Camera

6

Before Using Camera

930P features approximately 5.1 Mega Pixel CMOS Auto-focus Camera capable of capturing still images and videos.

Image File Formats

Image Type	File Format	Save Location
Still images	JPEG (.jpg)	Data Folder (Pictures)
Videos	MPEG-4 (.3gp), ASF (.asf)	Data Folder (Videos)

Notes

● Remove dust/debris from lens cover with a soft cloth.
● Handset movement may blur images especially in dark places; hold handset firmly.
● Capturing/saving images immediately after handset has been left in a hot place may affect image quality.
● Exposing lens to direct sunlight may affect image quality.

Shutter Click
Shutter click sounds at fixed volume even in Manner Mode.
● To change shutter click: ☞P.6-8

Inside & Outside Camera

Press 〇 in Standby to activate Camera, or press and hold 〇 in Standby to activate Video Camera.
**When Camera/Video Camera is active, press ⌐ to switch Inside/Outside Camera.**

Inside Camera

Outside Camera
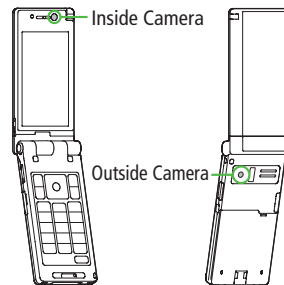
Note

● Alternatively, **Main Menu ▶ Camera ▶ Camera** or **Video Camera**
● Camera is not available when battery is low.
● Incoming calls, Alarm and low battery cancel Camera. Captured images/recorded video clips are retained. Save data when Camera restarts.
● When left in preview window for three minutes, Camera is canceled and previous window returns.
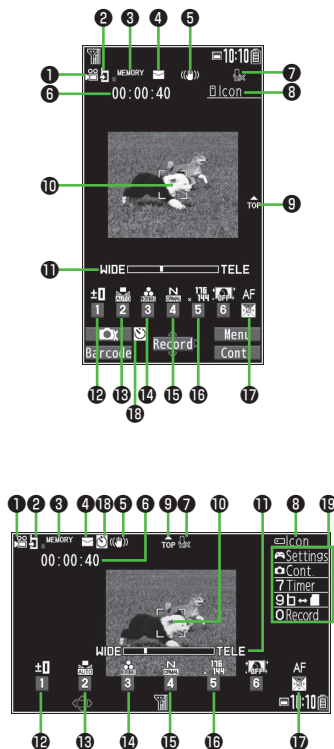
Camera Display Indicators

■ Picture Preview Window
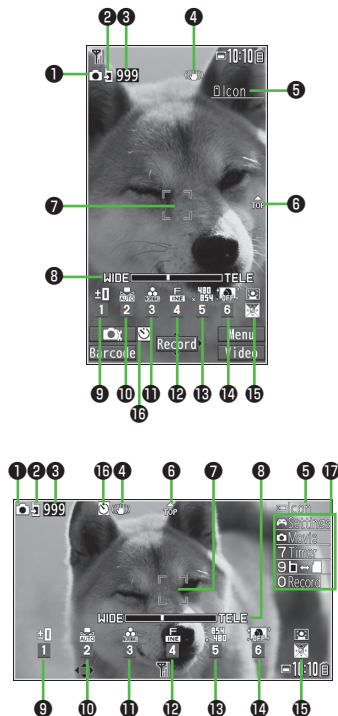
	Item	Description	Operation
❶	Toggle Camera mode	🔴 Camera mode 🅰 / 🔲 / Ⓜ Action mode (Auto/Auto bracket/Manual) (Cont. shooting set.: ☞P.6-8)	**[Video/Cont./Camera]** ● Switch Action mode: ☞P.6-8
❷	Storage setting	📱 Phone 📷 microSD Card	9
❸	No. of frames	Show number of remaining frames	—
❹	Image stabilizer	Correct camera shake	(☞P.6-8)
❺	Indicator	Turn indicators on/off	▲
❻	Top indicator	Indicate vertical direction	—
❼	Focus Guide	Adjust focus automatically	—
❽	Zoom bar	Indicate zoom level (☞P.6-7)	zoom in/ zoom out ● Long press: continuous zoom
❾	Brightness*	Adjust brightness (Level -3 to +3)	1 → Select a level
❿	White balance*	🔄 Auto ☀ Fine ☁ Cloudy 💡 Light bulb ⭕ Fluorescent light	2 → Select a mode
⓫	Photo mode*	🔲 Normal 🔲 Portrait 🏃 Sports 🍴 Food 🏔 Scenery 🌙 Night mode 🔲 Backlight 📝 Character ⛄ Snow 🌅 Sunset 🐾 Pet	3 → Select a mode
⓬	Image quality*	🔲 Normal 🔲 Fine 🔲 Super fine	4 → Select a mode
⓭	Image size*	5M 3.7M Wide 3M 2M Wide 2M 1M Stand-by VGA QVGA QCIF Sub-QCIF	5 → Select a size
⓮	High Sensitive*	🔲 ON 🔲 OFF	6 → Select on/off
⓯	Focus* (☞P.6-9)	🔲 Face Detection AF Auto 🌷 Close-up 🏔 Landscape	⭕ → Select a mode
⓰	Auto timer	(☞P.6-6)	7 → Toggle on/off
⓱	Key Guidance	Show key operation in Landscape View	—

