo from recommended photos (automatically selected in terms of Face, Move, Sharpness and Macro, one for each).

After  $\odot$ ,  $\boxdot$   $\Rightarrow$  Photo Recommender  $\Rightarrow$   $\bullet$   $\Rightarrow$  Select photo  $\Rightarrow$   $\bullet$  ( $\checkmark$ )  $\Rightarrow$   $\checkmark$ 

Alternatively, Tap Recommend then proceed.

### Creating Strobe Photo (Composite Image)

 When Compose Strobo Photo appears in thumbnail list:

After €, 

→ Yes → • to start composing → • to save

Alternatively, Tap Compose Strobo Photo.

#### Look Back Camera

- Frame subject on Display ▶

  ☐ (whistle), ②
  ☐ (rattle) or
  ☐ (dog bark)
  - Sound plays.
- Face detection activates and shutter releases; photo appears
- **B**
  - Viewfinder returns.
- Smile Camera
- Frame subject on Display
- Smile detection activates and shutter releases; photo appears
- **3**
  - Viewfinder returns.

#### ■ Self Timer Camera

- Frame subject on Display
  - Countdown starts.
- Shutter releases after approximately ten seconds; photo appears
- **B**
  - Viewfinder returns.
- Wallpaper Camera
- - Wallpaper preview appears.
- Y/
  - Photo is set as Wallpaper. (Viewfinder returns.)
- Auction Camera
- - First photo appears.
- 20
  - Photo is saved.
  - Repeat 1 2 to capture two more photos following onscreen instructions.
- Yes → •

#### ■ Messaging Camera

- Frame subject on Display
- 2 17
  - Mail Composition window opens.
     Complete and send message.
- Shot Memo Camera
- - Corrected photo appears.
  - Alternatively, Tap Shot Memo.
- Select preview image
- 4
  - Photo is saved. (Viewfinder returns.)

#### ■ Pretty Arrange Camera

- Frame subject on Display
- 2 ½ ABC
  - Face is touched up.
  - Alternatively, Tap Pretty.
- 3 •
  - Photo is saved. (Viewfinder returns.)

## Canceling Effects After .

Adjusting Each Effect Separately
After (Small Face), (Cute

Eyes) or ③ (Fair Skin) → ⑥

Alternatively, Tap corresponding indicator then proceed.

#### When Multiple Faces are Detected

- After ②, Press [\*] to touch up all faces.
  To touch up selected faces:
  - After ②, № (select face) **>** (☑)
  - **▶** 2 % **♦** €

#### ■ Self Portrait Camera

- Turn handset around
- Frame your face on Display and look into Lens
- Face detection activates, tones sound, and shutter releases; photo appears
- 4
  - Viewfinder returns.

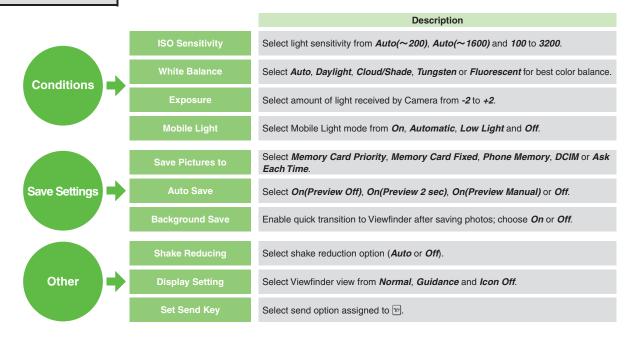
#### ■ Additional Cameras

Frame subject on Display  Select photo  To save all photos or use Photo Recommender, see P.7-8 "Rapid Shoeting Compan"	
<ul> <li>To save all photos or use Photo Recommender, see P.7-8 "Rapid</li> </ul>	
To save all photos or us Photo Recommender,	
Former subject on Display	
Frame subject on Display	
Frame subject on Display  • • • 22 • Drag on photo • • Save as  New or Overwrite • • • For Save as New, follow onscreen instructions.	

## **Changing & Saving Camera Settings**

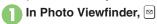
Change settings by purpose/shooting conditions; save frequently used settings as *My Camera* for future use. Some settings may be unavailable depending on Camera mode (no corresponding indicators appear).

