

Chapter 6

Advanced Topics — Other Controls

Not all of the settings that affect the recording process are located in the Recording menu. Several important functions are controlled by physical buttons and switches on the camera. We have already discussed some of these, but in order to make sure all of the information about these controls is included in one place, we'll go through each physical control, some in greater detail than others.

Aspect Ratio Switch



This switch, located on top of the lens barrel, has three possible settings: 4:3, 3:2, and 16:9, representing the ratio of the width of a horizontal image to its vertical height. This setting does not affect just the shape of the image; it also determines how many megapixels an image can contain. When the aspect

ratio is set to 4:3, the maximum resolution of 10 MP is available; when the aspect ratio is set to 3:2, the greatest possible resolution is 9.5 MP; at 16:9, the greatest possible is 9. Also, the very lowest possible resolution, 0.3 MP, is possible only at the 4:3 aspect ratio. So if for some reason you need to take thousands of pictures and don't care if the quality is low, you may need to set the aspect ratio to 4:3 to achieve the lowest possible resolution and the highest possible number of recordable images. If you want your image to use the entire area of the LCD screen, choose 3:2, which is the aspect ratio of the screen. With 4:3, there will be black bars at the sides of the screen as you compose your shot; with 16:9, there will be black bars at the top and bottom of the screen.

Autofocus Switch



The Autofocus switch is located on the left side of the lens barrel as you hold the camera in shooting position. Its three selections are Autofocus, Autofocus Macro, and Manual Focus. We have previously discussed Autofocus and Manual Focus. The third setting, Autofocus Macro, needs some additional discussion. When you move the switch on the lens to select this mode, the focusing range changes to a macro range. So, instead of the normal focusing range of 1.64 feet (50 cm) to infinity at wide angle, the lens can focus down to as close as 0.4

inch (1 cm). It is a good idea to set the flash to Off when using macro mode, because the flash would not be useful at such a close range. We'll discuss macro shooting in more detail in Chapter 9.

Flash Switch



The flash switch is on top of the camera at the far left. It has only one function -- to unlatch the flash mechanism so it can pop up and be available in case conditions call for its use. If you, the user, do not manually pop the flash unit up using this switch, it will not be available, because the camera cannot pop the unit up automatically.

Mode Dial



The Mode dial is on top of the camera to the right of the hot shoe as you hold the camera in shooting position. We discussed this dial extensively in Chapter 4. Its settings move you between the various modes of shooting: Snapshot, Program, Aperture Priority, Shutter Priority, Manual, Custom 1, Custom 2, Motion Picture., and Scene. If you happen to leave the Mode dial in a position that does not select one of those set-

tings, the camera will display a message advising you that the dial is not in a proper position.

Shutter Button



This control is quite familiar by now. You press it down halfway to check focus and exposure, and press it the rest of the way to record the image. You can also press it to wake the camera up from Power-Save mode. The shutter button has a somewhat different use when you are making multiple exposures using that option on the Recording menu. After the initial exposure is made, you move to the next one by pressing the shutter button halfway down.

Zoom Lever

The Zoom lever is a ring with a ridged handle that encircles the shutter button. The lever's basic function is to change the lens's focal length between wide-angle, by pushing it to the left, toward the W indicator, and telephoto, by pushing it to the right, toward the T indicator. The lever also has some other functions. When you are viewing pictures in Play mode, the lever enlarges the image on the LCD screen when pushed to the right, and selects different numbers of images to view when pushed to the left. In addition, when you are playing a motion picture taken by the camera, the Zoom lever can be used to raise and lower the audio volume. Also, you can use

this lever to speed through the menus a full page at a time.

Focus Button

The Focus button is on the top of the camera to the right of the shutter button, at the far right of the camera as you hold it in shooting position. As we discussed earlier, this button is used to move the focusing frame around the screen, so you can focus on an object that is not in the center of the screen. To do this, you aim the camera, press the Focus button, then use the cursor keys to move the frame to wherever you want it. Then press the center button in the five button array (Menu/Set) to set the location. To return the frame to the center of the screen, press the Focus button again, then press the Display button on the lower left of the camera back's controls.

The Focus button has one other function that we mentioned briefly earlier. When you set the camera to Manual Focus, the standard focusing procedure is to use the joystick to adjust the focus until it looks the way you want it on the screen. However, even with the camera set to Manual Focus, if you press the Focus button the camera will attempt to focus automatically. If you are faced with a tricky focusing situation, such as a subject that has important points to focus on at various distances, using the Focus button to pre-focus the subject can give you a starting point, from which you can take over with the joystick to fine-tune the focus as you want it.

Power Switch

There isn't a lot to say about the power switch, but I didn't want to leave any controls out, and this is a good opportunity to discuss the Power-Save feature. The power switch is on the far right of the camera's top. You move it to the right for On and to the left for Off. When you do either of these actions, the little

green status light blinks briefly to acknowledge the action.

If you leave the camera unattended for a period of time, it automatically powers off, if this option is set through the Setup menu. We'll discuss the Setup menu in Chapter 8, but this option can be set to be off altogether so the camera never turns off just to save power, or it can be set to turn the camera off after two, five, or ten minutes of inactivity. You can cancel the Power-Save shutdown by pressing the shutter button.

