

High Power and Programmable Laser Diode Driver

Description

The **OELDD-MCU-35A** model is a compact, high efficiency (more than 90% efficiency) and large current driver for high power laser diodes. The **OELDD-MCU-35A** is programmable laser diode driver based on micro processor (MCU). It can be operated in either pulsed or continuous mode to provide high current to laser diodes. The pulse mode can be set up either manually, by software or external triggering. With the minimum and maximum output current defined in all pulsed modes, **OELDD-MCU-35A** is an ideal source for laser diode acting as CW pump or pulse pump to reduce the ASE noise and to increase laser signal noise ratio. The **OELDD-MCU-35A** is suitable for a very wide range of applications of CW and pulse fiber laser, fiber amplifier and fiber sensing.

Features

- Software interface
- Computer controlled and stand-alone operation (toggle switch to select between them)
- CW or pulse mode operation
- High efficiency
- Both internal and external trigger
- Real-time display of current

Application

- Pulse Fiber Laser
- CW Fiber Laser
- Fiber Amplifier
- Fiber Sensing
- Biomedical
- Instrumentation

Specifications:

Parameter	Value
Output Current (Maximum) (CW)	35A
Minimum and maximum output current threshold	Adjustable
Duty Cycle	1 to 50 %
Pulse Width	20 μ s to CW
Pulse Repetition Rate	CW to 10 kHz
Output triggering	TTL
Power Requirements	12-24 V DC
Computer Interfaces	USB
Dimension	100 mm x 90 mm