* Alternatively, ✉ [🔲] → ◯ to highlight an item → ◯ to select a setting.

6 Camera

6-3

■ **Video Preview Window**

	Item	Description	Operation
❶	Toggle Camera mode	📹 Video camera mode	**[Video/Cont./Camera]**
❷	Storage setting	📱 Phone 🗂 microSD Card	9
❸	Memory capacity bar	Indicate memory status (appears in red when memory is full)	―
❹	File size setting	✉ Mail restrict'n(S) 📹 Long time	(⤴P.6-8)
❺	Image stabilizer	Correct camera shake	(⤴P.6-8)
❻	Recordable time	Indicate recordable time	―
❼	Movie type set	Records only video	(⤴P.6-8)
❽	Indicator	Turn indicators on/off	▲
❾	Top indicator	Indicate vertical direction	―
❿	Focus Guide	Adjust focus automatically	―
⓫	Zoom bar	Indicate zoom level (⤴P.6-7)	🔍 zoom in/🔍 zoom out ● Long press: continuous zoom
⓬	Brightness*	Adjust brightness (Level -3 to +3)	1 → Select a level
⓭	White balance*	🔄 Auto ☀ Fine ☁ Cloudy 💡 Light bulb ⭕ Fluorescent light	2 → Select a mode
⓮	Photo mode*	📷 Normal 👤 Portrait 🏃 Sports 🍴 Food 🏔 Scenery 🌙 Night mode 🔆 Backlight 📝 Character ❄ Snow 🌅 Sunset 🐕 Pet	3 → Select a mode
⓯	Image quality*	📋 Normal 📑 Fine 📑 Super fine	4 → Select a mode
⓰	Image size*	📐 VGA 📐 HVGA Wide 📐 QVGA 📐 QCIF 📐 Sub-QCIF	5 → Select a size
⓱	Focus* (⤴P.6-9)	📷 Face Detection AF Auto 🌷 Close-up 🏔 Landscape	🔍 → Select a mode
⓲	Auto timer	(⤴P.6-6)	7 → Toggle on/off
⓳	Key Guidance	Show key operation in Landscape View	―

* Alternatively, ✉[📷] → 🔍 to highlight an item → 🔍 to select a setting.

Pictures/Videos

● Confirm battery strength (☞P.1-10) and memory (☞P.6-8) before recording. When battery is low, video cannot be recorded.

Note

● Mirror images appear on Picture Preview Window when using Inside Camera. Normal images are restored when viewing captured images.