Record - Playback Switch

This switch is located directly to the right of the top of the LCD screen. In the up position, the switch puts the camera into Recording mode; in the down position, it puts the camera into Playback mode. I find that it can sometimes be a good idea to leave the switch in Playback mode to avoid the situation when you turn the camera on in recording mode without taking off the lens cap. When you do that, the camera balks and tells you to remove the lens cap and press the right cursor button before proceeding. If the camera is in Playback mode, you can turn it on with the lens cap on and it will be happy as a clam, because the lens does not extend outward and hit the lens cap.

Joystick



The little joystick on the back of the camera (just below the Record - Playback switch), has quite a few functions, of which we have discussed several. It is used to adjust the focus when

the camera is in Manual Focus mode. It is used to adjust shutter speed and/or exposure when the camera is in Aperture Priority, Shutter Priority, or Manual Exposure mode. But it has many other duties as well, described below.

Exposure Compensation with Joystick

The joystick can be used as an alternative way to adjust exposure compensation. The standard way to dial in exposure compensation is to press the up button in the five-button array on the back of the camera, the button that is marked with the dark plus sign and white minus sign. Then you use the left and right cursor keys to set the amount of positive or negative exposure for the image.

To use the joystick for the exposure compensation adjustment, you start by moving the joystick to the left. At that point the joystick navigation icon, a circle with protruding arrows in the bottom right corner of the screen, will have its arrows turn red and point up and down, indicating that you can now adjust exposure compensation by moving the joystick up and down. You will also see the little icon for exposure compensation, with the plus and minus signs, in the lower left corner of the screen. Moving the joystick up and down at this point will raise and lower the level of exposure compensation.

Program Shift with Joystick

Here is a function of the joystick that is not immediately obvious. I don't think you'd find this one without reading the manual (or this book), unless you are a very thorough experimenter. Program Shift is available only in Program mode. What this function does is let you take the camera's automatic settings for aperture and shutter speed and reset them to a different combination that yields the same exposure. That is, you

can “shift” both settings the same amount in opposite directions. For example, if the camera computes the correct settings as f/2.0 at 1/100 second, you can shift those settings to any equivalent pair that would yield the same exposure, such as f/2.2 at 1/80 second, f/2.5 at 1/60 second, f/2.8 at 1/50 second, or f/3.2 at 1/40 second.

Why would you want to do this? You might want a slightly faster shutter speed to stop action better, or a wider aperture to blur the background more, or you might have some other creative reason. Of course, if you really are interested in setting a particular shutter speed or aperture, you probably are better off using Aperture Priority mode or Shutter Priority mode. However, having the Program Shift capability available is a good thing for a situation in which you're taking pictures quickly using Program mode, and you want a quick way to tweak the settings somewhat.

Here's how to use Program Shift. When you're about ready to take a picture, press the shutter button halfway to calculate the exposure. You will see a yellow rectangle that outlines the values for shutter speed and aperture at the bottom of the LCD screen. Within a few seconds, press the joystick up or down to shift the values.



You will see the new values within the rectangle, and the Pro-
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gram Shift icon (a rectangle with a P and a diagonal two-headed arrow) will appear at the bottom of the screen to indicate that Program Shift is in effect. If that icon is red, that means that the exposure settings are not adequate for a proper exposure. To cancel Program Shift, use the joystick to change the settings until the Program Shift icon disappears. Also, turning off the camera will cancel Program Shift.

Getting Access to Quick Menu with the Joystick

The little joystick is not done yet; it offers another complete set of tricks if you take it in another direction by pressing in on it. This function—getting access to the Quick menu—is not entirely obvious from the user's manual, so let me emphasize that point. You put your thumb on the joystick's knob and push in, as if the joystick were a push-button, which, of course, it is. You have to press fairly hard, but once your press has registered, a mini-version of the camera's menu system opens up at the top of the screen, like a Windows or Macintosh computer program's main menu system. You navigate right and left with the joystick across the menus until you find the category you want, then move up and down that category with the joystick until you hit the exact selection you want, then you press in firmly on the joystick to select it.



The options that are available through the Quick menu vary according to what mode the camera is in. Not surprisingly, the Quick menu offers the largest variety of choices when the camera is in Program, Aperture Priority, Shutter Priority, or Manual mode. It offers the smallest variety in Snapshot mode: only AF Tracking on or off, and Picture Size. There are a moderate number of choices in Scene mode and Motion Picture mode. (The Quick menu is not available at all in Playback mode.)

Is the Quick menu better or easier than using the Recording menu system? It's a matter of personal choice. You may find the Quick menu to be a good way to choose certain options, such as ISO or White Balance. It's a good idea to experiment a bit.

AF/AE Lock Button



The AF/AE Lock button is located just to the right of the joystick on the camera's back. As we discussed in Chapter 5, through the Recording menu's settings you can select whether this button locks both autofocus (AF) and auto-exposure (AE), or only one or the other. You just press the button to