

Operating instructions for Projector FLOOR Spot 80 and 150

FATH

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Translation into English



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Follow these operating instructions for correct and safe use.
Keep them in a safe place for future reference.



Change history

Ver- sion	Date	Reason	Responsible
1.0	27/03/2026	First valid version	FATH GmbH
1.1	02/06/2026	Extension of the 80-W variant	FATH GmbH

Overview of warning levels and tips

 **WARNING** Serious bodily injury or death possible

 **ATTENTION** Property damage

 **TIP** Tips for use / useful information

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Table of contents

1	Safety	5
1.1	Intended use.....	5
1.2	Misuse.....	6
1.3	Warning and mandatory signs	7
1.4	Target group for these operating instructions	7
1.5	Basic safety regulations.....	8
1.5.1	Hazard-conscious working.....	8
1.5.2	Modifications to the projector.....	8
1.6	Risks and hazards	9
1.6.1	Falling objects	9
1.6.2	Electricity and automatic start-up	9
1.6.3	Optical radiation.....	10
1.6.4	Fire and hot surfaces	10
1.6.5	Missing protective equipment.....	10
2	Description of the projector	11
2.1	General functional description	11
2.2	Variants.....	12
2.3	Important elements	13
2.3.1	Type plate	13
2.3.2	Scope of delivery.....	14
2.3.3	Elements of the projector	15
2.3.4	Projector open	16
2.3.5	Gobo fastening in the projector.....	17
2.4	Technical data	18
2.4.1	Ambient conditions.....	18
2.4.2	Projector FLOOR Spot 150	19
2.4.3	Projector FLOOR Spot 80.....	21
3	Transport, storage, unpacking	23
3.1	Transport.....	23
3.2	Storage	23
3.3	Unpacking.....	23

4	Utilisation	24
4.1	Preparation.....	24
4.2	Assembly and connection	25
4.3	Operation.....	26
4.4	Replacing the gobo.....	27
4.5	Disassembly	28
5	Care and disposal.....	29
5.1	Maintenance and cleaning	29
5.2	Disposal and recycling	31
6	Appendix	32
6.1	List of figures	32
6.2	List of tables.....	32
6.3	EU Declaration of Conformity	33

1 Safety

1.1 Intended use

The Projector FLOOR Spot is designed for use in commercial and industrial indoor environments. The projector serves for the static or rotating projection of symbols, warning signs, markings or decorative motifs onto floor surfaces.

The projector is used in particular in warehouses, logistics centres, shipping areas, production areas and similar commercial or industrial indoor environments to provide visual guidance for the movement of people and vehicles within the premises. Furthermore, the projector can also be used for decorative projections – such as logos or graphic motifs – in similar indoor settings.

The Projector FLOOR Spot must only be used as a unit comprising the projector and its accompanying power supply unit. The projector is designed to be permanently mounted above the projection area on structures with sufficient load-bearing capacity and must be secured against falling using the designated safety cable.

The unit may only be operated when in perfect working order, with the housing closed and the ventilation freed. The projector is intended for indoor use in areas where dust, dirt, draughts or briefly opened building entrances may occur from time to time.

If the projector is used for visual warnings, markings or traffic management, it must not replace any necessary organisational, traffic-related or structural safety measures.

1.2 Misuse

Any use of the projector other or beyond the use described in chapter "1.1 Intended use" is considered improper and therefore inappropriate.

In particular, the following are considered incorrect use:

- in an unprotected outdoor area or under unsuitable environmental conditions,
- in potentially explosive atmospheres or in areas containing flammable gases, vapours or highly corrosive atmospheres,
- with a damaged projector, damaged cables, a damaged power supply unit or a non-approved power supply unit,
- after unauthorised alterations, modifications or changes to electrical components,
- contrary to the assembly, connection, operation and maintenance instructions in these operating instructions,
- as the sole safety measure to secure traffic areas, hazardous areas or restricted areas,
- for projection in areas where the projection may be obscured, misinterpreted or misread in a way that poses a safety risk.

