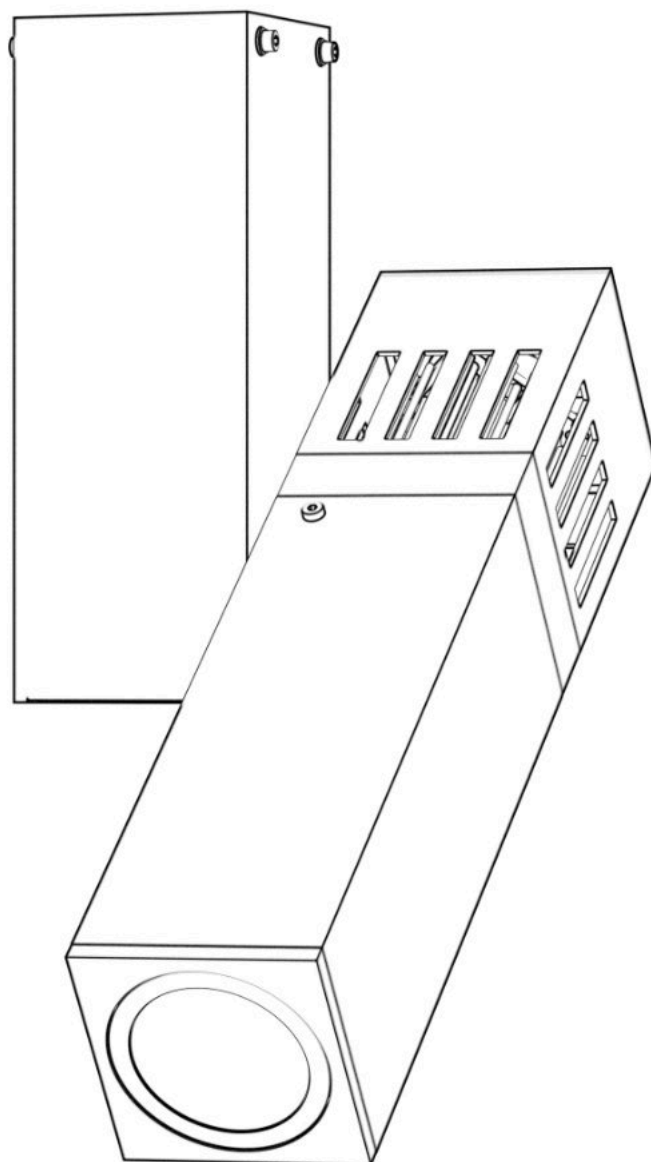


eOX Spot 80

English

English



Information for Use

ORGATEX®

Imprint

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2nd edition: May 2024

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EN

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eOX Spot 80

information for use

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1. Safety instructions

1.1. General understanding of safety

This LED projector is safely constructed and complies with the legal requirements for product safety. The following safety instructions are intended to help you assess remaining risks in order to avoid possible damage to property or personal injury. Consider this information for use as an integral part of the product. Keep this document in a safe place for future reference. Only pass the projector on to others together with this document. It provides important information required for safely working with the product. Please read the information for use carefully before installing and using the LED projector. Read the 'Safety instructions' chapter in detail and fully familiarise yourself with it. Always observe the instructions provided in the information for use for all work carried out. Any prevailing regulations on accident prevention and environmental protection, as well as any recognised technical rules governing safe and proper work, must also be observed. Competent handling and careful maintenance have a significant impact on the performance and availability of your projector. Installation and operating errors, as well as inadequate maintenance, lead to avoidable operational malfunctions and breakdowns.

1.2. Intended use

eOX Spot 80 is a compact LED projector (hereinafter referred to as "projector") for displaying graphics and text by light projection.

- The projector is only suitable for use in dry rooms. Water and moisture can damage the projector and may cause electric shock or fire!
- The projector is not suitable for corrosive environments (e.g. factory farming, swimming pools, tunnels, offshore installations, coastal areas up to 1 km / 0.6 miles from the sea).
- The ambient temperature should not exceed 35°C / 95°F, otherwise the projector cannot be cooled sufficiently and electronic components may fail prematurely.
- The projector is only suitable for use with projection motifs made of glass, otherwise known as 'gobos'. Do not insert any other projection motifs or objects in the projector! Unsuitable projection motifs can damage the projector and cause a fire.

- When using the projector, make sure that no people are blinded by the bright beam of light, especially if there is a safety risk posed by temporary glare (e.g. for road users, people using stairs, etc.).
- The projector must not be handled by children or persons with cognitive impairment. Children or cognitively impaired people must always be supervised by a responsible person in the proximity of the projector.
- Do not modify or dismantle the projector. Otherwise, it may no longer meet the safety requirements. Users may only perform the actions described in this information for use. Repairs may only be carried out by competent service technicians.
- The manufacturer does not accept any liability for damage caused by improper use or assembly.

1.3. Danger of electric shock

Contact with mains voltage poses a risk of fatal electrocution.

- Only allow a qualified electrician to carry out electrical connections:
- The projector is a Class I electrical device in accordance with IEC 61140. Ensure that the device is properly grounded via the electrical connection.
- Make sure to observe national regulations governing the operation of electrical devices.
- Before carrying out any electrical work, disconnect the projector from the mains and secure it against unauthorised reconnection.
- The unit is only completely disconnected from the mains and voltage-free when the mains plug is pulled out! Be sure to disconnect the mains plug before maintenance, cleaning or disassembly.
- The power cord must not be damaged. Avoid placing loads on the power cord. Do not bend, pull, twist or pinch the power cord. Do not mount the projector in a location where people can step on the power cord. A damaged power cord can cause electric shocks and fires and must be replaced immediately.
- Only operate the device with the housing completely closed.
- Never pour or spray any liquids on the projector. The projector is suitable for dry indoor use only and must never be exposed to rain or moisture.

