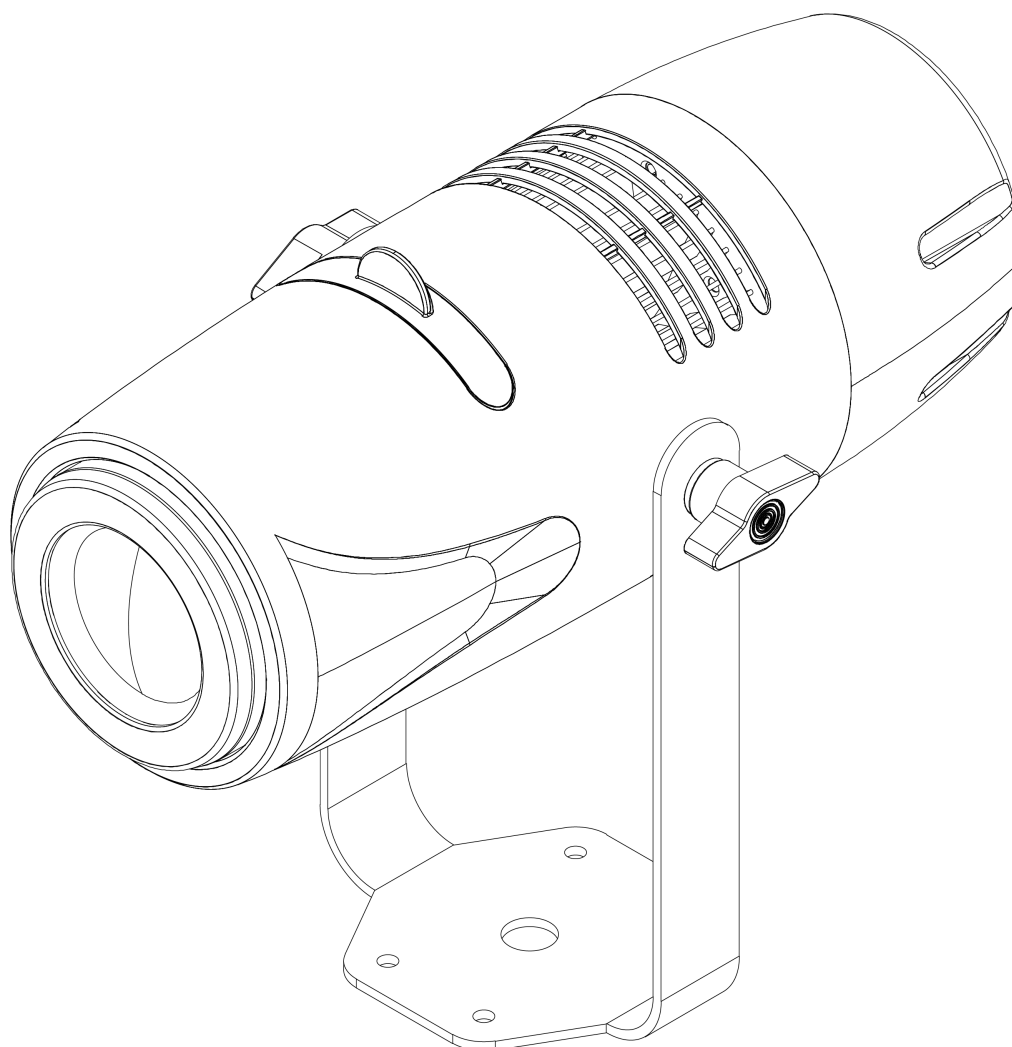




Gobo Spot 50

Product code: A0690140

Preface

Thank you for purchasing this Artecta product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Intended and non-intended use of the device
- Installation and operation of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

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Highlite International B.V. – Vestastraat 2 – 6468 EX Kerkrade – the Netherlands

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1. Introduction

1.1. Before Using the Product



Important

Read and follow the instructions in this user manual before installing, operating or servicing this product.

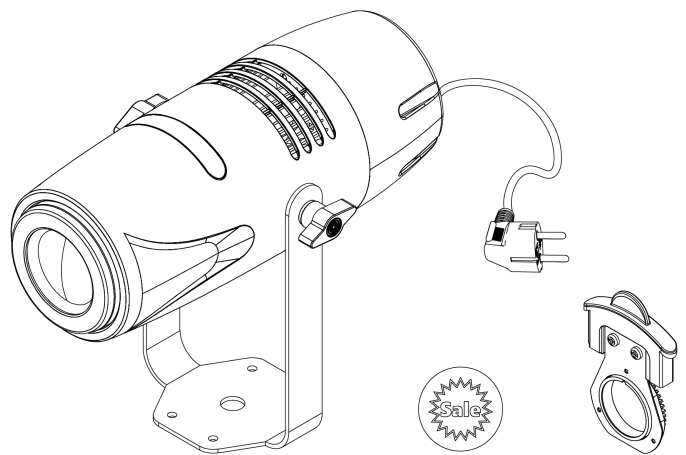
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the box. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

- Arctecta Gobo Spot 50 with a fixed power cable (1,7 m) with a Schuko plug
- Gobo holder
- Glass gobo "Sale"
- User manual

Figure 1



1.2. Intended Use

This device is intended for professional use as a gobo spot. It can be installed only indoors. This device is not suitable for households and for general lighting.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. LEDs Lifespan

The light output of the LEDs gradually decreases over time (lumen depreciation). High operating temperatures contribute to this process. You can extend the lifespan of the LEDs by providing adequate ventilation and operating the LEDs at the lowest possible brightness.

