



Operations Manual

M-124-LiPO Rechargeable 9V Battery Pack

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M-124-LiPO Rechargeable 9V Battery Pack

Hamar Laser's new M-124-LiPO Rechargeable 9V Battery Pack provides an alternate power source to our 9V A/C power supply. The rechargeable battery pack can be used to power most of our scanning and straight-line lasers.

Features of the battery pack include:

- Powers all L-730/L-740 Series Scanning Lasers and the L-705/L-706/L-708 straight-line lasers.
- 10,000 mAh of capacity with LED battery Life indicator
- Retractable hook to hang the unit on any surface, such as the L-106 Instrument Stand
- Powerful magnets secure the battery pack to any magnetic surface
- Lasers can be used while the battery pack is plugged into the A/C charger.

Laser Battery Life* with M-124-LiPO

L-730/L-740	48 hours
L-732-L-742	32 hours
L-733/L-743	16 hours
L-705/L-706/L-708	100 hours +

*Estimated times with continuous use and all laser planes turned on.



Figure 1 – M-124-LiPO Rechargeable 9V Battery Pack

Using the Battery Indicator

- Press the button (ON/OFF) to turn on the M-124 LiPO Battery Pack and see the charge indication (see Figure 2).
- The four LEDs indicate the current state of charge.
- The LEDs turn off after three seconds.

Charging the M-124 Battery Pack

The M-124 Battery Pack comes partially charged. Please charge the new battery pack *completely* before using. Connect the battery pack with the power adapter using the DC Input port, (see Figure 4) being careful not to confuse it with the Output port (the connectors are different sizes – see Figure 4).



Figure 2 – M-124 Charging Indicators

The active charging function is indicated by a flashing LED. The number of lit LEDs indicates the current charge level of the battery pack during charging. When the M-124 is fully charged, all four LEDs are illuminated.

NOTE: Do not store the battery pack in a fully discharged state for long periods of time.

Connecting the Laser via the DC Jack (Output)

1. Connect the laser adapter cable to the **Output** port of the M-124. There are two cables: a 4 ft. curly and a 2 ft. straight cable (see Figure 3).
2. Connect the other end of the adapter cable to the laser, as shown in Figure 4.
3. Power on the M-124 and the laser. The device is now ready to use.

Once the battery capacity is used, the M-124 turns off automatically. If devices connected to the M-124 draw a current that is above the specified values, the battery pack turns off for safety reasons. Also, if devices are connected that only need a current that is below the specified current of the battery pack, then the M-124 also turns off after a short period. This means that the device cannot operated with this battery pack.



Figure 3 – Cables to connect unit to Output on laser

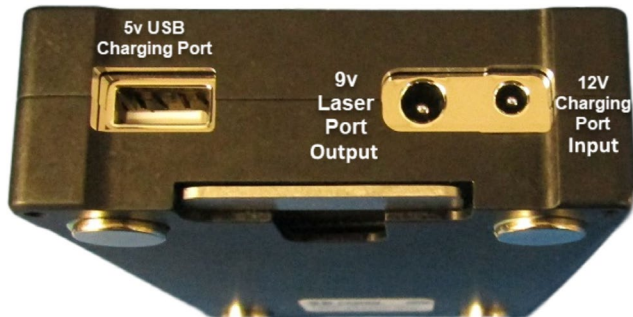


Figure 4 – Output/Input ports on M-124-LiPO Battery Pack

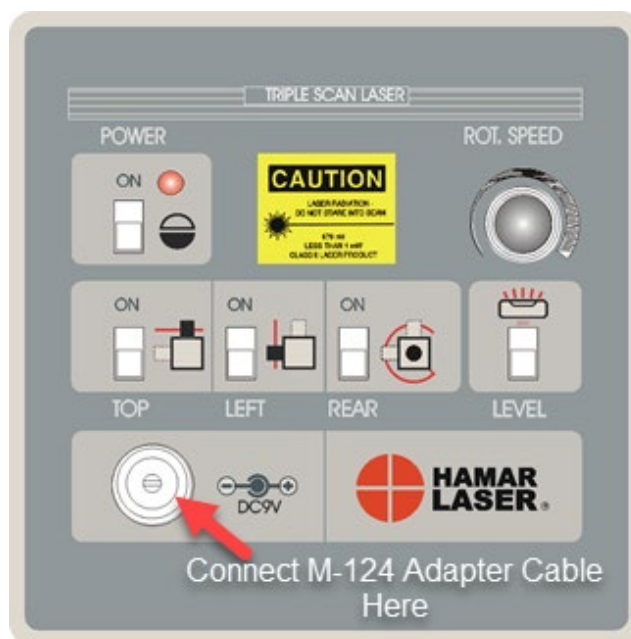


Figure 5 – Connection to Laser

CE Declaration of Conformity

This product bears the required CE marking according to Directive 2004/108/EC. The product meets the essential requirements of the European directives and regulations.

Safety

- Use only the provided power adapter for charging, otherwise you may cause damage to the device.
- The product is not suitable for children as it contains fragile and small parts that can be swallowed easily.
- Do not drop or immerse in water as the unit will be damaged.
- Do not expose to high temperatures or flammable gases.
- Please do not remove the housing.
- Do not directly contact metal to any ports, as this can lead to short circuits.

Warnings

- The unit may explode near or in an open flame.
- The unit should not be opened.
- Do not allow rechargeable batteries to come in contact with liquids.
- The Battery Pack connectors should not be short-circuited or brought into contact with metal.

Battery Pack Specifications

Technology	Lithium-Polymer
Capacity	10,000 mAh/3.7V/37 Wh
Output Voltage	5V/9V/12V
Output Current	1x USB 2100mA; DC 2000mA
Recharging Time	7-8 hours
Operating Temperature	Charging: 32° to 113° F (0 to 46° C) Operating: 14° to 140° F (-10° to 60° C)
Connections	1 x DC Out (OUTPUT) 1x DC In (12V INPUT)
AC Adapter	Input voltage: 100 – 240V 50 - 60 Hz Output voltage: 12V and 9V