Getting Started

Capture still images or record video.

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

002SH 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.

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(Face)	14M
	Pro Auto Camera	Capture nearby subjects easily (settings mostly changeable)	Normal(Face)	14M
	Quick Camera	Capture distant scenery quickly	Manual Focus	ЗМ
	Scene Cameras	Select one according to subject/shooting conditions	Normal(Face)	14M
Subject & Conditions	Monochrome Camera	Capture black and white images	Normal(Face)	14M
	Sepia Camera	Capture sepia images	Normal(Face)	14M
	Long Exposure Camera	Capture images in low light (fireworks, night scenes, etc.)	Normal(Face)	14M
	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 image and set it as Wallpaper	Normal(Face)	Wallpaper
Specific Objectives	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(Face)	VGA
	Blog Camera	Capture and post images to blogs easily	Normal(Face)	VGA

Getting Started

		Description	Focus Mode	Size
	Look Back Camera	Play sound and release shutter automatically when subject turns face to camera	Normal(Face) [•]	14M
Auto Shutter Release	Smile Camera	Release shutter automatically when subject smiles	Normal(Face) [*]	14M
	Self Timer Camera	Release shutter automatically after selected time elapses	Normal(Face)	14M
	Rapid Shooting Camera	Capture up to 100 images rapidly	Normal(Face)	Full HD
Consecutive Shooting	Three-Shot Camera	Capture three consecutive images of up to 14M size automatically	Normal(Face)	14M
	Best Select Photo	Select best image from a series of rapid shot images including moments immediately before shutter releases	Center Auto Focus	QVGA
Fun Cameras	Fish-eye Camera	Capture images with enhanced barrel distortion as if shot with full-frame horizontal fisheye lens	Center Auto Focus	ЗМ
	Miniaturize Camera	Capture images of scenery, etc. that resemble miniature models as if shot with a tilt-shift lens	Center Auto Focus	5M
	Drawable Camera	Drag on captured image to scribble or sketch	Normal(Face)	Wallpaper

Getting Started				
donning on the				
		Description	Focus Mode	Size
	Pretty Arrange Camera	Touch up faces in captured images	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 ⁻
	HD Video Camera	Record long high quality video	Normal(Portrait)	HD*
Video Comora	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 for Mail	Record small video easily to send it via mail	Normal(Portrait)	QCIF
		 Camera-in-Use Light LED beside the lens flashes red while mobile cam is active. LED illuminates red while recording vide 	iera 30.	

Camera-in-Use Light

Capturing Still Images

Viewer Position

(**D** =)

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



Rotate Display to Viewer position



Tap I ➡ Swipe to select *Pro Auto Cam*





Frame subject on Display



Photo Viewfinder (face detected)

- Focus is locked on the face of a detected person or pet automatically for Pro Auto Camera, Easy Auto Camera, etc. (Face 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.
- 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 images to designated folder (Portrait & Pet).
- Camera cannot detect registered faces and pets at the same time.





Captured Image Window

• Shutter clicks; captured image appears.



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

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.

Photo Camera

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 🛃

Additional Operations

Zoom In/Out	Drag up or down across image
Adjust Brightness	Drag left or right across image
Focus Lock	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 distant scenery via *Quick Camera*:



Photo Viewfinder appears.



R

Frame subject on Display

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

40

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

⑦ ➡ 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:

Pre-Image Capture Operations (Handset Keys)

Zoom In/Out	<u>ی</u> /
Adjust Brightness	\odot/\odot
Toggle Mobile Light Mode	₩ ,ä
Toggle Indicator View	
Open Help	

Press (2) 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.



In Photo Viewfinder, frame subject in center of Display

6

Half press and hold a or tap subject

- Focus Lock is set.
- Focus Lock is set.
- To cancel, release
 or tap subject again.



- Captured image appears.
- Tap 💭 or *OK* to return to Viewfinder.

Using Handset Keys

■ To cancel Focus Lock, press 🔊 again before pressing).

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

002SH Picture Size & Corresponding Usage:

14M	A3 prints
10M	B4 prints
5M	B5 prints
3M	L to 2L prints
Full HD	Full HD display wallpaper
Wallpaper	002SH Wallpaper
VGA	Blog posts, etc.
QVGA	Mail attachments, etc.