1.4. Product Lifespan

This device is not designed for permanent operation.

Disconnect the device from the electrical power supply when the device is not in operation. This will reduce wear and improve the lifespan of the device.

1.5. Text Conventions

Throughout the user manual the following text conventions are used:

- References: References to parts of the device are in bold lettering, for example: "turn the **adjustment handle (05)**". References to chapters are hyperlinked
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.6. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.

**DANGER**

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION**

Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

**Attention**

Indicates important information for the correct operation and use of the product.

**Important**

Read and observe the instructions in this document.

**Electrical hazard**

Provides important information about the disposal of this product.

1.7. Symbols on the Information Label

This product is provided with an information label. The information label is located on the side of the device.

The information label contains the following symbols:



This device is designed for indoor use.



This device shall not be treated as household waste.



This device falls under IEC protection class I.

2. Safety

**Important**

Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

2.1. Warnings and Safety Instructions

**DANGER**

Danger for children

For adult use only. The device must be installed beyond the reach of children.

- Do not leave any parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within the reach of children. Packaging material is a potential source of danger for children.

**DANGER**

Electric shock caused by dangerous voltage inside

There are areas inside the device where dangerous touch voltage may be present.

- Do not open the device or remove any covers.
- Do not operate the device if the covers or the housing are open. Before operation, check if the housing is firmly closed and all screws are tightly fastened.
- Disconnect the device from the electrical power supply before service and maintenance, and when the device is not in use.

**DANGER**

Electric shock caused by short-circuit

This device falls under IEC protection Class I.

- Make sure that the device is electrically connected to ground (earth). Connect the device only to a socket-outlet with a ground (earth) connection.
- Do not cover the ground (earth) connection.
- Do not let the power cable come into contact with other cables. Handle the power cable and all connections with the mains with caution.
- Do not modify, bend, mechanically strain, put pressure on, pull or heat up the power cable.
- Make sure that the power cable is not crimped or damaged. Examine the power cable periodically for any defects.
- Do not immerse the device in water or other liquids. Do not install the device in a location where flooding may occur.
- Do not use the device during thunderstorms. Disconnect the device from the electrical power supply immediately.

**Attention**

Power supply

- Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

- Make sure that the cross-sectional area of the extension cords and power cables is sufficient for the required power consumption of the device.



Attention
General safety

- Do not insert objects into air vents.
- Do not connect the device to a dimmer pack.
- Do not switch the device on and off in short intervals. This reduces the device's life.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Change the lens or the LEDs if they are visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches. Contact your Highlite International dealer for more information, as servicing can be performed only by instructed or skilled persons.
- If the device is dropped or struck, disconnect the device from the electrical power supply immediately.
- If the device is exposed to extreme temperature variations (e.g. after transportation), do not switch it on immediately. Let the device reach room temperature before switching it on, otherwise it may be damaged by the formed condensation.
- If the device fails to work properly, discontinue use immediately.



Attention
Before each use, examine the device visually for any defects.

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixings and installation points.
- The lens is not cracked or damaged.
- The power cables are not damaged and do not show any material fatigue.



Attention
Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2. Requirements for the User

This product may be used by ordinary persons. Maintenance may be carried out by ordinary persons. Installation and service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the installation, service and maintenance of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and avoid hazards associated with the installation, service and maintenance of this product.

Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

2.3. Personal Protective Equipment

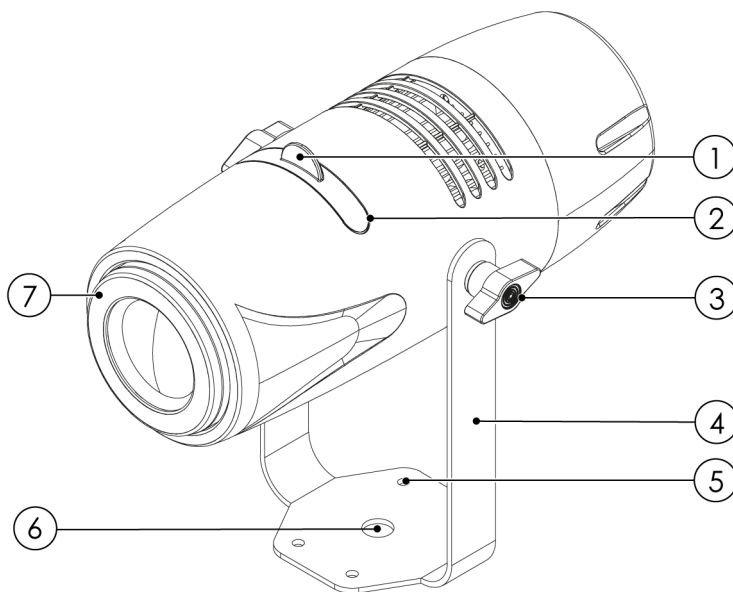
During installation, deinstallation and rigging wear personal protective equipment in compliance with the national and site-specific regulations.

