# Self-timer/ Remote button

INFORMATION

- Though you select a remote controller icon, you can take an image by shutter button of the camera.
- If you select the 2 Sec. remote controller icon and press the shutter button of the camera, the image will be taken after 2 seconds.
- When you select RAW and TIFF file type, you can't select the double self-timer.

- Remote control range
  When you take an image by using the remote control, refer to the illustrations shown alongside about the remote control range.

[Shutter button on the remote control]

4m

5m

4m
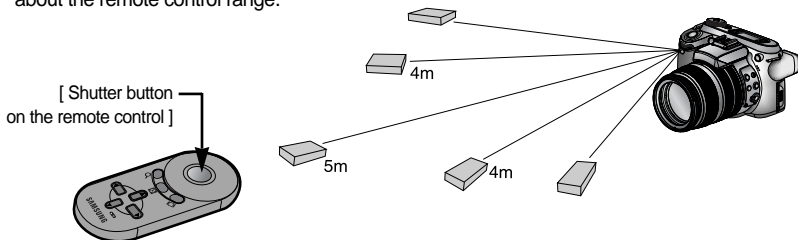
- Replacing batteries for the remote control

  Make sure the + polarity is toward the top and the - polarity is toward the bottom while installing batteries for the remote control. Assemble the cover into the remote control as the direction of remote control. Rotate the cover as shown below. Replace battery for the remote control in the local service centre. Use the CR 2025 3V battery.
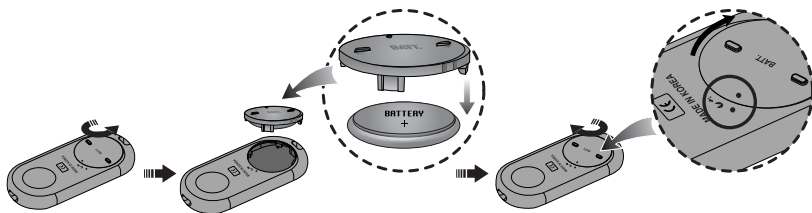
INFORMATION

- If you operate the Mode dial and Self-timer button during the self-timer operation, the self-timer function is cancelled.
- Use a tripod to prevent the camera from shaking.

ISO button
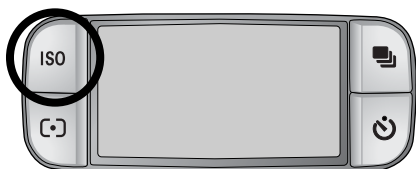
■ You can select the ISO sensitivity when taking pictures.
The speed or specific light-sensitivity of a camera is rated by ISO numbers.

■ ISO
  - AUTO (AUTO) :
  The camera's sensitivity is automatically changed by variables such as lighting value or subject brightness.
  - 50, 100, 200, 400, 800 :
  You can increase the shutter speed while the same amount of light is present, by increasing the ISO sensitivity. However, the image may be saturated in high luminance. The higher the ISO value, the higher the camera's sensitivity to light is and therefore the greater its capacity to take pictures in dark conditions. However, the noise level in the image will increase as the ISO value increases, making the image appear coarse.

■ How to set the ISO

1. Press the ISO button and an ISO icon will display on the LCD.
2. Select a desired icon by rotating the Rear jog dial (JOG2).
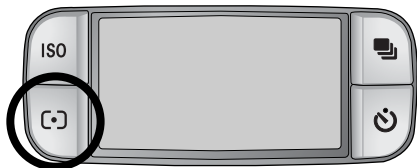3. Press the OK button to set the setting.
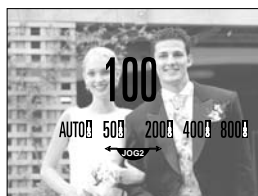
[ISO icons]

[Selecting ISO 100]

Metering button

■ If you cannot obtain suitable exposure conditions, you can change the metering method to take brighter pictures.

■ Metering methods
  - Multi metering ($\boxed{\blacksquare}$) :
    Exposure will be calculated based on the each parts of the LCD divided into several parts.
    This is suitable for general use.
  - CWA (Center Weighted Average) metering ($\boxed{\textcircled{\bullet}}$) :
    Exposure will be calculated based on an average of the available light in the image area.
    However, the calculation will be biased towards the centre of the image area.
    This is suitable for taking a small object like a flower or insects.
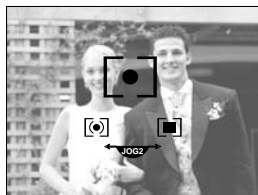 - Spot metering ($\boxed{\bullet}$) :
    Only the cross marked area in the centre of the LCD will be metered for light.
    This is suitable when the subject in the centre is exposed correctly, regardless of the back lighting.
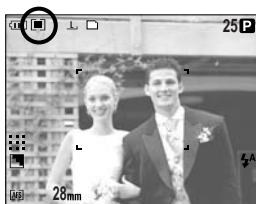※ The + mark will be displayed in case of selecting the Spot metering menu.

■ How to set the metering mode

   1. Press the metering button and a metering icon will display on the LCD.
   2. Select a desired icon by rotating the Rear jog dial (JOG2).
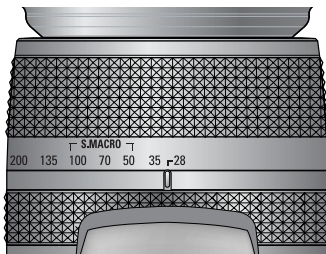   3. Press the OK button to set the setting.

[Metering icons]

[Selecting the spot metering]

Zoom operation

- You can change the zoom rate by rotating the Zoom ring.

● This camera has a 15X optical zoom and a 2X and 4X digital zoom function. Using both will offer a total zoom ratio of 30X or 60X.
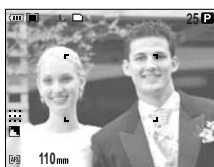

● Optical Zoom TELE
Rotate the Zoom ring to right. This will zoom into the subject i.e. the subject will appear nearer.
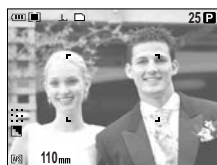

[Wide]   [Tele]

● Optical Zoom WIDE
Rotate the Zoom ring to left. This will zoom out from the subject i.e. the subject will appear further away.
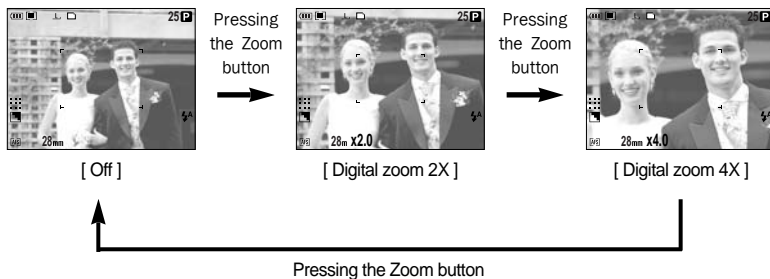

[Tele]   [Wide]

Zoom operation

● Digital zoom
Pressing the Digital zoom button will enlarge the subject as shown below.