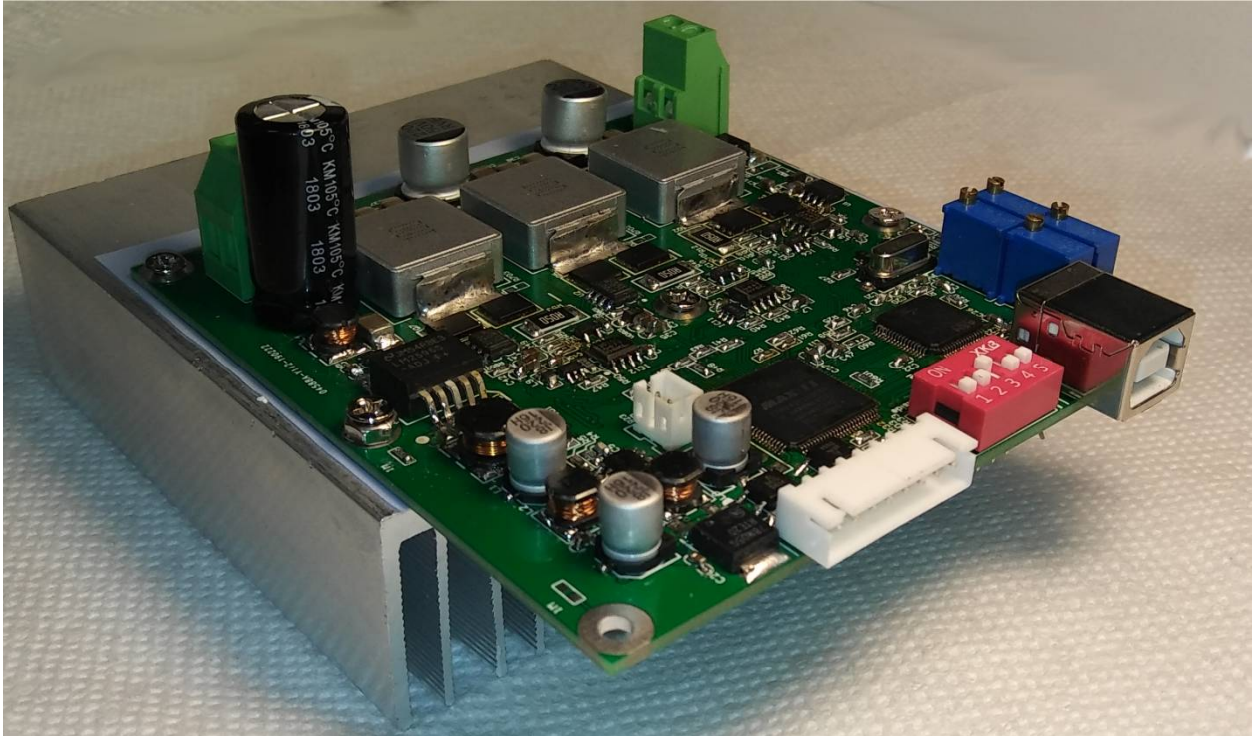


Figure 1: OELDD-MCU-35A

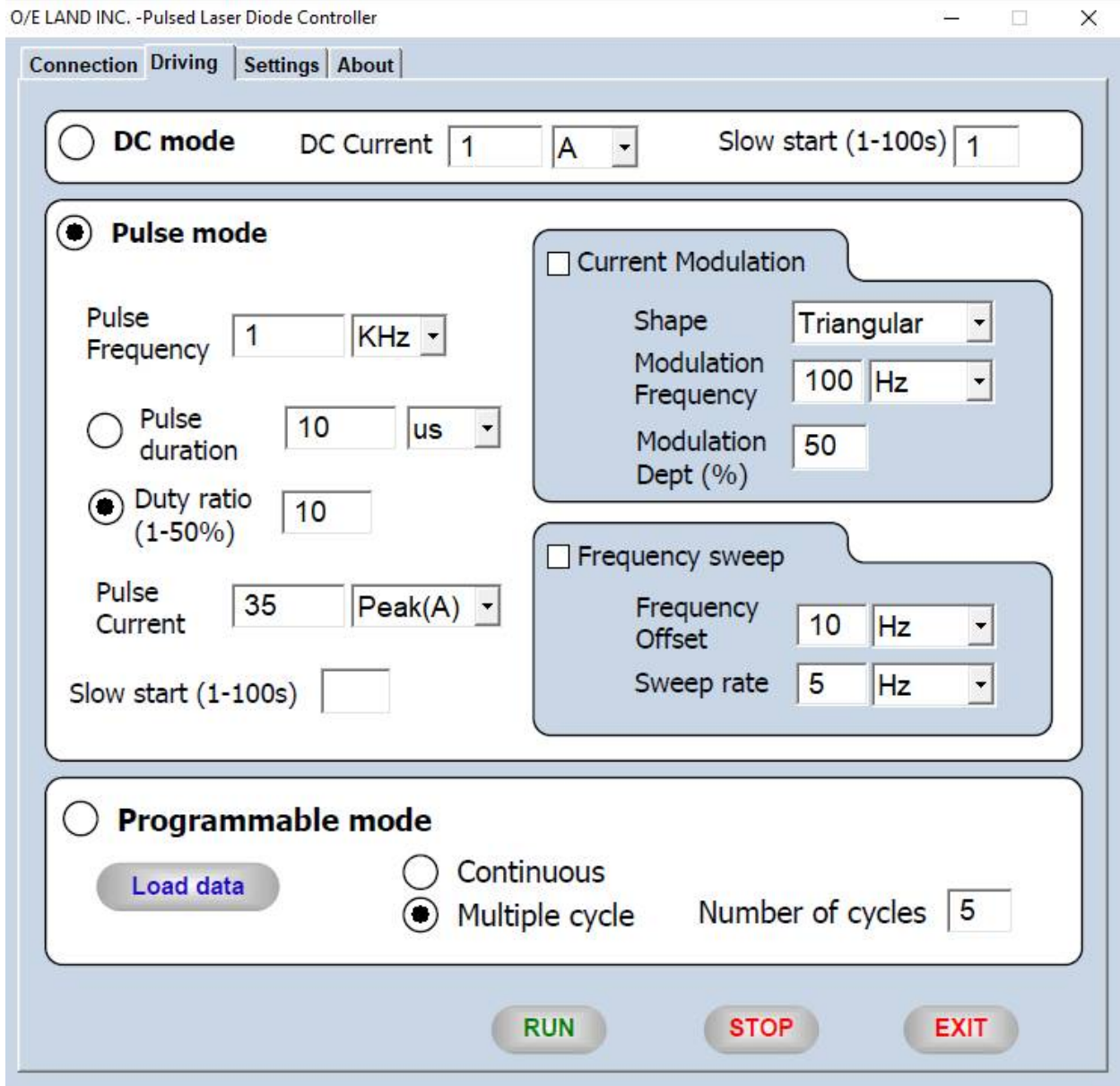


Figure 2: Software interface of OELDD-MCU-35A

Note: Other specifications are available upon request, All specifications are subject to change without notice