



## **PixController Universal RS-232-U User Switch Settings**

Copyright ©, PixController, Inc. <http://www.pixcontroller.com>, all rights reserved.

The User Control Switch (SW1) will let you customize how the RS-232 Camera Control 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, set the type of digital camera to control, and turning the control board LED's on or off. The advantage of this type of unit is that you simply connect your camera to the board with a *Serial Cable (supplied with your camera)*. Below is a list of all cameras supported by this board.

**Note:** 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.

## Types of Digital Cameras that can be used

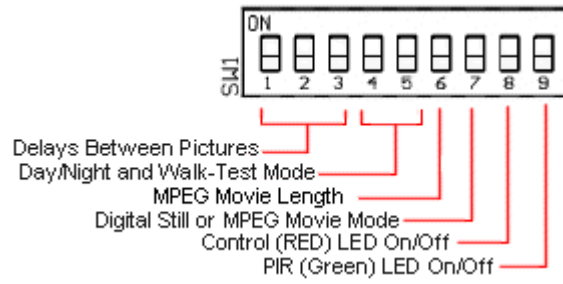
Listed below are the types of digital cameras the Universal RS-232 board. Devices are connected to the Control board VIA the Cameras serial cable (plug-n-play), **and do not require any camera modifications**. This is a great way for a beginner in the trail camera building market to start out.

The cameras on this list have not all been tested, but most of the Olympus cameras should work. The Universal RS-232 requires that the camera meets the RS-232 spec of +/- 12V generation. **If the camera does not meet the RS-232 spec there is a good chance the camera will not function properly with the Universal RS-232 board.**

The Olympus D-340R and D-360L have been tested and work properly. We recommend these cameras for trail camera use with the Universal RS-232 board. Even though these cameras are no longer made they can easily be found and purchased on eBay. Do a search on the description for "Olympus D-360L" to locate a camera.

If you find that a camera does work please email us as [support@pixcontroller.com](mailto:support@pixcontroller.com) and we will make note of it for other users.

RS-232 Sierra Mode Digital Cameras		
<b>Bold Red</b> – cameras that should work <i>Italic Gray</i> – untested cameras		
<i>Agfa ePhoto 1280</i> <i>Agfa ePhoto 1680</i> <i>Agfa ePhoto 307</i> <i>Agfa ePhoto 780</i> <i>Agfa ePhoto 780C</i>  <i>Apple QuickTake 150</i> <i>Apple QuickTake 200</i>  <i>Chinon ES-1000</i>  <i>Epson PhotoPC 3000z</i> <i>Epson PhotoPC 500</i> <i>Epson PhotoPC 550</i> <i>Epson PhotoPC 600</i> <i>Epson PhotoPC 700</i> <i>Epson PhotoPC 800</i>  <i>Nikon CoolPix 100</i> <i>Nikon CoolPix 300</i> <i>Nikon CoolPix 700</i> <i>Nikon CoolPix 800</i> <i>Nikon CoolPix 880</i> <i>Nikon CoolPix 900</i> <i>Nikon CoolPix 900S</i> <i>Nikon CoolPix 910</i> <i>Nikon CoolPix 950</i> <i>Nikon CoolPix 950S</i> <i>Nikon CoolPix 990</i>	<b>Olympus C-1000L</b> <b>Olympus C-1400L</b> <b>Olympus C-1400XL</b> <b>Olympus C-2000Z</b> <b>Olympus C-2020Z</b> <b>Olympus C-2040Z</b> <b>Olympus C-2100UZ</b> <b>Olympus C-2500L</b> <b>Olympus C-2500Z</b> <b>Olympus C-3000Z</b> <b>Olympus C-3030Z</b> <b>Olympus C-400</b> <b>Olympus C-400L</b> <b>Olympus C-410</b> <b>Olympus C-410L</b> <b>Olympus C-420</b> <b>Olympus C-420L</b> <b>Olympus C-800</b> <b>Olympus C-800L</b> <b>Olympus C-820</b> <b>Olympus C-820L</b> <b>Olympus C-830L</b> <b>Olympus C-840L</b> <b>Olympus C-900L Zoom</b> <b>Olympus C-900 Zoom</b>	<b>Olympus D-100Z</b> <b>Olympus D-200L</b> <b>Olympus D-220L</b> <b>Olympus D-300L</b> <b>Olympus D-320L</b> <b>Olympus D-330R</b> <b>Olympus D-340L</b> <b>Olympus D-340R</b> <b>Olympus D-360L</b> <b>Olympus D-400L Zoom</b> <b>Olympus D-450Z</b> <b>Olympus D-460Z</b> <b>Olympus D-500L</b> <b>Olympus D-600L</b> <b>Olympus D-600XL</b> <b>Olympus D-620L</b>  <i>Panasonic Coolshot NV-DCF5E</i>  <i>Sanyo DSC-X300</i> <i>Sanyo DSC-X350</i> <i>Sanyo VPC-G200</i> <i>Sanyo VPC-G200EX</i> <i>Sanyo VPC-G210</i> <i>Sanyo VPC-G250</i>  <i>Sierra Imaging SD640</i>