Smart Resize Zoom

 At 14M(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)

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



Swipe to select camera

Tap camera

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

Using Selected Camera

(Landscape Display Touch Panel Operations)

Rapid Shooting Camera

🔵 Тар 📠



Frame subject on Display

 After image capture, thumbnails appear.

🚺 Tap 🔙

Tap Save

- Save process may take some time depending on the number of captured images. If a confirmation appears, tap **Yes**, then tap **OK**.
- Saved images appear in Data Folder (Pictures > Shooted Pics).

Shooting Manually After ⊘, press ▲ for each frame ➡ From ② Saving Selected Images After ②, tap image (♥) ➡ Tap Save

After ⓒ, tap image (☑) ➡ Tap Save Using Photo Recommender

- Follow these steps to save an image from recommended images (automatically selected in terms of Face, Move, Sharpness and Macro, one for each).
 - After ⓒ, tap 🔝 ➡ Tap image (☑) ➡ Tap *Save*

Creating Strobe Photo (Composite Image)

After ⓒ, tap 🛄 🕈 Tap Yes ➡ Tap OK

- Tap 💭 to save.
- May be unavailable depending on rapid shooting mode.

Look Back Camera

Frame subject on Display Tap 🖏, 🏷 or 🖏

Sound plays.

Face detection activates and shutter releases: image appears



Tap OK

Viewfinder returns.

Smile Camera



Frame subject on Display

Smile detection activates and shutter releases; image appears



Tap OK

• Viewfinder returns.

Self Timer Camera



- Countdown starts.
- Shutter releases after approximately ten seconds; image appears



Viewfinder returns.

Wallpaper Camera

Frame subject on Display

Wallpaper preview appears.

Tap Setting

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

Auction Camera



- First preview image appears.

Tap 💭

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



Messaging Camera



Tap 🖂



Shot Memo Camera







Tap 🎵 Viewfinder returns.

Photo Camera

Pretty Arrange Camera

Frame subject on Display



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



Tap Apply 🕈 Tap 🎵

Viewfinder returns.

Adjusting Each Effect Separately

After ⊘, tap corresponding indicator (
K, etc.)

Tap the same indicator repeatedly for further adjustment.

When Multiple Faces are Detected

 After ⊘, tap X to touch up all faces. To touch up select faces, follow these steps: Tap frame (♥) ♥ Tap X ♥ ⑧

Self Portrait Camera

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

- Turn handset upside down
- Rotate Display

180 degrees ➡ Tap OK

Frame your face on Display and look into the lens

Face detection activates, tones sound, and shutter releases; image appears

Tap OK

• Viewfinder returns.

Additional Cameras Three-Shot Frame subject on Display ➡ ▲ ➡ Tap image ➡ Camera Tap Save To save all images or use Best Select Photo Recommender. Photo see P.7-8 "Rapid Shooting Camera." Scene Cameras Monochrome Camera Frame subject on Display Sepia Camera Miniaturize Camera Fish-eve Camera Frame subject on Display Long Exposure Shutter is left open for Camera approximately 30 seconds before image capture. Frame subject on Display 🕈 🙈 🅈 Tap 🌄 🕈 **Blog Camera** Proceed with blogging Frame subject on Display ➡ ▲ ➡ Tap on image Tap Assign Drawable Tap Save as New or

Camera

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).

Major Items

		Description
	Focus Mode	Select Normal(Face), Center Auto Focus, Macro or Manual Focus
Foous	Continuous AF	Adjust focus as focus-locked subject's position changes; choose <i>On</i> or <i>Off</i>
Focus	Chase Focus	Track focus-locked subject as it moves within framed image; choose On or Off
	Focus Mark	Select focus frame design from <i>Pattern 1</i> to <i>Pattern 6</i>
	One Touch Shutter	Release shutter upon tapping subject; choose On or Off
	Self-timer	Select 10 sec., 5 sec., 2 sec. or Off
Snutter	Shutter Mode	Select <i>Normal</i> (manual), <i>Egao</i> (smile detection) or <i>Furimuki</i> (face detection)
	Shutter Sound	Select shutter click sound from Pattern 1 to Pattern 3
Image Size	Picture Size	Select image size from 14M(3240x4320) to QVGA(240x320)
& Quality	Picture Quality	Select image quality from High Quality, Fine and Normal

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

Changing Settings

(Landscape Display Touch Panel Operations) Example: Picture Quality

In Photo Viewfinder, tap *MENU*





Tap Picture Quality twice



6)

- 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

- In captured image window, tap *Options* ➡ Tap *Save as My Camera*
 - Messages appear.
- Drag frame to specify image area



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



- Swipe to select My Camera
- Tap My Camera

Photo Camera

Registering Faces (Detect Personal)

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



Tap Detect Personal/Pet



Use guide to find best position



Guide turns red when face is detected.