1.4. Heat and fire hazard

- Do not operate the unit near highly flammable substances, e.g. alcohol or gasoline.
- The projector may only be operated when mounted securely and with the tilt of the projector head locked. A projector which has toppled over or a projector head which has dropped down can cause surfaces to catch fire.
- The projector's beam of light can reach high temperatures at close range. Keep flammable materials at a safe distance of 0.5 m / 1.6 ft from the light exit point. This distance increases the more projectors are used to illuminate a location. Make sure to keep flammable materials (e.g. curtains) far away from the hazardous area.
- The projector heats up during operation. Risk of burns! Allow the projector to cool down for at least ten minutes before changing a projection motif or performing other tasks on the projector.
- The projector is cooled actively or passively, depending on its type, and requires an unobstructed flow of air for cooling. Keep a minimum distance of 0.3 m / 1 ft from walls and objects on all sides.
- Do not cover the projector with sheeting or insulating material. Do not operate the projector in a closed casing. Effective cooling is only possible if the discharged warm air can escape and cool air can flow in freely.
- Protect the front lens from direct sunlight. Sunlight is concentrated through the front lens and can cause damage and fire inside the projector.

1.5. Optical radiation hazard

According to the DIN EN 62471-5:2015 standard, the projector is classified in risk group 2 (RG-2) of the photobiological hazard classes. To avoid the risk of glare from visible optical radiation, observe the following safety regulations:

- Do not stare directly into the light beam.
- Never look into the light beam at a short distance (< 1 m / 3.3 ft). Permanent eye injury may occur if you expose yourself to the light beam within the hazardous zone.
- Install the projector in a location where a distance of more than 1 m / 3.3 ft can be kept from the eyes of people exposed to the beam of light.
- Only change the projection motif (gobo) when the projector is switched off.
- Do not modify the optical components of the projector (projection lens, other lenses, light source). Only use original accessories and replace damaged components only with original spare parts. A modified device may be categorised into a higher photobiological risk group.

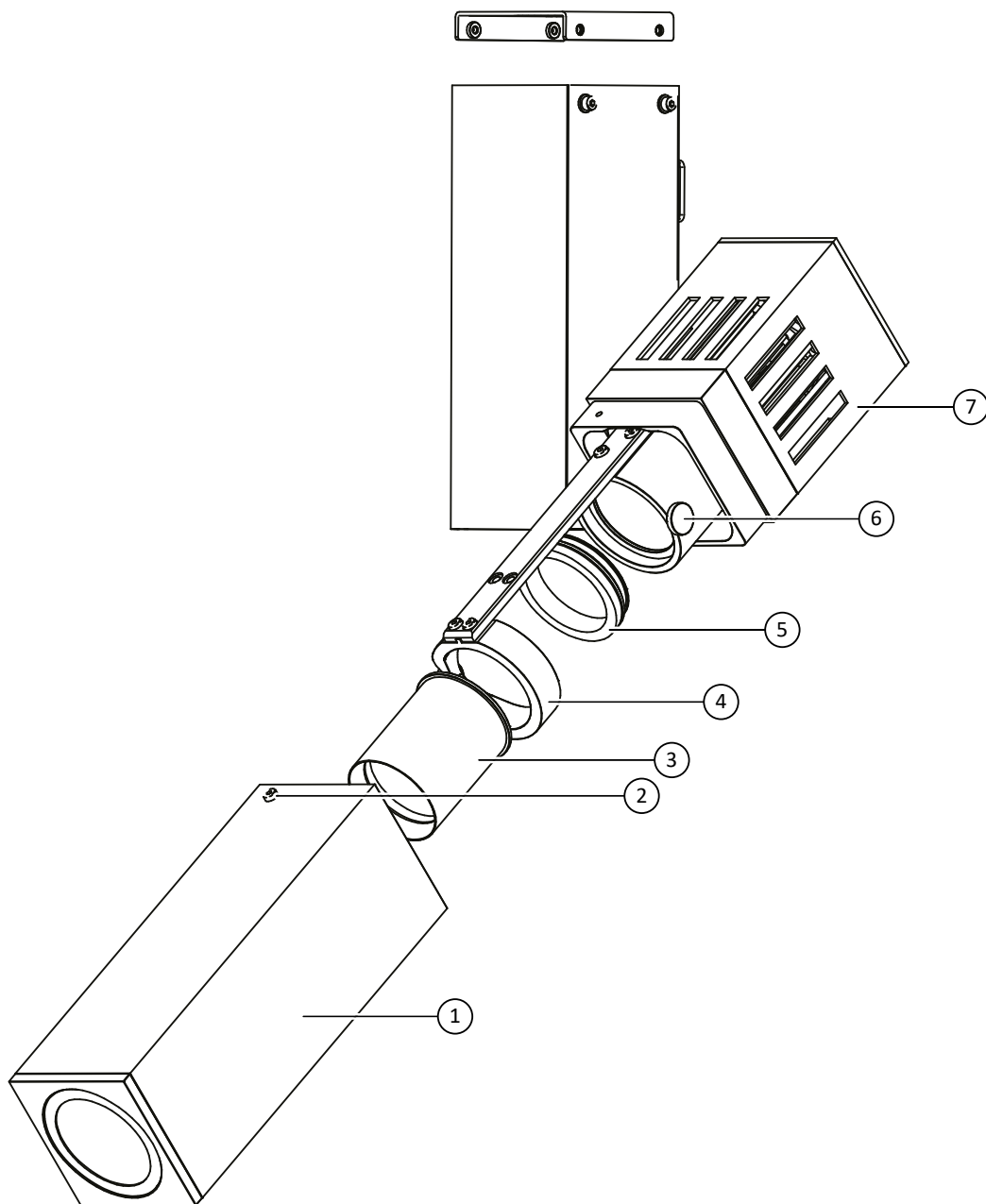
1.6. Mounting

The projector must be firmly attached to a stable and load-bearing surface or structure.