[Off]

Pressing the Zoom button →

[Digital zoom 2X]

Pressing the Zoom button →

[Digital zoom 4X]

Pressing the Zoom button

INFORMATION

● Images taken using the digital zoom may take a little longer for the camera to process. Allow time for this to take place.
● The digital zoom cannot be used in movie clip shots.
● You may notice a decrease in image quality when using the digital zoom.
● The higher optical and digital zoom, the more camera shake can be take place. When you select a higher optical or digital zoom, we recommend using the tripod.
● Take care not to press the lens as this may cause a camera malfunction.
● Do not pull the lens by hand or do not rotate the zoom ring quickly. It may cause a camera malfunction. Please be careful when using the lens.
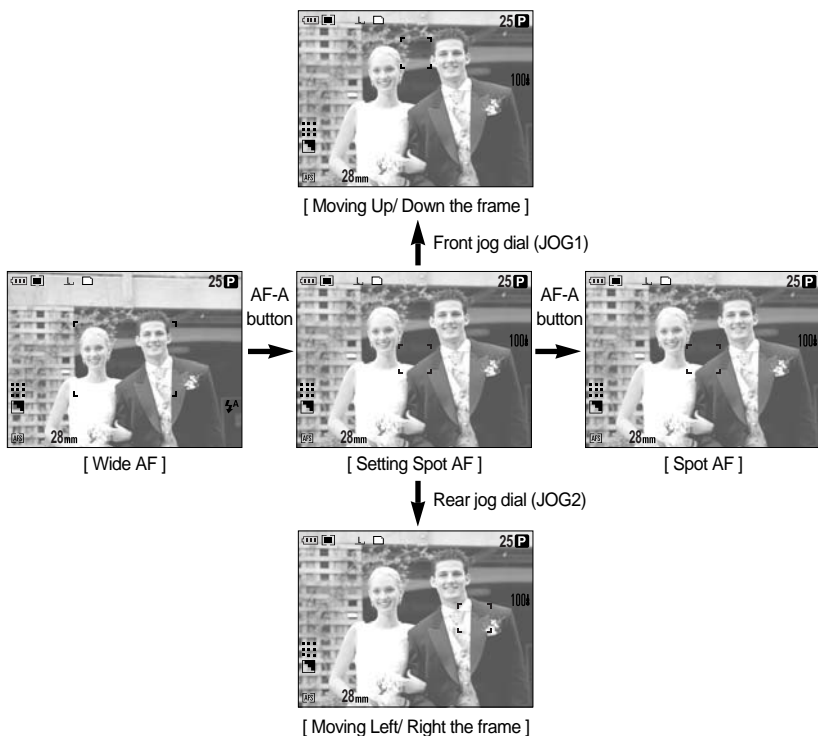
Focusing

■ You can select a proper focus mode by switching the focus switch.

● AF-A : Changing the focus frame
You can change the focus frame size and position according to the subject size and position by pressing the AF-A button. This function is available in the AF-S, AF-C mode.
- Wide AF : This is useful when taking wide range of frame.
- Modifying the Spot AF position : The frame will be yellowed and the frame can be changed its position.
- Setting the Spot AF position : The frame turns white and the frame position will be set.

[Moving Up/ Down the frame]

Front jog dial (JOG1)

AF-A button

AF-A button

[Wide AF]   [Setting Spot AF]   [Spot AF]

Rear jog dial (JOG2)

[Moving Left/ Right the frame]

Focusing

● AF-L : Focus lock

To focus on the subject positioned outside of the centre, use this button. This function is available in the AF-S mode.

- How to use the focus lock

1. Ensure the subject in the centre of the auto focus frame.
2. Press the AF-L button. The frame turns green and Focus lock icon (🔒F) will display.
   It means the camera is focused on the subject.
3. Recompose the picture and press the shutter button. After taking an image, the Focus lock function will be cancelled.
※ This function will not be available in the [Children] and [Close-up] scene mode.
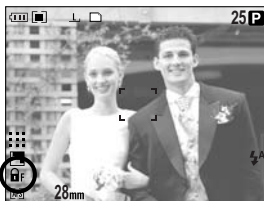
● AF-S : Single Auto Focus

This is suitable for taking a still image. Whenever the shutter button is pressed, the camera is focused on the subject automatically.
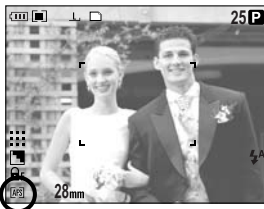
● AF-C : Continuous Auto Focus

This is suitable for taking moving subject. The camera keeps focusing the subject during the shutter button is pressed halfway down.

※ Note that using the Continuous Auto Focus uses more battery than the Single Auto Focus.
※ This function will not be available in the Auto recording mode and Scene mode except for the [Children] and [Close-up] scene mode.
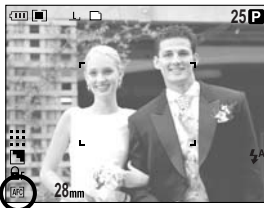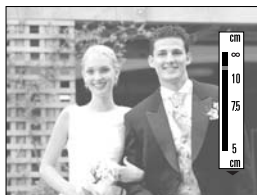
Focusing

● MF : Manual Focus

Where the automatic focusing is not available, for example, in very dark conditions, use the manual focus. Please be careful when using the manual focus as the picture can be blurred easily.

※ When you use the manual focus, the centre of the LCD is enlarged.

※ This function will not be available in the auto recording and scene modes.

● How to set the direct MF in the Program mode

You can change the focus even though the camera is focused on a subject by rotating the focus ring. This function is available in the AF-S mode.

1. Press the Menu button and select [P] menu tab.
2. Press the Right button and select [Direct MF] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
 - [Off] : You can't change the focus manually.
 - [On] : You can change the focus manually.
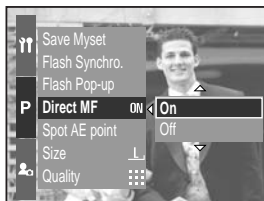
[Direct MF menu]

4. Select the [On] sub menu. Press the OK button to set the change and [DM] icon will display on the Rear LCD.
5. Pressing the shutter button half way down, change the focus by rotating the Focus ring.
 - To move the focus closer, rotate the Focus ring to right.
 - To move the focus farther, rotate the Focus ring to left.
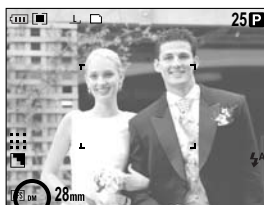
[Selecting Direct MF]

High speed shutter mode

■ You can prevent camera shaking without using the flash.

● How to set the High speed shutter mode
   1. Press the HS (High Speed) button to set the High speed shutter mode.

