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9

Camera & Imaging



Getting Started

Capture still images or record video.

Various Image Sizes

Select small sizes to send captured images/recorded video via S! Mail*; select larger sizes for higher resolutions.

Auto Focus

Measures the distance between subjects and camera to adjust focus.

Multiple Shooting Modes

Apply effect or add frame, capture sequential/panoramic or scan images.

Imaging Functions

Edit captured images or print on a compatible printer.

*May not be delivered as sent depending on image/recording size or recipient device.

Precautions

- Clean dust/smudges from lens cover with a soft 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.
- Subjecting the lens to direct sunlight will damage the camera's color filter.

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.



Viewfinder Description

Indicators appear at the top of Display. Press Softkeys on the right for basic operations or access full menu via Options at the bottom. Slider is closed in most operation descriptions/screenshots.

- 
- Tap to show adjustment bar; move slider as needed.
 - Zoom In/Out
 - Adjust Image Brightness
 - Tap to show adjustment bar; move slider as needed.
 - Shutter (Photo Camera)
Record/Stop (Video Camera)
 - Toggle Mobile Light Mode
 - Hidden in portrait orientation.

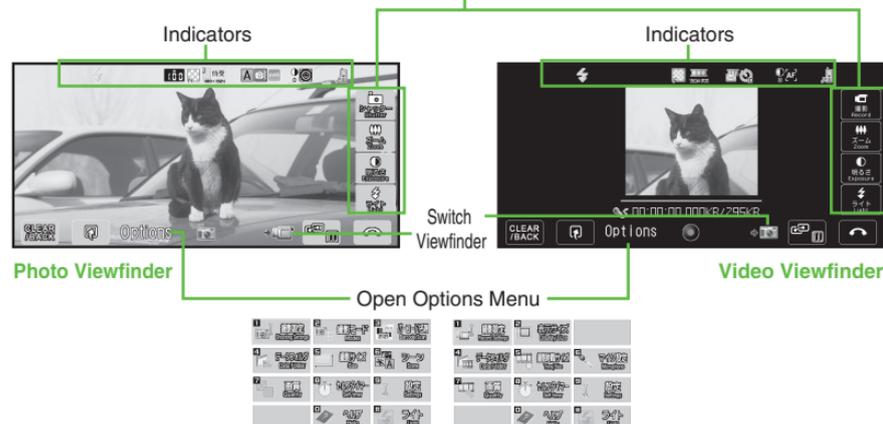


Photo Viewfinder Indicators

	Mobile Light
	Memory
	Picture Quality
	Picture Size
	Continuous Shoot
	Scene
	Shake Reducing
	Self-timer
	White Balance
	Exposure
	Focus
	Save to

Video Viewfinder Indicators

	Mobile Light
	Video Quality
	Record Size
	Memory for image capture
	Record Time
	Self-timer
	Exposure
	Focus
	Save to



Capturing Still Images

1 MENU or → Camera

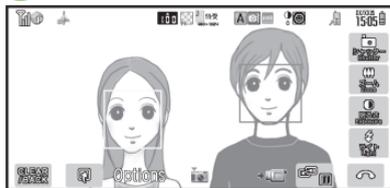


Photo Viewfinder

- Frames appear on detected faces. (Face Auto Focus)
- Alternatively, touch area to lock focus on.

2 Frame image on Display → Shutter or

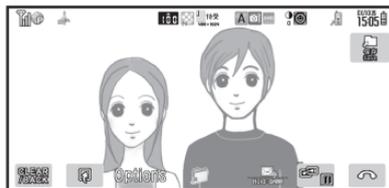


Image Save Window

- Shutter clicks and the captured image appears. (To discard file and start over, press **CLEAR/BACK** or .)

3 Save or

- Image is saved. (Viewfinder returns for another shot.)
- Open saved images via Data Folder.

4 or → Camera shuts down

Face Detection

- Detection may fail depending on face angle, distance from subject or environment.

Sending Captured Images via S! Mail

After , or → Complete message → **Send** or

- May not be delivered as sent depending on image size or recipient device.