3. Description of the Device

The Gobo Spot 50 is a compact 50-watt gobo projector designed for crisp, high-impact logo and pattern projection. With a fixed 20° beam angle and a replaceable, rotating glass gobo (Ø 26,4 mm - image size Ø 21 mm), it is ideal for retail, hospitality, exhibitions, and themed environments. The rotation speed and direction of the gobo can be easily adjusted via a control knob on the rear panel, offering dynamic visual effects without the need for DMX. For added flexibility, an optional 30° lens is available, allowing for broader coverage when needed.

3.1. Front View

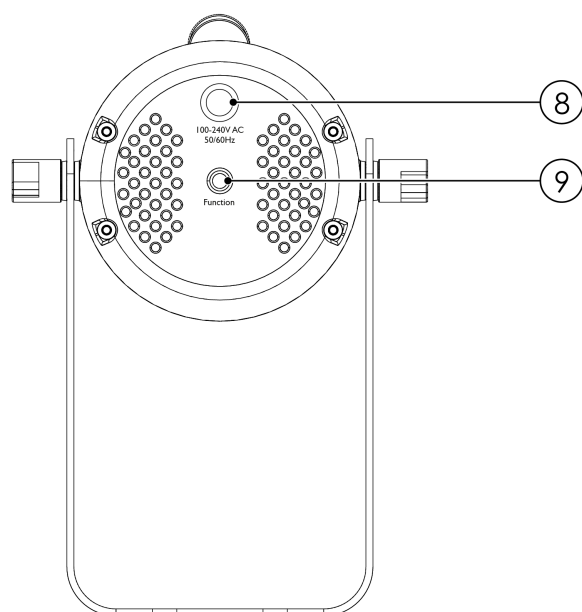
Figure 2



- 01) Gobo holder (see [3.3. Gobo Holder](#) on page 8)
- 02) Gobo holder slot
- 03) 2 x adjustment handle
- 04) Mounting bracket
- 05) 4 x mounting hole (Ø 5 mm)
- 06) Mounting hole for a clamp (Ø 12,5 mm)
- 07) Adjustable lens (20°)