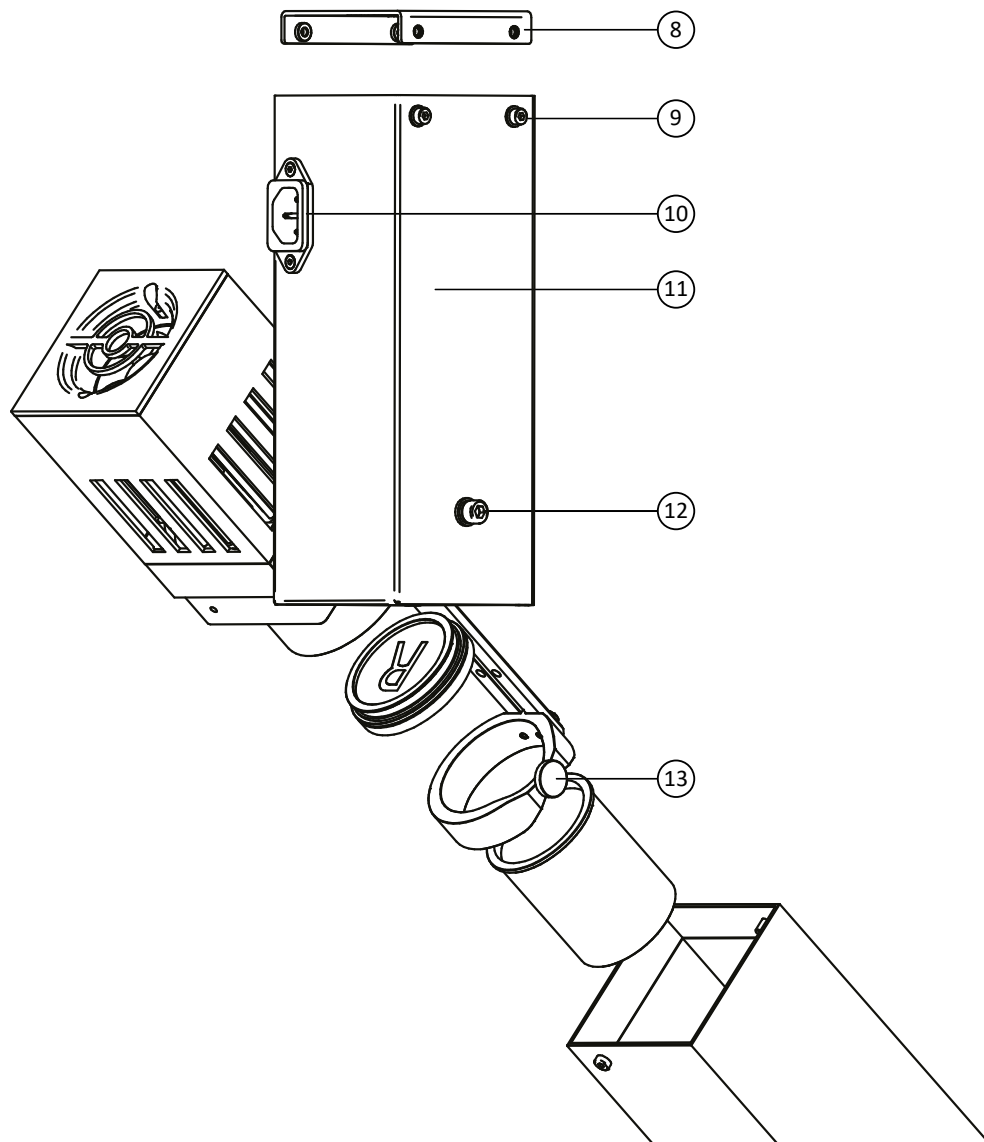
Local regulations on the safety of buildings, especially regulations on places of assembly, must be observed:

- Building regulations of the federal states: Safety of construction sites and buildings
- Regulations on places of assembly
- Regulation on the construction and operation of special buildings (Special Construction Regulation)

2. Overview of the eOX Spot 80



①	Shell	⑧	Mounting plate
②	Fastening screws for the shell	⑨	Fastening screws for the mounting plate
③	Projections lens	⑩	Cold device socket (C13)
④	Lens holder	⑪	Device base
⑤	Gobo holder	⑫	Locking screw for tilting the projector head
⑥	Knurled screw for gobo holder	⑬	Knurled screw for lens holder
⑦	Projector head, comprising LED, heat sink with fan, optical system holder		