5					_
	Register	Face	"Lil	150	j <u>5</u>
	Empty				
	Empty				
	Empty				
	CLEAR /BACK	R	8	e de la comunicación de la comun	

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



Tap Name:





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

Entering Information

- After ⓒ, tap Note: ► Enter text ► Tap Done 🜩 😑
- Setting Text Color
 - After ⓒ, tap Font Color: ➡ Tap color •
 - Upon face detection, Viewfinder information appears in the selected color.

Recording Video

Precautions

Do not cover Recorder Microphones while recording video.



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.



With handset open, A (Long)

Rotate Display to Viewer position



Video Viewfinder (HD Video Camera)



• Recording starts after a tone.



- Recording stops with a tone.
- Video is saved and plays back; Viewfinder returns.
- Play saved video via Album, 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 and plays back automatically; 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

Video Camera

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.



Toggling Indicator View [Video Viewfinder] Tap

Additional Operations

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

Tap MENU for more functions/settings.

Changing Scene Setting by Subject [Video Viewfinder] Tap → Swipe to select scene 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**:





Video Viewfinder (Video Camera for Mail)



- Recording starts after a tone.
- 50
 - Recording stops with a tone.
 - Video is saved and plays back.

Ouring playback, ☺ S! Mail • Mail Composition window opens.			
Complete n	nessage 🕈 🐑		
Switching Video Cameras [Video Viewfinder] ☺ ➡ Simple Setting ➡ ● ➡ Select video camera ➡ ●			
Video Viewfinder Operations (Handset Keys)			
Zoom In/Out	٥/٩		
Adjust Brightness	\odot/\odot		
Mobile Light On/Off	(₩ , ^v ₂)		
Change Quality	(X ±2)*		
Pause/Resume Recording	While Recording, 🐨*		
Capture Still Image	While Recording, [*]		
Cancel Recording (Start Over)	(Mitte		
Open Help	3 ^{ac} ()		

May be unavailable depending on camera mode and recording size. Press (a) 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)

In Video Viewfinder, tap camera selection indicator (, etc.)



Swipe to select GolfSwingVideoCam and tap it

Frame head within green

- circle 🗭
- Countdown starts.
- Recording starts after approximately ten seconds; video is saved and plays back 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.).
 - 🖲 🜩 Entertainment 🜩 🖲 ♦ Media Player ♦ ●

Videos \Rightarrow \bigcirc \Rightarrow Golf Swing Play 🗭 🗩)

- Select storage media \Rightarrow \bigcirc
- Select first file \Rightarrow \bigcirc (\square/\square)

Select second file $\Rightarrow \bigcirc (\square/\square)$



• To hide message, press 🖾.

▶ (●) (•) Synchronizing process starts.



• Slow motion playback starts. Adjusting Head Position In 🕗, 💿 🗭 🖾 (Chg. Up) or 📨 (Chg.Low)
(Chg.Low) frame head **>** (**) >** (**) >** (**)** Setting Swing Direction & Point of View In 🕗, 💿 🗭 🖾 (Chg. Up) or 📨 (Chg.Low)
(Prev.) or ((Next)) Pausing Playback (\bullet) In pause, press
 to advance frame. **Replaying during Playback** (0)

```
Plaving at Normal Speed
   In 😔, 💽 (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).



Video Camera		
video Gamera		
		Description
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 <i>On</i> or <i>Off</i>
	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/AAC or MPEG4/AMR

Changing Settings

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

In Video Viewfinder, tap MENU









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

In Video Viewfinder, tap MENU ➡ Tap Simple Setting

Tap Save as My Video1 or Save as My Video2

• Settings are saved as My Video Camera.

Overwriting Saved My Video Camera After ⊘, tap Yes Using My Video Cameras



In Video Viewfinder, tap MENU
Tap Simple Setting

🕽 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.

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 can be sorted into multiple categories (e.g., a portrait captured using 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

(Portrait Display Handset Key Operations)





Album Window

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



Album List

Albums within appear.









() Select image

Select album **+** •

15:05

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

Image List





• Repeat 🕙 to complete selection.

(Y)