3.2. Back View

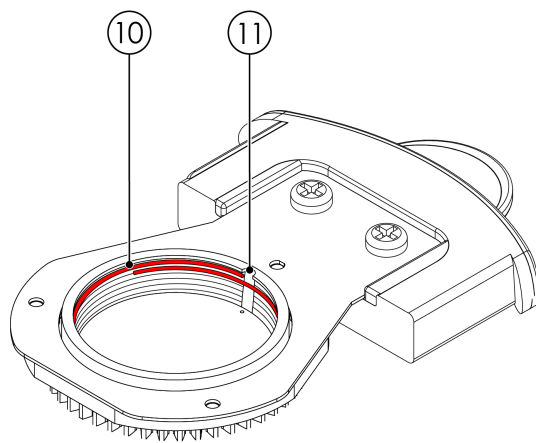
Figure 3



- 08) Fixed cable cable (1,7 m) with a Schuko plug
- 09) Function button

3.3. Gobo Holder

Figure 4



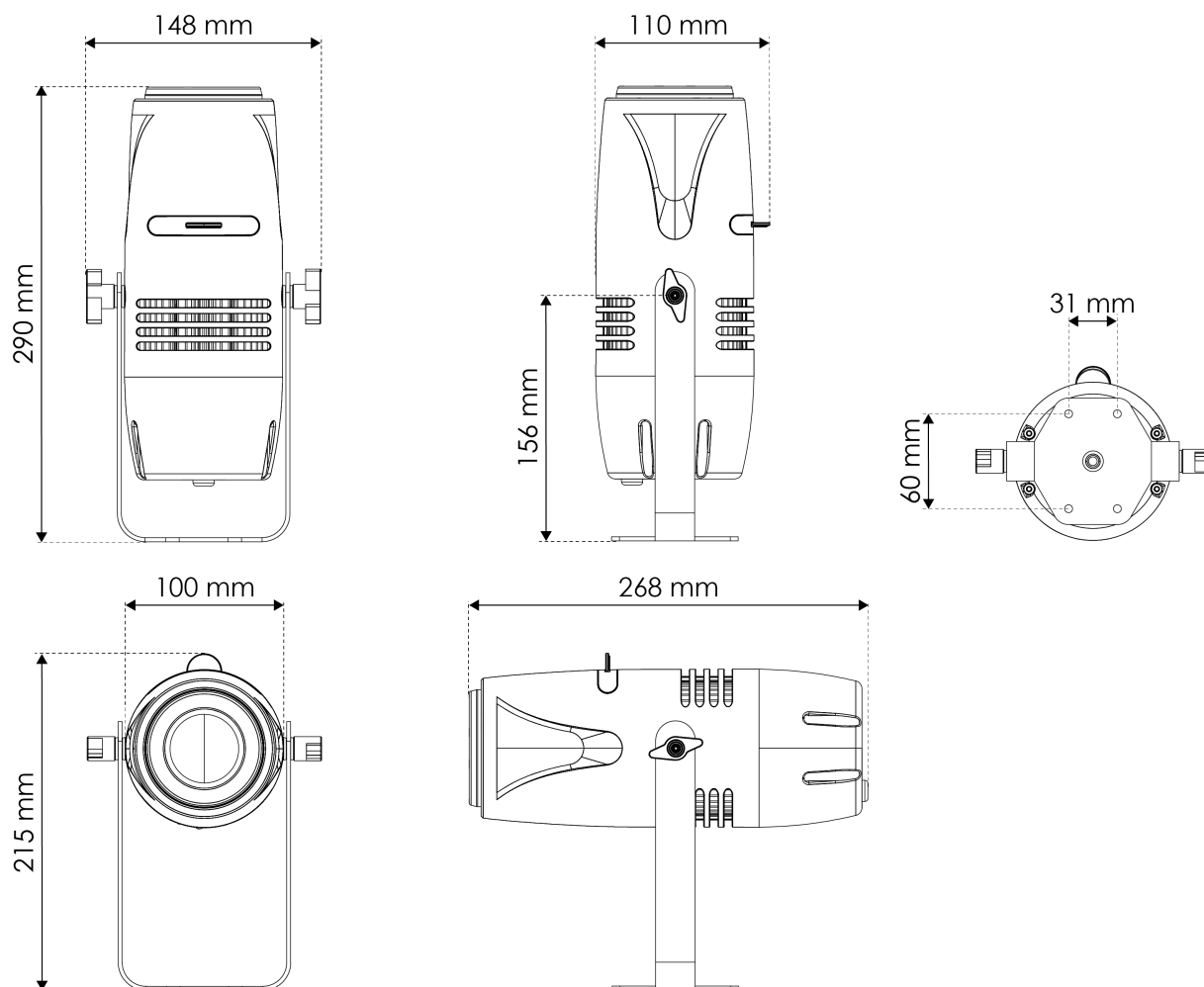
- 10) Retention spring
- 11) Spring removal slot

3.4. Product Specifications

Model:	Gobo Spot 50
Source:	
Light source type	LED
Light source quantity	1
Light source power	50 W
LED color type	CW
CRI	80
CCT	9000 K
Optical:	
Beam angle (circular)	20°
Control and Programming:	
Dimmable	No
Dynamic Effects:	
Gobo size	26,4 mm
Image diameter	21 mm
Electrical Specifications and Connections:	
Power supply	100–240 V AC 50/60 Hz
Power consumption	40 W
Power connector IN	Schuko plug
Mechanical Specifications:	
Length	110 mm
Height	290 mm
Width	148 mm
Weight	1,4 kg
IP rating	IP20 (indoor use only)
Housing	Plastic
Color	Black
Rigging:	
Mounting options	Clamp
Thermal Specifications:	
Maximum ambient temperature	45 °C
Minimum ambient temperature	-20 °C
Included Items:	
Included accessories	Glass gobo / gobo holder

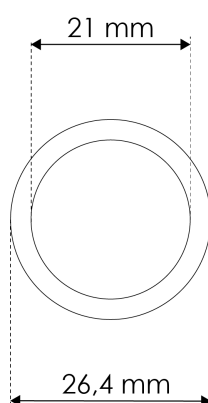
3.5. Dimensions

Figure 5



3.5.1. Gobo Dimensions

Figure 6



3.6. Optional Accessories

You can additionally purchase the following accessories:

- [A0690141](#) 30° Lens for Gobo Spot 50
- [A0690142](#) Gobo Holder for Gobo Spot 50

Contact your Highlite International dealer for more information.

4. Installation

4.1. Safety Instructions for Installation

**WARNING**

Incorrect installation can cause serious injuries and damage of property.

If trussing systems are used, installation must be carried out only by instructed or skilled persons.

Follow all applicable European, national and local safety regulations concerning rigging and trussing.

4.2. Personal Protective Equipment

During installation, deinstallation and rigging wear personal protective equipment in compliance with the national and site-specific regulations.

4.3. Installation Site Requirements

- The device can be used only indoors.
- The maximum ambient temperature $t_a = 45\text{ °C}$ must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 45 °C.

4.4. Mounting options

The device can be mounted to a truss with a clamp (see [4.4.1. Overhead Mounting with a Clamp](#)) or installed on a flat surface (see [4.4.2. Installation on a Flat Surface](#)).