3. Frequently used terms

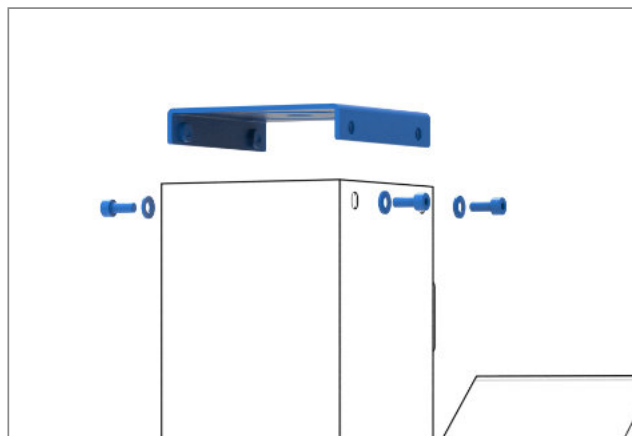
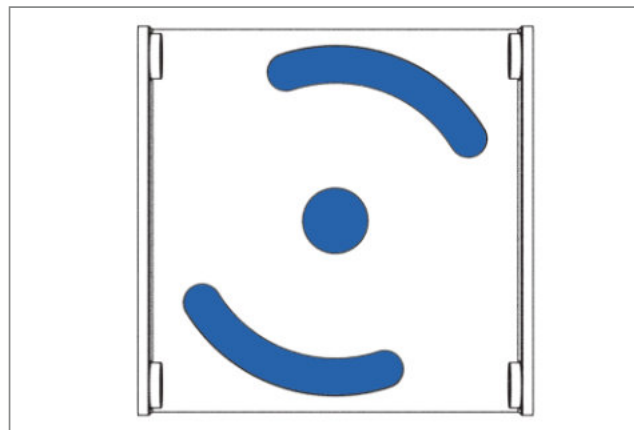
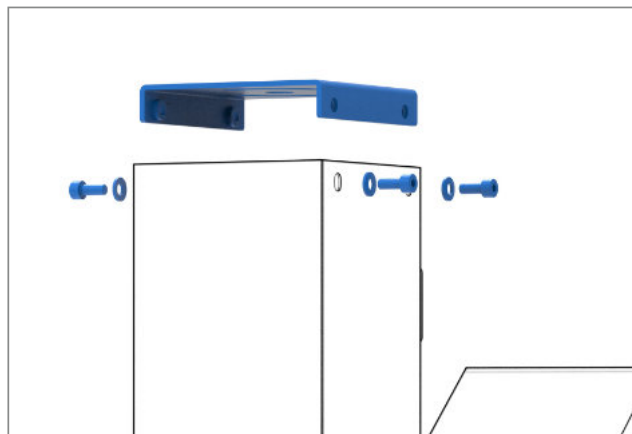
Term	Definition
LED-Projector	An optical device that uses an internal light source (LED) to display a two-dimensional template (gobo) on an image surface.
LED	Light Emitting Diode Semiconductor component that emits light.
Gobo	Projection motif: a glass template used to display logos, patterns, texts or images with a projector.
Projection lens	A projector's most important component. One or more optical lenses concentrate the light, making it possible to project an image onto a surface.
Focal distance	This is a measure of how strongly the lens concentrates beams of light. Short focal length: wide light beam. Long focal length: narrow, concentrated light beam.

4. Mounting and installation

- Your new LED projector must be securely installed before you start using it. The mounting plate offers you a wide range of options. Any stable, flat surface is suitable, regardless of its orientation.
- Ensure that the supporting structure can handle this load. It must carry at least four times the expected load. Information on how much your device weighs is provided in the technical specifications.
- Select the fastening materials based on the load, the nature of the support material, and the fire and building regulations.

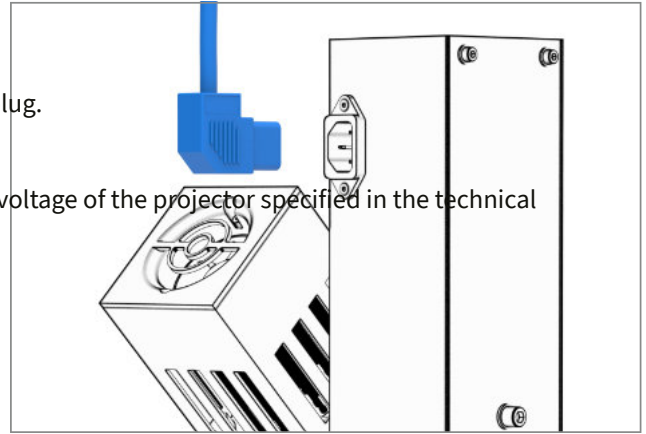
4.1. Mounting the projector

1. Ensure that the device is voltage-free.
2. Loosen and remove the four fastening screws on the side of the device base, including the conical spring washers.
3. Disconnect the mounting plate from the device base.
4. Use both curved slotted holes for aligning and fixing the projector. Additional fastening can be realised via the middle hole.
5. Fasten the device base to the mounting plate using the four cylinder head screws and the conical spring washers.



4.2. Attaching the mains cable

1. Only use a mains cable with an IEC 60320 C13 cold-device plug.
2. Make sure that the mains voltage corresponds to the input voltage of the projector specified in the technical data (220 - 240 V AC, 50 / 60 Hz).
3. Push the C13 cold-device plug firmly into the socket.



5. Setting up and operating the projector



WARNING! Risk of burns!

You can burn yourself on projector parts which have become hot.

- ▶ Let the device cool for at least 10 minutes before any set-up work.



WARNING! Optical radiation hazard!

Optical radiation can cause temporary or permanent eye damage.

- ▶ Never stare directly into the beam of light.

ATTENTION! Possible damage when setting up the projector!

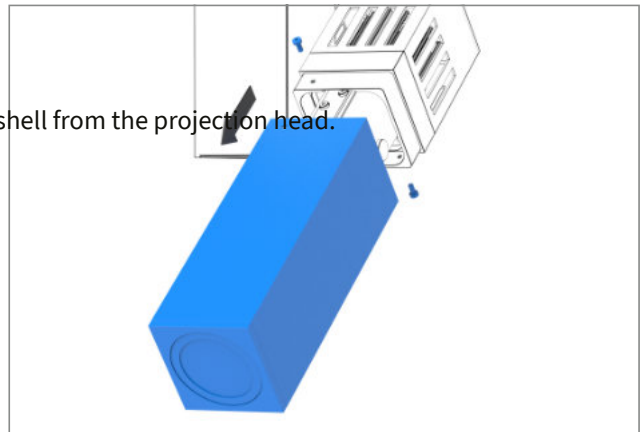
Do not tilt the projection head when the locking screw is tightened.