Capturing Still Images (Camera Mode)
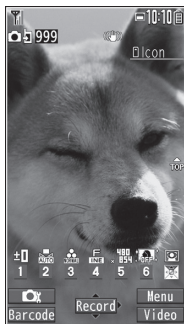
1 Press 🔲 to activate Camera

2 Frame subject

● To toggle Inside/Outside Camera: 📞

3 ● [**Record**] or 🄀 to capture the image

Shutter click sounds at fixed volume.

● When **Focus** is set to **Auto** or **Face Detection**, Outside Camera automatically focuses on subject before capturing image.

Picture Preview Window

4 ● [**Save**] or 🄀 → Select a folder

● To return to preview window without saving the image: ꏂ

5 ꐁ to exit

Return to Standby.

Continuous Shooting

Capture up to 20 still images in succession automatically with a single press.

1 In Picture Preview Window, 🔲 [**Video**] → 🔲 [**Cont.**]

🄰 appears. (Indicators vary by Action mode)

● To set Continuous Shooting: ☞P.6-8

2 Frame subject → ● [**Record**] or 🄀

Image thumbnails appear.

● When **Focus** is set to **Auto**, Outside Camera automatically focuses on subject before capturing image.

● To stop shooting halfway: ꏂ

3 To view captured images, 🔯 to highlight an image → 🔲 [**Detail**]

Full-size image appears.

● 🔯 to toggle full-size images.

4 ● [**Save**] or 🄀 → Select a folder

Only full-size image is saved.

Saving All Captured Images
After Step 2, ꏃ [**STO all**] → **Save** or **Mirror save**

Saving Multiple Images
After Step 2, 🔯 to select images to save → ꏃ [**Save**] → **Save** or **Mirror save**

Recording Videos (Video Camera Mode)

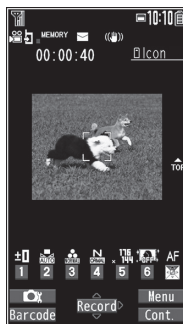**1** Press and hold 🔲 to activate Video Camera

2 Frame subject
● To toggle Inside/Outside Camera: ✆

3 🔘 [Record] or 0️⃣ to start recording

Tone sounds.

● When **Focus** is set to **Auto**, Outside Camera automatically focuses on subject before recording begins. During recording, auto focus functions regardless of Focus setting.

Video Preview Window

4 🔘 [Stop] or 0️⃣ to end recording

Tone sounds.

● Recording stops automatically at maximum recording time.
● To return to preview window without saving the image: クリア/メモ
● To review clip: 📷 [Play]

5 🔘 [Save] or 0️⃣ → Select a folder

6 ☎ to exit

Return to Standby.

Note
● Alternatively, 🔲 → 🔲 [Video] to activate Video Camera.
● Video clips (recorded when **Long time** is set for **File size setting** (☞P.6-8)) is automatically saved.

Functions Available while Shooting

From ▶ Camera mode: 🔲
Action mode: 🔲 ▶ 🔲 [Video] ▶ 🔲 [Cont.]
Video camera mode: Press and hold 🔲

■ **Auto Timer**
Y⃰ [Menu] → **Auto timer** → **ON** → Enter time (seconds) → 🔘 [Record] or 0️⃣ (→ For video, 🔘 [Stop] or 0️⃣) → 🔘 [Save] or 0️⃣ → Select a folder
Auto timer tone sounds. After set period of time, shutter is released and recording starts.
● When Auto timer is active, ✉ [Quit] or クリア/メモ to return to preview window without canceling Auto timer.
● Auto timer is not available when **Cont. shooting set.** is set to **Manual**.

■ **Zoom**
◎ (zoom in) or ◎ (zoom out) to adjust zoom → 🔘 [Record] or 0️⃣ → 🔘 [Save] or 0️⃣ → Select a folder
● Press and hold ◎ for continuous zoom.
● Zoom is available during video recording.
● Zoom is disabled when **Image size** is set as follows:
  · Outside Camera: **5M** or **3.7M Wide** (Camera mode), **1M** (Camera mode: High sensitiv. ON)
  · Inside Camera: **VGA** or **QVGA** (individual mode) or **HVGA Wide** (Video camera mode)
● Zoom may change image quality.

