

Chapter 3

SHOOTING

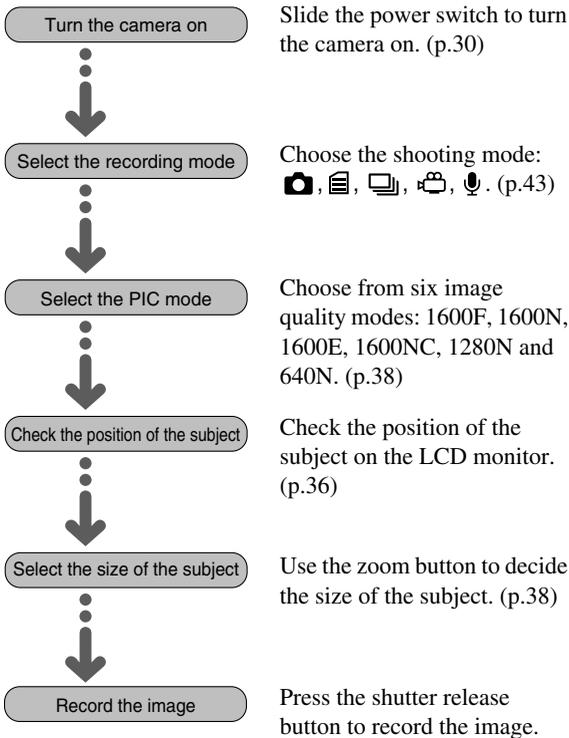
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Basic Shooting

This section explains the general flow of shooting operation and provides basic shooting instructions.

Operation Flow

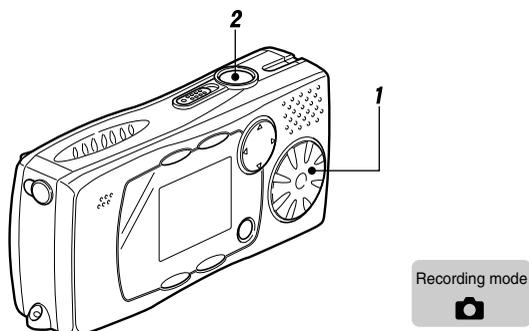
Basic shooting follows the steps below.



Still Picture Mode

Use the still picture mode for normal shooting.

■ Operation Map



1 Set the mode dial to [].

- See “Changing the Size of the Subject (Zoom)” (p.38)
See “Adjusting the Focus” (p.36)

2 Press the shutter release button.



The image will be displayed and recorded.

Important

- Do not slide the card cover switch to remove the SD memory card, or disconnect the AC adapter during recording.
- The autofocus LED or the flash LED blinks during recording. Wait until recording has finished before turning the mode dial to another setting or turning the camera off.

Note

- The auto power off function will be triggered if the camera is left turned on with no buttons operated for the preset time. When you

Note

- If the distance to the subject is less than about 40cm in Tele mode or 14cm in Wide mode, use macro mode. See “Macro Mode” (p.55).
- You can set the image display time as desired. See “Changing the LCD Confirmation Time” (p.97).
- You can record images with voice memo. See “Images with Voice Memo” (p.57).

require more time to compose a shot, disable the auto power off function. See “*Changing the Auto Power Off Setting*” (p.98).

- If you intend to use the camera for a long period, have a spare battery or AC adapter ready.



Focus Lock Shooting

Usually the focus is set on the subject that appears in the autofocus field on the LCD monitor. If the subject is located outside the autofocus field, it may appear blurred in the resulting picture. At such times, use the focus lock.

- 1 Bring the subject on which you wish to focus into the autofocus field.**



- 2 Press the shutter release button lightly. When the green autofocus LED lights, hold the shutter release button in that position.**

The focus, exposure and white balance are locked at this point.

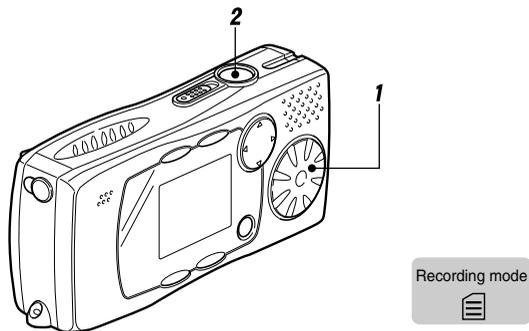
- 3 Decide the composition of the picture by moving the camera with the shutter release button held, and then press the shutter release button down fully.**



Text Mode

Follow the procedure below to record text. The appropriate processing to record text is carried out and the text is recorded in two values only, black and white.

