* 30W of power used by cameras
* ATV < 1W of power << 100mA
* Plan on 3A for the board
* System is on until force it off
* NTSC <1V is going to need an analog switch since it’s so small
* Check the cameras amp draw at 5V
* Can take up to 20V so feed them right off the main battery
* Resistor on the opto-isolator diode...and 10k resistor
* Want something to take a long pulse
* Video and analog audio to transmitter
* want power off switch p-channel usually on but when shorted it will be off for safety like in the recovery board
* 4 pin connector for transceiver
* **Go get analog single ended 2:1 multiplexer SPDT low level takes 5V**
  + Look for analog switch…bi-direction analog line
    - One in SOT-23-5 package
  + Current one requires differential voltage
* RC is never exact and never worth being exact
  + Buy 7.2uF cap and buy the resistor
* The input trigger voltage on the data sheet of the timer… is actually trigger input voltage threshold
* **ATV transmitter will be off the 5V supply** 
  + Pulling like 3A so need a large pack plan on half hour
  + 2Ah look for hobby battery look for standard balancing charger port
* Check out the CAD from LV3.0 to hold the battery and circuit