

AURA

ITA 03 Stand-alone grating laser



User manual

Any information and illustrations shown in this user manual are subject to change without further notice.

User manual version: 2.0 Creation date + author initials: 17-12-2013 RV Revision date + author initials: 18-02-2014 RV

Safety instructions



WARNING!



Always keep this device away from moisture and rain! Hazardous electrical shocks may occur!



WARNING!



Only connect this device to a matching power outlet. This device is intended to work on a specified AC currency. Connecting this device to power outlets with other voltages may result in permanent damage and possible hazardous situations, such as fire or electrical shocks!



WARNING!



Be careful with every operation of this device. Touching live wires inside and outside the unit may cause hazardous electrical shocks!

This unit must be operated by, or under the supervision of an adult. This device is not suitable for children.

Every person involved with the installation, operation and maintenance of this device has to:

- Be qualified
- Follow the instructions of this manual
- Make sure there is no damage caused by transport. If the device seems damaged from the outside, do not use it and contact your dealer for more information and consultation.
- To make sure the device maintains in perfect condition and for safe operation, it is necessary for the user to follow the instructions and warning notes of this user manual.
- Damage caused by improper use or modifications to the device are not covered by warranty.
- This device does not have any user-serviceable parts inside. Servicing of this device needs to be done by qualified technicians.

Important notes regarding safety and health:

- Never let the power cord come in contact with other cables. Handle the power cord and all connectors with the mains with caution.
- Never remove any warning or informative labels from the unit
- The ground contact always needs to be connected. Do not cover or remove the ground contact.
- Never leave cables lying around
- Do not open the device and do not modify any hard- or software of this unit.
- Do not insert this object into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the system on and off frequently as this will reduce the lifespan of the device.
- Do not drive the inputs of the fixture with a signal larger than required to work at full performance.
- Only use this device indoor, avoid contact with water, moist or other liquids. Do not place items filled with liquids on top of the unit.

Any information and illustrations shown in this user manual are subject to change without further notice.

User manual version: 2.0 Creation date + author initials: 17-12-2013 RV Revision date + author initials: 18-02-2014 RV

- Avoid nearby flames or heat sources, do not place this device near flammable liquids, gas or flammable items.
- Always disconnect the device when it is not in use for a longer period or time, when servicing is needed or when the device needs cleaning.
- Only handle the power cord by its connectors. Never pull the cable to remove a connector from its socket, as this could lead to damage and electrical shocks.
- Always operate this device with a stable AC current.
- Always operate this device with the AC ground wire connected to the electrical system's ground.
- Never use other types of cables than specified in the manual, do not use defective or bad functioning cables. Contact your dealer when the included or required cables do not work properly with this device.
- When the device has been exposed to large temperature differences (for example, transport from outdoor to indoor), do not connect the device immediately. Do not activate the unit until it has reached room temperature, as moist might build up inside the unit, which may cause shortcuts and/or electrical shocks.

Guidelines and types of use:

- This device is intended to be used by professionals on stage, in theaters, clubs and other equal venues.
- This device is not suitable for children and always needs to be operated by an adult.
- Only use the device when the environment is suitable and will not cause any damage. Do not use the product in moist or dusty environments, or where long-term damage may occur such as:
 - indoor swimming pools where chlorine is used.
 - Beaches, where sand and salt are present.
 - Outdoor, without roof protection
 - Indoor areas where intense heat sources are present or where the temperature exceeds levels which are comfortable for humans.
- Only use the included power adapter and only connect the device to a suitable power outlet with the correct output voltage. Connecting the device to a power outlet with the wrong type of voltage or using the product with a wrong type of power supply may cause permanent damage to the device.
- Avoid shocks and collision during use and transport. Do not transport the device while in use. Avoid brute force during the installation and operation of this device.
- Familiarize yourself with the functions of the device before use. Do not allow operation of the device by unskilled or unqualified people.
- Use of the device in other ways than described in this user manual may cause damage and injury. Ayra does not take responsibility for any damage or injury caused by improper use.

Storage and transport:



- This device is intended for mobile use. When transported, use the original packaging of the product, or a fitting flightcase, preferably filled with foam.
- This device is not intended for permanent use. Operation breaks will ensure that the lifespan of the device remains unchanged.
- If the device is not used for a longer period of time, disconnect it from its power source and store it in its original packaging, or in a fitting flightcase.
- Store the device indoor, dry and do not expose the device to extreme temperature differences.