   2. The HS icon will display on the Rear LCD as shown alongside.

   3. Press the shutter button to capture an image.
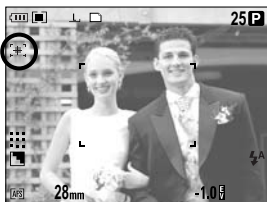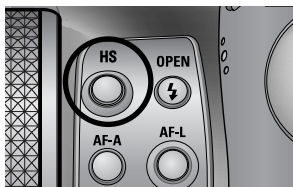
INFORMATION

● Note that the noise level in the image will increase when you use the high speed shutter as the high speed shutter use higher ISO value.
● This function will be available in the Manual and Movie clip mode.

Exposure control

■ Exposure compensation
This camera automatically adjusts the exposure according to the ambient lighting conditions.
You can also select the exposure value by using the EVC (Exposure Value Compensation) ring. This function is available in the PROGRAM, APERTURE PRIORITY, SHUTTER PRIORITY, SCENE, MySET, MOVIE CLIP mode.
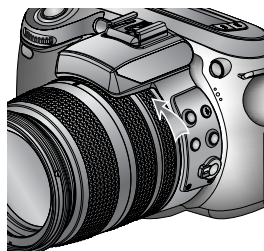
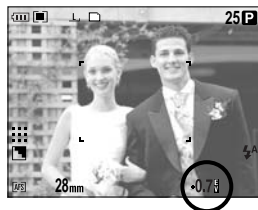● How to set the Exposure Value Compensation
  1. Exposure Compensation menu will display on the Rear LCD by rotating the EVC ring.
   - Rotating to right : 0 ~ -2EV (1/3 EV step)
   - Rotating to left   : 0 ~ +2EV (1/3 EV step)

  2. Press the shutter button half way down and the selected exposure value will be set. The changed Exposure value will display on the LCD.

* A negative exposure compensation value reduces the exposure. Note that a positive exposure compensation value increases the exposure and the LCD will appear white or you may not get good pictures.

Exposure control

■ Exposure lock

This camera automatically adjusts the exposure
according to the ambient lighting conditions. You can
change the exposure value manually by using the AE-L
(Auto Exposure Lock) button in a lighting condition where
there are exposure differences between a subject and
background.

● How to set the Exposure Value Compensation

1. Ensure the subject in the centre of the auto focus frame.
2. Move the focus frame to a subject that has desired exposure value.
3. Press the AE-L button and exposure value will be fixed. A exposure lock icon(🔒E) will display on the LCD.
4. Recompose the picture and press the shutter button. After taking an image, the Focus lock function will be cancelled.
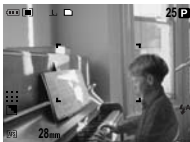
[Screen for shooting]   [Focus to the object and   [Refocus and fully press
                                press the AE-L button]   the shutter button]
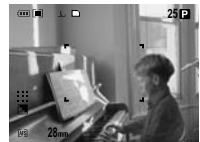
5-function button

- 5-function button activate the following.
  - Up button : While the menu is showing, press the Up button to move up the submenu
    cursor. When the menu is not displayed on the LCD monitor, the UP button
    operates as the white balance button.
  - Down button : While the menu is showing, press the Down button to move down the
    submenu cursor. When the menu is not showing, you can use the Down
    button to take macro pictures.
  - Left button : When the menu is displayed on the LCD monitor, pressing the Left button
    makes the cursor shift to the left tab.
    When the menu is not displayed on the LCD monitor, the Left button operates
    as the FLASH button.
  - Right button : When the menu is displayed on the LCD monitor, pressing the Right button
    makes the cursor shift to the right tab.
    When the menu is not displayed on the LCD monitor, you can execute a
    function that was set in the [Custom set] menu by pressing this button.
  - MENU/OK button : If the menu is displayed, use the 5-Function buttons to change the data
    values and for your changes to be accepted.
    If the menu is not displayed, press the MENU/OK button to display a
    menu for the current camera mode on the LCD. Press the button again
    to return to the previous state.

White balance

■ The white balance control allows you to adjust the colours to appear more natural looking.

● How to set the white balance

1. Press the WB (Up) button and a white balance icon will display on the LCD monitor.

2. Select a desired white balance by rotating the Rear jog dial (JOG2).

[White balance icons]

AUTO	AWB	: The camera automatically selects the appropriate white balance settings, depending on the prevailing lighting conditions.
DAYLIGHT	☼	: For taking images outside.
CLOUDY	☁	: For taking images under a cloudy and overcast sky.
Fluorescent H	⊟	: For shooting under daylight fluorescent types of three-way fluorescent lighting.
Fluorescent L	⊟	: Shooting under white fluorescent lighting.
TUNGSTEN	☀	: For shooting under tungsten (standard light bulb) lighting.
CUSTOM	▌₁ ▌₂	: Allows the user to set the white balance according to the shooting condition. (CUSTOM 1, CUSTOM 2)
Colour temperature	K	: You can set a proper colour temperature.

Different lighting conditions may cause a colour cast on your images.

White balance

● How to set the custom white balance
White balance settings may vary slightly depending on the shooting environment. You can select the most appropriate white balance setting for a given shooting environment by setting up the custom white balance.

1. Select the CUSTOM (⌐◻⌐) menu of the White Balance.
   You can select CUSTOM 1 or CUSTOM 2 white balance.

2. Place a sheet of white paper in front of the camera so that the LCD shows only white, and then press the SHUTTER button.
3. The value you set will be saved.
   - The custom white balance value will be applied, starting with the next picture you take.
   - The user configured white balance will remain effective until it is overwritten.

White paper
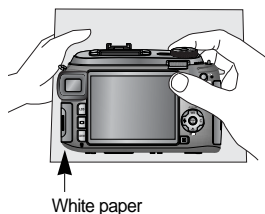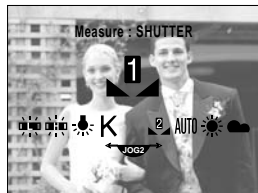
● How to set the colour temperature

Colour temperature is a simplified way to characterize the light source. Low colour temperature implies warmer light (more red) while high colour temperature implies a colder light (more blue).
1. Select the colour temperature (K) by rotating the Rear jog dial (JOG2).
2. Select a desired colour temperature (K) by rotating the Front jog dial (JOG1).
   - Approx. 3000 K   : Incandescent lamp
   - Approx. 4000 K   : Out door shooting around the
                               morning or evening
   - Approx. 5000 K   : Sunny daylight shooting
   - Approx. 6000 K   : Electronic photo flash
   - Approx. 10000 K : Blue sky
3. Press the WB button to set the setting.
   - After pressing the WB button, the colour temperature icon will display.
   - The user configured white balance will remain effective until it is overwritten.
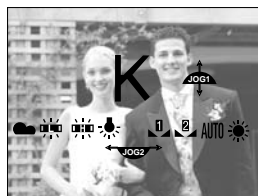
[Colour temperature icon]
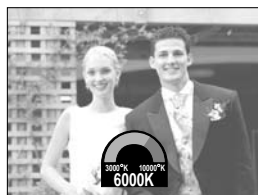
[Selecting a colour temperature]

Macro

- When the menu is not showing, you can use the MACRO/
DOWN button to take macro pictures.