*Modes of Switch Operation*

**Default Setting**



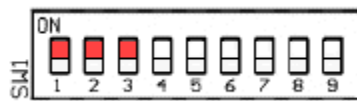
All switches “UP” except switch 9 which is “DOWN”.

*10 Second Delay between pictures, 24 Hour Recording, Sierra-Type Digital Camera Mode, Control LED On, PIR LED On.*

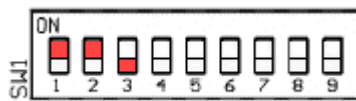
**Red indicated the switch position for all graphics below.**

**Delays Between Pictures Setting**

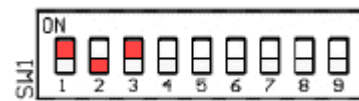
Switches 1, 2, and 3 control the delays between pictures.



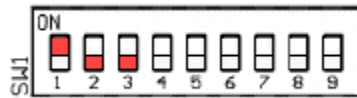
*10 Seconds Delay*



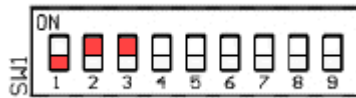
*20 Seconds Delay*



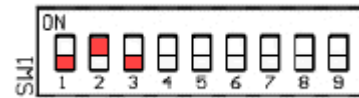
*45 Seconds Delay*



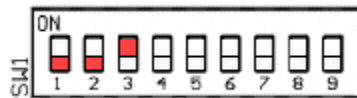
*1 Minute Delay*



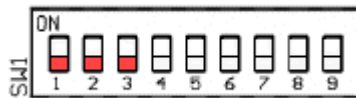
*2 Minute Delay*



*5 Minute Delay*



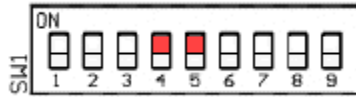
*10 Minute Delay*



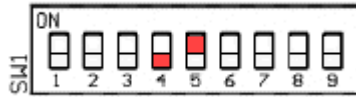
*20 Minute Delay*

## Day/Night Operation Settings

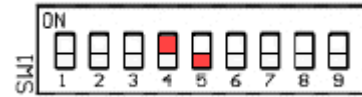
Switches 4 and 5 control Daylight, Night Time, and 24 Hour recording or pictures.



*24 Hour Operation*



*Night Only Operation*

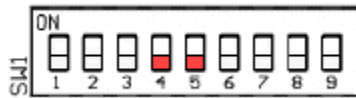


*Day Only Operation*

## 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.

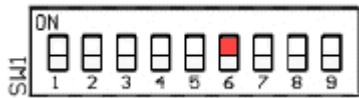
**Note:** To put the PixController back into "Photo Taking Mode" change the switch settings of switch 4 and 5 to one of the three options above under the Day/Night Operation Setting, and power the PixController unit Off and On from the external power switch.



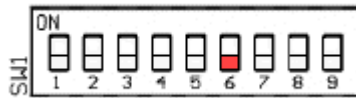
*PIR Walk-Test Mode*

## Digital Still or Double Photo/Movie Mode

Switch 6 sets the type of Digital Camera that is connected to the Camera Control Boards RS-232 serial port.



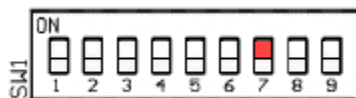
*Still Mode*



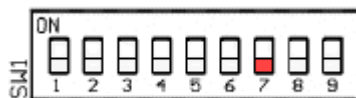
*Double Photo or Movie Mode*

## Movie Length

Switch 7 controls the delay between photos in double photo mode, or the length of the movie taken if the camera is setup in movie mode.



*10 seconds*



*15 seconds*

### **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.



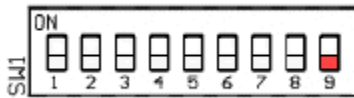
*Control LED On*



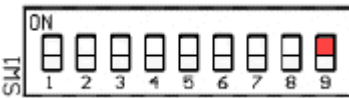
*Control LED Off*

### **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.**

Copyright ©, PixController, Inc. <http://www.pixcontroller.com>, all rights reserved.

PixController, Inc.  
2610 Haymaker Farm Road  
Export, PA 15632