FATH GmbH **SHALL NOT** be liable for any resulting damage.

	General warning		Automatic start-up
	Electricity hazard		Hand injuries
	Hot surfaces		Optical radiation
	Refer to the instruction manual		De-energise before disassembly and maintenance
	Pull out the mains plug		

WARNING

Severe bodily injury or death due to untrained personnel handling the projector.

- ▶ The projector may only be handled by persons who have been trained in handling the projector.

Qualified
electri-
cians

1.5 Basic safety regulations

systems and recognise and independently avoid potential hazards due to their training and experience.

1.5 Basic safety regulations

The safety instructions in these operating instructions must be followed.

Only persons who can be expected to perform their work reliably are authorised as personnel. Persons whose ability to react is affected, e.g. by drugs, alcohol or medication, are **NOT** authorised.

1.5.1 Hazard-conscious working

Use the projector only:

- as intended, observing the risks and in compliance with these operating instructions,
- once the safety cable has been installed and is in working order,
- if it is in perfect technical condition.

This also includes:

- Change the gobo and/or maintain or clean the projector while it is switched off and has been secured to prevent it from reactivation.
- Tie back long hair and use a hair net if necessary.

1.5.2 Modifications to the projector

Modifications on the projector are generally prohibited. Please contact FATH GmbH if any modifications are required. Otherwise, all warranty claims become void.

1.6 Risks and hazards

1.6.1 Falling objects

Serious injuries due to falling projector.

- ▶ Only mount the projector on ceilings that are strong enough to support its weight.
- ▶ Always secure the installed projector with the safety cable.
- ▶ Use suitable brackets to mount the projector.



1.6.2 Electricity and automatic start-up

Electric shock from live parts.

- ▶ Only qualified electricians are permitted to perform work on electrical components.
- ▶ Install the projector before establishing the electrical connection.
- ▶ Only connect the power cable to an isolated earthed (Schuko) power socket.
- ▶ Disconnect the projector from the power supply before dismantling it or opening the housing.
- ▶ Do not touch any damaged cables.



Injuries possible due to automatic start-up.

- ▶ Disconnect the projector from the power supply before dismantling it or opening the housing.
- ▶ Disconnect the projector from the power supply before changing the gobo.
- ▶ Tie back long hair and wear tight clothing.



1.6.3 Optical radiation



Eye injuries possible due to optical radiation.

- ▶ **NEVER** remove covers unless these operating instructions specifically instruct you to do so in.
- ▶ Reinstall the covers as soon as the work behind the covers has been completed.
- ▶ Do not look directly into the projector while an image is being projected.
- ▶ Do not suppress the wink reflex.

1.6.4 Fire and hot surfaces



Serious injuries possible due to fire if adequate ventilation is not ensured.

- ▶ Dust and dirt may build up on the projector's housing. Clean the disassembled projector using a vacuum cleaner or by gentle application of compressed air.



Injury possible due to hot surfaces.

- ▶ After prolonged use, allow the projector to cool down before touching the housing.

1.6.5 Missing protective equipment

Serious injuries possible due to missing protective equipment.

- ▶ Before each use, the projector housing must be closed, clean and in good working order.
- ▶ Always secure the installed projector with the safety cable.

2 Description of the projector

2.1 General functional description

Table 1: Identification features

Product name	Projector FLOOR Spot
Year of manufacture	2025
Conformity with regulations and standards	EMC Directive 2014/30/EU RoHS Directive 2011/65/EU and Regulation (EU) 2015/863 Low Voltage Directive 2014/35/EU EN 55015:2019/A11:2020 EN 61547:2009 EN 61000-3-2:2014 and EN 61000-3-3:2013 EN 60598-1:2015/A1:2018 and EN 60598-2-1:1989

The Projector FLOOR Spot is mounted on the ceiling and is used to project either static or rotating images onto the floor.