- ▶ Loosen the locking screw before tilting the projection head.

Some of the steps below require the projector to be switched on. Optical radiation can cause high temperatures at close range and may be dangerous for your eyes. Exercise appropriate caution. Only switch on the projector once the gobo has been inserted. Carry out set-up work as soon as possible after switching on the device.

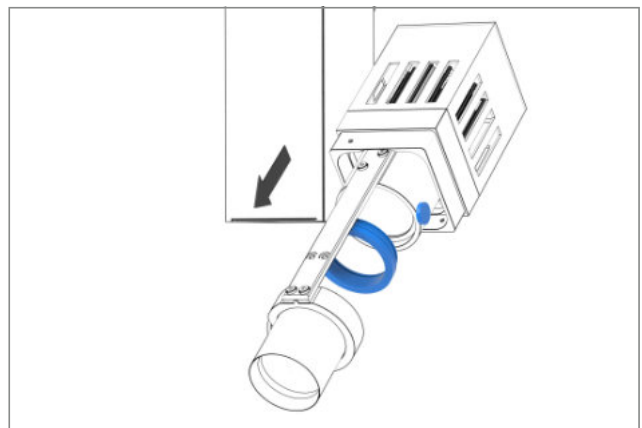
A few settings still need to be made to the projector head in order to set up your projection.

- Unscrew the two fastening screws and carefully remove the shell from the projection head.



5.1. Inserting/changing the projection motif

1. Loosen the knurled screw.
2. Remove the gobo holder.

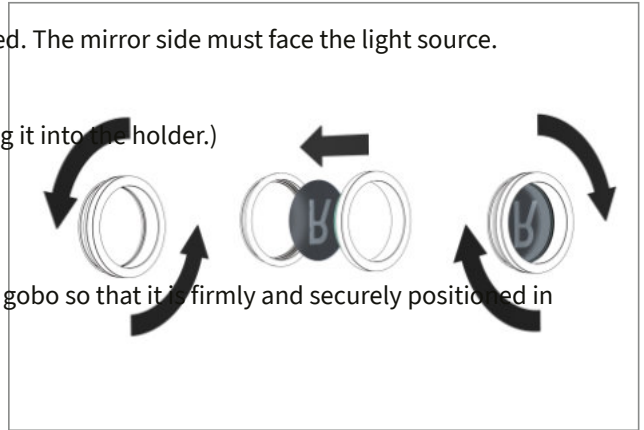


3. Insert the gobo into the holder with the motif mirror-inverted. The mirror side must face the light source.

4. (Make sure to only hold the gobo by the sides when inserting it into the holder.)

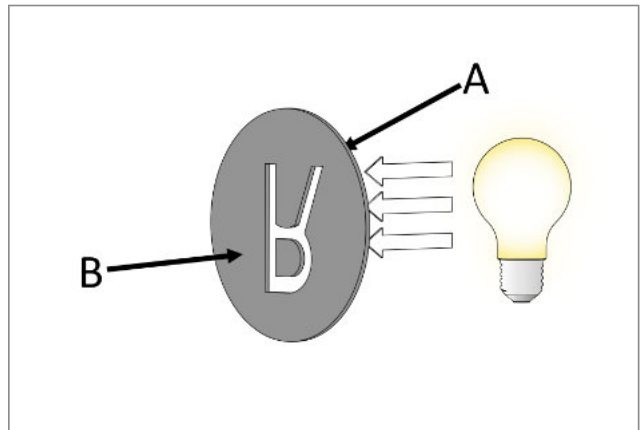
5. Ensure that the gobo is placed flat in the holder.

6. Screw the gobo holder together. Carefully press against the gobo so that it is firmly and securely positioned in the holder.



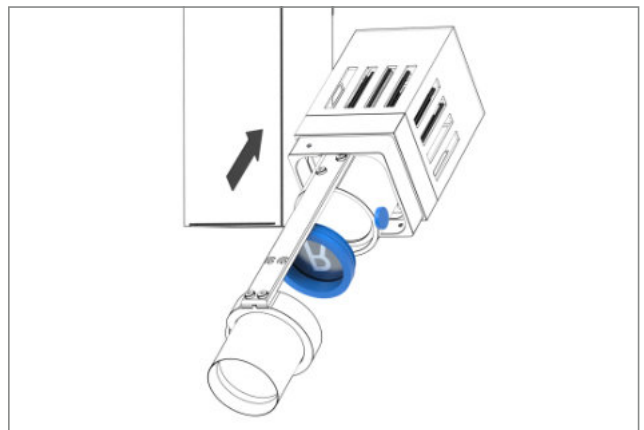
A. Mirror side: The coated side of the gobo. The mirror side faces the light source.

B. Dark side: The dark side of the coating can be seen through the glass. The dark side faces the lens.



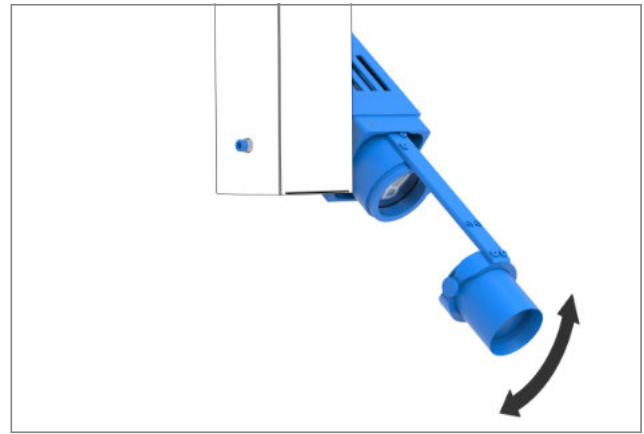
7. Insert the gobo holder into the projector head.

