# Chapter 3. Shooting Settings

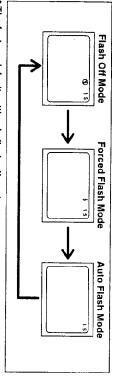
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# Changing Flash Settings

to meet your shooting requirements. This section explains how to change the flash mode. You can switch between flash modes

# Switching between Modes

As you change the flash mode, the following symbols will display, in turn, on the LCD



The factory default setting is flash off mode.

- Important Note:

  The light from the flash may appear red in pictures of subjects shot from less than 55 centimeters (21.7 inches) away. The subject may also be over-exposed and appear bleached out. To avoid
- The flash will not discharge in the text mode.
- The flash will not discharge in the following white balance modes: daylight, fluorescent light and tungsten light
- The flash will not discharge when the lens unit is angled back toward the operator
- If you notice that a subject is dark on the LCD monitor when you intend to take a flash picture, zoom the camera out to a wider angle to improve the focus. It is difficult for the camera to focus at the telephoto setting.
- Activate the save mode to save a flash mode setting. See Keep Settings (p. 88)

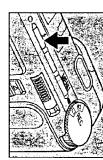
## Effective Range of the Flash

subject in a shaded area, the subject will be darkened in the picture. daylight (daylight syncro photography). If the flash does not adequately illuminate a telephoto setting and 0.55 - 4.5m (1.8ft to 14.8ft.) for the wide angle setting in The effective range of the flash is approximately 0.55 - 3.8m (1.8ft to 12.5ft.) for the

### Flash Off Mode

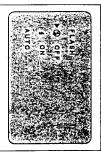
nation. In this mode, the flash will not discharge, even in dark conditions. This mode is useful for taking pictures in areas where flashes are prohibited or there are other means of illumi-

Turn the mode dial to [REC].



2 Press the flash button to select the [ \$\tilde{D}\$]

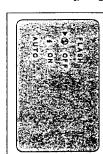
after the flash button is pressed. The selection takes effect approximately 2 seconds



The current flash mode will display on the LCD

Press the shutter release button to shoot a picture without discharging the flash.

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How to Switch Modes

Important Note: -

The shutter speed automatically slows to compensate for shots taken in dark areas. To prevent camera shake, hold the camera as steady as possible or mount it on a tripod. Be particularly careful with telephoto shots at high zoom settings.

To switch to an alternative mode, press the flash button.

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### **Forced Flash Mode**

This mode is suited to shots in which the subject is backlit or shaded but surrounded by strong highlights. The flash will discharge regardless of the ambient light level.

Turn the mode dial to [REC].



Press the flash button to select the [ 4 ]

after the flash button is pressed. The selection takes effect approximately 2 seconds



The current flash mode will display on the LCD

Press the shutter release button to shoot a picture and discharge the flash. Presscause the flash LED to light. ing the shutter release button halfway will



The flash LED will pulse while the flash is charging and the LCD monitor will momentarily blacken. You will not be able to shoot during this interval.

Important Note:

- Subjects shot from less than 55 centimeters (21.7 inches) away may be over-exposed and appear bleached out in the image. To avoid this, switch to the flash off mode.
- when shooting at the [4] telephoto setting. the camera especially steady or use a tripod. Be particularly careful to avoid blurring pictures The shutter speed is automatically slowed down in dark places. To avoid blurring the picture, hold

### How to Switch Modes

To switch to an alternative mode, press the flash button

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### Auto Flash Mode

shooting conditions. lighting. This mode allows you to respond appropriately to a wide range of standard This mode automatically discharges the flash when it detects low ambient light or back-

Turn the mode dial to [REC].



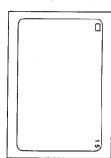
2 Press the flash button to select the auto flash icon.

after the flash button is pressed. The selection takes effect approximately 2 seconds



mode is indicated. When the LCD monitor displays neither the [ ③ flash off or [ 5 ] forced flash icons, the auto flash

Press the shutter release button to shoot a picture. The flash will discharge if the amrelease button halfway will cause the flash In these conditions, pressing the shutter bient light is low or the subject is backlit. LED to light.



