

Application Note for CCS/SOA LabVIEW Programming





Aero

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1. LabVIEW's VI and GUI functions

This array associate the VI with the GUI interface.











1.1. Current source

This two positions switch controls the current source.



External source (BNC or manual knob)

Internal source (software)

Please use the Set_Current_Source.vi to change the current source.

1.2. Trigger

You can set the synchronization line which trigger pulses with the Set_synchro.vi. There are 3 modes :

- 0 : External TTL/LVTTL
- 1 : External LVDS (optional SMA inputs)
- 2 : Internal clock

1.3. Set delay line

You can set the delay line in 2 different mode :

- 0: NONE (SMA TTL/LVTTL input)
- 1 : Internal





Set current 1.4.

Firstly, please change the current mode (CW or pulse) with the Jumper on the board. Then you have to use the Set_Current_Source.vi and choose the internal source (0 = external (BNC); 1 = internal). Now you can change the current value with the Set_current.vi.

If the board is in pulse mode you can add an offset current with the Set_offset_current.vi.

1.5. **Apply request**

The VI Apply_request.vi is necessary after a succession of set .vi like set_curretn.vi , set_laser_status or set_pulse_width.vi.

1.6. An example



mode Set Synchro (0 : External TTL/LVTTL (SMA input), 1: External LVDS (optional SMA inputs), 2 : Internal clock)