● Maximum zoom levels for individual image size are as follows.
Maximum zoom levels in Horizontal Open Position are indicated in ( ) if different from those in Normal Position.

Camera mode	Size	Zoom level	Max. level (approx.)
Outside Camera			
Camera (High sensitive.: OFF)	5M (1944×2592)	1 level	1.0 times
	3.7M Wide (1456×2592)	1 level	1.0 times
	3M (1536×2048)	6 levels	1.3 times
	2M Wide (1080×1920)	6 levels	1.3 times
	2M (1200×1600)	11 levels	1.6 times
	1M (960×1280)	21 levels	2.0 times
	Stand-by (480×854)	11 levels	1.5 times
	VGA (480×640)	31 levels	4.0 times
	QVGA (240×320)	31 levels	8.1 times
	QCIF (144×176)	31 levels	13.5 times
	Sub-QCIF (96×128)	31 levels	20.3 times
Camera (High sensitive.: ON)	1M (960×1280)	1 level	1.0 times
	Stand-by (480×854)	11 levels	1.5 times
	VGA (480×640)	11 levels	2.0 times
	QVGA (240×320)	31 levels	4.0 times
	QCIF (144×176)	31 levels	6.8 times
	Sub-QCIF (96×128)	31 levels	10.1 times
Continuous shooting	VGA (480×640)	11 levels	2.0 times
	QVGA (240×320)	31 levels	4.0 times
	QCIF (144×176)	31 levels	6.8 times
	Sub-QCIF (96×128)	31 levels	10.1 times

Camera mode	Size	Zoom level	Max. level (approx.)
Video camera (Image stabilizer: Auto)	VGA (640×480)	11 levels	1.6 times
	HVGA Wide (640×352)	11 levels	1.6 times
	QVGA (320×240)	21 levels	2.4 (3.2) times
	QCIF (176×144)	31 levels	4.4 (5.4) times
	Sub-QCIF (128×96)	31 levels	6.0 (8.1) times
Video camera (Image stabilizer: OFF)	VGA (640×480)	11 levels	2.0 times
	HVGA Wide (640×352)	11 levels	2.0 times
	QVGA (320×240)	21 levels	3.0 (4.0) times
	QCIF (176×144)	31 levels	5.5 (6.8) times
	Sub-QCIF (128×96)	31 levels	7.5 (10.1) times
Inside Camera			
Camera/ Continuous shooting	VGA (640×480)	1 level	1.0 times
	QVGA (240×320)	1 level	1.0 times
	QCIF (144×176)	6 levels	1.6 times
	Sub-QCIF (96×128)	21 levels	2.1 times
Video camera	VGA (640×480)	1 level	1.0 times
	HVGA Wide (640×352)	1 level	1.0 times
	QVGA (320×240)	1 level	1.0 times
	QCIF (176×144)	6 levels	1.9 (1.5) times
	Sub-QCIF (128×96)	21 levels	2.8 (2.1) times

■ Functions Available in Preview Window

● Change settings before initiating image capture. Some functions are changeable with simple key operations (☞P.6-3, P.6-4).
● Some operations are not available depending on camera mode or image size.

[Menu] → Select an item (See below)

Item	Operation/Description
Inside camera/ Outside camera	Switch Inside/Outside Camera
CHG camera-mode	> **Camera mode**, **Video camera mode**, **Action mode** or **Bar code reader**
Image size	> Select a size
File size setting	Select **Mail restrict'n(S)** for S! Mail attachments or **Long time** for long-time recording
Image quality	> Select an item ● In Video camera mode, this function is available only when **File size setting** is set to **Long time**.
Camera settings	> Select an item · **Brightness** → 🔆 · **White balance**: Adjust color tone · **Color mode set**: Select a color mode · **Photo mode**: Select a mode suitable for the place · **Focus**: ☞P.6-9 · **Img. stabilizer**: Minimize camera shake automatically · **Shoot with frame**: Add frame to image · **Shutter sound**: Select a shutter click sound · **Flicker correction**: Minimize flicker while shooting near fluorescent light