The flash LED will pulse while the flash is charging and the LCD monitor will momentarily blacken.
 You will not be able to shoot during this interval.

Important Note: •

Subjects shot from less than 55 centimeters (21.7 inches) away may be over-exposed and appear bleached out in the picture. To avoid this, switch to the flash off mode.

### How to Switch

To switch to an alternative mode, press the flash button

# Adjusting Exposure Compensation Settings

be under- or over-exposed, reproducing as a dark or bleached image. These situations, era can automatically adjust the exposure settings for backlighting. In situations where ally under- or over-expose an image. there is a sharp contrast between the subject and background, however, the subject may Under standard shooting conditions, the subject is centered in the picture and the camtherefore, call for manual exposure compensation. In addition, you may wish to intention-

## **Exposure Compensation Range**

±2.0 EV (0.5 EV increments)

#### **Backlit Conditions**

If the background is much brighter than your subject, the subject will be under-exposed. To correct this, set the exposure compensation setting to a positive value.

#### Important Note: •

In auto exposure compensation mode, the camera's sensors will not interpret a bright background and dark subject as a backlit situation if the subject is not centered in the composition. prevent incorrect exposure, manually set the exposure compensation as described below. 70

### White/Bright Subjects

a positive (+) value to counteract this. appear dark and white subjects may appear gray. Set the exposure compensation to the exposure compensation is set to auto mode. People and other subjects may A composition with large areas of white or bright colors may be under-exposed when

### Black/Dark Subjects

the exposure compensation is set to auto mode. People and other subjects may to photograph a person under a bright spotlight. tion to a negative (-) value to counteract this. Apply the same principles as those used appear bleached out while black subjects appear gray. Set the exposure compensa-A composition with large areas of black or dark colors may be over-exposed when

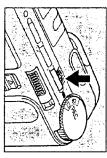
# Adjusting the Exposure Compensation Settings

### Turn the mode dial to [REC] and press the menu button.

The record menu will display

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To cancel the operation, press the menu button a second



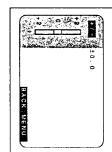
#### Slide the zoom button to select the [Exposure Compensation] option (+/-) and press the enter button.

will display. The exposure compensation (+/-) settings menu

the menu button a second time. To cancel the operation and return to the record menu, press



Slide the zoom button to change the exposure compensation value.



# Advancing the Setting by an Increment of 0.5 EV

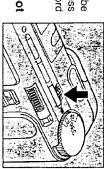
setting by 0.5 EV. Slide the zoom button up toward the [4] /FWD mark to advance the exposure

# Reducing the Setting by an Increment of 0.5 EV

Slide the zoom button down toward the [+] /REV mark to reduce the exposure setting by 0.5 EV.

### 4 Press the menu button.

effective and the record menu will display. Press the menu button a second time to clear the record The selected exposure compensation value will be



Press the shutter release button to shoot the picture

0

### Canceling the Setting

Repeat the steps above to return the setting to ±0.0

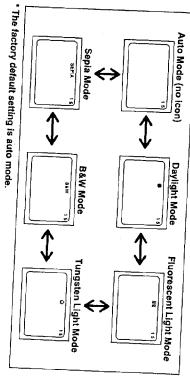
power is shut off. To save the settings, see Keep Settings (p. 88) Unless the save mode is active, the exposure compensation setting will be lost when the camera

The white balance function adjusts the camera settings so that image tones appear natural regardless of the light source. The auto mode is appropriate for shooting under nor-

these cases, the white balance mode should be manually set as described below. and is dark overall, it may be difficult for auto mode to properly calibrate the tones. In less of the type of light present. In cases where the subject has few white or light tones basis for calibrating the remaining colors, thereby reproducing whites as whites regard-In auto mode, the camera's sensors automatically use the white hues in an image as the

# Switching Between Modes

As you change the white balance mode, the following symbols will display in turn on the



# Subjects Difficult to Calibrate in Auto Mode

- Monochrome objects
- Objects lit by multiple, contrasting light sources.