8. Tighten the knurled screw.



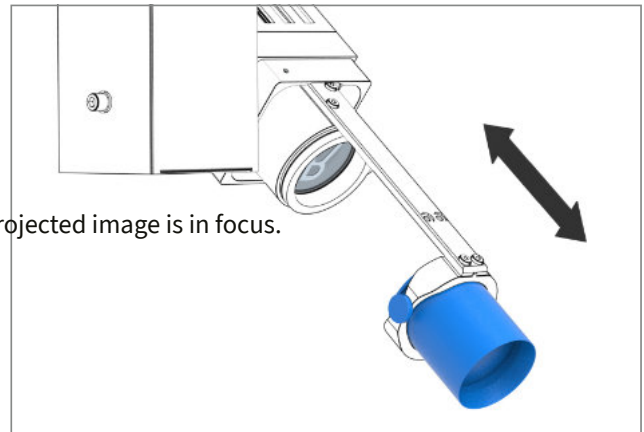
5.2. Aligning the projector head

1. Switch on the projector.
2. Loosen the locking screw.
3. Tilt the projector head into the desired position.
(Note: To avoid damage, there is a mechanical stop to limit the projector head's rotation.)
4. Fasten the locking screw.



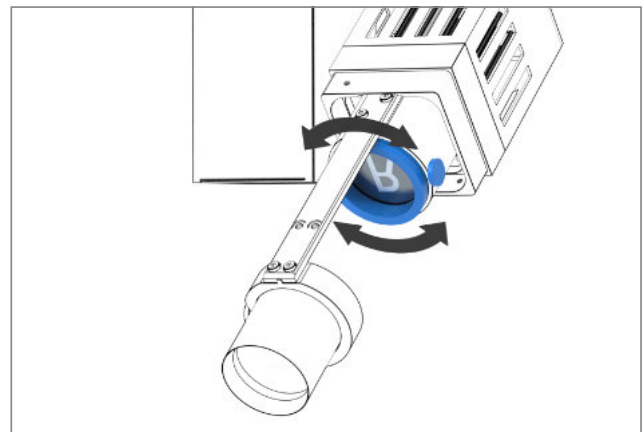
5.3. Adjusting the focus of the motif

1. Switch on the projector.
2. Loosen the knurled screw.
3. Reposition the projection lens within the holder until the projected image is in focus.
4. Tighten the knurled screw.



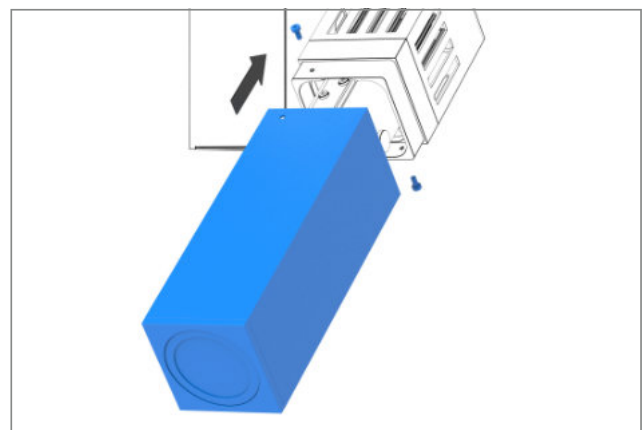
5.4. Rotating the projected image

1. Switch on the projector.
2. Loosen the knurled screw until the gobo holder can be rotated.
3. Rotate the gobo holder until the projected image has been aligned as desired.
4. Fasten the knurled screw.



5.5. Closing the projector housing

1. Carefully place the shell on the projection head and tighten it with the two fastening screws.



6. Cleaning



WARNING! Danger of electric shock!

An electric shock can cause serious injury or death.

- Switch off the mains supply to the projector before cleaning it.

- Clean the projector surface using a damp cloth. The surface can be damaged by solvents in cleaning agents.
- The preferred way of cleaning the heat sink is with compressed air. Cooling is not affected by a light build-up of dust. You should clean the projector every six months in locations where there is strong dust formation (e.g. industrial plants). In a normal environment it can be cleaned every 1–2 years.
- Use optic cleaning tissues if you notice any dirt on the projector's optical lenses.

7. Disposal

7.1. Disposal of packaging

Please do not dispose of packaging waste together with household waste. It should be disposed of separately. You can make use of tried-and-tested options for returning waste (e.g. recycling bin or waste paper bin). Further information on how to dispose of packaging properly and on the options available for returning packaging waste can be obtained from your city or municipal administration.

7.2. Disposal of the projector

The European Directive 2012/19/EU on waste of electrical and electronic equipment (WEEE) provides the framework for the EU-wide return and recycling of waste equipment. This directive was transposed into German law with the national Electrical and Electronic Equipment Act [ElektroG]. In accordance with the ElektroG, Orgatex GmbH is registered as a manufacturer with the German registration authority Stiftung Elektroaltgeräte Register (Office for Old Electrical Equipment Register, EAR). WEEE Reg. No.: DE 85724933

Our products are manufactured exclusively for the B2B (business to business) sector, and they must not be disposed of with household waste or at collection points at local public waste disposal facilities. At the end of the projector's life, please return it to Orgatex GmbH.

