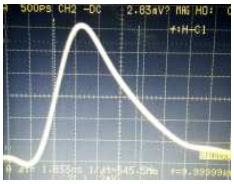
LiDAR-*pal* product family

A family of board level sub-modules for LiDAR system development. Boards are compatible with 1 inch lens mount and tube systems to enable assembly of novel system designs from off-the-shelf components.

Pulse laser diode driver

Based on pulsed current driver with proprietary switching technology and compliance voltage up to 100V. The driver is impedance mismatch tolerant and drives ns pulses in most TO can laser diodes.

Parameter	Specification
Pulse width	1-5 ns
Peak current	500 mA
Trigger	5 V TTL
Supply voltage	+5 VDC



Modulation diode driver

Constant current driver with fast PID control and analog setpoint via coaxial input.
Drives single or multi tone current up to 10MHz in most TO can laser diodes.

Parameter	Specification
CW current max.	200 mA
Control	0-2 V (50ohm)
Supply voltage	+7.5 VDC

Biased PD

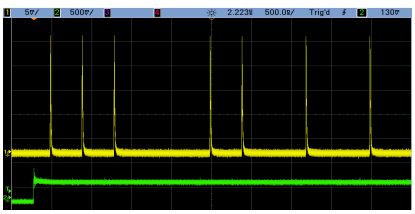
PCB for reversed biased photodiode measurements. Output is 50 ohm DC coupled for high speed and linearity. A valuable laser transmitter characterization tool with the convenience of compatibility with 1 inch diameter lens mount and tube system. Accepts most two and 3 pin photodiodes.

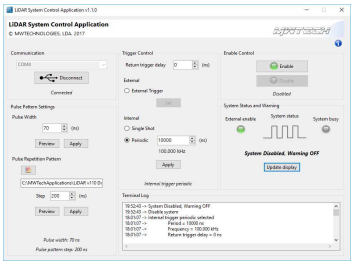
Trans impedance PD or APD amplifier

5000 times electrical gain amplifier with 500MHz BW. Separate PD or APD biasing pin allow biasing in the range - 5V to - 150V for use with various 2 or 3 pin packed PD and APD components.

Master pulse controller

Master controller with signal pattern generator and received signal conversion. Does the job of more expensive benchtop signal generators and samplers in a convincing LiDAR technology demonstrator.
With USB interface and dedicated software control application.





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