4.4.1. Overhead Mounting with a Clamp



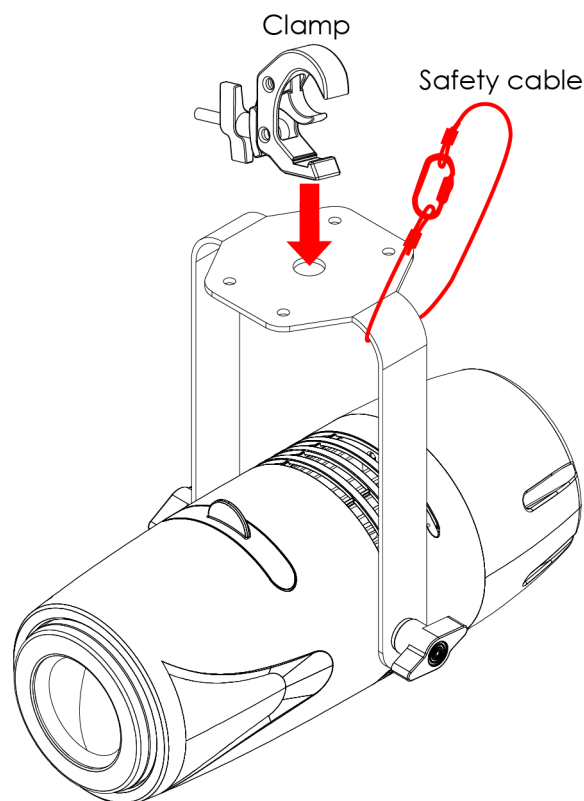
CAUTION

Restrict the access under the work area during rigging/derigging.

To mount the device to a truss or other rigging structure, follow the steps below:

- 01) Fasten a clamp on the **mounting hole for a clamp (06)**. Make sure that you use a clamp suitable for attaching the device to a truss.
- 02) Attach the device to the supporting structure. Make sure that the device cannot move freely.
- 03) Secure the device with a secondary suspension, for example a safety cable. Make sure that the secondary suspension can hold 10 times the weight of the device. If possible, the secondary suspension should be attached to a supporting structure independent of the primary suspension. Put the safety cable through the **mounting bracket (04)**.

Figure 7



4.4.2. Installation on a Flat Surface

You can install the device on a flat surface, such as a wall or ceiling. To install the device on a flat surface, you need the following:

- a drill
- a drill bit (for wood or concrete)
- 4 anchors (if applicable)
- 4 screws
- a screwdriver

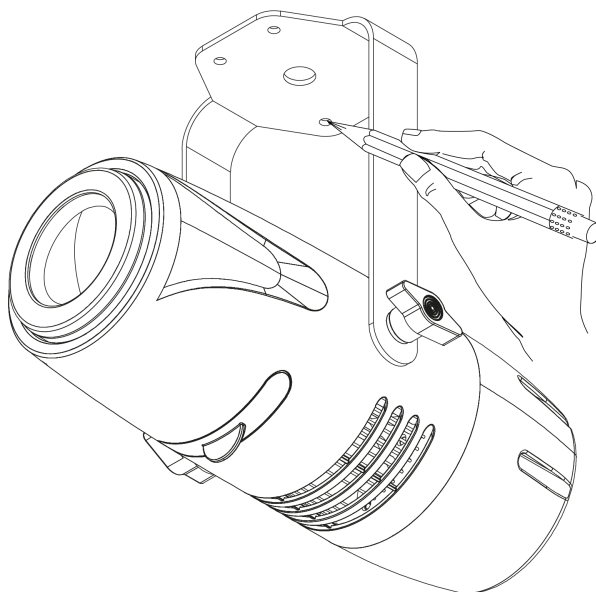
Notes:

- Make sure that the drilling location for the mounting holes is free of obstructions such as pipes, ducts, or wires.
- Do not drill into mortar joints. Screws installed in mortar joints cannot safely support the weight of the device.

To mount the device on a flat surface, follow the steps below:

