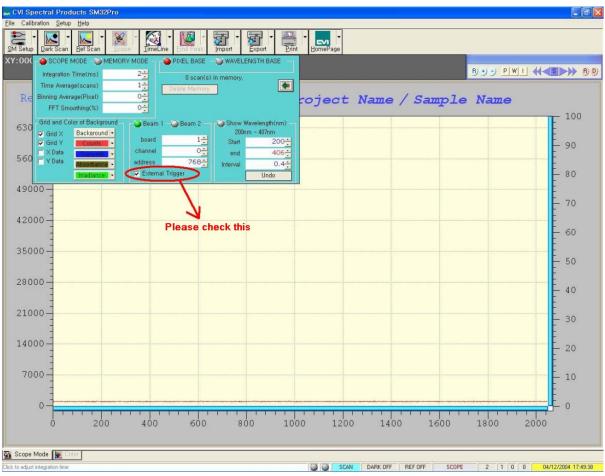
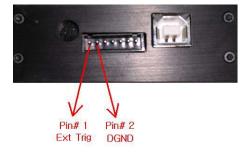
Check the External Trigger Option in SM32 Setup Tool Box.

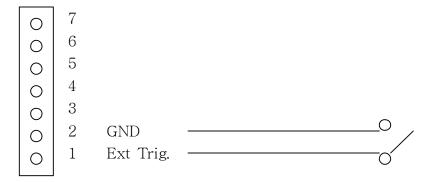


In back-plate of the SM240, there is a 7 pin connector. The pin#1 (TTL Signal Input) and pin #2 (Digital Ground) are related to the external triggering (ref, below)



There are two methods for external triggering. One is using an electrical (or mechanical) on-off switching system. The other is using a TTL pulse training (3.3V or 5V) generated by a function generator.

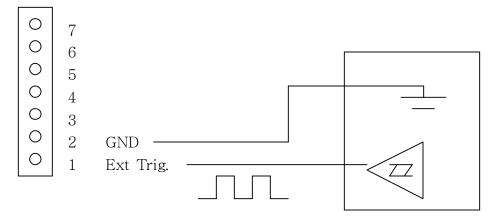
Method 1) On-Off Switch



First, make a mechanical or electrical on/off switch (such as a "Relay") and connect both terminals to pin# 1 and pin# 2.

When the switch is on, the signal is triggered and you can capture the spectrum, and when switch is off, the signal holds.

## Method2) TTL Pulse



If you are using an external TTL sources (3.3V or 5V TTL Train Source), just connect the TTL line to pin#1, and connect GND to pin#2. During the TTL train running, the triggering will happen when TTL signal drops (Falling Edge Triggering).

For synchronizing the in/out signals between the external triggering source and our USB board, the period of the TTL signal should be larger than "CCD Integration Time + ~ 15msec" (USB2.0).

The "~15msec" is a data transferring rate via USB2.0 and it can vary according to the computer performance (CPU speed, Memory speed and so on).