- improve the shot, add a white object to the composition and reshoot. Attempting to shoot subjects with few or no white tones in auto mode may produce poor results. To
- White balance settings can only be adjusted in recording mode. The settings can not be adjusted
- The flash will not discharge in the following white balance modes: daylight, fluorescent light and
- Activate the save mode to save a white balance setting. See Keep Settings (p. 88)

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# Displaying the Settings Menu

### Turn the mode dial to [REC] and press the menu button.

The record menu will display.

- To cancel the operation, press the menu button a second
- Slide the zoom button to select the [White Balance] option and press the enter but-

The settings menu will display



the menu button a second time. To cancel the operation and return to the record menu, press

How to Switch between White Balance Modes See the following descriptions for each mode below. The white balance settings are selected from the settings menu by the preceding steps. Daylight Mode (this page)

Fluorescent Light Mode (p. 58) Tungsten Light Mode (p. 59)

B & W Mode (p. 59) Sepia Mode (p. 60)

This mode is used to shoot subjects outdoors in conditions difficult for the auto mode to

Select this mode from the settings menu. See Displaying the Settings Menu (p. 57).

Slide the zoom button to select the [ \* ] icon and press the menu button.

time to clear the record menu. menu will display. Press the menu button a second The daylight mode will be selected and the record



ance setting. The LCD monitor will display the selected white bal-

Press the shutter release button to shoot the picture.

#### Important Note: .

The coloration of the same subject shot under different weather conditions, such as bright or cloudy conditions, will



### Canceling the Setting

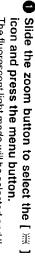
# Use the zoom button to select the auto mode in the settings menu.

The flash will not discharge in the daylight mode.

# Fluorescent Light Mode

poorly using the auto mode setting. This mode is used to shoot subjects illuminated by fluorescent lights that reproduce

Select this mode from the settings menu. See Displaying the Settings Menu (p. 57)



record menu will display. Press the menu button a second time to clear the record menu. The fluorescent light mode will be selected and the

ance setting The LCD monitor will display the selected white bal-



Press the shutter release button to shoot the picture.

#### Important Note:

The coloration of the same subject shot with different types of fluorescent lights will vary.



### Canceling the Setting

Use the zoom button to select the auto mode in the settings menu.

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The flash will not discharge in the fluorescent light mode

using the auto mode setting. This mode is used to shoot subjects illuminated by tungsten lights that reproduce poorly

Select this mode from the settings menu. See Displaying the Settings Menu (p. 57)

### lacktriangle Slide the zoom button to select the [ $\Leftrightarrow$ ] icon and press the menu button.

second time to clear the record menu. record menu will display. Press the menu button a The tungsten light mode will be selected and the



Press the shutter release button to shoot the picture.

ance setting.

#### Important Note:

of tungsten lights will vary. The coloration of the same subject shot with different types



Canceling the Setting

Use the zoom button to select the auto mode in the settings menu.

#### Note:

The flash will not discharge in the tungsten light mode

#### Mode

This mode is used to shoot and record subjects in black and white

#### Note:

Select this mode from the settings menu. See Displaying the Settings Menu (p. 57).

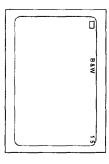
### Slide the zoom button to select the [B&W] icon and press the menu button.

time to clear the record menu. menu will display. Press the menu button a second The B&W mode will be selected and the record



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2 Press the shutter release button to shoot the picture.