Housing:

- Inspect the housing of the device frequently. Severe dents, cracks and missing screws should be avoided at all costs. Do not use the device when the housing is not in optimal condition. Contact your dealer or a skilled technician when in doubt about the state of the device
- Check the fixture and screws for corrosion. Corrosion should not be present on the fixture. Contact your dealer or a skilled technician when corrosion is found on the fixture
- Every power or signal chassis/connector should be mounted tightly. Do not use the device when connectors are loose.
- Do not use the power cord when the cores are visible. Contact your dealer for a replacement if needed.
- Avoid the buildup of dust and dirt. Clean the exterior of the fixture every month with a dry or damp cloth. When using the device intensively, the cleaning frequency needs to be increased.

Guidelines for laser devices

Laser diode guidelines:

| | | |
|---|-------------------|---|
|  | <h1>WARNING!</h1> |  |
| <p>This device emits powerful laser beams! Do not look directly in the laser beam to avoid possible permanent injury to eyes and skin! This is a class 3B laser product.</p> | | |

- This device is a professional show and entertainment laser product. The device emits laser beams with a wavelength spectrum between 400 and 700 nm.
- This laser device has a different type of light source than other lighting products. This device is equipped with powerful, concentrated laser beams which could cause serious injuries when used incorrectly. Laser beams are approximately 1000x more powerful than regular light bulbs. This is caused by the very tight projection angle of the laser diode, which is far more concentrated than a regular light source. The combined power of the laser diode is powerful enough to cause permanent visual loss and other injuries when used incorrectly.
- Harmful laser beams which may cause injury do not feel 'hot'. It is possible that laser beams which do not generate noticeable heat cause serious injury. In most cases, this is visual loss, caused by a laser diode because it is focussing on the retina, a sensitive part of the eye which is very sensitive to lighting. Concentrated laser beams might burn the retina, causing permanent visual loss.
- Do not aim this laser device directly into your audience. The minimum distance in height between the floor and the laser device should be more than 3 meters.
- A laser operator is required for the operation of this laser device. Never leave the laser device running unattended.
- The requirements for laser shows may vary from country to country and even from region to region. Contact your local authorities for more information regarding professional laser shows for indoor and outdoor applications.
- Never point the laser directly to reflective surfaces nearby, as this might scatter the laser beams throughout the room.

Optics guidelines:

- Never cover the beam output of the laser!
- Do not remove or replace the lens.
- Do not touch the lens with your fingers
- Only clean the lens with a non-aggressive solution or a damp cloth

Exterior guidelines:

- When used in a hanging position, the device always needs to be secured by using a safety cable. Attach the safety cable to the provided safety eye with the carabiner hook. A safety cable is not included in delivery and can be purchased separately.
- The device must be installed on a flat surface or hanging from a solid construction by using the included bracket. Never hold the machine in your hands during use!
- When using the device in a hanging position, always mount a G-clamp or half coupler to the bracket, or use bolts to install the bracket directly to a ceiling or beam.

Any information and illustrations shown in this user manual are subject to change without further notice.

User manual version: 2.0 Creation date + author initials: 17-12-2013 RV Revision date + author initials: 18-02-2014 RV

Box contents

Box contents

1x laser device
1x user manual
1x power adapter (DC 5V – 230V AC)
1x foldable stand

Unit and accessory inspection

- Always use the supplied power cable to connect the unit to a power supply. If the cable appears broken or has visible damage, do not use it.
- If the unit is not going to be used for a longer period of time, disconnect it from the power supply and store it in a dust-free environment.
- Always check the unit for possible damage before use. If you suspect that something is wrong with the unit, do not connect it to a power source! When you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.

ALURA

Any information and illustrations shown in this user manual are subject to change without further notice.

User manual version: 2.0 Creation date + author initials: 17-12-2013 RV Revision date + author initials: 18-02-2014 RV

Device overview



1. Tightening knob
2. Cooling fan
3. Adjustable hanging bracket
4. 5V DC input (intended for included power adapter)
5. Rotation speed (min-max)
6. Auto mode / music mode switch
7. Microphone (used for music-controlled mode)
8. Microphone sensitivity (min-max)
9. ON/OFF/Strobe switch

Any information and illustrations shown in this user manual are subject to change without further notice.

