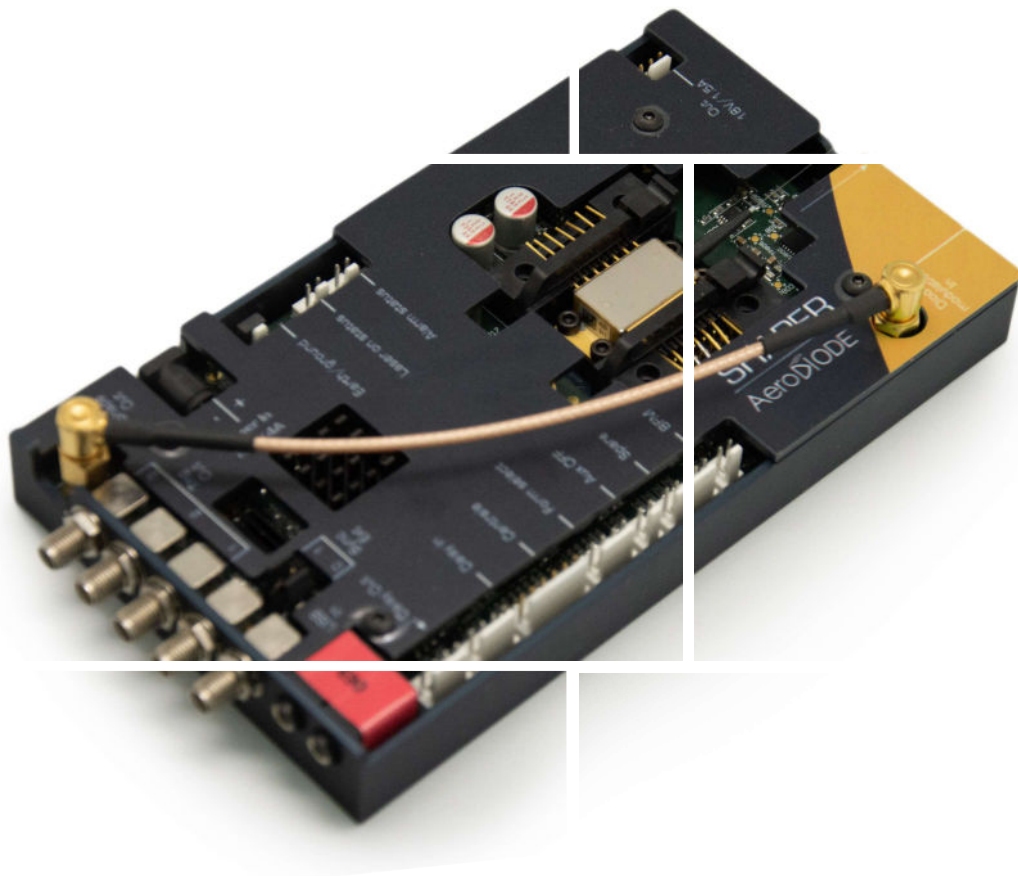


Laser Diode Driver

For precision temporal pulse shaping

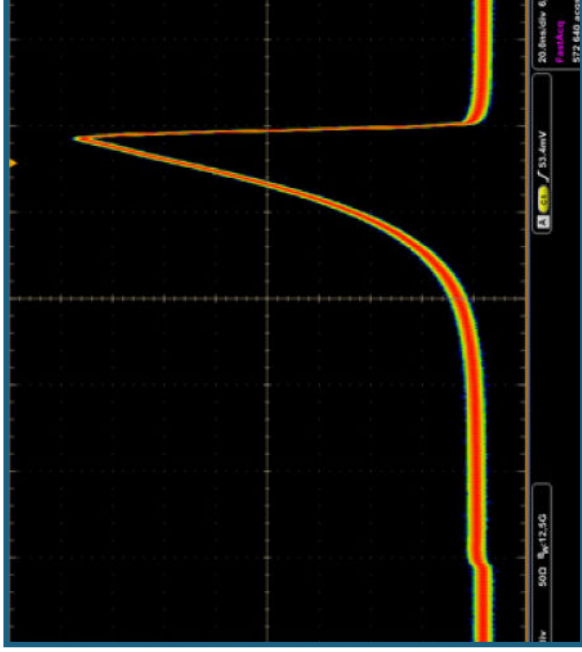
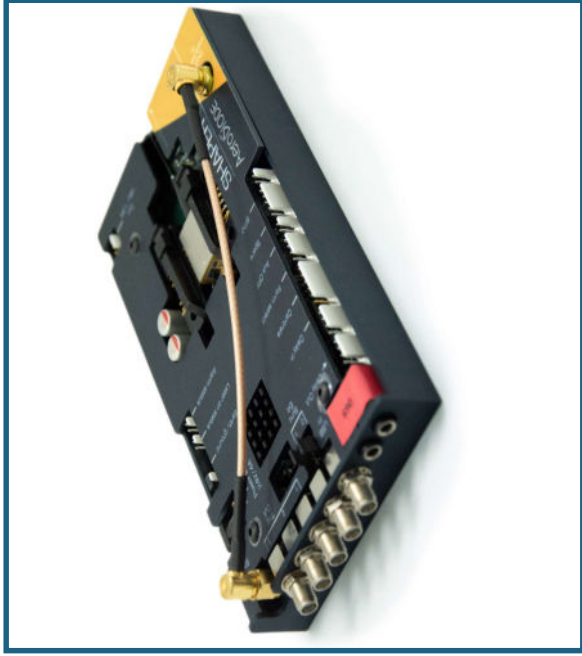


Aero  DIODE

Laser Diode Driver

For precision pulse shaping

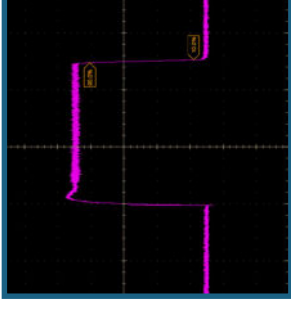
This high-speed laser diode driver generates any pulse shape with nanosecond pulse duration. It is a multifunctional unit with integrated AWG (Arbitrary Waveform Generator), TEC controller & multiple pulse delay generators for signal synchronization. 2 models for either direct (laser diode) or external (EOM or AOM) pulse modulation. (Note : EOM=Electro-Optic Modulator ; AOM = Acousto-Optic modulator)



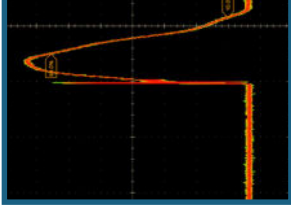
Key features :

- Direct modulation of ns laser pulses with any shape
- 0 to 1.6 A output current with 16 bit/48 dB/30 μ A resolution
- Integrated pre-configured mounting sockets for type 1 butterfly laser diode (type 2 on request)
- User set pulse shape from 500 ps to 8 μ s with 0 - 20 MHz repetition rate