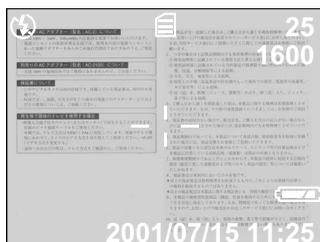
■ Operation Map



1 Set the mode dial to [].

- ▣ See “Changing the Size of the Subject (Zoom)” (p.38).
See “Adjusting the Focus” (p.36).

2 Press the shutter release button.



The image will be displayed and recorded.



- It takes some time to record the image.

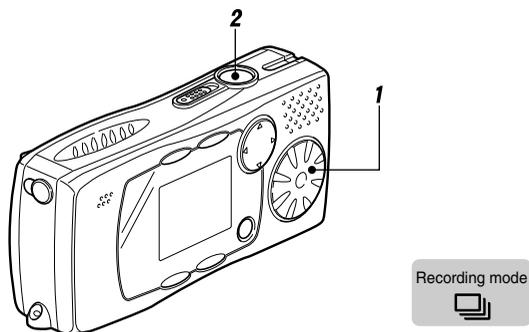


- You can change the brightness when shooting. See “Setting the Brightness Control” (p.65).
- You can record text images with voice memo. See “Images with Voice Memo” (p.57).

Continuous Shooting Mode

Pictures are taken continuously while the shutter release button is pressed. This mode is useful for taking those not-to-be-missed shots.

■ Operation Map



1 Set the mode dial to [].

- ▣ See “Changing the Size of the Subject (Zoom)” (p.38).
See “Adjusting the Focus” (p.36).

2 Press the shutter release button.



Pictures are taken continuously while the shutter release button is pressed. Picture-taking stops when the shutter release button is released.

Note

- The flash will not fire in Continuous Shooting mode.
- Non-compressed mode cannot be selected in Continuous Shooting mode.
- The focus, exposure and white balance are locked in the status at the time the shutter release button is pressed.
- When the file number reaches 9999, no more images can be recorded. Copy the recorded files onto another media before formatting the card, or insert a new SD memory card.

● Maximum number of shots in Continuous Shooting mode

The maximum number of shots that you can take in Continuous Shooting mode is as shown below according to the PIC mode.

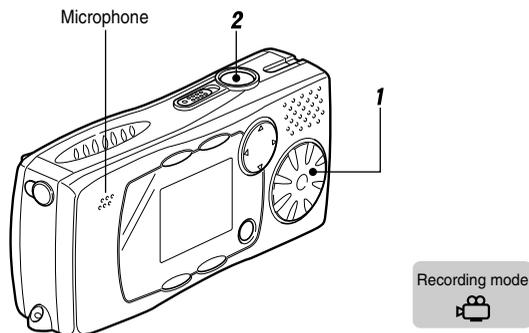
Size (No. of pixels)	Image quality (Compression rate)		
	F (Fine)	N (Normal)	E (Economy)
1600 × 1200	Approx. 7	Approx. 14	Approx. 28
1280 × 960	—	Approx. 14	—
680 × 480	—	Approx. 56	—

- The above shows the maximum number of images that can be taken continuously at one time. The number varies depending on the available space in the storage media.

Motion Picture Mode

Follow the procedure below to take moving images. The possible recording time is displayed according to the remaining space in the recording destination. Sound is incorporated in the recording.

■ Operation Map



1 Set the mode dial to [].

The recordable time will be displayed on the LCD monitor.



- The microphone is located on the top left of the operating parts.

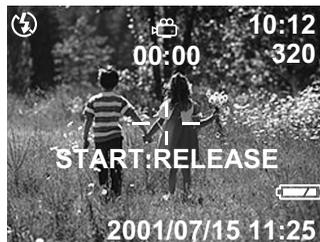


- The size is 320 × 240 pixels.
- In the motion picture mode, the black frame is displayed on the LCD monitor.
- The zoom will not function during recording.
- The flash will not fire in Motion Picture mode.
- The focus, exposure and white balance are locked in the status at the time the shutter release button was pressed lightly.