ALBUM

- Types of focus modes and focus ranges

Unit : cm

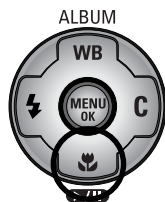| Focus type	Auto		Macro		Super macro		Auto macro	
	Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele
Focus range	50~∞	350~∞	10~70	150~370	3~70 (Focus range : 50 ~ 100m)		10~∞	150~∞

● How to set the macro

1. Press the Macro (Down) button and the macro icon will display on the LCD.
2. Select a desired macro icon by rotating the Rear jog dial (JOG2).
3. Press the Macro (Down) button to set the setting.
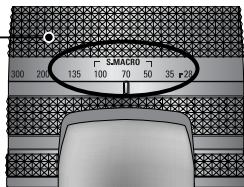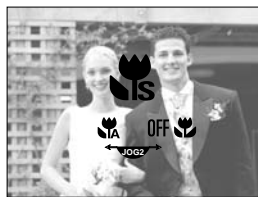

[Macro icons]

● How to set the super macro

1. Rotate the Zoom ring and place the zoom ring at the S.MACRO of the Zoom bar.
2. Press the Macro (Down) button and the macro icon will display on the LCD.

Zoom ring

3. Select the super macro icon (🌷) by rotating the Rear jog dial (JOG2).
4. Press the Macro (Down) button to set the setting.

[Selecting the super macro]

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Macro

INFORMATION

- If you rotate the Zoom ring and place the zoom ring at the S.MACRO of the Zoom bar, the macro mode will be changed to the Auto macro automatically.
- When the macro mode is selected, it is possible that camera shake will occur. If this is the case, use a tripod to eliminate this.
- When you take a picture within 10cm(MACRO focus), select the FLASH OFF mode.
- When you take a picture within 5cm, the AF may take a time to get exact focus range.

■ Available focusing method, by recording mode
(O: Selectable , X: Not selectable, ∞: Infinity focus range)

Mode	📷	P	A	S	M	My	🎥
Auto	X	O	O	O	O	O	O
Macro	X	O	O	O	O	O	O
Super macro	O	O	O	O	O	O	X
Auto macro	O	O	O	O	O	O	O

Mode	🌙	🌃	👤	⛰	🌸	📄	☕	🍰	🎆	⚙	🎞
Auto	O	O	O	∞	X	X	∞	∞	O	∞	O
Macro	O	O	O	O	O	O	O	O	O	O	O
Super macro	O	O	O	O	O	O	O	O	O	O	O
Auto macro	O	O	O	O	O	O	O	O	O	O	O

Flash

■ You can select a flash according to the shooting conditions.

● How to set the flash mode

1. Press the Flash button (Left) and flash mode icons display on the LCD.
2. Select a desired flash icon by rotating the Rear jog dial (JOG2).
3. Press the Flash button to set the setting.

[Flash mode icons]

● How to set the pop-up flash

1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select [Pop-up] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired menu by pressing the Up/ Down button.
 - [Auto]   : The flash will pop-up by pressing the shutter button half way down in accordance with the lighting condition.
  - [Manual] : The flash off mode will be selected and the flash will not pop-up automatically. To use the flash, press the Pop-up flash button.
4. Press the OK button to set the setting.

※ When you select the [Manual] menu, press the Pop-up flash button to use the flash.
※ Do not open the pop-up flash by force. It may cause breakdown of the flash. Press the Pop-up button to open the flash.

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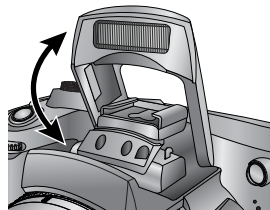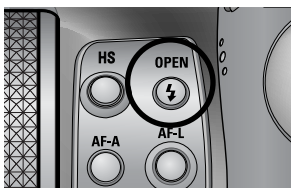
Flash

● Flash compensation : The intensity of the flash will be
                        controlled, according to the lighting
                        conditions.

   1. Press the Pop-up flash button and the flash will pop up.
   2. Press the Pop-up flash button again and a gauge will
      display as shown alongside.

   3. Rotate the Front jog dial (JOG1) to select a desired
      intensity of flash.
   4. Press the shutter button half way down to set the setting.
      The intensity of flash will display on the LCD.

● Flash synchronization : You can select a flash timing to take a desired image (In case of the
                        Program mode)

   1. Press the Menu button and select the [P] menu tab.
   2. Press the Right button and select the [Flash Synchronization]
      menu by pressing the Up/ Down button.
   3. Press the Right button and select a desired menu by
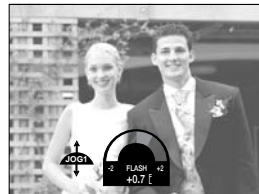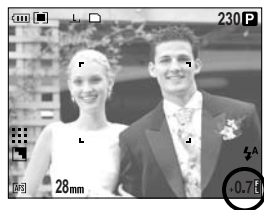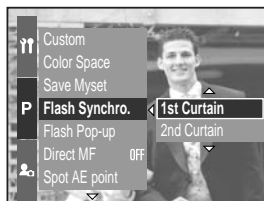   pressing the Up/ Down button.
   - [1st curtain]   : The flash fires right after the shutter fully
                    opens.
   - [2nd curtain] : The flash fires just before the shutter
                    closes.
   4. Press the OK button to set the setting.
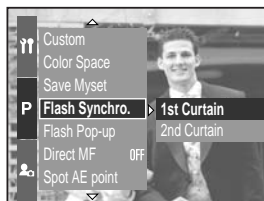
Flash

■ Flash range (Internal flash)   (Unit : cm, ISO Auto)

Camera mode	Wide	Tele
Flash range	7 ～ 700	150 ～ 400

※ We recommend using the flash off mode in the macro and super macro mode.

■ Flash mode indicator

Icon	Flash mode	Description
$\boldsymbol{\frac{4}{}}^{A}$	Auto Flash	If the subject or background is dark, the camera flash will operate automatically. The Fill in flash icon will display in a dark condition and the Flash off icon will display in a bright condition.
◉	Auto & Red eye reduction	If a subject or background is dark, the camera flash will work automatically and will reduce the red-eye effect by firing the pre-flash.
$\boldsymbol{\frac{4}{}}$	Fill in flash	The flash fires regardless of available light. The intensity of the flash will be controlled, according to the prevailing conditions. The brighter the background or subject is, the less intense the flash will be.
$\boldsymbol{\frac{4}{}}^{S}$	Slow synchro	The flash will operate in conjunction with a slow shutter speed in order to obtain the correct exposure. When you take an image in a condition with poor light, the camera shake warning indicator (⌒ᵐ⌒) will display on the LCD. We recommend using the tripod.
$\boldsymbol{\frac{4}{}}^{◉}$	Fill in & Red eye reduction	The flash fires regardless of available light. The intensity of the flash will be controlled, according to the prevailing conditions and it will reduce the red-eye effect by firing the pre-flash.
⊛	Flash off	The flash does not fire. Select this mode when capturing images in a place or situation where flash photography is prohibited. When you capture an image in a poorly lit condition, the camera shake warning indicator (⌒ᵐ⌒) will display on the LCD. We recommend using the tripod.
⌐▋	External flash	You can mount an external flash (optional) in accordance with the shooting conditions.