#### Main Items Description **Focus Mode** Select Normal(Face), Center Auto Focus, Macro or Manual Focus. Continuous AF Adjust focus as focus-locked subject's position changes; choose *On* or *Off*. Focus Track focus-locked subject as it moves within Viewfinder; choose *On* or *Off*. **Focus Mark** Select focus frame design from Pattern 1 to Pattern 6. **One Touch Shutter** Release shutter upon Tapping Viewfinder; choose On or Off. Self-timer Select 10 sec, 5 sec, 2 sec or Off. Shutter Shutter Mode Select *Normal* (manual), *Eqao* (smile detection) or *Furimuki* (face detection). **Shutter Sound** Select shutter click sound from Pattern 1 to Pattern 3 Size **Picture Size** Select shooting size from 12M(3000x4000) to VGA(480x640). & **Picture Quality** Select photo quality from High Quality, Fine and Normal. Quality



#### **Changing Settings**

Example: Picture Quality





- Settings →
- 😱 Picture Quality 🖈 💽



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

#### **Saving Changed Settings**

After photo capture, save changed settings with a name and captured photo; load saved settings in the same manner as switching Cameras.

May be unavailable depending on Camera mode.

- Saving as My Camera
- 👔 In captured photo window, 🗵
- Specify area



Specified area is used as Camera's icon.

- **4**
  - 🗦 My Camera Name: 🖈 💽
- Enter name 🕈 💽
- ✓ [ɤ/] • My Camera is created.
- Entering Information

  After ⑤, Note: ▶ Enter text ▶

   ▶ Ø
- Using My Cameras
  In Photo Viewfinder, [v]
- Select My Camera ▶ •

## **Registering Faces (Detect Personal)**

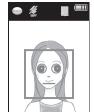
Register people's faces; related information appears in Viewfinder upon face detection, and saved photos are sorted into albums (Portrait & Pet).

- Register name, note and priority for up to ten faces.
- When multiple registered faces are detected, focus locks on one with highest priority.



**Saving Entries** 

- 🚹 In Photo Viewfinder, 🗵
- Detect Personal/Pet → ●
- Register Face ▶ •
- Use guide to find best position



• Guide turns red when face is detected.





- Window shown above opens when face is recognized correctly; if not, repeat ② - ⑤.
- Empty ⇒ ●
- 🕖 Name: 🖈 💽
- 혽 Enter name 🖈 💽
- - Entry is saved.
  - Lower entry numbers indicate higher priority.



 Upon face detection, Viewfinder information appears in selected color.

### Recording Videos

Record videos in portrait or landscape. Unless noted otherwise, video recording descriptions are for portrait orientation.

#### **Using Video Camera**

Record high definition videos with *HD Video Camera*, up to approximately 4 seconds per shot, on handset. Insert a Memory Card to record longer shots.







Video Viewfinder (HD Video Camera)

## Frame subject on Display

- Tone sounds and recording starts.
- RI
  - Tone sounds and recording stops.
    - Video is saved and plays; Viewfinder returns.
  - Play saved videos from Album, Review, Data Folder or Media Player.

#### Incoming Calls while Recording

 Recorded clip remains even if the call is answered. After the call, video is saved and plays automatically; Viewfinder returns.

#### If Battery Runs Low

Recording stops. (Recorded clip is saved.)
 Switching Video Cameras

#### Landscape Orientation

Hold handset horizontally for landscape recording; changes Viewfinder too.

In Video Viewfinder, rotate handset 90 degrees counterclockwise



#### Sending Recorded Video Using Mail

(Long Press)

Simple Setting → ●

💽 Video Cam For Mail Ϸ 💽



Video Viewfinder (Video Camera for Mail)

- Frame subject on Display
  - Tone sounds and recording starts.
- **a**
  - Tone sounds and recording stops.
  - Video is saved and plays.

🔁 During playback, 🗵

🥟 S! Mail 🖈 💽

• Mail Composition window opens.

😒 Complete message 🖈 🗹

#### **Main Viewfinder Operations**

#### Handset Keys

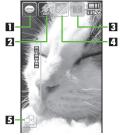
Zoom In/Out	•/•
Adjust Brightness	•/•
Mobile Light On/Off	# vo
Change Quality	* *
Pause/Resume Recording	While Recording, [\sup'*
Capture Photo	While Recording,
Cancel Recording (Start Over)	CLEAR CL JBACK
Open Help	0 %

May be unavailable depending on Camera mode and shooting size.

- Press to open Options menu for more functions/settings.
- Multi Selector functions change with Viewfinder orientation.

