PROGRAMMING INSTRUCTIONS

Plug the laser into an outdoor rated GFCI receptacle.

NOTE: When you first plug in the laser
- The default settings are:
  - Light Color: Red & Green Mode
  - Timer: 6 hours
- The laser light color may be adjusted/selected from the button on the laser housing.
- The time setting may be changed by pressing the button on the laser body
  a. IMPORTANT NOTE: Once you have plugged in the laser to start using it, do not unplug it until done using it in that location.

1. The laser will automatically turn on at dusk each day and run for the time programmed. It may take up to 10 minutes before the laser reaches full brightness.
   a. RED & GREEN MODE
      i. As mentioned, when the laser is first plugged into an outlet, this is the default setting.
      ii. RED & GREEN Mode
         To manually select this mode, press the button on the base of the laser until the laser projects red & green light. The laser must run through a full timer cycle, (one night’s use) for the color mode you selected to be saved to repeat the next night. The color mode will automatically be saved even when the button on the remote control is used to manually turn off the laser.
   b. GREEN MODE
      To manually select this mode, press the button on the base of the laser until the laser projects green light. The laser must run through a full timer cycle, (one night’s use) for the color mode you selected to be saved to repeat the next night. The color mode will automatically be saved even when the button on the remote control is used to manually turn off the laser.
   c. RED MODE
      i. To manually select this mode, press the button on the base of the laser until the laser projects red light. The laser must run through a full timer cycle, (one night’s use) for the color mode you selected to be saved to repeat the next night. The color mode will automatically be saved even when the button on the remote control is used to manually turn off the laser.
   d. POWER OFF
      i. To turn off the laser using the remote control, press the button. The laser will automatically turn on again the next evening at dusk in the last color and timer modes.
      ii. To turn off the laser manually, press the button until the laser turns OFF. The laser will automatically turn on again the next evening at dusk in the last color mode programmed.

WARNING

This product contains a built-in heater to protect the laser diodes (light source) from freezing. The heater must continue to receive power even when the light is turned off. Failure to maintain the electrical power to this product when temperatures drop below 32°F can cause permanent failure of the laser diodes.

It may take up to 10 minutes after the laser has been turned on for it to achieve full brightness.
sections of this manual before using this laser projector.

5. To operate properly, and to prolong the life of your laser projector, the laser must not be disconnected from the power source even when it has been turned off, until after you have stopped using it at the end of the season or event. Store it in a cool, dry place when not in use.

IMPORTANT NOTE: Be sure to read all of the safety information, cautions, helpful tips, and trouble-shooting sections of this manual before using this laser projector.

TROUBLESHOOTING

Problem: Laser Light Projector is too dim.
Possible Cause: The outside temperature is too cold.
Corrective Action: Allow the Laser Light Projector to up to 10 minutes to brighten to full intensity.

Problem: Laser Light Projector does not turn on at all.
Possible Causes:
• The outside temperature is too cold.

Corrective Action:
• Occasionally, if it is very cold, the Laser Light Projector will appear to be off for a few minutes before slowly turning on. Allow the Laser Light Projector up to 10 minutes to warm up to operating temperature.
• Check outlet to ensure flow of electricity.
• 3V CR2032 button cell battery. To replace spent battery, remove the battery compartment cover on the backside of the remote control. Twist the battery compartment cover clockwise (Fig. 5). To open the plastic battery compartment cover, twist the battery compartment cover counterclockwise with a coin or other flat tool, aligning the arrow on the cover to the UNLOCKED symbol (Fig. 6). Remove the plastic cover over the battery cell. Make sure the negative side (-) of the battery faces inward and the positive side (+) faces outward (Fig. 7). Align the arrow on the cover with the UNLOCKED symbol on the outside of the remote control. Twist the battery compartment cover to the right with a coin or other flat tool to align the arrow with the LOCKED symbol. Place the screw back into the designated compartment. Use the Phillips screwdriver, and twist clockwise to close the battery compartment (Fig. 8).

HELPFUL TIPS

The Laser Light Projector safely operates in temperatures from -26°C up to 32°C (-15°F up to 90°F). It has a built-in heater and fan to help it maintain temperatures from -26°C up to 32°C (-15°F up to 90°F). Each individual laser beam power is under 1mW. This laser display device incorporates a Class 3R/IIa laser product to the requirements of the US Federal Laser Product Performance Standard (FLPPS) contained in the regulations in 21 CFR Subchapter J, Class 3R/IIa laser products can be hazardous when directly viewed. Avoid direct viewing of Class 3R/IIa laser energy. For reference, the FLPPS requirements for demonstration laser products like laser pointers are limited to Class 3R/IIa levels of laser energy. This product uses diffractive optics to scatter the beam energy. This scattering effect causes the energy concentration to drop below the exposure limits for momentary or accidental viewing at a relatively short distance from the laser aperture. As similar with all bright light sources, when operating this device in unsupervised public areas, it is recommended that up close access to the Laser Light Projector be restricted or prevented.

SAFETY INFORMATION

This device is for use with a 110 - 125VAC power source. 120V AC/60Hz
• Do not use with an external remote control, timer or light switch, as the laser contains a heating element for operation in low temperatures that needs power at all times.

Problem: Remote control doesn’t work.
Possible Cause:
• The remote control is not synced to the laser projector.
• The distance between the remote control and the laser is too far at the time of operation.

Automatic corrective action:

1. To manually select the timer setting, press the button on the base of the laser until the indicator light next to the desired timer setting is illuminated.

2. The laser projector can receive signals from the remote control up to 24.38m (80ft) away. The following steps outlined in step 6 of the set up instructions:

To sync the remote control to the laser:
a. Turn off and unplug the laser from its power source. Check the circuit breaker in the main electrical panel to ensure that the breaker is set and has not been "reset" button on the base of the laser until the

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which is less than a standard laser pointer.

UNDER NO CIRCUMSTANCE shall attempts be made to open protective housing or operate the device if the aperture windows are damaged. Opening the Laser Light Projector housing voids any safety agency certifications (cETLus, FCC, FDA)

FAA AND TRANSPORT CANADA LASER SAFETY INITIATIVE

Aiming a laser at an aircraft is a serious safety risk and violates federal law. Lasers can cause temporary visual impairment for pilots who are trying to fly safely to their destinations and may be carrying hundreds of passengers. The FAA and Transport Canada are working with federal, state, and local law enforcement agencies to pursue civil and criminal penalties against individuals who purposely aim a laser at an aircraft.

FCC REGULATORY STATEMENT

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

Notes: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1. Reorient or relocate the receiving antenna. 2. Increase the separation between the equipment and receiver. 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. 4. Consult the dealer or an experienced radio/TV technician for help.

IC REGULATORY STATEMENT

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CAUTION / ATTENTION / PRECAUCIÓN

RADIACIÓN LÁSER. NO MIRE FIRMEMENTE EL FAISCEO NI LO OBSERVE DIRECTAMENTE CON INSTRUMENTOS ÓPTICOS. RADIACIÓN LÁSER. NO MIRE FIRMEMENTE EL FAISCEO NI LO OBSERVE DIRECTAMENTE CON INSTRUMENTOS ÓPTICOS. RADIACIÓN LÁSER. NO MIRE FIRMEMENTE EL FAISCEO NI LO OBSERVE DIRECTAMENTE CON INSTRUMENTOS ÓPTICOS.

This product complies with 21 CFR 1040.10 and 1040.11 and 532-635nm Max Output <3mW CLASS IIIa LASER PRODUCT

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