2.2 Variants

★ **TIP**

- *The figures in the procedure descriptions are provided as examples and serve to illustrate the relevant principle.*
-

The Projector FLOOR Spot is available in a range of power variants. The variants differ in particular in terms of electrical power, dimensions, weight, gobo size and permissible projection distance.

This user manual applies to the following variants:

- Projector FLOOR Spot 80,
- Projector FLOOR Spot 150.

The basic function, intended use, safety regulations and instructions for assembly, operation, maintenance and disassembly apply equally to all variants, unless otherwise stated in these operating instructions.

For the applicable technical data, see the relevant section in chapter "2.4 Technical data". Before installation, connection and operation, check which variant you have. The variant can be identified from the type plate and the technical specifications.

2.3 Important elements

2.3.1 Type plate

See the following figure for an example of the type plate of the projector. The type plate is located on the housing, on the fastening bracket.

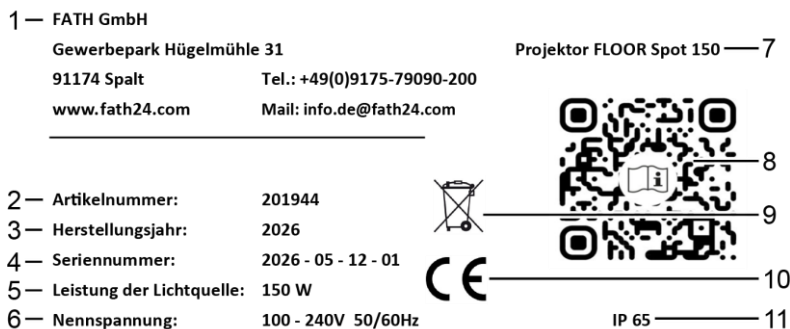


Figure 1: Type plate

Pos.	Designation
1	Manufacturer incl. contact details
2	Item number
3	Year of manufacture
4	Serial number
5	Power
6	Voltage
7	Type designation
8	QR code for further information
9	Do not dispose of in household waste
10	CE marking
11	IP protection class

2.3.2 Scope of delivery

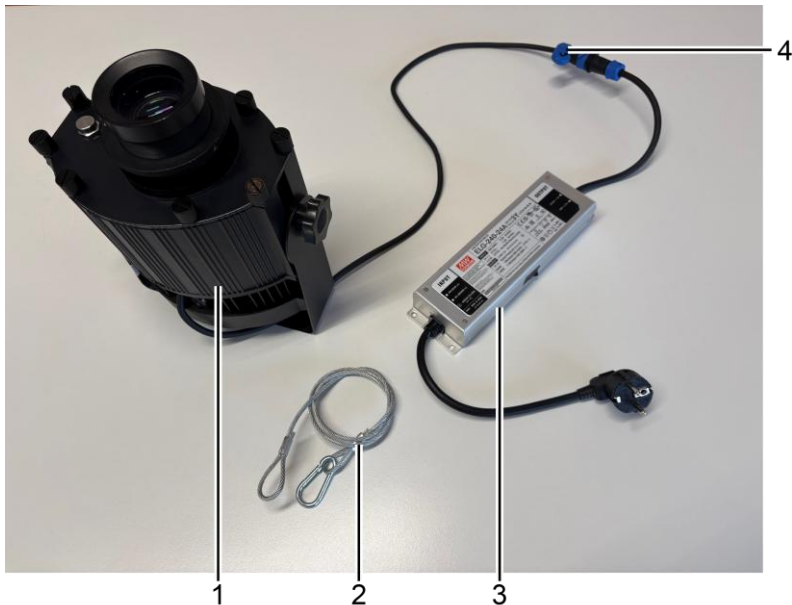


Figure 2: Scope of delivery of the Projector FLOOR Spot

Pos.	Designation
1	Projector
2	Safety cable
3	Power supply unit with pos. 4
4	Cap nut for fastening on the projector
	Operating instructions

★ **TIP**

- Gobos featuring your choice of images for projection are optionally available. Contact FATH GmbH if required.