Pre-Image Capture Operations

Operation	Touch Panel	Key
Zoom In/Out	Zoom → Tap adjustment bar	
Exposure	Exposure → Tap adjustment bar	
Toggle Mobile Light Mode	Light	

Advanced

- Opening Help
- Activating Mobile Light
- Adjusting focus quickly for close-up shots
- Adjusting focus manually
- Locking focus
- Changing image quality (P.9-15)
- Correcting Face Auto Focus images
- Changing image size
- Changing mode according to lighting or subject (P.9-16)



Enlarging Specific Image Portions

Check captured image details before saving.

May be unavailable depending on image size, etc.

Touch Panel

1 In image save window, Long Touch portion



Partial Enlargement Window

- Touched portion is enlarged; double-tap or spread fingers to enlarge further.
- To return to captured image, tap **CLEAR/BACK**.

Viewing Outside of Enlarged Portion Drag finger within enlarged portion

Handset Keys

1 In image save window,

1 - 9 (Long)

- Press to enlarge further.
- To return to captured image, press .
- Key Assignments:

■ Landscape Orientation

Upper left	Upper center	Upper right
Left	Center	Right
Lower left	Lower center	Lower right

■ Portrait Orientation

Upper left	Upper center	Upper right
Left	Center	Right
Lower left	Lower center	Lower right

Viewing Outside of Enlarged Portion



Advanced

- Accessing files from Viewfinder
- Sending files
- Adjusting brightness
- Activating automatic saving
- Changing save location (P.9-15)
- Setting Center Auto Focus
- Adjusting color balance according to lighting conditions
- Changing shutter click sound (And more on P.9-16)



Recording Video

1 MENU or → Camera

2 or



Video Viewfinder

- Omit 2 if Video Camera is already active.
- For pre-recording operations, see P.9-4 "Pre-Image Capture Operations."

3 Frame image on Display → Record or

- Recording starts after a tone. (To start over, press CLEAR/BACK or .)

4 Stop or



Video Save Menu

- Recording stops with a tone. (To discard file and start over, press CLEAR/BACK or .)

5 Save

- Video is saved. (Viewfinder returns for another shot.)
- Play saved video via Data Folder or Media Player.

6 or → Camera shuts down

Pausing Recording

After , or

- May be unavailable depending on recording size.

Playing Unsaved Video

In , Preview

Sending Recorded Video via S! Mail

In , Send → Save and Send → Complete message → Send or

- May not be delivered as sent depending on recording size or recipient device.

Capturing Images while Recording Video (Still Image Capture)

After , or

- Captured images are saved when saving recorded clip; open them via Data Folder.

Incoming Calls

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

When Battery Runs Low

- Recording stops. (Recorded clip is saved.)

Advanced

- Opening Help
- Activating Mobile Light
- Adjusting focus quickly for close-up shots (And more on P.9-15)
- Changing recording time/size
- Enlarging Viewfinder size
- Recording video without sound
- Setting video encoding to H.264 (P.9-16)

Using Shooting Modes

May be unavailable depending on selected image/recording size.

Self-timer

1 In Photo/Video Viewfinder, *Options* or  ➔ *Self-timer*

2 Select time



3 Frame image on Display ➔ *Shutter/Record* or 

- After selected time elapses, captured image appears or recording starts.
- To stop recording, press *Stop* or .

Releasing Shutter during Countdown

After , *Shutter/Record* or 

Incoming Calls/Alarm during Countdown

- Countdown stops. (Self-timer remains active.)

Continuous Shoot (Photo Camera)

Available Modes:

4 Pictures	Capture four separate images with Index Image
9 Pictures	Capture nine separate images with Index Image
Overlapped	Capture five images to create a composite image

1 In Photo Viewfinder, *Options* or  ➔ *Modes*



Mode Menu

2 *Continuous*

3 Select mode ➔ Select speed

4 Frame image on Display ➔ *Shutter* or 

- After image capture, Index Image or a composite image appears.
- When shooting speed is set to **Manual** (4 Pictures and 9 Pictures modes), repeat **4** for each frame.

5 *Save* or 

6 *All Pictures*

- All captured images are saved.

Saving the Selected Image

After **4**, select image ➔ *Save* or  ➔ *Select Picture*

- Alternatively, drag image left or right to switch between captured images.