Important

- The microphone is located on the top left of the operating parts. Aim the camera to obtain the optimum recording conditions.

2 Press the shutter release button.

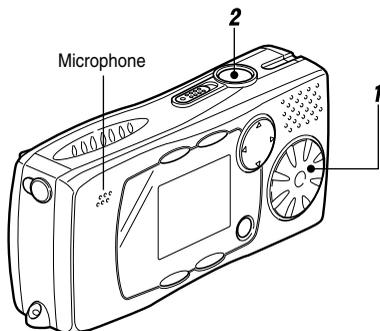


Shooting will start.
Press the shutter release button again to stop recording.

Voice Memo Mode

Follow the procedure below to record sound. The possible recording time is displayed according to the remaining space in the recording destination.

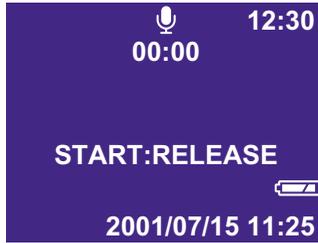
■ Operation Map



1 Set the mode dial to [].

The possible recording time will be displayed on the LCD monitor.

2 Press the shutter release button.



Recording will start. The  symbol blinks during recording and the recording time is displayed. Press the shutter release button again to stop recording.

Note

- If the recording/recordable time exceeds 99min. 59sec., the display on the LCD monitor changes to hours and minutes. Example: 100 minutes is displayed as [1:40].

Shooting Functions

This section explains the various shooting functions. The functions that can be used vary depending on the recording mode. Refer to the table below.

Function	Still picture	Text	Continuous shooting	Motion picture	Voice memo
Flash mode	○	○	×	×	×
Exposure compensation	○	○	○	○	×
White balance	○	×	○	○	×
Macro mode	○	○	○	○	×
Image with voice memo	○	×	×	×	×
Focus	○	○	○	○	×
Date imprint	○	○	○	×	×
ISO setting	○	○	○	×	×
Red-eye reduction	○	×	×	×	×
Time exposure	○	×	×	×	×
Brightness control	×	○	×	×	×
Digital zoom	○	×	×	×	×

Flash Mode

This camera offers four flash modes. Choose the mode best suited to the shooting conditions.

Display	Mode	Description
	Flash Off	The flash will not fire under any circumstances.
No display	Auto	The flash fires automatically in low light and backlit conditions.
 Lit	Forced Flash	The flash always fires regardless of the brightness.
 Blinking	Slow Synchro	The flash fires and illuminates the subject while the slow shutter speed exposes the background. It prevents only the background appearing dark when the flash fires.

- The default setting is  (Flash Off).

Effective Range of the Flash

When you record an image using the flash, the effective range of the flash is about 0.6-2.0m in Tele mode and 0.6-2.5m in Wide mode. If the light from the flash does not reach the subject, the subject will appear dark in the image.

1 Set the mode dial to [] or [].

2 Press the  button to select the flash mode (, Auto, (No display),  lit,  blinking).

The flash mode will change each time the button is pressed.

3 Press the shutter release button.



When the flash fires, the flash LED (red) will light when the shutter release button is pressed lightly. The flash LED blinks while the flash is being charged and the display disappears from the LCD monitor. Pictures cannot be taken at this time.

Important

- If you use the flash when taking a subject at close range (about 0.6m or less), the light from the flash may appear red. This also causes overexposure so the subject may appear white in the picture. At such times, select Flash Off mode.
- The shutter speed will automatically become slower in low light conditions. Hold the camera steady to avoid camera shake. Be particularly careful when using Tele mode ().

Note

- The flash will not fire in the following cases.
 - When the recording mode is set to Continuous Shooting, Motion Picture or Voice Memo
 - When the white balance is set to daylight, overcast, tungsten or fluorescent lighting

Note

- Enable the keep settings mode to save the flash mode setting. See “Keep Settings” (p.96).
- Shooting in red-eye reduction mode will reduce the phenomenon of red eyes in the resulting picture. See “Red-eye Reduction Mode” (p.62).

- If the LCD monitor appears dark when recording images using the flash, set the zoom to Wide. The focus may be hard to obtain in Tele mode.

