

AVATRIGGER ACCESSORIES

Operation and Installation Manual



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AvaTrigger-USB2 External Trigger Box Operating Manual

The AvaTrigger is a trigger source that can be used to trigger an AvaSpec-USB2/EVO spectrometer. The AvaTrigger has two different settings for external triggering, i.e. an optical trigger and a pushbutton trigger.

The 3-position switch should be set into the left position to use the optical trigger. If triggers should be generated manually by the pushbutton, set the switch to the right. The trigger box is switched off by setting the switch in the middle position.



The optical trigger is useful to measure pulsed light sources, the AvaSpec can start integration time within 1.5 microsecond (depending on the model) after the optical signal starts, or a user specified delay time later if the spectral output against time needs to be measured. The optical trigger has an SMA905 connector to easily couple to our comprehensive line of light sources and accessories through SMA couples fiber optics. The sensitivity of the optotrigger can be adjusted by a potentiometer at the front side of the AvaTrigger. The green LED at the front side shows a short pulse when a TTL pulse is put at pin 4 of the DB15 connector at the backside of the AvaTrigger box.

The AvaTrigger comes with an IC-DB26-2 interface cable. This cable needs to be connected between the AvaTrigger and the AvaSpec-USB2/EVO spectrometer.

Technical Data

Trigger Input	Opto	Pushbutton
Internal Delay time to TTL output	Ca. 300 ns*	20 μ s
Power consumption	5 mA @ 5VDC (internal)	
IO connectors	DB15 at AvaTrigger 3 10 4	DB26 at AvaSpec-USB2 15 1 6
Dimensions	75 x 78 x 37 mm	
Weight	260 g	

*depending on the slew rate of the light source