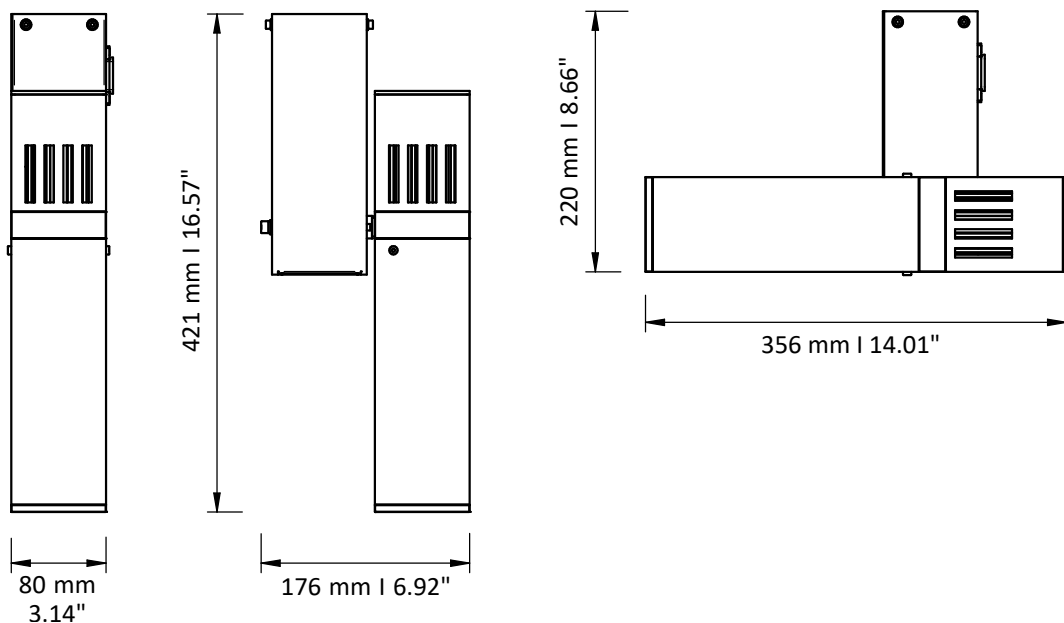
Contact Orgatex by phone, post or email (info@orgatex.de) with the subject 'recycling' and, if possible, provide the following information: Purchaser, purchase date, your mailing address. By returning products to the manufacturer, you are helping support the responsible use of natural resources and the environmentally friendly disposal of waste materials.



8. Technical specifications

eOX Spot 80

Housing material:	steel /aluminium, powder coated
Weight:	3.5 kg / 7.7 lbs
Cold device socket (C13):	on the back of the device
Area of application:	dry indoors
Ambient temperature:	-30°C – +35°C / -22°F – +95°F
Cooling:	active cooling / fan
Noise level:	29 dBA
Light source:	80 W High Power LED
Service life of LED (L70) at 25°C ambient temperature:	35,000 hours
Colour temperature:	6,300 - 6,700 Kelvin
Luminous flux of the projector:	4,730 lumens
Efficiency:	56 lumens / watt
Gobo size / Image size:	Ø 50 mm / Ø 40 mm
Input voltage:	220 – 240 V AC, 50 / 60 Hz
Power consumption:	84 W
Power factor:	cos φ = 0.95
Electrical protection class:	I
Type of enclosure protection:	IP20
Photobiological safety pursuant to ICE62471-5:2015 EN62471-5:2015:	RG-2
Order code / colour:	eOX-Spot-80 / black