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Flash

■ Available flash mode, by recording mode

|	📷	P	A	S	M	My	🎬	⏱	🌙	👤	🏔	🌇	📄	🍴	🎆	🎇	❄	🎆
🗲A	O	O	X	X	X	O	X	O	O	O	O	O	O	O	O	O	O	O
👁	O	O	X	X	X	O	X	O	O	O	O	O	O	O	O	O	O	O
🗲	X	O	X	O	O	O	X	O	O	O	O	O	O	O	O	O	O	O
🗲S	X	O	O	X	X	O	X	O	O	O	O	O	O	O	O	O	O	O
🗲◉	X	O	O	X	X	O	X	O	O	O	O	O	O	O	O	O	O	O
🚫	O	O	O	O	O	O	X	O	O	O	O	O	O	O	O	O	O	O
⚡	O	O	O	O	O	O	X	O	O	O	O	O	O	O	O	O	O	O

INFORMATION

● If the pop up flash doesn't open fully, do not press the shutter button. It may damage the flash.
● When you press the shutter button after selecting the Auto, Fill in, Slow synchro flash, the flash will fire to check the shooting conditions like the subject's distance and intensity of the flash. Do not move until the second flash fires.
● Using the flash frequently will reduce the life of the battery.
● Under normal operating conditions the charging time for the flash is normally within 5 seconds. If the batteries are weak, the charging time will be longer.
● During the continuous shot, movie clip mode, the flash function will not operate.
● Take photographs within the flash range.
● The image quality is not guaranteed if the subject is too close or highly reflective.
● If you attach the supplied lens hood, it may block the flash.
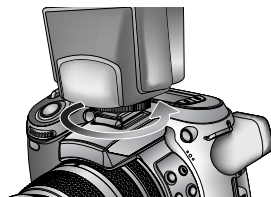
External flash (optional)

- You can mount an external flash in accordance with the shooting conditions.

- If the external flash is mounted, you can't use the internal flash.

- When the external flash is mounted, it is possible that camera shake will occur.
  We recommend using a tripod to eliminate this.

- Refer to the user manual of the external flash (optional) for more information.

● How to use the external flash

  1. Turn off the flash power and mount it to the hot shoe.
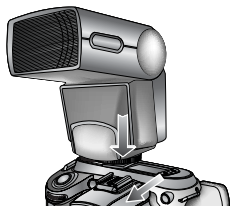
  2. Settle the flash by rotating the knob of flash as shown alongside.

  3. The external flash icon will display on the LCD as shown alongside.
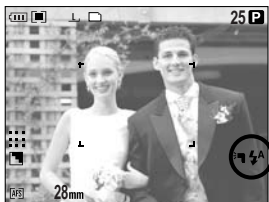
INFORMATION

  ● With attaching the external flash, you can change the intensity of the flash by pressing the Flash compensation button.

  ● The camera may not function properly when using a flash manufactured by another company.

  ● We recommend using the exclusive external flash (SEF-42) and using a flash manufactured by another company is not covered by the Samsung warranty.

Custom settings

■ You can save your preferences in the [Custom] menu and load it by pressing the Custom button.

● How to set the Custom settings in the Program mode
  1. Press the Menu button and select the [P] menu tab.
  2. Press the Right button and select the [Custom] menu by pressing the Up/ Down button.
  3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   - Size
   - Quality
   - Effect
   - Sharpness
   - Voice memo
   - LCD brightness
※ The sharpness can't be saved in the Auto mode.
 The sharpness and voice memo can't be saved in the Movie clip mode.

  4. Press the OK button to set the setting.
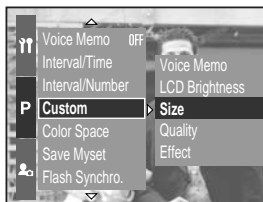
[Program mode]

● How to use the Custom button
  1. After selecting a desired sub menu in the [Custom] menu, press the Custom button.
  2. The selected menu will display on the LCD.
  3. Select a desired sub menu by rotating the Rear jog dial (JOG2) and press the OK button to set the setting.
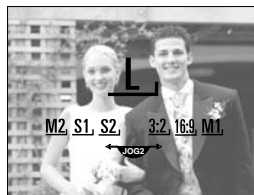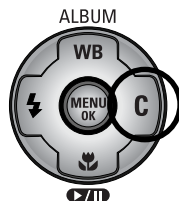
[Size sub menu]

LCD button

- You can change display of the Rear LCD, Finder LCD and Top LCD.

- Refer to page 00 for more information about each LCD.
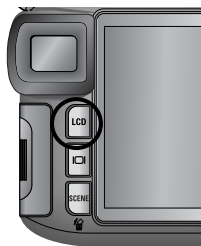
● How to change the display status

- Rear LCD is on
- Top LCD is on (Icon)
- Finder LCD is off

Pressing the LCD button

Pressing the LCD button

- Rear LCD is off
- Top LCD is on (Icon)
- Finder LCD is on

Pressing the LCD button

- Rear LCD is off
- Top LCD is on (Icon, Pre-view)
- Finder LCD is off
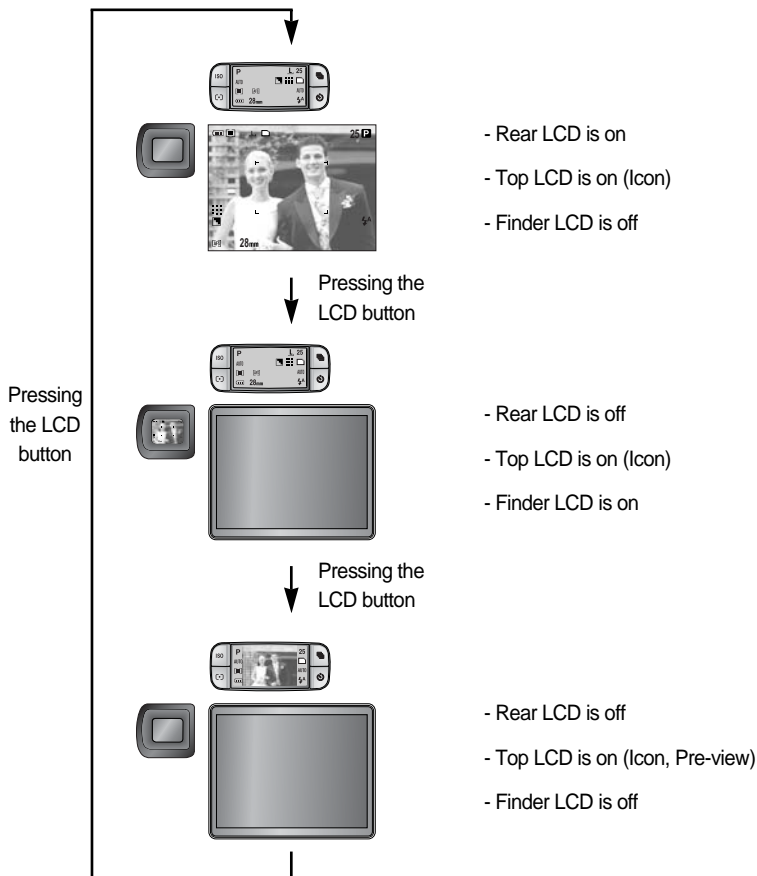
※ If you select the Play mode or PictBridge when the top LCD is on, the top LCD is turned off and the Rear LCD is turned on automatically.