### Canceling the Setting

Use the zoom button to select the auto mode in the settings menu

#### Sepia Mode

time brown" color. This mode is used to shoot and record subjects in sepia, which gives an image the "old

Select this mode from the settings menu. See Displaying the Settings Menu (p. 57)

Slide the zoom button to select the [Sepia] icon and press the menu button

menu will display. Press the menu button a second time to clear the record menu. The sepia mode will be selected and the record



ance setting. The LCD monitor will display the selected white bal-

Press the shutter release button to shoot the picture.



### Canceling the Setting

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Use the zoom button to select the auto mode in the settings menu

## Special Functions

This section explains the numerous special functions incorporated in the RDC-4200.

### Using the Self-timer

self timer. The self-timer is a convenient function for taking group pictures that include the photographer. Mount the camera on a tripod or a flat, secure surface to shoot pictures with the

### Turn the mode dial to [REC] and press the menu button.

The record menu will display

 To cancel the operation, press the menu button a second time.



To cancel the operation and return to the record menu, press the menu button a second time.



Press the enter button to select the [On] option and press the menu button. The self-timer function is now active.



4 Compose the picture, secure the camera and press the shutter release button.

start. Approximately 10 seconds later the shutter after the shutter activates. ter activates. The self-timer mode automatically ends steadily approximately 2 seconds before the shutwill activate. The LED will stop flashing and shine The self-timer LED will flash and the self timer will



Shooting Settings

- If the shutter release button is pushed while the flash is charging, the self-limer will only start after the flash finishes charging
- Switching from the recording mode or operating the power switch will cancel the self-timer mode



### Interval Shooting

picture every hour until the SmartMedia memory card is full. When the interval is set to 1 hour, for example, the camera will automatically take a are available in 30-second increments starting at 30 seconds and ending at 3 hours. The camera can be set to take pictures automatically at specified intervals. The intervals

### Turn the mode dial to [REC] and press the menu button.

The record menu will display

To cancel the operation, press the menu button a second



Slide the zoom button to select the [Interval Timer] option and press the enter but-



# The interval timer settings menu will display

 To cancel the operation and return to the record menu, press the menu button a second time



### Press the enter button to select hours, minutes or seconds. The selected item will

### The selection will advance successively from hours to seconds each time the enter button is pressed.

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#### ENTER BACK: MENU

### 4 Slide the zoom button to change the value of the flashing time unit.

Repeat steps 3 and 4 until the required interval is set. Intervals can be set in increments of 30 sec-



### Advancing the Values

mark to advance the value of the flashing time unit. Hold the zoom button up continuously to advance the values quickly. Slide the zoom button up toward the [4]/FWD

flashing time unit. Hold the zoom button down continuously to advance the values Slide the zoom button down toward the [+]/REV mark to reduce the value of the Reducing the Values

#### Note:

quickly.

To cancel the operation and return to the record menu, press the menu button a second time.

# Press the enter button again.

will display. The interval timer is now set and the record menu



### Press the menu button.

on the display. The record menu will close and INTERVAL will show



# Press the shutter release button.

after record pictures at the specified interval The camera will record the first picture and there-

During interval shooting, INTERVAL will flash on the display. The mode will automatically turn off when the SmartMedia memory card is full.





#### Note:

- The actual interval between shots may be slightly longer depending upon the PIC mode and flash
- Powering the camera with the separately sold AC adapter is recommended for interval shooting See Using an AC Power Source (p. 28)
- After 24 hours passes, the auto power off function will shut down the camera.