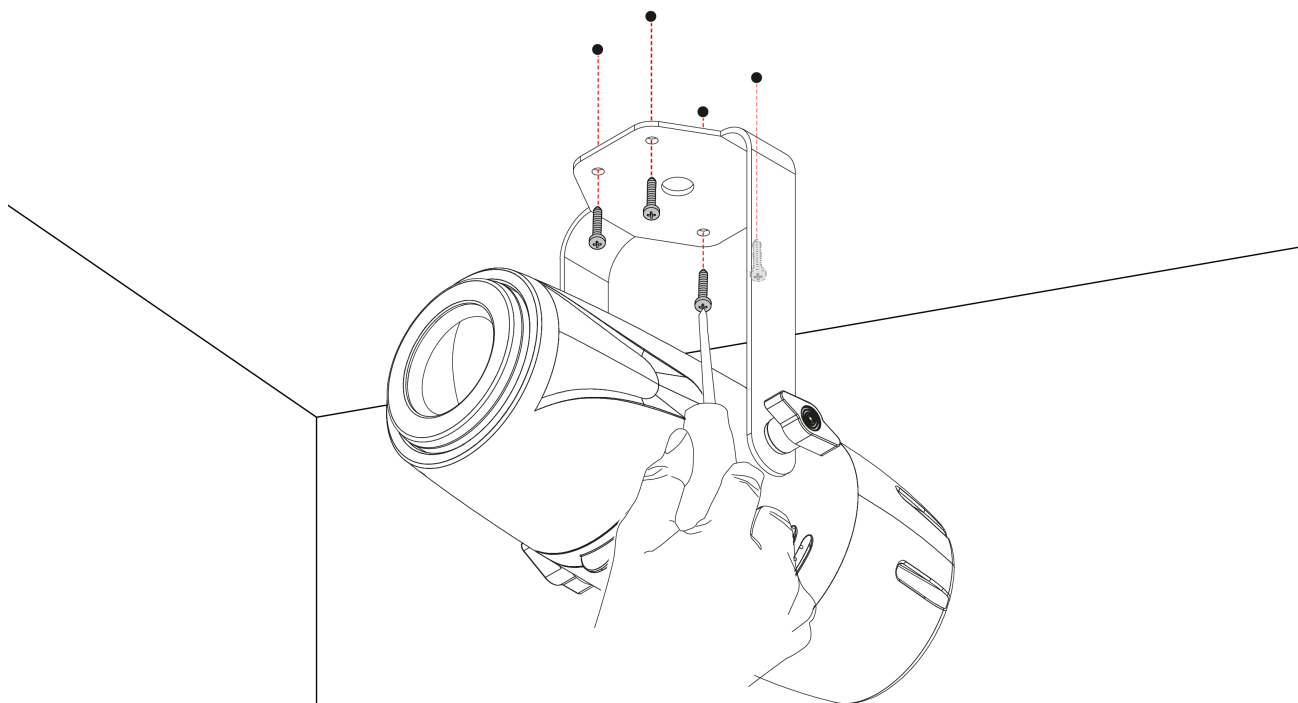
- 01) Hold the **mounting bracket (04)** against the flat surface and mark the position of the 4 **mounting holes (05)** on the flat surface.
- 02) Drill holes at the 4 marked locations.

Figure 8



- 03) Insert anchors into the drilled holes, if applicable.
- 04) Hold the **mounting bracket (04)** at the mounting location.
- 05) Insert and tighten the 4 screws through the 4 **mounting holes (05)** to fasten the device to the flat surface.

Figure 9

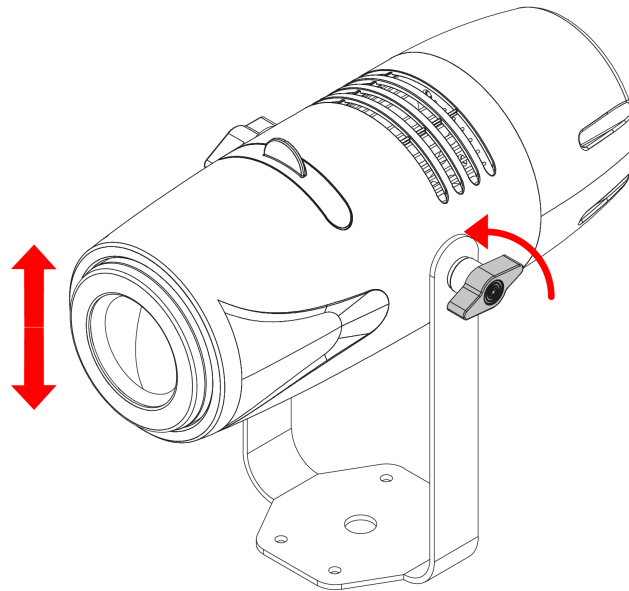


4.5. Angle Adjustment

You can adjust the angle of the device with the 2 **adjustment handles (03)**.

- 01) Turn the 2 **adjustment handles (03)** counterclockwise to release them.
- 02) Tilt the device to the desired angle.
- 03) Turn the 2 **adjustment handles (03)** clockwise to tighten them. Make sure that the device cannot move freely after the 2 **adjustment handles (03)** are tightened.

Figure 10



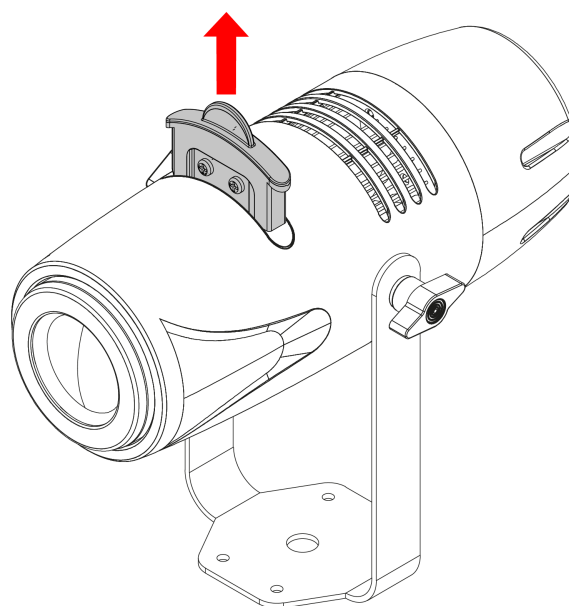
4.6. Replacing the Gobo

The Gobo Spot 50 is delivered with 1 glass gobo. You can replace the gobo with a custom made glass or metal gobo. Make sure that the dimensions of the gobo are correct (see [3.5.1. Gobo Dimensions](#) on page 10).