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Display/ Information button (▯◻▮)

- You can check the recording status in the LCD. Pressing the Display/ Information button will change the display as shown below.

- Some information will not display in the AUTO, MOVIE CLIP and SCENE mode.

[Normal display] → Pressing the (▯◻▮) button → [Image only] → Pressing the (▯◻▮) button → [Image & Full information]
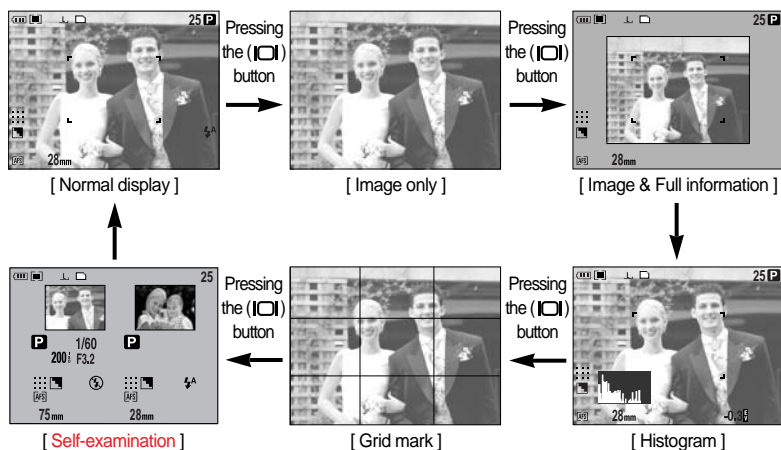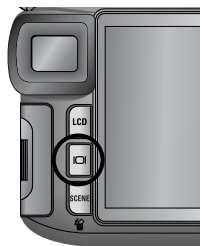
[Self-examination] ← Pressing the (▯◻▮) button ← [Grid mark] ← Pressing the (▯◻▮) button ← [Histogram]

- Histogram shows you the distribution of brightness in recorded images. If the bars in the histogram are higher towards the right, the image may be too bright. If the bars are higher on the left, the image may be too dark. If the lighting conditions are too bright to check the subject by using the LCD, checking the histogram will enable more precise exposure control for the shots.

Pixel

Distribution of brightness
Dark   Bright
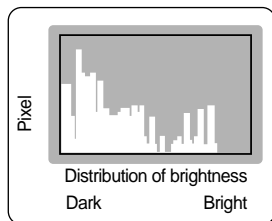
- Self-examination
  The last captured image displays on the left side of the LCD and pre-view image displays on the right side of the LCD. You can compare with the two images to take next shot.

※ Information displayed on the Finder LCD is the same as its information on the Rear LCD.

SCENE button

■ Select the [Scene] submenu to automatically configure optimal settings, depending on the selected scene.

■ This function is only available in the SCENE Mode. Refer to page 00 for more information.
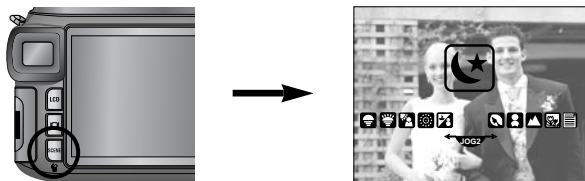
| Sub menu	Icon	Description
[Night]		Use this for shooting still images at night or in other dark conditions.
[Portrait]		To take a picture of a person.
[Children]		To take a picture of fast moving objects, for example, children.
[Landscape]		To take pictures of distant scenery.
[Close up]		Close-up shooting for small objects such as plants and insects.
[Text]		Use this mode to shoot a document.
[Sunset]		For taking pictures of sunsets.
[Dawn]		Daybreak scenes.
[Backlight]		Portrait without shadows caused by backlight.
[Firework]		Firework scenes.
[Beach & Snow]		For ocean, lake, beach and snowscape scenes.

INFORMATION

● When [Night], [Landscape], [Close up], [Text], [Sunset], [Dawn] and [Firework] scene mode are selected, it is possible that camera shake will occur. In this case, take care of the camera shaking.

● In the [Children] and [Close up] scene mode, the Continuous Automatic Focusing (CAF) function will be activated and the CAF icon is displayed at the bottom of the LCD.

Diopter

- You can see the Finder LCD clearly by rotating the diopter.

- The range is from -4 to +2 dpt.

● Diopter

　1. Select the Finder LCD by pressing the LCD button (p.00).

　2. While looking though the Finder LCD, rotate the diopter to the left or the right.

　3. When you can see the Finder LCD clearly, adjustment is complete.
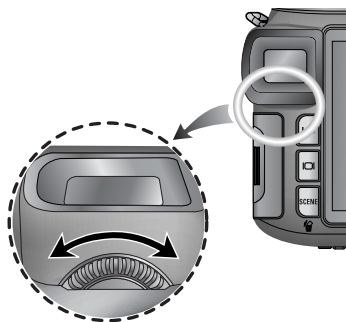
Using the LCD monitor to adjust the camera settings

■ You can use the menu on the LCD to set up recording functions.

INFORMATION

● The menu will not be displayed on the LCD monitor in the following circumstances :
  - When another button is being operated.
  - While image data is being processed. (when the Card access lamp blinks)
  - When there is no battery capacity.

■ The following functions are available, depending on the mode you have selected.
  The items indicated by [   ] are default settings.

Main menu	Main menu	Camera working mode	Page
Size	3264X2448	[img] [P] [A] [S] [M] [My] SCENE	p.
	3264X2176		
	3264X1840		
	2400X1800		
	1632X1224		
	1024X768		
	640X480		
	640X480	[movie]	p.
	320X240		
	160X120		
Quality	RAW	[P] [A] [S] [M] [My]	p.
	TIFF		
	Super Fine	[img] [P] [A] [S] [M] [My] SCENE	
	Fine		
	Normal		
Frame Rate	25fps	[movie]	p.
	15fps		

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Using the LCD monitor to adjust the camera settings

Main menu	Main menu	Camera working mode	Page
Effect	Normal	P A S M My 🎥	
	B & W		
	Sepia		
	Negative		
Contrast	+2 ~ 0 ~ -2	P A S M My 🎥	
Saturation	+2 ~ 0 ~ -2		
Sharpness	Soft	P A S M My	
	Normal		
	Vivid		
Voice memo	Off	📷 P A S M My SCENE	
	One Pic		
	All Pics		
Interval/Time	1 ~ 60min	P A S M My SCENE	
Interval/Number	2 ~ 99pics		
Custom	LCD Brightness	📷 P A S M My 🎥 SCENE	
	Size		
	Quality		
	Effect		
	Sharpness	P A S M My SCENE	
	Voice memo	📷 P A S M My SCENE	
Color Space	sRGB	P A S M My	
	Adobe RGB		
Save Myset	Myset 1	P A S M My	
	Myset 2		
	Myset 3		
Load Myset	Myset 1	My	
	Myset 2		
	Myset 3		

Using the LCD monitor to adjust the camera settings

Main menu	Main menu	Camera working mode	Page
Flash Synchro.	1st Curtain	**P** **A** **S** **M** My SCENE	
	2nd Curtain		
Flash Pop-up	Auto	**P** **A** **S** **M** My SCENE	
	Manual		
Direct MF	Off	**P** **A** **S** **M** My	
	On		
Spot AE Point	Center	**P** **A** **S** **M** My	
	Focus Area		

* Menus are subject to change without prior notice.

