



# Laser Interface Box Datasheet

*Power and modulate without the inconvenience  
and cost of building test circuits or wiring looms*

# Laser Interface Box

The Laser Interface Box from Global Laser is used to power and modulate most of Global Laser's range of laser diode modules without the inconvenience and cost of building test circuits or wiring looms.

An on-board BNC input socket allows you to connect the Laser Interface Box to your existing function generator. In this way, you'll have the ability to modulate compatible laser diode modules with minimal effort.

A toggle switch lets you quickly transition between modulation and CW operation. Increasing the safety of your application, an interlock jack is located on the exterior of the Laser Interface Box and a jack plug is provided. An LED indicating the ON/OFF status of laser emission is also present for an additional layer of safety.

Two models of the Laser Interface Box are available. The first is compatible with laser diode modules requiring a 5Vdc power source. The other is compatible with laser diode modules requiring a 10Vdc power source. A cable to connect the Laser Interface Box to the required laser is available as a separate item.

Included with the Laser Interface Box is a 110/240V power supply with UK, US, Euro & AUS plugs.



# Specification

	Laser Interface Box
Mass (g)	265 (excluding power supply)
Dimensions (LxWxH) (mm)	80 x 75 x 52
Housing Material	Black Anodised Die Cast Aluminium
Input Voltage (Vdc)	110/220VAC (via included adaptor)
Output Voltage (Vdc)	5 or 10
Output Current (mA)	500 Max
Adaptor Plug Type's	UK, Euro, USA & Aus Included
Operations Modes	CW or Modulation
Voltage Input Connector	2.1mm Jack Plug
Modulation Input Connector	BNC 50Ω
Laser Connector	Binder 4 Pin
Interlock Connector	Audio Stereo
Laser Power Switch	Rocker
Emission Indicator	White LED

## Interlock Enable Input

An interlock enable input is fitted to the Laser Interface Box. This function is enabled via an audio jack socket on the rear of the unit.

The laser output is enabled by connecting the outer and inner pin of the audio jack socket. This can be achieved using the supplied audio jack plug.

The interlock also allows you to switch the laser on and off via a remote input such as a door switch or micro switch on a safety guard.

## Operational Modes

A toggle switch is located on the face of the Laser Interface Box to allow you to quickly transition between modulation and CW operation.

### A) Modulation Mode

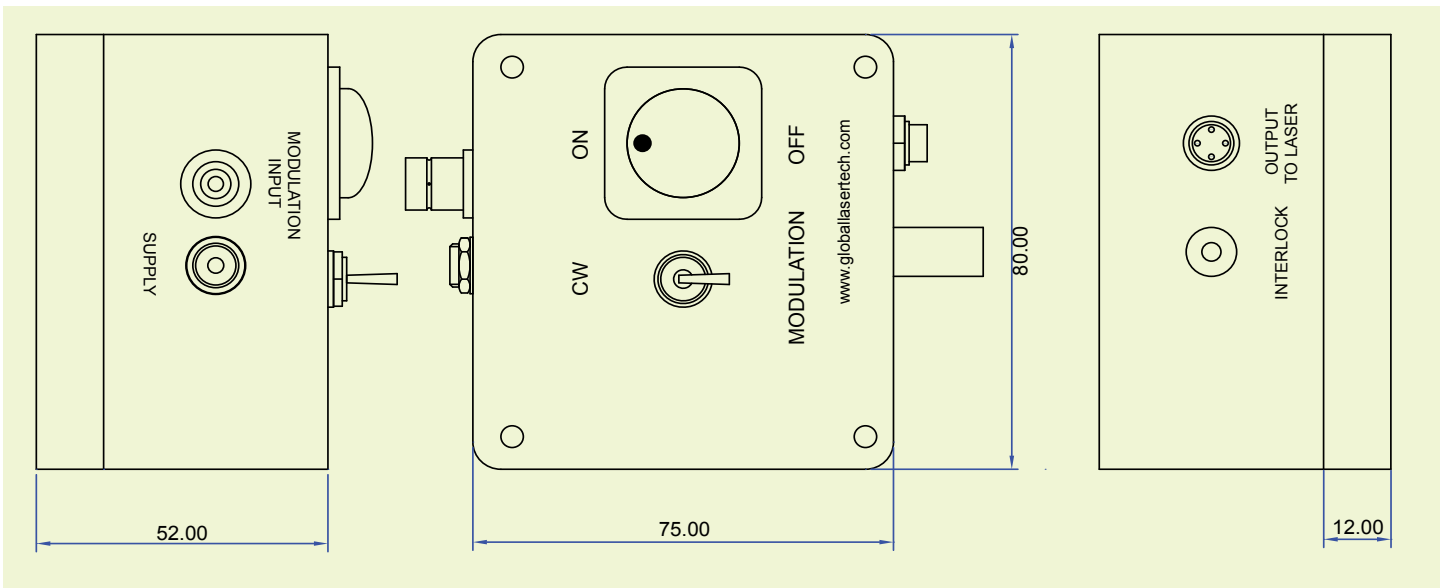
A BNC input is located on the rear side of the laser interface box. In modulation mode you must connect either a function generator or another device capable of providing a modulated signal to the BNC input. Note that CW-only lasers run in CW even when the Laser Interface Box is in modulation mode.