#### Touchscreen

Menu icons or Camera indicators appear on Display; Tap target item for assigned setting/function. Icons/indicators vary by Camera mode and Viewfinder orientation.



Example: HD Video Camera



Example: HD Video Camera



Example: HD Video Camera (Recording)

П	Scene	7	MENU
2	Mobile Light	8	Exit
3	Shooting Size	9	Start Recording
4	Self-timer	10	Capture Photo
5	Change Viewfinder	00	Stop Recording
6	Switch Cameras	12	Pause/Resume Recording

## Changing Video Viewfinder [Video Viewfinder] Tap // Disp

Switch from menu icons to Camera indicators to all off.

#### 

#### Additional Operations

<u> </u>	
Zoom In/Out	Drag up/down.
Adjust Brightness	Drag left/right.
Focus Lock	Tap image.

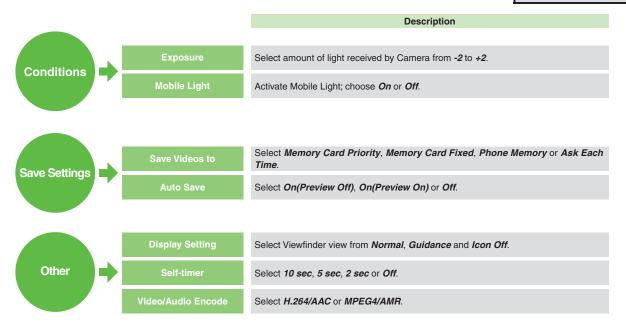
Tap MENU for more functions/settings.

Opening Help [Video Viewfinder] Tap *MENU* → Tap *Help* 

## **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).

## **Main Items** Description **Focus Mode** Select Normal(Portrait), Manual Focus or Macro. **Focus** Track focus-locked subject as it moves within Viewfinder; choose On or Off. Size **Picture Size** Select shooting size from HD(1280x720) to QCIF(176x144). & **Video Quality** Select High Quality, Fine or Normal. Quality Mic Record videos with sound: choose On or Off.



#### **Changing Settings**

Example: Picture Size (shooting size)

In Video Viewfinder,







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

#### **Saving Changed Settings**

Save changed settings as My Video Camera and load them as needed.
Change settings beforehand.

- Saving as My Video Camera
- In Video Viewfinder, ☐ →
  Simple Setting → ●
- My Video1 Regist or My Video2 Regist ▶
  - Settings are saved as My Video Camera.

Overwriting Saved My Video Camera
After ⊘, Yes ▶ •

- Using My Video Cameras
- Select My Video Camera

### **Opening Saved Images from Album**

#### **Basics**

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

Portrait & Pet	Stores portraits (sorted into albums by registered face) and images containing detected pets.
Event	Stores images sorted into albums by period scheduled in Calendar.
By Camera	Stores images sorted into albums by Camera mode.
By Date	Stores images sorted into albums by captured date.

#### **Album Images & Source Files**

 Album stores only file locations. (Source files are saved in Data Folder.) Images disappear from Album if source files are deleted.



A single image may be sorted into multiple categories (e.g., a portrait captured with a specific Camera is stored in *By Camera* and *Portrait & Pet*). In addition, a single image with multiple registered faces will be stored in each subject's album in *Portrait & Pet*.

#### **Opening Albums**





Album Window

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





Album List

Albums within appear.

Select album **▶** •



Image List

Select image



- Image appears.
- For Rapid Shooting Camera and Three-Shot Camera albums, images appear sequentially (Continuous Slide); Press • to stop.

#### **Opening Latest Album** After 1, [Y]

Slideshow (Photos)

After ②, select album ▶ 🖾 ▶ Slide Show **▶** •

#### Creating Original Albums

Create new albums by selecting sort keys (from Portrait & Pet. Event and By Camera) and specifying date and time. To create an album by selecting sort keys from Portrait & Pet and By Camera:

In Album window. □ → Create Original Album 

▶ •



- Choose Portrait & Pet ▶ •
- Select entry ▶ •



- Repeat (3) to complete selection.



Select Camera **▶** •



Repeat (5) to complete selection.



- Enter name **→**
- Yes 

  ●

#### **Previewing Created Album** After ∅, Album Preview ▶ •

■ To return, Press (MACK).

**Editing Sort Keys** 

[Album List] Select album ▶ 🖾 ▶ item → • Edit → 🗹

■ For items other than Select Date/Time, Press v again.