### Canceling the Setting

is shown on the display. The following procedures can be used to turn off interval shooting when INTERVAL

- Follow the steps above to set the interval to [00:00:00].
- Slide the power switch.
- Turn the mode dial to a different setting

#### Stopping Shooting

flashes on the display. The following procedures can be used to stop interval shooting when INTERVAL

- Slide the power switch.
- Turn the mode dial to a different setting.
- Press the shutter release button (the camera will take one picture and cease shooting)

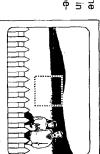
#### Focus Lock

may be out of focus. To avoid this, use the focus lock function. ter portion of the LCD monitor. If your subject does not fall within the autofocus field, it The autofocus function measures the focal distance to the subject appearing in the cen-

See How to View Images in the LCD monitor (p. 45)

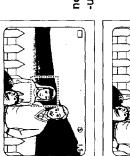
# ■ When to Use the Focus Lock

cause the camera will focus on the background. the foreground in this scene will be out of focus beautofocus field. For example, the person to one side in Use the focus lock when a subject is outside the



# How to Use the Focus Lock

Slide the zoom button to select a zoom set-

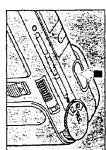


Aim the autofocus field (LCD monitor center) directly at the subject on which you wish to focus.



Press the shutter release button halfway down and hold it.

The camera will lock the focus.



Continuing to hold the shutter release butpush the shutter release button all the way down to take the picture. frame the desired composition, and gently ton halfway down, re-aim the camera to





You can focus the camera manually. See Manual Focus (p. 66).

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#### Manual Focus

difficult to bring into focus with autofocus. The manual focus function can be used to manually adjust the focal setting for subjects

### Turn the mode dial to [REC] and press the menu button.

The record menu will display

To cancel the operation, press the menu button a second



### Slide the zoom button to select the [Focus] option.

Note: To cancel the operation and return to the record menu, press the menu button a second time.



Press the enter button to switch the setting to [MF] and press the menu button. The manual focus function is now active.



4 Aim the camera at your subject, slide the isfaction and press the shutter release butzoom button to adjust the focus to your satton to record the picture.

tive, keep the shutter release button pressed halfway while you slide the zoom button To change the zoom setting with manual focus ac-



### How to Switch Modes

0

ting to [AF] from [MF]. To switch back to autofocus mode, repeat steps  $m{0}$  to  $m{8}$  above and switch the set-

#### Macro Mode

Macro mode is used for close-up, detailed shots

Turn the mode dial to the [ & ] macro set-



Bring the camera close to the subject and compose the picture. Press the shutter release button halfway to lock the focus.



- To activate the digital zoom, slide the zoom button up to-ward the ATEWD mark and hold it there for 2 seconds.
- The standard zoom function will not operate in this mode.

@ Gently press the shutter release button all the way down to shoot the picture.

#### Important Note:

- In macro mode, you are advised to mount the camera on a tripod or other fixed device because
- The light from the flash may appear red in pictures shot in the forced flash mode. The subject may the area covered by the autofocus field is small and the focus is easily lost if the camera is moved also be over-exposed and appear bleached out.
- The flash will not discharge in macro mode when set to the auto flash mode





This mode sets the shutter speed to faster settings for shooting in dark areas. Camera shake is greatly reduced if you use this mode after [Slow Shutter] displays in the LCD monitor when you aim at a poorly illuminated subject and press the shutter release button halfway.

### Turn the mode dial to [REC] and press the menu button.

The record-menu will display.

 To cancel the operation, press the menu button a second time.

#### 2 Slide the zoom button to select the [S Mode] option.

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MENU RECORDI

To cancel the operation and return to the record menu, press the menu button a second time.



#### AUTO POWER OFF ON MODE SETTING MENU [RECORD]



### SEMODE SLOW SHUTTER

### Press the shutter release button to take the picture.

ting to [On] and press the menu button.

The S mode is now active.

the shutter release button halfway and [S Mode Slow Shutter] displays, the shot will be taken in S mode. The camera automatically gauges whether it will actual shoot the picture in S mode by measuring the amount of light reflected off the subject. If you press

A blurred picture may result if the camera is moved before the beep after the shutter release button has been pressed.

### How to Switch Modes

from [On]. To switch S mode off, repeat steps • to • above and switch the setting to [Off]

Activate the save mode to save an S mode setting. See Keep Settings (p. 88) Images shot in S mode may occasionally include minimal amounts of 'noise.'