



PixController Universal RSP3i-U and RSP4i-U User Switch Settings

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The User Control Switch (SW1) will let you customize how the **PixController** Board will trigger the Digital Camera. Here you can adjust the time delay between pictures, operating only at day, night, or 24 hours, setting up a walk-test mode for testing PIR range/area – camera on mode for checking photos and changing camera settings, digital still or movies, power up mode for fast and slower digital cameras, and turning the control board LED's on or off.

This document covers both the RSP3i and RSP4i PIC chip DIP switch settings since they are the same. However, wiring the camera to the PixController board differs between the RSP3i chip and the RSP4i chip. Please visit <http://www.pixcontroller.com> for camera wiring instructions.

RSP3i vs RSR4i

The RSP3i chip only uses 3 wires between the camera and the PixController. In many instances this is a more preferable way to wire your camera. Since the refresh wire is not used this means the time to charge the flash can be slower. How much slower? Only about ½ second, but if you want faster power up times and do not need the external light port we suggest you use the RSP4i PIC chip and wire the camera for the 4 wire method. If you have any questions please contact support@pixcontroller.com.

RSP3i and RSP4i Power Up

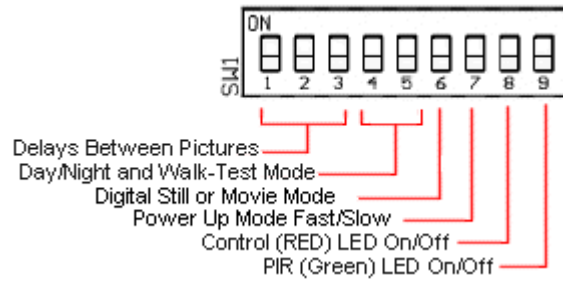
Upon power up of the RSP3i or RSP4i board's power will be applied to the camera during the 1 minute warm up phase. This is to charge the flash cap and get the camera into a more ready state to shutter a photo.

Note1: When turning power on to your Universal board both the red and green LED will light up. They will both stay on for 30 seconds. This time will allow the PIR circuit to warm up. After this time expires the green LED will turn off and the red LED will blink 5 times letting you know that the board is entering a 1 minute automatic walk-test phase. At this point you can move around the camera setup and check out the PIR area. Both the green and red LED's will light when motion is detected. After the 1 minute automatic walk-test phase expires the red LED will blink 5 times letting you know the camera system will now become active.

Note2: The RSP3i-U and RSP4i PIC can be used with any slide cover type cameras such as the Olympus D-series digital cameras, and other brands with this type of slide cover.

PixController DIP Switch

The PixController DIP switch is where you can adjust how the camera and board operates.



Modes of Switch Operation

Default Setting



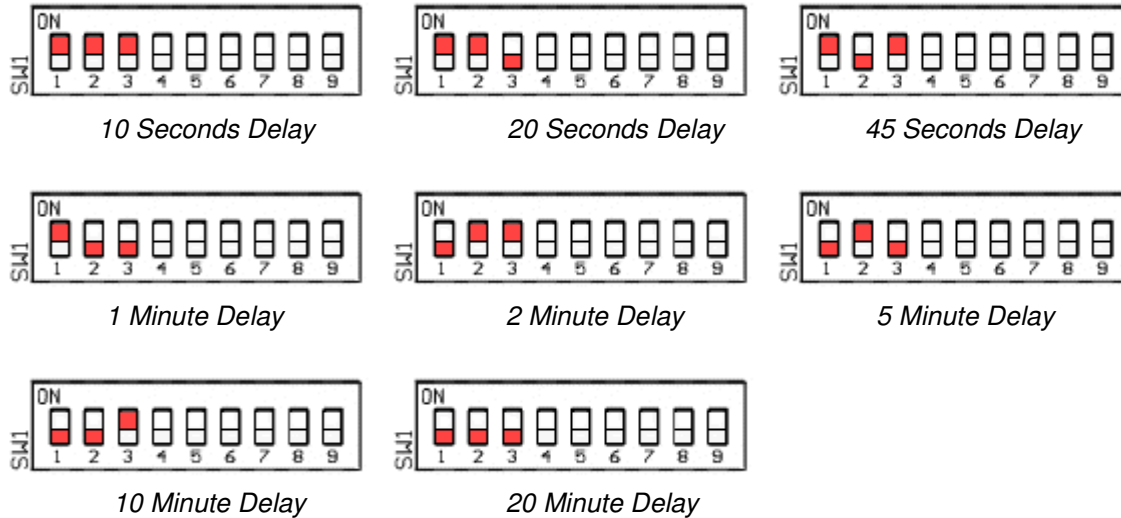
All switches “UP” except switch 9 which is “DOWN”.