Size

■ You can select the image size appropriate for your application.
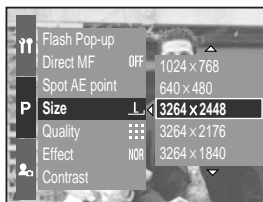
[Program mode]

Mode \ Size	With Menu button	With Jog dial	Icon
Still image	3264X2448	L	L
	3264X2176	3:2	3:2
	3264X1840	16:9	16:9
	2400X1800	M1	M1
	1632X1224	M2	M2
	1024X768	S1	S1
	640X480	S2	S2
Movie clip	640X480	640	640
	320X240	320	320
	160X120	160	160

INFORMATION

● The higher the resolution, the lower the number of available shots will be because high resolution images require more memory than lower resolution images.

Quality

■ You can select the compression ratio appropriate for
  your application of the captured images.
  The higher the compression ratio, the lower the picture quality.

[Program mode]

Mode	Still image mode					Movie clip mode	
Icon	RAW	TIFF	▦	▦	⠿	▦	▦
Sub menu	RAW	TIFF	S. Fine	Fine	Normal	25FPS	15FPS
File format	dng	tif	jpeg	jpeg	jpeg	avi	avi

INFORMATION

● A RAW file contains the original image information. To edit this file format, you have to
  use supplied software to edit it.
● The RAW and TIFF file format are for professionals and provides the best quality.
  However, large file size reduces number of available pictures to take and increases
  saving time to the memory card.
● A [Processing...] message is displayed while saving a RAW or TIFF file to the memory card.
● When you select a RAW or TIFF file type, the image size is fixed as 3264X2448(L).
● The RAW and TIFF file format can't be selected in the SCENE mode.
● This file format complies with the DCF (Design rule for Camera File system).
● JPEG (Joint Photographic Experts Group) : JPEG is the image compression standard
  developed by the Joint Photographic Experts Group. This type of compression is most
  commonly used for compressing photos and graphics because it can compress the files
  efficiently without damaging the data.

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Effect

■ By using the camera's digital processor, it is possible to add special effects to your images.

[Program mode]
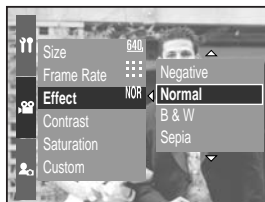
[Movie clip mode]

[Normal] : No effect is added to the image.
[B & W] : Converts the image to black and white.
[Sepia] : Captured images will be stored in a sepia tone (a gradient of yellowish brown colours).
[Negative] : Save the image in negative mode.

Contrast

- You can change the distinction between light and dark part of images.

- You can make images with marked differences in light and shadow softer, and those with less differences more vivid.

● How to set the contrast in the Program mode

   1. Press the Menu button and select the [P] menu tab.

   2. Press the Right button and select the [Contrast] menu by pressing the Up/ Down button.
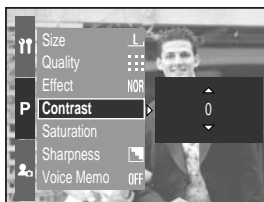
   3. Press the Right button and select a desired menu by pressing the Up/ Down button.
   - You can see the changes by pressing the Up/ button.
   - Setting range : +2 ~ 0 ~ -2
   4. Press the OK button to set the setting

Saturation

■ You can change the saturation of images.

● How to set the saturation in the Program mode
1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select the [Saturation] menu by pressing the Up/ Down button.

❙❙	Quality	⦂⦂⦂
	Effect	NOR
	Contrast	
P	**Saturation**	▸ 0
	Sharpness	◨
	Voice Memo	OFF
♣	Interval/Time	

3. Press the Right button and select a desired menu by pressing the Up/ Down button.
 - Setting range : +2 ~ 0 ~ -2
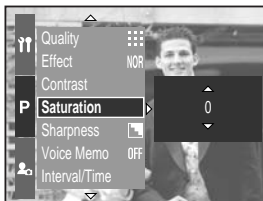4. Press the OK button to set the setting.

❙❙	Quality	⦂⦂⦂
	Effect	NOR
	Contrast	
P	**Saturation**	◂ 1
	Sharpness	◨
	Voice Memo	OFF
♣	Interval/Time	

Sharpness

■ You can adjust the sharpness of the picture you want to take.
You cannot check the sharpness effect on the LCD before
you take a picture, because this function is applied only
when the captured image is stored on the memory.
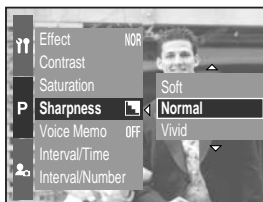
[Program mode]

Sub menu	Icon	Description
Soft		The edges of the image are softened.
		This effect is suitable for editing images on your PC.
Normal		The edges of the image are sharp.
		This is suitable for printing.
Vivid		The edges of the image are emphasized. The edges will appear
		sharp, but noise may occur in the recorded image.

Voice memo

■ You can add your voice-over to a stored image.

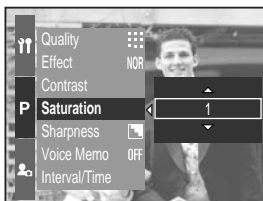● Recording a voice memo in the Program mode

1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select the [Voice Memo] menu by pressing the Up/ Down button.
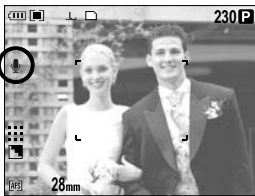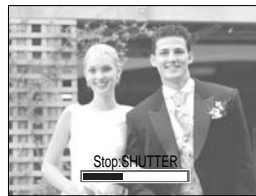3. Press the Right button and select a desired menu by pressing the Up/ Down button.
- [Off] : cancels the voice memo.
- [One Pic] : the voice memo is added to a stored image only.
- [All Pics] : the voice memo is added to all stored image.
4. Press the OK button to set the setting.

