

Thermo NESLAB

Shipping Check List

ATTENTION CUSTOMER: *Do not discard carton or packing materials.
Inspect carton and unit for damaged incurred in transit. If the unit is
damaged, you must save the carton for inspection by the freight company.*

Model: M33 STD 115/60 PD2

Serial Number: 103073018

BOM: 263112040000

- Unit clean.
- Unit inspected for cosmetic flaws.
- Unit Cords and fittings properly packaged.
- Cover secured (if applicable).
- Tank Isolation Valves in NORMAL Position (If applicable).

The following items should be included with this unit.

- End Item Inspection card (if applicable)

Item #	Description	Qty	UOM	Stock
<input checked="" type="checkbox"/> U00753	INSTR MAN, MERLIN, NEW PLUMBING	1	EA	MRFIN
<input checked="" type="checkbox"/> 012617	ADAPTR, POLYETHYLENE 1/2X3/8	2	EA	07124
<input checked="" type="checkbox"/> 012638	ADAPTOR, NYLON, 1/2" X 1/2"	2	EA	0713C

This unit packaged with pride by 

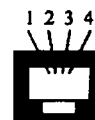
Please phone Thermo NESLAB Sales Department if you
have any questions regarding the equipment you ordered.
(800)258-0830 (603)436-9444 fax (603)436-8411
25 Nimble Hill Road, Newington, NH USA 03801

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increase or reduce the longitudinal oscillating modes of the laser, and may increase or reduce the output noise. Turning the current adjusting screw counter-clockwise will reduce the LD current and will reduce the green laser output in the most cases but not always, and may prolong the life time of the laser diode. Turning the current adjusting screw clockwise will increase the LD current and will increase the green laser output in the most cases but not always.

The socket of the remote INTERLOCK is at the rear board.
Short-circuiting the pin 2 and pin 3 will keep the laser on.

For TTL option laser, applying the TTL signal on Pin 1 and Ground Pin 4 in the connector to control the laser on/off.



REMOTE INTERLOCK
SOCKET

Never apply electricity voltage exceeding +/-5 volts on the pins of the socket. For modulation the laser output, we recommend 0 V (laser off) and 3 to 5V (laser on) level square signals (on pin1) to modulate the green laser output. The required output resistance of the TTL circuit < 500 Ω .

The laser power supply is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace the plug. Do not defeat the purpose of the grounding-type plug. Power consumption of the laser system is 15 Watts maximum.

The steps of operation:

1. Read the laser safety directions and the operation directions above.
2. Connect the laser head and the laser power supply. Make sure that the Serial No of laser head and the Serial No of the power supply is the same. Connect the remote interlock properly.
3. Turn off the master key switch.
4. Plug into power outlet.
5. Turn on the white power switch. The laser head starts warm up. After >30 seconds delay, turn on the master key switch by authority person. The laser will emit TEM₀₀ mode from the aperture after laser warm-up. The total warm up time is about 2 minutes. After 3 minutes the laser output will be stable. If the output beam is not TEM₀₀ mode or the output does not meet the specifications, please turn off the key switch, and turn it on again soon.
6. Use the master key switch to turn off the laser, then turn off power switch.

If the laser has any problems, please contact with us. Do not attempt to service this product yourself. The housing or cover of the laser head is fixed and is not removable.

Caution: As opening or removing the housing of the laser head or the cover of the power supply may expose you to the danger of laser radiation, and the risk of electric shock, and may cause the laser system failure. **Do not open the housing of the laser head or the cover of the laser power supply.**

If the laser needs to be returned to us, please contact us to receive an RMA number. You may fill out the RMA form on the web site: <http://www.crystalaser.com/rma>

Please ship the laser well packaged, prefer using the original box, through UPS and prepaying freight.

Product Package

Check the contents of the laser system package. The package should include the following items:

- | | | |
|------------------------|-----------------------|----------------|
| 1. Laser head | 2. Laser power supply | 3. Power cord |
| 4. Interlock connector | 5. Master key | 6. This manual |