2.3.3 Elements of the projector

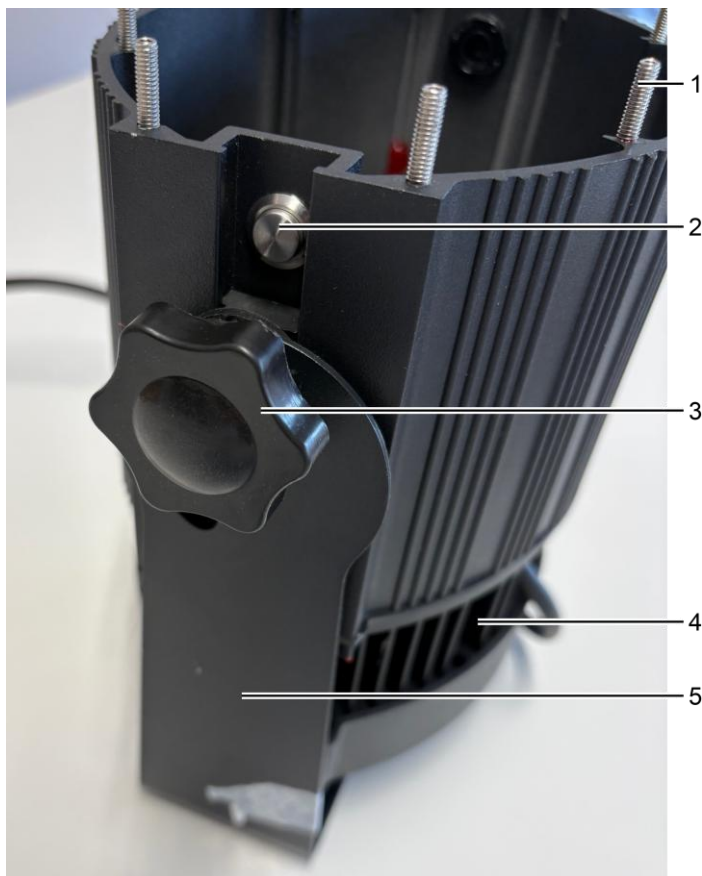


Figure 3: Important elements of the projector

Pos.	Designation
1	Lock screw for housing cover with lens
2	On/off button for rotating the projected image
3	Screw for correct adjustment
4	Ventilation slots
5	Fastening bracket

2.3.4 Projector open

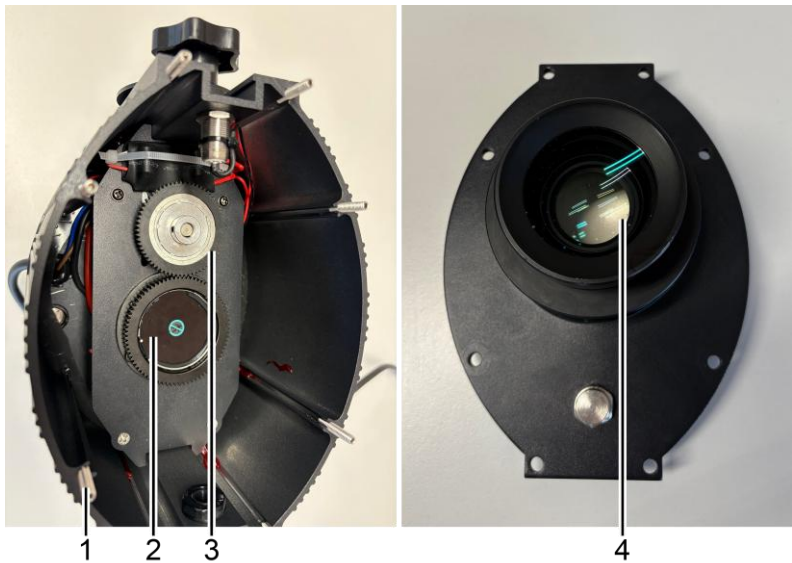


Figure 4: Projector open

Pos.	Designation
1	Lock screw for housing cover with lens
2	Gobo with retaining ring
3	Drive for rotating the projected image
4	Lens in housing cover