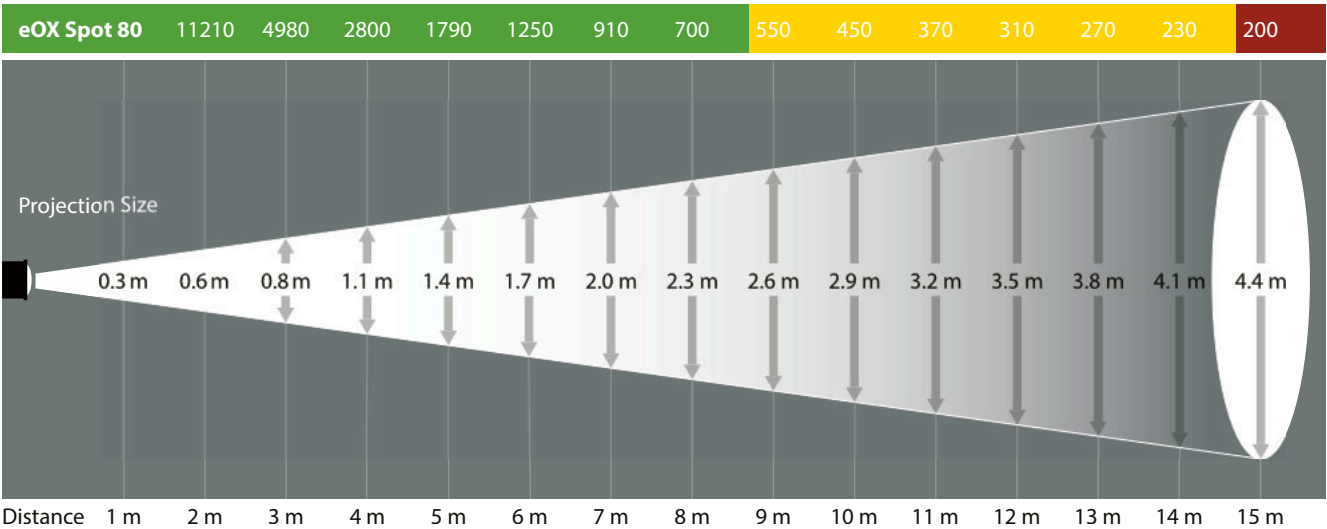


8.1. Photometric data

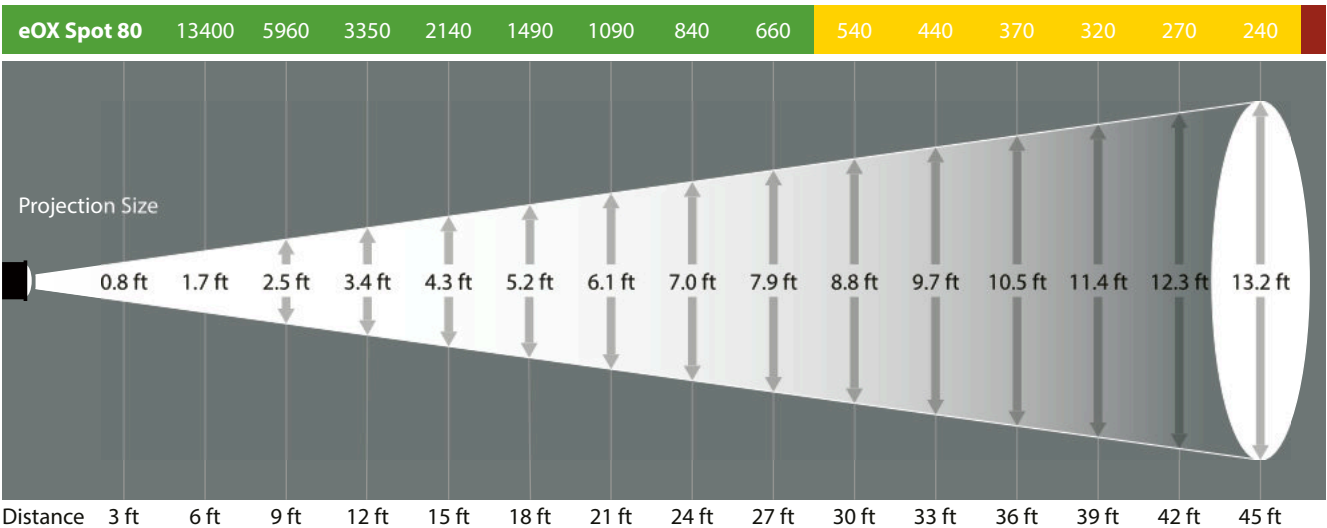
Note that as the distance increases, the projected image becomes larger and the illuminance decreases.

eOX Spot 80 | standard lens, $f = 135 \text{ mm}$, 17° | image size: $\varnothing 40 \text{ mm}$

Illuminance [lux]



Illuminance [lux]



Colour code for projection brightness

- = under normal interior lighting, suitable for coloured patterns
- = in poorly lit rooms, for colourless patterns
- = recommended only for darkened rooms

9. Projection Motifs

Forklift traffic, no admittance, pedestrians and much more: In the manufacturing industry as well as in many other sectors, warning and information signs are required on a regular basis. For standard situations, you will find ready-made motifs in our product range. Individual motifs are also possible.

suitable for eOX Spot 80

Forklift prohibited

Item-No.:
eOX-Spot-80-M-1



No pedestrian access

Item-No.:
eOX-Spot-80-M-2



Caution forklift truck area

Item-No.:
eOX-Spot-80-M-3



Pedestrian route

Item-No.:
eOX-Spot-80-M-4



Stop

Item-No.:
eOX-Spot-80-M-9



No trespassing

Item-No.:
eOX-Spot-80-M-17



Caution forklift truck area

Item-No.:
eOX-Spot-80-M-101



Konformitätserklärung / Declaration of conformity / Déclaration de conformité

Wir/we/nous :

Orgatex GmbH

Hersteller/
manufacturer/
fabricant :

Orgatex GmbH
Albert-Einstein-Str. 19
40764 Langenfeld | Germany



Diese Konformitätserklärung wird in unserer alleinigen Verantwortung erteilt/
This declaration of conformity is issued under our sole responsibility/
La présente déclaration de conformité est émise sous notre seule responsabilité

Produkt/product/produit :

eOX-Spot Projektionsscheinwerfer

Typ/type/type :

- eOX-Spot 20
- eOX-Spot 40
- eOX-Spot 80

Wir erklären hiermit, dass oben aufgeführte Produkte den folgenden, geltenden Vorschriften entsprechen/
We hereby declare that the products listed above apply with the following applicable regulations/
Nous déclarons par la présente que les produits énumérés ci-dessus sont conformes aux réglementations en vigueur suivantes :

Richtlinie zur Beschränkung der Verwendung bestimmter gefährlicher
Stoffe in Elektro- und Elektronikgeräten/
Directive on the restriction of the use of certain hazardous substances
in electrical and electronic equipment/
Directive relative à la limitation de l'utilisation de certaines substances
dangereuses dans les équipements électriques et électroniques :

2011/65/EU

EMV Richtlinie/EMV Directive/EMV Directive :

2014/30/EU

Niederspannungs-Richtlinie/Low Voltage Directive/
Directive basse tension :

2014/35/EU

Die folgenden Normen wurden angewandt/the following standards have been applied/Les normes suivantes ont été appliquées :

- | | | |
|--------------------------|------------------------|-----------------------|
| 1. EN 55015:2013+A1 2015 | 5. EN 62493:2015 | 9. EN 62471-5:2015 |
| 2. EN 61547:2009 | 6. EN 60598-1:2015+A1 | 10. IEC 62471-5:2015 |
| 3. EN 61000-3-2:2014 | 7. IEC 60598-2-1:2020 | 11. EN IEC 63000:2018 |
| 4. EN 61000-3-3:2013 | 8. IEC 60598-1:2014+A1 | |

Weiter bestätigen wir, die Vorgaben gemäß RoHS einzuhalten/
Furthermore we confirm to comply with the rules of the RoHS/
Nous confirmons également que nous respecterons les prescriptions RoHS !

Ort/place/lieu : Langenfeld
Datum/date/date : 1. März 2023

Unterschrift/signature/signature

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40764 Langenfeld | Germany

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e-mail: info@orgatex.de
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