User manual version: 2.0 Creation date + author initials: 17-12-2013 RV Revision date + author initials: 18-02-2014 RV

Setting up the device

This laser device can be used in several ways. Please pay attention to positioning the laser for your own safety and the safety of your audience.

Projection of the laser

This laser is not intended for projection into your audience and it is therefore not recommended, especially not on short distance (e.g. a bedroom or living room). If you do so, Ayra can not be held responsible for any injuries.

Placement and using the stand or bracket

This laser device is not intended for children and must only be used with the supervision of an adult. Keep this device out of reach of small children. When positioning the laser, always use the included tripod stand to aim the laser on a ceiling or wall, or use the included bracket to mount this laser device to a ceiling, wall, lighting stand or truss system.

Functions explained

Auto/Music:

This feature changes between the automatic working mode (movement on a predefined speed) and the music controlled mode (movement based on music, sensed by the internal microphone).

Motor speed:

This rotatable knob changes the rotation speed from slow to fast in the automatic mode.

Mic sensitivity:

This rotatable knob changes the microphone sensitivity from low to high in the music controlled mode. Depending on the placement of your music source, you may want to change the sensitivity of the microphone for a more accurate response to the beat of the music.

ON/OFF/Strobe:

ON: Activation of the laser, with both colours projecting at the same time.

OFF: Turns off the laser device

Strobe: Activation of the laser, with colour change/strobe function.

Troubleshooting

If you have any problems with this laser device, consult this troubleshooting section to solve any difficulties with your product. If this troubleshooting section does not solve your problem, contact your dealer for more information and help.

This troubleshooting section contains the most frequent problems and is not a complete collection of possible faults, defects and solutions. The troubleshooting section applies for stand-alone laser devices. It is possible that not all described problems, causes and solutions apply to your situation as product details may vary from product to product.

| Problem | Possible Cause | Solution |
|---|--|---|
| Laser device does not activate itself or does not produce any light | Power adapter not plugged in (to a socket or the laser device) | Check if the laser device is connected to a wall outlet properly |
| | Main fuse blown | Check if other appliances connected to the same power source are activated. If not, check the fuse box of your mains power supply and see if any circuit breakers were activated. |
| | Broken laser diodes | Disconnect the device and contact your local dealer for help and support. |
| Laser only projects a static pattern | Laser turned to music mode, but there is no music source | Increase the music volume or place the laser device closer to the music source. |
| | Laser grating lens motor broken | Disconnect the device and contact your local dealer for help and support. |
| | Laser turned to music mode, but the sensitivity is too low | Increase the sensitivity of the built-in microphone, by twisting the 'mic' knob on the rear of the device. |
| Laser pattern changes too slow/fast in auto mode | Speed setting set too high/low | Increase/decrease the Speed knob on the rear of the device. |

Any information and illustrations shown in this user manual are subject to change without further notice.

User manual version: 2.0 Creation date + author initials: 17-12-2013 RV Revision date + author initials: 18-02-2014 RV

Technical specifications

- 160 mW grating laser
- Grating technology, distributes solid beams into hundreds of small laser beams
- Fluently moving star sky effect
- Calm lounge-effect
- Laser power: 100mW (red), 60mW (green)
- Laser wavelength: 532nm (green), 650nm (red)
- Main switch: ON, OFF, Strobe
- Working mode: auto/music
- Variable rotation speed
- Built-in microphone for music controlled mode
- Variable microphone sensitivity
- Fan cooled
- Pre-mounted hanging bracket
- Included miniature tripod stand, can be mounted directly to the bottom of the housing
- Maximum power consumption: 7W
- Dimensions: 125 x 125 x 60 mm (without bracket, with screw knobs attached)
- Maximum height tripod stand: 170 mm

Included accessories:

- power adapter
- tripod stand

CLASS III B LASER DEVICE

Any information and illustrations shown in this user manual are subject to change without further notice.

User manual version: 2.0 Creation date + author initials: 17-12-2013 RV Revision date + author initials: 18-02-2014 RV