2.3.5 Gobo fastening in the projector

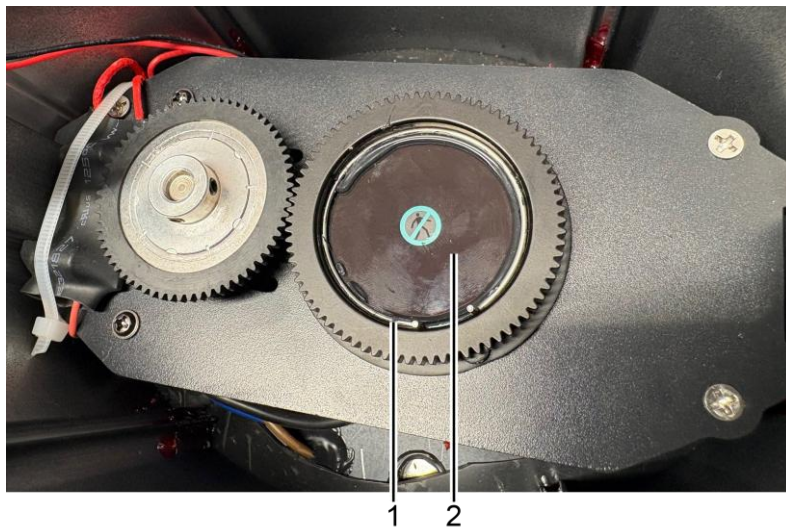


Figure 5: Gobo in the projector

Pos.	Designation
1	Retaining ring
2	Gobo

2.4 Technical data

2.4.1 Ambient conditions

Table 2: Ambient conditions

Ambient temperature	[°C]	+15 ... +35
Storage temperature	[°C]	+15 ... +35
Site of use, storage location		Dry interior
Relative humidity	[%]	< 80

The Projector FLOOR Spot is designed for use in commercial and industrial indoor environments. Permitted sites of use include warehouses, logistics centres, shipping areas and production areas.

Operation is permitted even in the presence of normal in-plant environmental conditions such as dust, drafts and sliding gates that are occasionally open.

Operation is not permitted in unprotected outdoor areas or in environments where there is a risk of corrosion, explosion or the presence of flammable substances.

Any use in different environmental conditions requires prior written approval by FATH GmbH.

2.4.2 Projector FLOOR Spot 150



Figure 6: Scope of delivery of the Projector FLOOR Spot 150

Table 3: Dimensions & technical data of Projector FLOOR Spot 150

Length x width x height	[mm]	approx. 260 x 250 x 150
Weight	[kg]	3.7
Material		Painted aluminium Fastening bracket: Steel
Gobo dimensions	[mm]	2.25 thick; ø 41.5
Projection distance	[m]	4 ... 25
Voltage	[V]	24
Frequency	[Hz]	50/60
Power	[W]	150
IP protection class		IP65

Table 4: Electrical data of Projector FLOOR Spot PSU

		Input	Output
Current	[A]	1.7	6.25
Voltage	[V]	100 ... 240	24
Frequency	[Hz]	50/60	
Power	[W]		150
IP protection class		IP65	

2.4.3 Projector FLOOR Spot 80



Figure 7: Scope of delivery of the Projector FLOOR Spot 80

Table 5: Dimensions & technical data of Projector FLOOR Spot 80

Length x width x height	[mm]	approx. 280 x 200 x 150
Weight	[kg]	3.5
Material		Painted aluminium Fastening bracket: Steel
Gobo dimensions	[mm]	1.1 thick; $\varnothing$ 37.5
Projection distance	[m]	1 ... 15
Voltage	[V]	24
Frequency	[Hz]	50/60
Power	[W]	80
IP protection class		IP65

2.4 Technical data

Table 6: Electrical data of the Projector FLOOR Spot 80 PSU

		Input	Output
Current	[A]	1.1	4
Voltage	[V]	100 ... 240	24
Frequency	[Hz]	50/60	
Power	[W]		96
IP protection class		IP65	

3 Transport, storage, unpacking

3.1 Transport

The projector and its accessories will be sent in a shipping box by courier.