Adding Frames (Photo Camera)

1 In mode menu, *Frame*

2 *Preset* ➔ Select frame

3 Frame image on Display ➔ *Shutter* or 

- Captured image appears.

Using Frames in Data Folder

In **2**, *Data Folder* ➔ Select frame ➔ *Assign* or 



Camera Effects (Photo Camera)

- 1 In mode menu, **Effects**
- 2 Select effect ➔ **Apply** or 
- 3 Frame image on Display ➔ **Shutter** or 
 - Captured image appears.

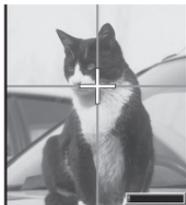
Panorama Picture (Photo Camera)

- 1 In mode menu, **Panorama/Scanner**



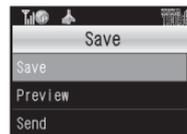
Panorama/Scanner Menu

- 2 **Panorama** ➔ **On**
- 3 Frame image on Display ➔  or 



- Move handset slowly to keep  aligned with either of yellow lines.
- Image is captured automatically when the bar () turns blue.

- 4  or 



Save Menu

- Image is captured and Save menu opens.

- 5 **Save**

- Image is saved.

Checking Unsaved Images

[Save Menu] **Preview**

Sending Captured Images via S! Mail

[Save Menu] **Send** ➔ **Save and Send**➔ **Complete message** ➔ **Send** or 

Advanced

-  ● Changing Panorama settings ● Changing Panorama image preview method (P.9-16)

Scanning Images (Photo Camera)

1 In **Panorama/Scanner** menu, **Scanner**

2 Select size ➔ **Frame image on Display** ➔  or 



- Move handset slowly to scan the area to capture. (Refer to indicators on Display.)

3  or 

- Image is captured and Save menu opens.

4 **Save**

- Image is saved.

Handling Captured Images

- Preview or send them via S! Mail in the same way as Panorama Picture images.



Editing Images

Getting Started

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

Picture Editor

Resize	Select from preset sizes or crop image for size
Frame	Add Frame to images
Paste	Add text/dates to images
Retouch	Dress up images with preloaded visual effects
Stamp	Add stamps to images
Face Arrange	Make smiley, angry or sad faces
Correction	Correct images
Rotate	Rotate images
Scribbling	Scribble or sketch
File Format	Convert file format and change file size

Composite

Split Picture	Combine up to four images into one
Merge Panorama	Combine two still images into one

Picture Editor

- 1 MENU or ➔ Data Folder
- 2 Pictures ➔ Highlight image
- 3 Options or ➔ Edit
- 4 Picture Editor



Picture Editor Menu

- 5 Select effect ➔ Edit
 - To start over, press **CLEAR/BACK** or .

- 6 When finished, Save or



- 7 Save as New
 - To overwrite, select **Overwrite**. (Omit .)
- 8 Enter name ➔ Done or
 - ➔ Save here

Canceling Effects

After , **undo**

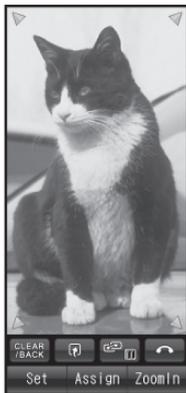
- To restore effect immediately after canceling, select **redo**.



Scribbling

Drag finger on Display to scribble or sketch.

- 1 In Picture Editor menu, **scribbling**



- Press **ZoomIn** or to enlarge.

- 2 Touch image and move finger
 - To see portions outside Display, drag arrows at the corners.

- 3 **Assign** or

- Editing is completed.

Changing Line Thickness & Color

Set or ➔ Select thickness ➔

Select color ➔ Done or

Changing Image Size

Resize to Preset Size

- 1 In Picture Editor menu, **resize**
- 2 Select size
- 3 Specify display area



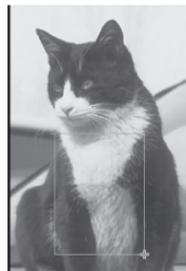
- To zoom in/out, press **Resize** or
- Omit if there is no rectangle on the image.

- 4 **Assign** or

- Editing is completed.

