

### Initial Setup:

1. Run Windows *CoolTerm* (<http://freeware.the-meiers.org/CoolTermWin.zip>) or similar terminal program
2. Turn on Parallax Electronic Badge with ON/OFF button on right side
  - a. Recharge with USB Micro-B connector if needed

### Test Procedure:

3. Connect OpticSpy's USB Mini-B connector to host PC
4. 3V3 LED = YELLOW
5. C13 cathode (marked) =  $3.3V \pm 1\% = 3.26V$  to  $3.34V$
6. Adjust R12 to set TP4 to  $2.5V \pm 1\% = 2.47V$  to  $2.53V$
7. Set SW1 towards DATA INVERT
8. Open Windows *Device Manager* to determine USB Serial Port COM number assigned to OpticSpy (ex.: COM12)
9. Set Connection Options in terminal program to the specified COM port, 9600 baud, 8 data bits, no parity, 1 stop bit
10. Open Serial Connection (Connect) in terminal program
11. Hold OpticSpy sensor (D1) to the Parallax Electronic Badge IR-OUT LED at a distance ~1-2 inches away
  - a. RXD LED = Blinking YELLOW
  - b. Terminal program should repeatedly display text:  
Secret Message!
12. Close Serial Connection (Disconnect) in terminal program
13. Remove OpticSpy from host PC

### END OF TEST

Refer to video demonstration of terminal program at <http://youtu.be/GINChkzPXZE>