3.2 Storage

Store the project in a covered, dry and swept clean room. Follow the information on storage temperature and humidity, see chapter "2.4.1 Ambient conditions".

3.3 Unpacking

Please check that the contents of the shipping box are complete:

- Projector,
- Power supply unit,
- Safety cable,
- Gobo if any; see delivery note,
- Operating instructions.

★ **TIP**

- *Keep the packaging if you need to repack the projector or want to store it for a longer time.*
-

The packaging material consists of plastic and cardboard. Separate the packaging material according to material and recycle it in an environmentally friendly manner.

4 Utilisation



Falling and serious injuries possible while working at height.

- ▶ Use suitable means of access.
- ▶ Secure your stand.

4.1 Preparation

Prerequisites:

- The projector is deenergised and all the cables are undamaged and intact.
- The assembly site is accessible and has sufficient load-bearing capacity.
- Suitable equipment for working at height is available.
- The required gobo is available.
- A power supply unit, safety cable and suitable fastenings are available.
- The planned Schuko power socket for the projector can be switched on and off from the floor.

Prepare the projector for assembly as follows:

1. Switch off the power at the Schuko power socket into which the projector is to be plugged.
 2. Check that the assembly site is safely accessible.
 3. Provide suitable equipment for working at height.
 4. Make sure that the power supply unit, safety cable and suitable fastenings are available.
 5. Check that the required gobo is in place.
 6. Replace the gobo before assembly, if required; see the chapter "4.4 Replacing the gobo".
- ✓ The projector is ready for assembly.

4.2 Assembly and connection



WARNING

A falling projector can cause serious injury.



- ▶ Secure the projector well.
 - ▶ Attach the safety cable as well.
-



WARNING

There is a risk of electric shock if connected incorrectly.



- ▶ Only connect the projector when deenergised.
 - ▶ Ensure there is sufficient ventilation so that the projector does not overheat during operation.
-

Prerequisites:

- The assembly has been prepared; see the chapter "4.1 Preparation".
- The desired gobo has been inserted.

Install and connect the projector as follows:

1. Fasten the projector above the projection area on a ceiling, wall, bracket or similarly suitable supporting structure that is sufficiently strong to bear the weight.
2. Check that the projector is securely in place.
3. Attach the safety cable to the projector.
4. Fasten the safety cable to the anchor point.
 - ♦ The projector is secured to prevent it from falling.
5. Plug the power supply unit into the projector.
6. Tighten the blue cap nut.
7. Plug the power supply unit into the Schuko power socket.

It is best to use a socket that can be switched on and off from the floor.

8. Aim the projector at the designated area on the floor. Make sure that people cannot look directly into the light beam for any length of time. To do so, use the two adjustment screws (pos. 3, Figure 3).
- ✓ The projector has been installed and connected.

4.3 Operation



Eye injuries possible from the light beam.

- ▶ Do not look into the lens.
- ▶ Do not suppress the wink reflex.

Prerequisites:

- The projector has been installed and connected, see chapter "4.2 Assembly and connection".
- The safety cable is hooked in.

Operate the projector as follows:

1. Switch on the Schuko power socket.
 - ✦ The projector lights up.
2. Turn the lens by its fine thread.
3. Check the image sharpness on the floor.
4. If the image is out of focus, repeat step 2.
5. Press the button on the side (pos. 2, Figure 3) once.
 - ✦ The projected image is rotating.
6. Press the button on the side again if you no longer want the image to rotate.
 - ✦ The projected image is no longer rotating.
- ✓ The projector projects a sharp image, rotating it if required.