### B) Continuous Wave (CW) Mode

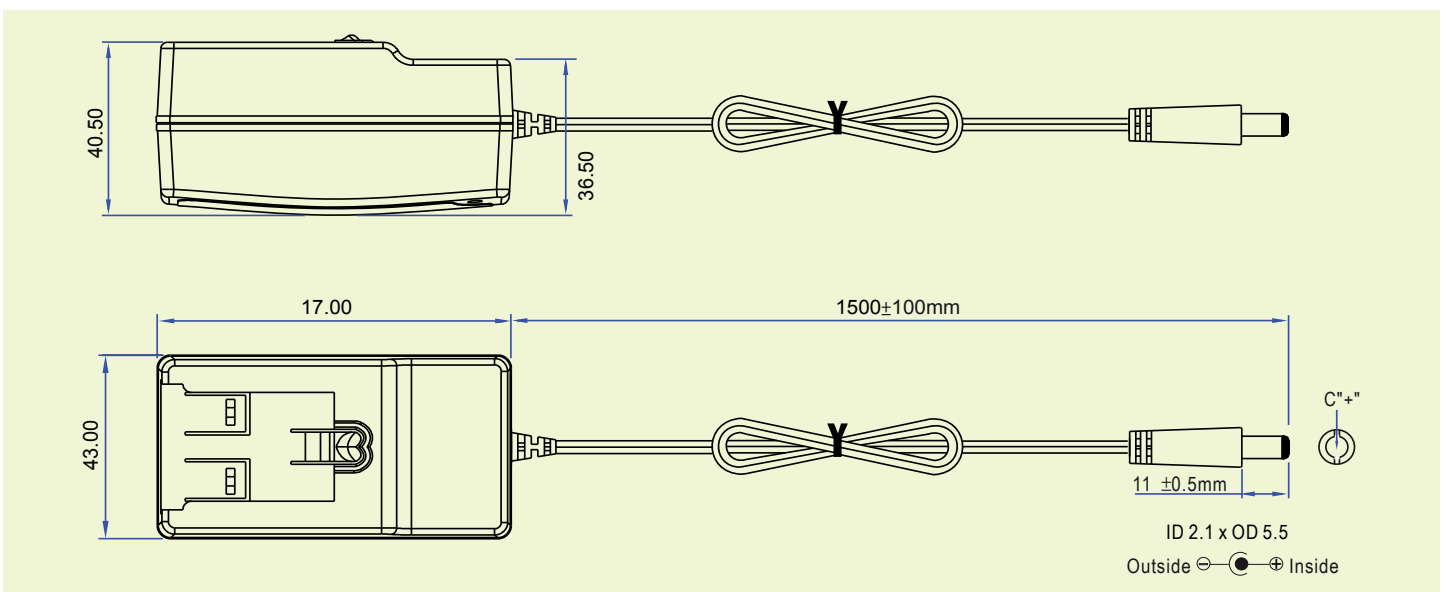
In CW mode your laser will continuously operate regardless of any modulated signal provided to the BNC input.

# Mechanical Dimensions

## Laser Interface Box



## Power Supply



Please Note: Global Laser reserve the right to change descriptions and specifications without notice.