Cropping Images

- 1 In Picture Editor menu, **resize**
- 2 **Cut**
- 3 Move + to the upper left corner of the portion to crop ➔ **Switch** or



- 4 Move + to the lower right corner of the portion to crop ➔ **Assign** or
- 5 Specify display area
 - To zoom in/out, press **Resize** or
 - then adjust size.
- 6 **Assign** or
 - Editing is completed.

Advanced

- Using additional editing options (P.9-17)



Face Arrange

1 In Picture Editor menu, *arrange*



Face Arrange Menu

2 Select type

3 *Assign or*

- Editing is completed.

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.

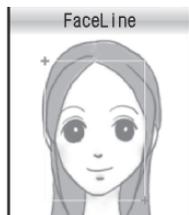
Adjusting Positions

Change the default positions and sizes of targets to fit the image.

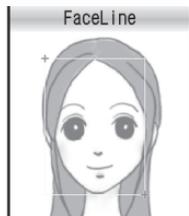
1 In Face Arrange menu, *Parts* or *Modify or*

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

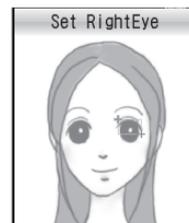
2 Move + to top left of face



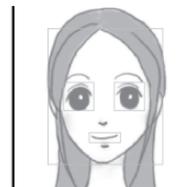
3 *Switch or*



4 Move + to bottom right of face *Assign or*



- Face line is set. Set the eyes and then mouth in the same way.



5 *Assign or* *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

Panorama Images

Panorama Image Effects:

Near View	Best suited for close-up shots
Document	Use for images with text
Standard	Apply to other images

- 1 **MENU** or ➔ **Data Folder**
- 2 **Pictures** ➔ **Highlight image**
- 3 **Options** or ➔ **Edit**
- 4 **Composite**

5 **panorama**

- File highlighted in 2 is set as left image.

- 6 **<Empty>** ➔ **Select image**
- 7 **EFFECT** ➔ **Select effect**
 - Editing is completed.

- 8 **When finished, Save** or
 - Merged image appears.

- 9 **OK** or
- 10 **Enter name** ➔ **Done** or
 - ➔ **Save here**

Changing Images

After 2, select image ➔ **Change** or ➔ **Select image**

Switching Image Positions

After 3, **Flip** or

Advanced

- Combining reduced images (P.9-18)



Printing Images

Digital Print Order Format (DPOF)

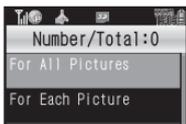
Select images from Memory Card and specify the number of copies to print on DPOF-compatible printers, or at digital printing services.

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

1 MENU or ➔ **Settings** ➔ **Highlight Connectivity** tab

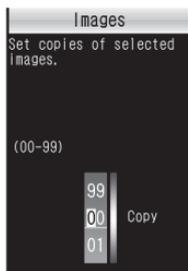
2 Memory Card ➔ **DPOF**

3 Number of Copies



4 For Each Picture ➔ **Select folder**

5 Highlight image ➔ **Count** or



6 Enter a number of copies to print ➔ **Accept** or

- For more settings, repeat **5** - **6**.

7 Save or

Applying a Number to All Images

In **5**, For All Pictures ➔ Enter a number of copies to print ➔ **Accept** or

Canceling Specified Number

In **5**, enter 00 ➔ **Accept** or ➔ **Save** or

Viewing Current Print Settings

In **5**, 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 MENU or ➔ **Data Folder** ➔ **Pictures**

2 Highlight image ➔ **Options** or ➔ **Print**

3 Via Bluetooth ➔ **Select printer**

4 Yes

- To cancel, press **Cancel** or .