Contrast		
Saturation		All Pics
Sharpness		Off
P	**Voice Memo** OFF	One Pic
Interval/Time		
Interval/Number		
Custom		

[Program mode]

[Preparing for voice memo]

[Recording voice memo]

5. If the voice memo indicator is displayed on the LCD, the setting is complete. Press the shutter button. The picture is stored on the memory card.
6. Voice memo will be recorded for ten seconds from the moment the picture is stored. In the middle of the sound recording, pressing the shutter button will stop the voice memo.

INFORMATION

● A distance of 40cm between you and the camera (microphone) is the best distance to record sound.

Colour space

- You can select how the colours are reproduced (sRGB, Adobe RGB) on the monitor or printer.

- Adobe RGB has more colour spectra than sRGB and it is suitable for printing and computer graphics.

● How to set the Colour space in the Program mode
1. Press the Menu button. And select the [P] menu tab.
2. Press the Right button and select the [Color space] menu by pressing the Up/ Down button.
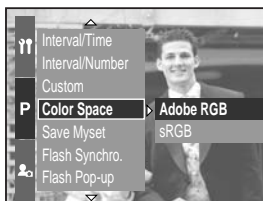
3. Press the Right button and select a desired menu by pressing the Up/ Down button.
- sRGB/Adobe RGB
4. Press the OK button to set the setting.
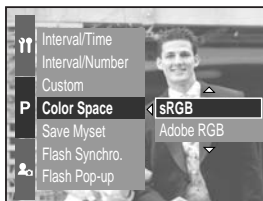
Save/ Load a specific camera configuration (MySET)

■ Use the MySET mode to save frequently used camera settings (Save Myset) and use it later (Load Myset).

● Saving the camera configuration : Available in the PROGRAM, A, S, M shooting mode and MySET mode.

1. Use the camera buttons and menu to set desired camera configuration.
2. Press the menu button in any mode except AUTO, MOVIE CLIP and SCENE mode. Select the [P] menu tab.
3. Press the Right button and select the [Save Myset] menu by pressing the Up/ Down button.
4. Press the Right button and select desired MySET slot number to save by pressing the Up/ Down button.
5. Press the OK button and a confirmation window will

	Interval/Number	
	Custom	
	Color Space	Myset 3
P	**Save Myset** ◁	**Myset 1**
	Flash Synchro.	Myset 2
	Flash Pop-up	
	Direct MF OFF	Set:OK

[Program mode]

display. Select [Yes] menu and press the OK button to save the current configuration in the selected MySET slot and close the menu.

● Loading the saved camera configuration: available in the MySET shooting mode.

1. Turn the Mode dial to select the MySET shooting mode and press the Menu button.
2. Press the Menu button and select the [My^1] menu.
3. Press the Right button and select the [Load Myset] menu by pressing the Up/ Down button.
4. Press the Right button and select a MySET slot number to load by pressing the Up/ Down button.
5. Press the OK button and a confirmation window will display. Select the [Yes] menu and press the OK button to set the setting.

	Custom	
	Color Space	
	Save Myset	Myset 3
My^1	**Load Myset** ◁	**Myset 1**
	Flash Synchro.	Myset 2
	Flash Pop-up	
	Direct MF OFF	Set:OK

[MySET mode]

* The current MySET slot number is displayed in the top left of the LCD.

※ Saving is available for the following camera functions.
Functions using the camera buttons - Macro, flash, white balance, ISO, Exposure value, Aperture value and Shutter speed.
Functions using the menu screen - Size, quality, effect and sharpness.

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Spot AE point

■ You can select a spot AE point where the brightness is calculated.

● How to set the spot AE point in the Program mode

1. Select the spot metering mode (p.00).
2. Press the Menu button and select the [P] menu tab.
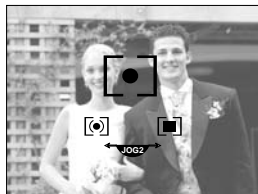
3. Press the Right button and select the [Spot AE point] menu by pressing the Up/ Down button.
4. Press the Right button and select a desired menu by pressing the Up/ Down button.
- [Center] : The brightness is calculated based on the + marked area placed on the centre of the Rear LCD. Select this menu when the subject is in the backlight shooting condition or in the shadow.
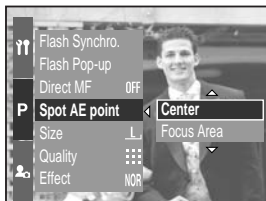
- [Focus Area] : The brightness is calculated based on where the auto focus frame is placed. If there is gap of brightness between the subject and centre part of the LCD, select this menu.
5. Press the OK button to set the setting.

Starting play mode

- Turn the camera on and select Play mode by pressing the play mode button (▶). The camera can now play back the images stored in the memory.

- If you have turned on the camera by pressing the POWER button, you can press the PLAY MODE button once to switch to Play mode and press it again to switch to Recording mode.

- You can turn the power on with the play mode button. The camera is turned on in play mode. Press the play mode button again to switch to Recording mode.

- You can set up the PLAY mode function by using the camera buttons and LCD.

- If you press the play mode button with turning on the Top LCD, the last image stored on the memory is displayed on the Rear LCD.

● Playing back a still image

1. Select the PLAY mode by pressing the play mode button (▶).

2. The last image stored on the memory is displayed on the LCD.

3. Select an image that you want to view by pressing the LEFT/ RIGHT button.
  ※ Press and hold the LEFT or RIGHT button to play back the images quickly.

INFORMATION

- Manner mode : Pressing the play mode button for more than 2 seconds changes the buzzer and start-up sound setting to OFF, even though you may have set these to ON.
- Even if the camera's power is off, you can start the play mode by pressing the play mode button.

Starting play mode

■ Playing back a movie clip

Steps from 1-2 are the same as those to play back a still image.
3. Select the recorded movie clip that you want to play back by using the Left/ Right button.
4. Press the Play & Pause button (▶/❚❚) to play back a movie clip file.
 - To play back or pause a movie clip. Press the Play & Pause button.
 - To rewind the movie clip while it is playing, press the Left button. To fast forward the movie clip, press the Right button.
 - Whenever you press the Left/ Right button while the movie clip is playing the rewinding/ fast forwarding speed will be 2, 4, 8 times faster.
   Pressing the Play & Pause button will reduce the speed.
 - To stop playback of the movie clip, press the Play & Pause button, and then press the Left or Right button.
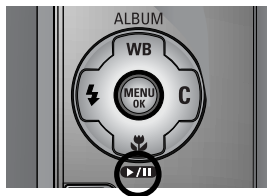
■ Movie clip capture function : capture still images from the movie clip.

● How to capture the movie clip

Steps 1-2 are the same as those for playing back a still image.
3. Select the recorded movie clip that you want to play back by using the Left/ Right button.
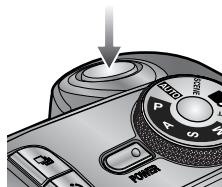4. Press the Play & Pause button to play back the movie clip.

5. Press the Play & Pause button while playing the movie clip. Then press the Shutter button.
6. The paused movie clip is saved in a new file name.
* The captured movie clip file has same size as the original movie clip (640X480, 320X240, 160X120).

[Pause]

[Press the shutter button]