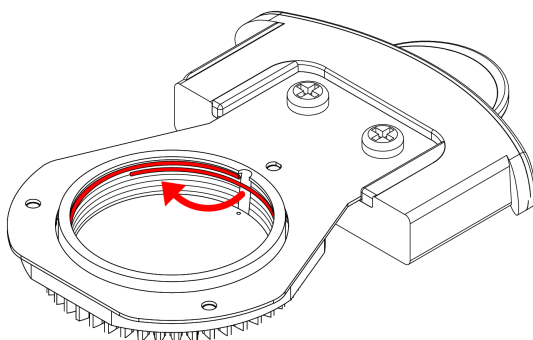
To replace the gobo, follow the steps below:

- 01) Pull out the **gobo holder (01)** from the **gobo holder slot (02)**.

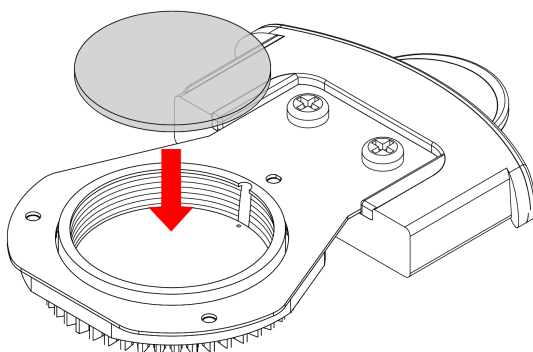
Figure 11



- 02) Insert a small flathead screwdriver into the **spring removal slot (11)** of the **gobo holder (01)** and carefully pry out the **retention spring (10)**.

Figure 12

- 03) Remove the gobo from the **gobo holder (01)**. Do not hold glass gobos with bare hands to prevent fingerprints.
- 04) Place a new gobo inside the **gobo holder (01)**. Make sure that you place the gobo in the correct orientation (see [4.6.1. Gobo Orientation](#)).
- 05) Push the **retention spring (10)** back into the **gobo holder (01)**.

Figure 13

- 06) Insert the **gobo holder (01)** back into the **gobo holder slot (02)**.

4.6.1. Gobo Orientation

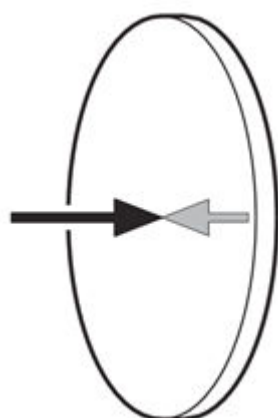
Insert a coated glass gobo with its coated side down (away from the spring).

Insert a textured gobo with its textured side down (away from the spring).

Notes:

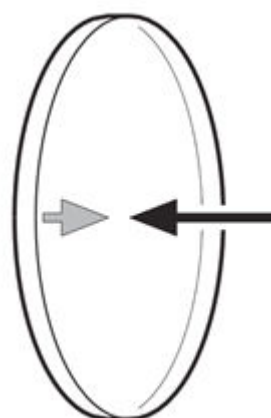
- When you place an object against the coated side of the gobo, there is no visible gap between the object and its reflection. Additionally, you cannot see the back edge of the gobo through the coated side.
- When you place an object against the uncoated side of the gobo, there is a visible gap between the object and its reflection. Additionally, you can see the back edge of the gobo through the uncoated side.

Figure 14



Coated side

Figure 15



Uncoated side

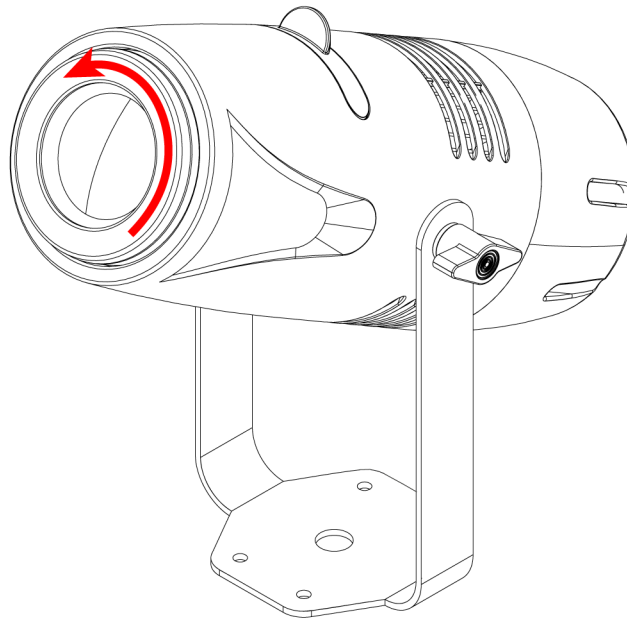
4.7. Replacing the Lens

The Gobo Spot 50 is delivered with a 20° **adjustable lens (07)**. You can replace the **adjustable lens (07)** with an optionally available 30° lens (see [3.6. Optional Accessories](#) on page 10).