When Authorization Code is Required

Enter Authorization Code ➔ **OK** or



Advanced

Changing print settings (P.9-18)

Photo Camera & Video Camera	
Opening Help	In Photo/Video Viewfinder, <i>Options</i> or ➔ <i>Help</i>
Activating Mobile Light	In Photo/Video Viewfinder, <i>Options</i> or ➔ <i>Light</i> ➔ <i>On</i> or <i>Auto</i> <ul style="list-style-type: none"> • <i>Low Light</i> is also available for still image capture. • Do not use Mobile Light near people's faces or look into the light yourself.
Adjusting focus quickly for close-up shots	In Photo/Video Viewfinder, <i>Options</i> or ➔ <i>Shooting Settings</i> or <i>Record Settings</i> ➔ <i>Focus</i> ➔ <i>Macro</i>
Adjusting focus manually	In Photo/Video Viewfinder, <i>Options</i> or ➔ <i>Shooting Settings</i> or <i>Record Settings</i> ➔ <i>Focus</i> ➔ <i>Manual</i> ➔ Tap adjustment bar or ➔ <i>OK</i> or <ul style="list-style-type: none"> • To readjust focus, press or .
Locking focus	Start Here In Photo/Video Viewfinder ➔ See below
	<p>Touch Panel Tap area you want to lock focus on</p> <p>Handset Keys or </p> <ul style="list-style-type: none"> • Frame subject in center of Display first. • To start over, press or again.
Changing image quality	In Photo/Video Viewfinder, <i>Options</i> or ➔ <i>Quality</i> ➔ Select quality

Accessing files from Viewfinder	Start Here In Photo/Video Viewfinder, <i>Options</i> or ➔ <i>Data Folder</i> ➔ See below
	<p>Still Images Highlight file ➔ <i>View</i> or </p> <p>Video Highlight file ➔ <i>Play</i> or </p>
Sending files	<p>Panorama/Scanned Images After image capture (Save menu opens), <i>Send</i> ➔ Select option</p> <p>Other Still Images After image capture (image appears), <i>Options</i> or ➔ <i>Send</i> ➔ Select option</p> <p>Video After recording (Save menu opens), <i>Send</i> ➔ Select option</p>
	Adjusting brightness
Activating automatic saving	In Photo/Video Viewfinder, <i>Options</i> or ➔ <i>Settings</i> ➔ <i>Auto Save</i> ➔ <i>On</i>
Changing save location	In Photo/Video Viewfinder, <i>Options</i> or ➔ <i>Settings</i> ➔ <i>Save to</i> ➔ Select location



Photo Camera

Correcting Face Auto Focus images	[Start Here] After image capture (image appears), <i>Options</i> or ➔ <i>Correlate to Face</i> ➔ See below
	Adjusting Face/Background Brightness <i>Against sun</i> ➔ <i>Apply</i> or
	Blurring Out-of-Focus Portions <i>Portrait</i> ➔ <i>Apply</i> or
Changing image size	In Photo Viewfinder, <i>Options</i> or ➔ <i>Size</i> ➔ Select size
Changing mode according to lighting or subject	In Photo Viewfinder, <i>Options</i> or ➔ <i>Scene</i> ➔ Select mode
Setting Center Auto Focus	In Photo Viewfinder, <i>Options</i> or ➔ <i>Shooting Settings</i> ➔ <i>Focus</i> ➔ <i>Center AF</i>
Adjusting color balance according to lighting conditions	In Photo Viewfinder, <i>Options</i> or ➔ <i>Shooting Settings</i> ➔ <i>White Balance</i> ➔ Select mode
Changing shutter click sound	In Photo Viewfinder, <i>Options</i> or ➔ <i>Settings</i> ➔ <i>Shutter Sound</i> ➔ Select pattern • Shutter click sounds for Continuous Shoot, Panorama Picture and Scanner are fixed.
Hiding indicators	In Photo Viewfinder, <i>Options</i> or ➔ <i>Settings</i> ➔ <i>Indicators</i> ➔ <i>Hide</i>
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 <i>Set Remote Shutter</i> to <i>On</i> beforehand. For details, see the Bluetooth® watch guide.

Disabling remote shutter control via Bluetooth® watches	In Photo Viewfinder, <i>Options</i> or ➔ <i>Settings</i> ➔ <i>Remote Shutter</i> ➔ <i>Off</i> • Available when a Bluetooth® watch is registered.
Changing Panorama settings	[Start Here] In Photo Viewfinder, <i>Options</i> or ➔ <i>Settings</i> ➔ <i>Panorama Set.</i> ➔ See below <i>Hiding Guides</i> <i>Assisting Lines</i> ➔ <i>Off</i> <i>Locking Display Brightness during Image Capture AE-Lock</i> ➔ <i>Enable</i>
Changing Panorama image preview method	In Panorama preview, <i>Options</i> or ➔ <i>Manual Scroll</i> or <i>Full Image</i>
Disabling shake reduction	In Photo Viewfinder, <i>Options</i> or ➔ <i>Modes</i> ➔ <i>Shake Reducing</i> ➔ <i>Off</i>