Exposure Compensation

Normally, the camera will automatically adjust the exposure compensation for backlighting when the subject is in the middle of the shooting scope. If there is a significant difference in brightness between the background and the subject, however, the subject tends to be under- or over-exposed. Exposure compensation is useful in this situation. You can also use exposure compensation to produce intentionally under- or over-exposed pictures.

Exposure Compensation Range

±2.0EV (set in steps of 0.5EV)

Shooting against the Light

A very bright background will make the subject appear under-exposed. Set the exposure compensation level to a positive (+) value to adjust the exposure.

Shooting a White Subject

If you shoot a subject that is mainly white, the shot will be under-exposed overall, with people appearing dark and white objects appearing grey. Set the exposure compensation level to a positive (+) value to adjust the exposure.

Shooting a Black Subject

If you shoot a subject that is mainly black, the shot will be over-exposed overall, with people appearing white and black objects appearing grey. Set the exposure compensation level to a negative (-) value to adjust the exposure. Follow the same procedure when shooting a person under a spotlight.



- If the subject is not centered in the shooting range when taking a picture against the light, the camera will not assume that the subject is in a backlit state. Exposure compensation is required in this situation.

1 Set the mode dial to [ ,  ,  or ] and press the MENU button.

- 2 Check that  has been selected and press the ENTER button.

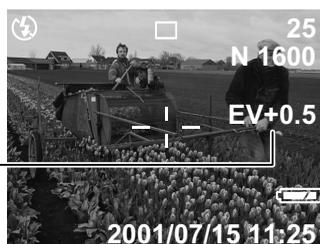


- 3 Press the  or  button to select the compensation level and press the ENTER button.



- 4 Press the shutter release button.

Exposure Compensation
value display



Note

- If  has not been selected, press the  or  button to select the setting.

Note

- Enable the keep settings mode to save the exposure compensation setting. See “Keep Settings” (p.96).

White Balance

The white balance mode adjusts the white balance so that you can capture your subject in its natural colours regardless of the light source. The auto mode will suffice in most situations. The auto mode automatically adjusts the white balance based on the white areas, ensuring that white is reproduced as white regardless of the light source. Consequently, a subject that lacks white areas or that is dominated by dark tones may not achieve an appropriate white balance. Change the white balance mode to shoot such subjects.

Display	Mode name	Description
No display	Auto	The camera automatically adjusts the white balance.
	Daylight	Use this mode outdoors when the white balance is difficult to achieve.
	Overcast	Use this mode in cloudy weather or in the shade when the white balance is difficult to achieve.
	Tungsten light	Use this mode to shoot subjects under tungsten light when the white balance is difficult to achieve.
	Fluorescent light	Use this mode to shoot subjects under fluorescent light when the white balance is difficult to achieve.

- The default setting is auto mode.

Subjects difficult to correct in auto mode

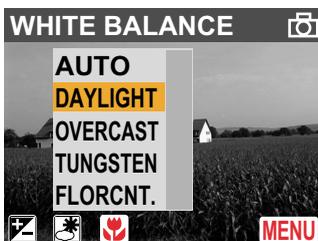
- Monochrome subjects
- Subjects lit by multiple light sources

1 Set the mode dial to [,  or ] and press the MENU button.

2 Press the ► button to select  and press the ENTER button.



- 3** Press the ▲ or ▼ button to select the white balance (auto, daylight, overcast, tungsten or fluorescent) and press the ENTER button.



- 4** Press the shutter release button.



Note

- In auto mode, subjects lacking white areas may not achieve an appropriate white balance. When shooting such subjects, add a white object to the composition.
- The flash will not fire in daylight, overcast, tungsten and fluorescent light modes.

Macro Mode

Macro mode allows you to take close-up pictures of a subject. Use macro mode when the distance to the subject is less than about 40cm in Tele mode and 14cm in Wide mode.

- 1** Set the mode dial to [, ,  or ] and press the MENU button.

Note

- Enable the keep settings mode to save the white balance setting. See “Keep Settings” (p.96).

Important

- Even with the same subject, the colours may vary due to the weather conditions and light source (tungsten or fluorescent lighting).

Note

- By using macro mode, you can record images at a distance of up to about 4cm from your subject.