Item	Operation/Description
Storage setting	> Select an item · **Store in** → **Phone** or **microSD** · **Auto save set** → **ON** or **OFF**
High sensitiv.	> **ON** or **OFF**
Auto timer	(☞P.6-6)
Cont. shooting set.	> Select an item · **Action mode**: **Manual** captures one picture at a time. **Auto bracket** captures nine different still images automatically. · **Shot interval**: Select an interval when **Action mode** is set to **Auto**. · **Shot number**: Set number of images to be captured when **Action mode** is set to **Auto** or **Manual**. Details are as follows: VGA (480×640): 4 QVGA (240×320): 5 to 10 QCIF (144×176): 5 to 20 Sub-QCIF (96×128): 5 to 20
Movie type set	> **Normal** or **Video**
Display size	Select preview window size > **Actual size** or **Fit in display**
Attach S!Mail mode	> **YES** or **NO** ● Image size, File size setting and Image quality are set to following (respectively): **QCIF**, **Mail restrict'n(S)**, **Normal**
Icon	Show/hide display indicators > **ON** or **OFF**
Memory Status	View memory information

■ Functions Available after Shooting

● Available only when **Auto save set** (☞P.6-8) is **OFF**
● Some operations are not available depending on camera mode or image size.

`[Menu]` → Select an item (See below)

Item	Operation/Description
Play	Play back recorded video clip
Save	**>** Select a folder
Store all/animat'n	**> Save** or **Mirror save** → Select a folder → **<New>**
Mirror save	**>** Select a folder
Attach to S! Mail	Send file via S! Mail **>** Select a folder → Create a message (☞From Step 2 on P.13-4)
Set display	Set as wallpaper, Phone Book image, etc. **>** Select a folder → Select an item
Change frame*	**>** Select a frame → Select a folder
Store in	**> Phone** or **microSD**
Mirror display/Normal display	Switch Mirror/Normal display
Display size	Set image size in preview window **> Actual size** or **Fit in display**
Icon	Show/hide display indicators **> ON** or **OFF**
Cancel	Discard image to return to preview window

* Available only when shooting with frame

Focus Functions (Outside Camera)

Changing Focus Settings

<Default> Camera mode: Face Detection
Video camera/Action mode: Auto

Select a focus setting according to occasion.
Focus on Individual scenes automatically.

● Face Detection (Camera mode only): For portraits
● Auto: Auto detection
● Close-up: For nearby objects
● Landscape: For distant landscapes

1 In Picture/Video Preview Window, ⬚

2 ⬚ to select a setting → ⬚

Face Detection

● Detect up to five faces within 2.5 meters.
● Show yellow Focus Guide when a face is detected.
● Automatically focus on one face when more than one is detected (Focus guide turns yellow once focus is on the face.).
● Faces may not be detected in following conditions:
  ・ Face is tilted.
  ・ A part of face is covered by glasses, hat, mask or shadow.
  ・ Face is too small, big or dark for screen.
  ・ Face is at edge of screen.
● Shoot with Auto focus if detection fails.

Auto Focus Lock

Bring focus on subject at center of display automatically.
Lock focus on subject, and recompose your picture (Camera
mode only).

1 In Picture/Video Preview Window, adjust Focus Guide
to subject → 🔍
  ① When in focus, handset sounds.
  ② Focus Guide turns green, and focus is locked.
  ● When out of focus, Focus Guide turns red.
  ● To try again: [クリア]

2 Determine composition

3 Capture image in selected camera mode (Camera/
Action mode: ☞P.6-5 / Video camera mode: ☞P.6-6)

Viewing Saved Images

Main Menu ▶ Camera

1 Open Pictures
Pictures
Open Videos
Videos

2 Select a folder

3 Select a file

Example: Pictures

Opening Pictures Saved on microSD Card
After selecting **Pictures** in Step 1, 📷**[microSD]** → Select a folder

Opening Videos Saved on microSD Card
After selecting **Videos** in Step 1, 📷**[microSD]** → Select a folder

Tip ●
●Editing Still Images (☞P.9-12)