Video Camera

Changing recording time/size	In Video Viewfinder, <i>Options</i> or ➔ <i>Time/Size</i> ➔ <i>For Message</i> or <i>Extended</i> ➔ Select size
Enlarging Viewfinder size	In Video Viewfinder, <i>Options</i> or ➔ <i>Display Size</i> ➔ <i>Enlarge</i>
Recording video without sound	In Video Viewfinder, <i>Options</i> or ➔ <i>Microphone</i> ➔ <i>Off</i>
Setting video encoding to H.264	In Video Viewfinder, <i>Options</i> or ➔ <i>Settings</i> ➔ <i>Encode</i> ➔ <i>H.264</i>



Editing Images

Picture Editor

Using additional editing options	<p>[Start Here] MENU or  ⇒ Data Folder ⇒ Pictures ⇒ Highlight image ⇒ Options or  ⇒ Edit ⇒ Picture Editor ⇒ See below</p>
	<p>Applying Visual Effects <i>retouch</i> ⇒ Select effect ⇒ Assign or </p>
	<p>Changing Text/Outline Color <i>paste</i> ⇒ Color or  ⇒ Select text color ⇒ Select outline color ⇒ Done or </p>
	<p>Adding Text <i>paste</i> ⇒ Free Text ⇒ Enter text ⇒ Done or  ⇒ Move text ⇒ Assign or </p>
	<p>Adding Dates <i>paste</i> ⇒ Date ⇒ Move text ⇒ Assign or </p>

Using additional editing options

[Start Here] **MENU** or  ⇒ **Data Folder** ⇒ **Pictures**
 ⇒ **Highlight image** ⇒ **Options** or  ⇒ **Edit**
 ⇒ **Picture Editor** ⇒ See below

Adding Frames

frame ⇒ **Select frame** ⇒ **Assign** or 

Adding Stamps

stamp ⇒ **Select stamp** ⇒ **Move stamp** ⇒
Assign or 

Correcting Image Parameters

correct ⇒ **Select type** ⇒ **Assign** or 

Rotating Images

rotate ⇒ **Select type** ⇒ **Assign** or 

Converting File Format

format ⇒ **File Format** ⇒ **Select format**

- Changing file format may affect file size/image quality.
- To return to Picture Editor menu, press **CLEAR/BACK** or .

Changing File Size

format ⇒ **File Size** ⇒ **Select size**

- Changing file size may affect image quality.
- To return to Picture Editor menu, press **CLEAR/BACK** or .



■ Composite

Combining reduced images	<p>[Start Here] MENU or ● ➔ Data Folder ➔ Pictures ➔ Highlight image ➔ Options or ☒/☒ ➔ Edit ➔ Composite ➔ See below</p>
	<p>Creating Split Picture <i>split 480x1024</i> or <i>split 240x320</i> ➔ <Empty> ➔ Select file ➔ When finished, Save or ☒/☒ ➔ Enter name ➔ Done or ● ➔ Save here • Repeat from selecting <Empty> as needed.</p>
	<p>Previewing Split Picture While creating Split Picture, Options or ☒/☒ ➔ View Composite</p>
	<p>Changing Images While creating Split Picture, select image ➔ Change or ☒/☒ ➔ Select another</p>
	<p>Deleting Images While creating Split Picture, highlight image ➔ Options or ☒/☒ ➔ Remove ➔ Yes</p>

DPOF

Changing print settings	<p>[Start Here] MENU or ● ➔ Settings ➔ Highlight Connectivity tab ➔ Memory Card ➔ DPOF ➔ See below</p>
	<p>Adding Dates to Prints Settings ➔ Add Date ➔ On</p>
	<p>Creating an Index Print Settings ➔ Index Print ➔ On</p>

<p>Resetting Reset Settings ➔ Yes</p>



Mobile Camera



Mobile camera won't activate

- Battery may be low. Charge battery or install a charged battery.

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.