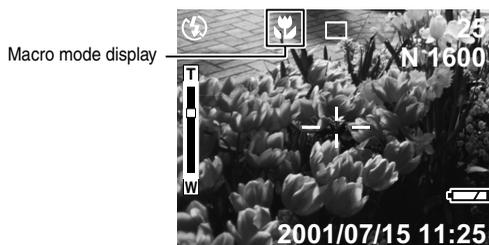
- 2 Press the **▶** button to select **☑** and press the **ENTER** button.



- 3 Press the **▲** or **▼** button to select **[ON]** and press the **ENTER** button.



- 4 Press the shutter release button.



Important

- The focusing range is so small in macro mode that the focus can be lost if the camera is moved. Make sure that the camera is firmly positioned to keep it steady when shooting.

Note

- To cancel macro mode, select **[OFF]**.

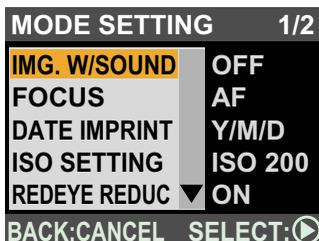
Images with Voice Memo

You can record 10 seconds of voice memo with still picture and text images. This mode enables you to add a comment to go with the image.

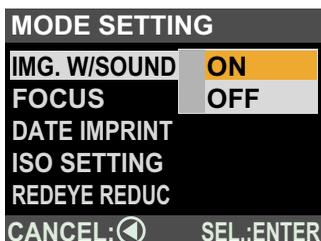
- 1 Set the mode dial to [] and press the MENU button.
- 2 Press the  button to select **MENU** and press the ENTER button.



- 3 Press the  or  button to select [IMG. W/SOUND] and press the  button.



- 4 Press the  or  button to select [ON] and press the ENTER button.



Important

- The microphone is located on the top left of the operating parts. Aim the camera to obtain the optimum recording conditions.

Note

- To cancel voice memo mode, select [OFF].

Note

- The focus, exposure and white balance are locked in the status when the shutter release button was pressed lightly.
- Voice memo recording starts after the image has been recorded. At this time, check recording by blinking of the  symbol.
- Press the shutter release button again during recording to stop recording.

5 Press the CANCEL button.

6 Press the shutter release button.



After the image is displayed, you can record 10 seconds of voice memo. The  symbol blinks during voice memo recording.

Manual Focus

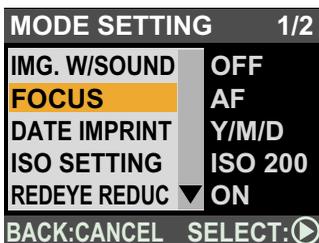
You can adjust the focus manually when the subject is not brought into focus by the autofocus mode.

1 Set the mode dial to [, ,  or ] and press the MENU button.

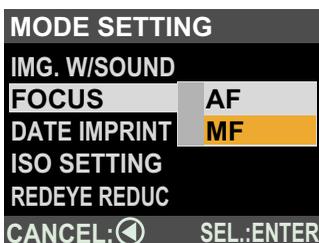
2 Press the  button to select MENU and press the ENTER button.



- 3 Press the ▲ or ▼ button to select [FOCUS] and press the ► button.

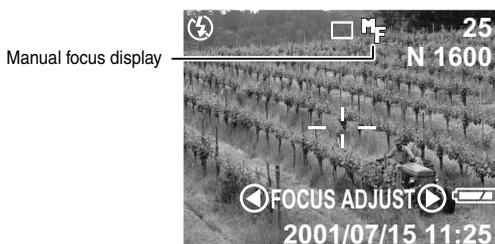


- 4 Press the ▲ or ▼ button to select [MF] and press the ENTER button.



- 5 Press the CANCEL button.

- 6 Press the ◀ or ▶ button to bring the subject into focus and press the shutter release button.



The focus adjustment indicator (◀ FOCUS ADJUST ▶) will disappear about two seconds after removing your finger from the ◀ • ▶ buttons.

Note

- To cancel manual focus mode, select [AF]. (The mode will return to autofocus mode.)

Note

- Enable the keep settings mode to save the focus setting. See “Keep Settings” (p.96).

Date Imprint Mode

Use this mode to record images imprinted with the date.

Note

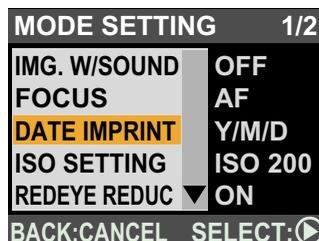
- Set the correct date and time in Setup mode. See “Setting the Date and Time” (p.34).

