

Important: Read before using

LaserMetronome™
Operating/Safety Instructions

The logo for LaserMetronome, featuring the word "Laser" in white on a black background and "Metronome" in orange on a black background, with a thin orange horizontal line above the text.

Safety & Protection

WARNING: Read and understand all instructions before use. Failure to follow all instructions may result in electric shock, fire or serious personal injury.

1. Never aim the LaserMetronome™ laser beam at a person or animal's eye.
2. Do not leave the LaserMetronome™ operating unattended.
3. Do not stare into the beam or view directly with optical instruments.
4. Do not look directly into the LaserMetronome™ laser beam or aperture opening.
5. Lasers can be reflected off of mirrors, glass or shiny surfaces, check for reflections before actual use.
6. Do not set up laser such that people are present or can walk between the device and the surface displaying the laser.
7. Do not disassemble or tamper with this device. This can cause injury or hazardous radiation exposure. No user serviceable parts are inside. Opening the LaserMetronome™ will void the warranty.
8. Keep the LaserMetronome™ away from water and other liquids.

Specifications:

Model Number: LM-M

Recommended use: Indoors

Power Supply: 12v via AC adaptor

Operating Frequency: 60 to 210 beats per minute

Laser Class: IIIa

Max power output: <5mW

Wavelength: 630-680 nm

Operating Temperature: 35 to 100 degrees Fahrenheit

Instructions:

- 1) Connect the 12v adapter and plug it in.
- 2) Connect a midi cable from the midi output of DAW, drum machine (or even your cell phone using a microUSB->usb cable, a usb midi interface and an app like G-Stomper.
- 3) **Make sure your DAW software (Sonar, Pro Tools, etc.) is set to transmit midi clocks and that start/stop/continue commands are enabled.** Turn on the power switch and the laser will home itself. Hit play or record and the Laser Metronome will follow the tempo sent to it.

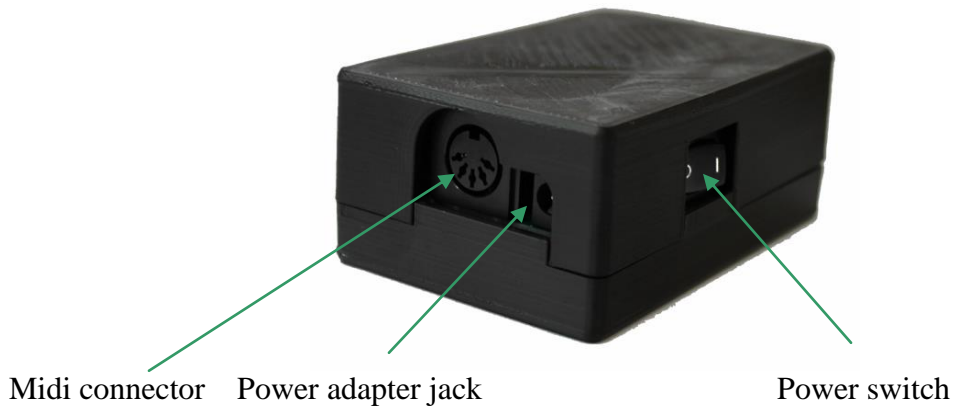
Feature and Control identification:

Front:



1. Laser Aperture: Laser Light is emitted from this slot. Do not look directly into this opening or shine the laser at a mirror, glass or other reflective surface where the light can reflect back directly into someone's eyes.

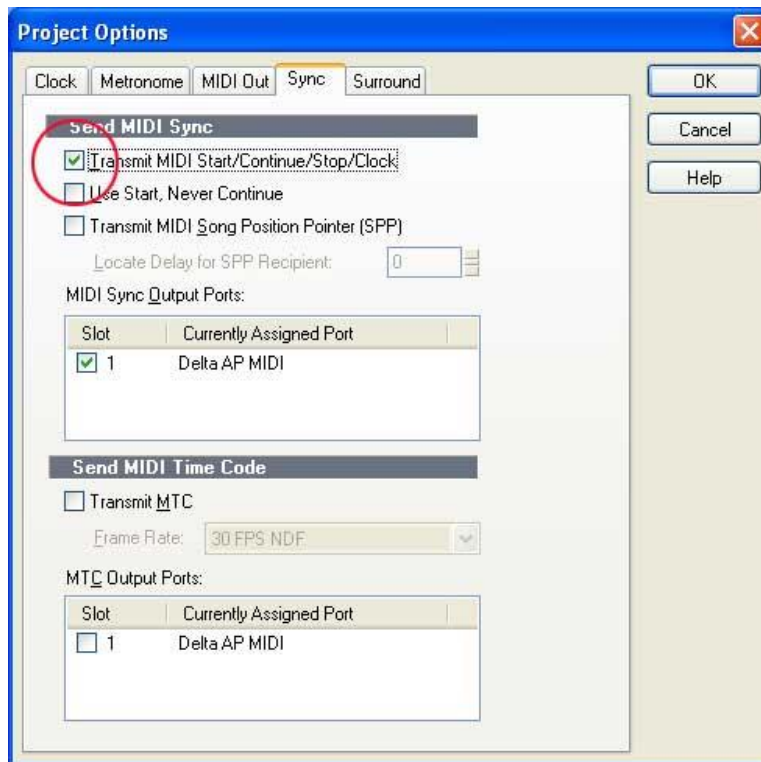
Rear:



1. Midi DIN input jack: 5-pin DIN jack for midi-in connection. . The midi signal needs to be from a full strength signal path and not after a passive splitter
2. Power is supplied via the AC adaptor to the connector. Once power is connected, put the power switch in the on position. The laser will blink once.

3. The laser will not illuminate or keep time until a midi start command is received from the source (DAW, Drum machine, sequencer etc.). Please make sure that your DAW is set to transmit.

Below is a screen shot from Sonar 5 (Options|Project|[Sync tab]). Typically, drum machines and hardware sequencers will not require any configuration.



Operation

Overview:

Simply plug a midi cable from your DAW, sequencer or drum machine into the LaserMetronome™ . Plug the AC converter into an outlet and connect to the LaserMetronome™ and power the unit on with the switch.

Placement:

Place the LaserMetronome™ so that the beam will not shine into peoples' eyes or reflect off glass back into their eyes. Avoid dropping the unit.