10 Second Delay between pictures, 24 Hour Recording, Digital Still, Power Up Mode Fast, Control LED On, PIR LED On.

Red indicated the switch position for all graphics below.

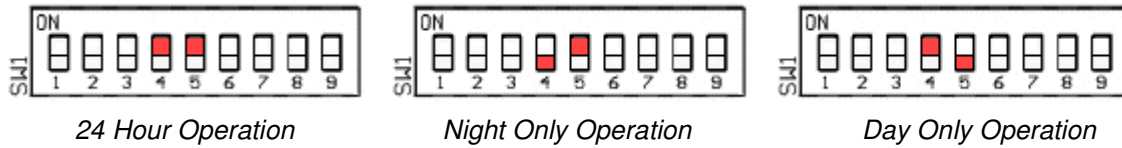
Delays Between Pictures Setting

Switches 1, 2, and 3 control the delays between pictures.



Day/Night Operation Settings

Switches 4 and 5 control Daylight, Night Time, and 24 Hour recording or pictures.



PIR Walk-Test Mode/Camera On Mode

PIR Walk-Test Mode

On boot up of the Universal board this setting will put the unit into a PIR Walk-Test mode. Here you can check out the PIR detection area without having the unit take photos. When booting the Universal board into this mode the RED Control LED and Green PIR LED will stay on for about 30 seconds. This is when the PIR is warming up. After this period of time has expired you are free to walk and test the PIR area.

Note: To put the PixController back into “Photo Taking Mode” change the switch settings of switch 4 and 5 to one of the three options above under the Day/Night Operation Setting, and power the PixController unit Off and On from the external power switch.

Camera On Mode

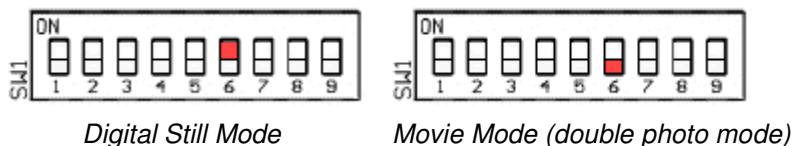
When the controller is booting up the camera power is turned on. When the setting is in this mode the camera will stay on until this setting is changed, and the controller is rebooted. In this mode you can view your photos or make any changes to the camera settings.



PIR Walk-Test/Camera On Mode

Digital Still or Movie Mode (double photo)

Switch 6 controls either digital still mode or movie mode (double photo mode). The default is still mode, but if you want to use movie mode make sure your camera is set up in movie mode and that the camera is also setup to retain the camera settings. If you want to have double photo mode put the PixController into movie mode, but keep the camera in still mode



Power Up Mode Setting

Switch 7 will let you adjust the controller camera shutter control to how fast the digital camera will boot up and be ready to take a photo Note: Shutter times can vary depending on camera charge state.

RSP3i has slower power up modes since we are not wiring the refresh.

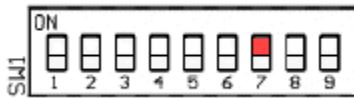
Fast Mode = 2.8 seconds

Slow Mode = 4.0 seconds

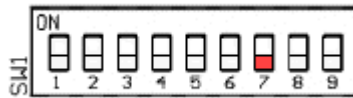
RSP4i has faster power up modes since we wire the refresh

Fast Mode = 2.5 seconds

Slow Mode = 3.4 seconds



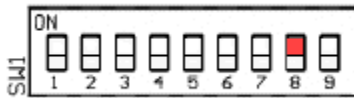
Power Up Mode - Fast



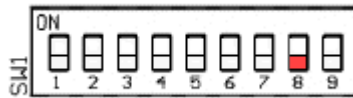
Power Up Mode - Slow

Control LED On/Off Setting

Switch 8 sets if the Control LED (**Red LED**) is to be used or not. Note, the control LED will always be on during the Power-Up Phase, or when in Walk-Test Mode.



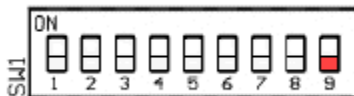
Control LED On



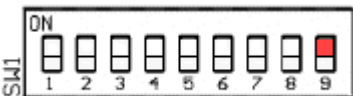
Control LED Off

PIR LED On/Off Setting

Switch 9 sets if the PIR LED (**Green LED**) is to be used or not.



PIR LED On



PIR LED Off

Note:

When changing switch setting you must re-boot your PixController board. When re-booting you must wait approximately 30 seconds before turning power on again. Not doing so can result in the controller not working properly. Symptoms of this are a dim red LED or blinking green LED, or both.

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