1 Set the mode dial to [,  or ] and press the MENU button.

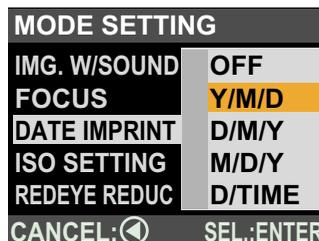
2 Press the  button to select **MENU** and press the ENTER button.



3 Press the  or  button to select **[DATE IMPRINT]** and press the  button.



4 Press the  or  button to select the display format and press the ENTER button.



The display format will be as shown below in the case of 10:00am on 15 July 2001.

Note

- To cancel date imprinting mode, select [OFF].

Y/M/D : 2001/07/15
D/M/Y : 15/07/2001
M/D/Y : 07/15/2001
D/TIME : 2001/07/15 10:00

5 Press the CANCEL button.

6 Press the shutter release button.

When date imprint mode is set, the colour of the date on the LCD monitor changes to orange.

ISO Setting

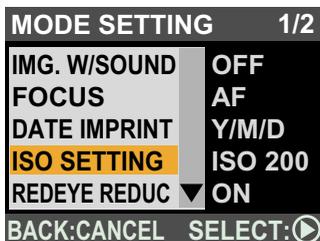
You can change the ISO sensitivity when recording images.

1 Set the mode dial to [, or] and press the MENU button.

2 Press the ► button to select **MENU** and press the ENTER button.



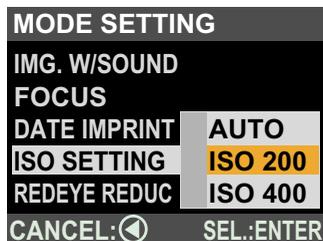
3 Press the ▲ or ▼ button to select [ISO SETTING] and press the ► button.



Note

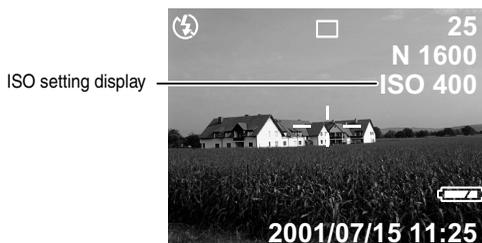
- Enable the keep settings mode to save the date imprinting setting. See “Keep Settings” (p.96).

- 4 Press the ▲ or ▼ button to select the ISO sensitivity (AUTO, ISO 200 or ISO 400) and press the ENTER button.



- 5 Press the CANCEL button.

- 6 Press the shutter release button.



Note

- Enable the keep settings mode to save the ISO sensitivity setting. See “Keep Settings” (p.96).

Red-eye Reduction Mode

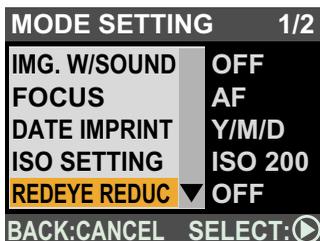
If you use the flash to shoot a subject in a dark place, the eyes of the subject may appear red in the resulting picture. The red-eye reduction mode helps to reduce this phenomenon. The flash fires several times before the shutter is released to lessen the red-eye phenomenon.

- 1 Set the mode dial to [📷] and press the MENU button.

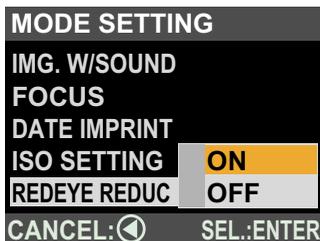
- 2 Press the ► button to select **MENU** and press the ENTER button.



- 3 Press the ▲ or ▼ button to select **[REDEYE REDUC]** and press the ► button.



- 4 Press the ▲ or ▼ button to select **[ON]** and press the ENTER button.



- 5 Press the CANCEL button.

Note

- Enable the keep settings mode to save the red-eye reduction setting. See “Keep Settings” (p.96).
- The red-eye reduction function cannot be used in flash off mode.

Important

- Make sure that the camera is kept steady, when shooting in time exposure mode.