To replace the **adjustable lens (07)**, follow the steps below:

- 01) Remove the **adjustable lens (07)** by turning it fully counterclockwise.
- 02) Screw in the replacement lens by turning it clockwise.
- 03) Adjust the focus of the projected image (see [5.4. Adjusting the Lens](#) on page 18).

Figure 16



4.8. Connecting to Power Supply



DANGER
Electric shock caused by short-circuit

The device accepts AC mains power at 100–240 V and 50/60 Hz. Do not supply power at any other voltage or frequency to the device.

This device falls under IEC protection class I. Make sure that the device is always electrically connected to the ground (earth).

Before connecting the device to the socket-outlet:

- Make sure that the power supply matches the input voltage specified on the information label on the device.
- Make sure that the socket-outlet has a ground (earth) connection.

Connect the device to the socket-outlet with the power plug. Do not connect the device to a dimmer circuit, as this may damage the device.

5. Operation

5.1. Safety Instructions for Operation



Attention

This device must be used only for the purposes it is designed for.

This device is intended for professional use as a gobo spot. It can be installed only indoors. This device is not suitable for households and for general lighting.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.



Attention

Power supply

Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

5.2. Turning ON/OFF

When the device is connected to the power supply, the device is turned on. To turn the device off, disconnect the power supply.

5.3. Function Button

The Gobo Spot 50 turns on when it is connected to the power supply and projects a rotating image. You can change the direction and speed of the rotation with the **function button (09)**.

Press the **function button (09)** to cycle through the rotation speeds and directions:

Speed and direction	Time per rotation (seconds)	Rotations per minute
Slow clockwise	139	0,43
Medium clockwise	69	0,87
Fast clockwise	34	1,76
No rotation		
Slow counterclockwise	139	0,43
Medium counterclockwise	69	0,87
Fast counterclockwise	34	1,76

5.4. Adjusting the Lens

The focus of the image projected by the Gobo Spot 50 depends on the distance between the device and the projection surface.

Turn the **adjustable lens (07)** to change the focus of the projected image:

- Turn the **adjustable lens (07)** clockwise to move the focus farther from the device.
- Turn the **adjustable lens (07)** counterclockwise to move the focus closer to the device.

Note:

You can replace the **adjustable lens (07)** (see [4.7. Replacing the Lens](#) on page 17) with an optional 30° lens (see [3.6. Optional Accessories](#) on page 10) to change the size of the projected image.

6. Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts.

Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function	No power to the device	Make sure that the device is connected to power supply
	The LED is defective	Disconnect the device and contact your Arctea dealer
No light or LED cuts out intermittently	The LED is defective	Disconnect the device and contact your Arctea dealer
	The power supply settings do not match local AC voltage and frequency	Disconnect the device. Check the settings and connect if necessary
The projected image is blurred	The lens is out of focus	Adjust the lens (see 5.4. Adjusting the Lens on page 18)

7. Maintenance

7.1. Safety Instructions for Maintenance



DANGER
Electric shock caused by dangerous voltage inside

7.2. Preventive Maintenance



Attention
Before each use, examine the device visually for any defects.

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixings and installation points.
- The lens is not cracked or damaged.
- The power cables are not damaged and do not show any material fatigue.

7.2.1. Basic Cleaning Instructions

The external lens of the device must be cleaned periodically in order to optimize the light output. The cleaning schedule depends on the conditions at the site where the device is installed. When smoke or fog machines are used at the site, the device will need more frequent cleaning. On the other hand, if the device is installed in well-ventilated area, it will need less frequent cleaning. To establish a cleaning schedule, examine the device at regular intervals during the first 100 hours of operation.

To clean the device, follow the steps below:

- 01) Disconnect the device from the electrical power supply.
- 02) Allow the device to cool down for at least 15 minutes.
- 03) Remove the dust collected on the external surface with dry compressed air and a soft brush.
- 04) Clean the lens with a damp cloth. Use a mild detergent solution.
- 05) Dry the lens carefully with a lint-free cloth.
- 06) Clean the connectors with a damp cloth.



Attention

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.
- Make sure that the connectors are fully dry before using them.

7.3. Corrective Maintenance

The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

8. Deinstallation, Transportation and Storage

8.1. Instructions for Deinstallation

**WARNING**

Incorrect deinstallation can cause serious injuries and damage of property.

- Let the device cool down before dismounting.
- Disconnect power supply before deinstallation.
- Always observe the national and site-specific regulations during deinstallation and derigging of the device.
- Wear personal protective equipment in compliance with the national and site-specific regulations.

8.2. Instructions for Transportation

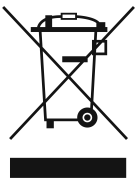
- Use the original packaging to transport the device, if possible.
- Always observe the handling instructions printed on the outer carton box, for example: "Handle with care", "This side up", "Fragile".

8.3. Storage

- Clean the device before storing. (see [7.2.1. Basic Cleaning Instructions](#) on page 20)
- Store the device in the original packaging, if possible.

9. Disposal

Correct disposal of this product



Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

10. Approval



Check the respective product page on the website of Highlite International (www.highlite.com) for an available declaration of conformity.