Technical S



1 A, 100 ns square pulse



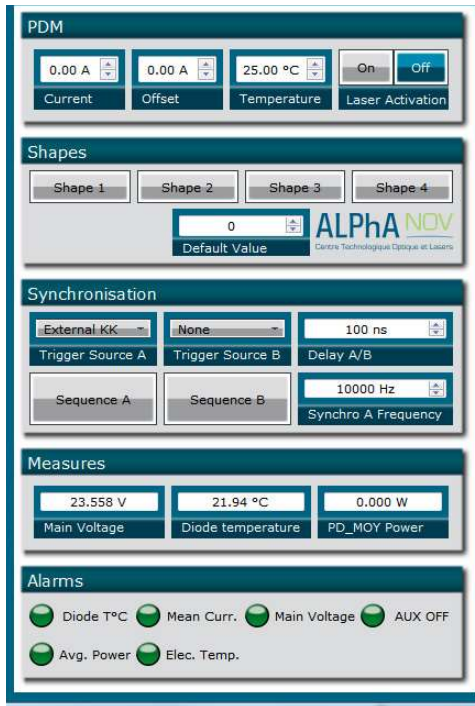
1.5 ns pulse

Laser diode driver

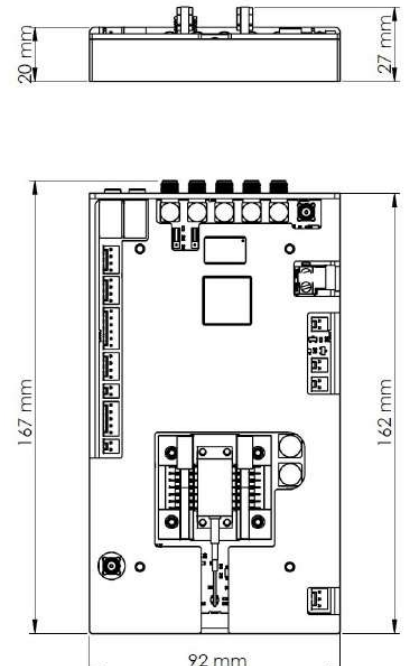
Pulse mode	External modulator driver (EOM or AOM) : See diagram last page or our fiber modulator tutorial for more precisions
Peak current	
Pulse shaping	
Pulse shaping	
Jitter (internal trigger with internal 10 MHz ext)	
Pulse current	
Laser diode G	
Jitter (internal	
EOM/AOM*	
EOM/AOM*	
Output voltage	
Number of out	
Synchronizati	
Pulse Delay Generators outputs (for externalm equip-	

Technical Specifications

GUI control software

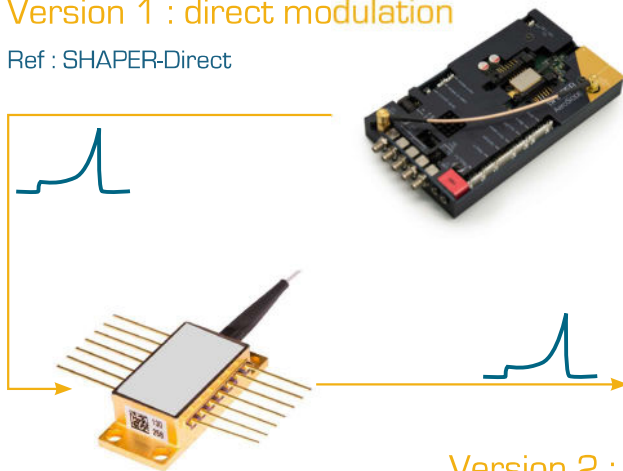


Mechanical



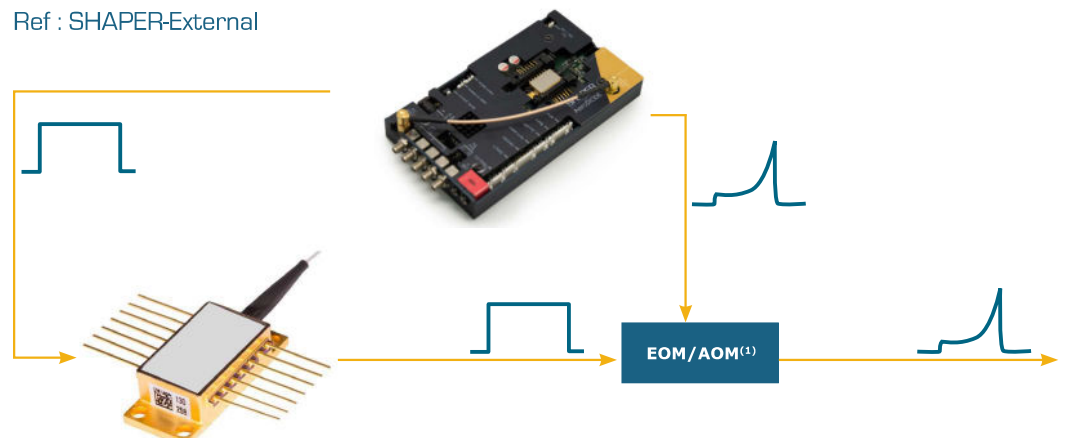
Version 1 : direct modulation

Ref : SHAPER-Direct



Version 2 : external modulation :

Ref : SHAPER-External



⁽¹⁾ Electro Optic Modulator / Acousto Optic Modulator