6 Press the shutter release button.

Red-eye reduction display



When you press the shutter release button, the pre-flash will fire several times in succession before the main flash fires and the shutter is released.

Important

- The shutter takes about 1 second to release after the shutter button is pressed. Hold the camera steady during this time.

Time Exposure Mode

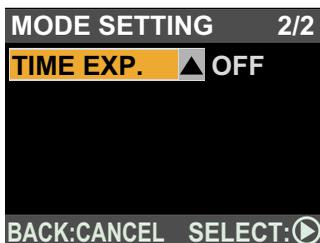
You can change the exposure time (1sec, 2sec, 4sec) in time exposure mode. The shutter stays open for the set time, enabling you to take a trail, such as fireworks or moving cars in the dark.

1 Set the mode dial to [] and press the MENU button.

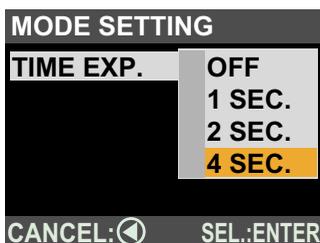
2 Press the  button to select **MENU** and press the ENTER button.



- 3** Press the ▲ or ▼ button to select [TIME EXP.] and press the ► button.



- 4** Press the ▲ or ▼ button to select the exposure time (OFF, 1 SEC., 2 SEC. or 4 SEC.) and press the ENTER button.



- 5** Press the CANCEL button.

- 6** Press the shutter release button.

Time exposure mode display



Note

- Enable the keep settings mode to save the time exposure mode setting. See “Keep Settings” (p.96).

Setting the Brightness Control

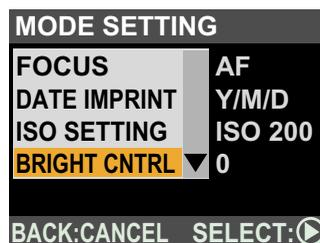
When using text mode, you can set the brightness in 5 stages to make the text easier to read.

- 1** Set the mode dial to [] and press the MENU button.

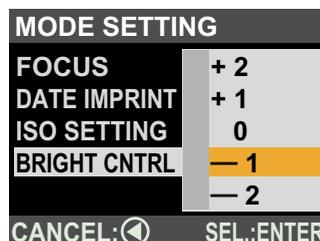
- 2 Press the ► button to select **MENU** and press the ENTER button.



- 3 Press the ▲ or ▼ button to select **[BRIGHT CNTRL]** and press the ► button.



- 4 Press the ▲ or ▼ button to select the brightness level and press the ENTER button.



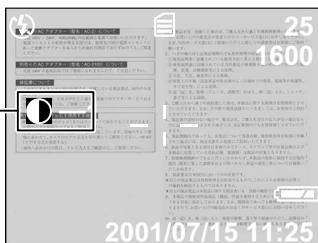
- 5 Press the CANCEL button.

Note

- + : The text becomes darker.
- - : The text becomes lighter.

6 Press the shutter release button.

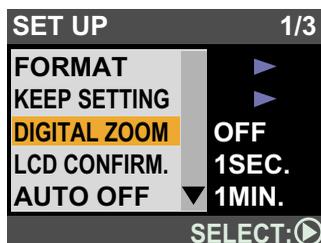
Brightness control setting display



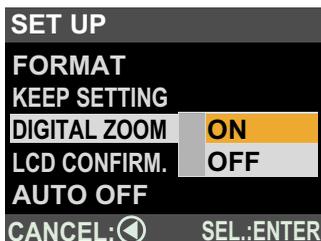
Digital Zoom

If you keep the **[A]** button pressed when the zoom is at the maximum Tele position, the digital zoom will be triggered and the image will be magnified up to 2 times.

- 1 Set the mode dial to [**SETUP**].
- 2 Press the **▲** or **▼** button to select [**DIGITAL ZOOM**] and press the **▶** button.



- 3 Press the **▲** or **▼** button to select [**ON**] and press the **ENTER** button.



- 4 Set the mode dial to [**📷**].

Note

- To cancel the digital zoom, select [**OFF**].

-
- 5** Press the [Z] button and keep it pressed for more than 1 second to enable digital zoom mode. Decide the magnification.



The orange area of the zoom indication bar is the scope of the digital zoom.

Press the [Z] button to cancel the digital zoom.

-
- 6** Press the shutter release button.