4.4 Replacing the gobo



CAUTION

Crushing of fingers possible due to the rotating mechanism.



- ▶ Only replace the gobo if you have received adequate instruction.
 - ▶ Disassemble the projector before replacing the gobo.
 - ▶ Only replace the gobo while deenergised.
-

Prerequisites:

- The projector has been disassembled, see chapter "4.5 Disassembly", and stored safely.
- The required gobo is available.

Change the gobo of the projector as follows:

1. Remove the screws from the housing cover with the lens.
 2. Put the screws aside in an orderly manner.
 3. Remove the housing cover with the lens.
 4. **ATTENTION! Scratches on the lens possible.**
Do not put the housing cover on the lens.
 5. Remove the retaining ring from the projector (pos. 1, Figure 5).
 6. If any, remove the existing gobo (pos. 2, Figure 5).
★ *Tip: If the gobo is stuck, hold the projector at a slight downward angle.*
 7. Insert the new gobo.
 8. Install the retaining ring.
 9. Install the housing cover with the lens.
 10. Install the screws.
 11. Tighten the screws alternately.
- ✓ The gobo has been replaced.

4.5 Disassembly



A falling projector can cause serious injury.

- ▶ Hold the projector securely in place during disassembly.
- ▶ Remove the safety cable last.

Prerequisites:

- The projector is deenergised.
- Suitable equipment for working at height is available.

Disassemble the projector as follows:

1. Switch off the projector's Schuko power socket.
 2. Unplug the power supply unit from the Schuko power socket.
 3. Loosen the power supply unit from the projector.
 4. Hold the projector securely in place.
 5. Loosen the projector's main fastening.
 6. Remove the safety cable last.
 7. Remove the projector carefully.
- ✓ The projector has been disassembled.

5 Care and disposal

5.1 Maintenance and cleaning



WARNING

Electric shock or burns possible due to incorrect maintenance.



- ▶ Only maintain the projector if you have received adequate instruction.
- ▶ Allow the projector to cool down before performing any maintenance work.
- ▶ Only maintain the projector when deenergised.



CAUTION

Crushing of fingers possible due to the rotating mechanism.



- ▶ Disassemble the projector before maintaining the projector.
- ▶ Only maintain the projector when deenergised.

If required, adjust the maintenance intervals to suit local conditions.

Table 7: Projector maintenance intervals

Interval	Task
monthly	Visual inspection for dirt and damage: Projector and power supply unit, in particular the housing, power supply unit, cables and connectors
quarterly	Cleaning the lens while damp Cleaning the ventilation slots

ATTENTION

Property damage possible due to incorrect cleaning.

- ▶ Always clean the projector using a dry method, such as a vacuum cleaner or by gentle application of compressed air.
 - ▶ **NEVER** use harsh cleaning agents or water for cleaning.
 - ▶ Clean the lens with a soft, lint-free cloth lightly dampened with a mild cleaning solution.
 - ▶ Always store the projector in a dry place.
-

Prerequisites:

- The projector is deenergised and has been disassembled; see chapter "4.5 Disassembly".
- Suitable cleaning products are available.

Clean and maintain the projector as follows:

1. Clean the projector housing using a vacuum cleaner or by gentle application of compressed air.
 2. Clean the lens with a soft cloth and a mild cleaning agent.
 3. Check the lens for dirt and scratches.
- ✓ The projector has been cleaned and maintained.

5.2 Disposal and recycling

Ensure safe and proper disposal, especially of parts or substances that are harmful to the environment.

The disposal of the projector must comply with local waste disposal regulations and environmental legislation. The local municipal authority can provide you with information on this.



Ensure the correct disposal of materials that can be recycled in an environmentally friendly manner.

The packaging material consists of plastic and cardboard. Separate the packaging material according to material and recycle it in an environmentally friendly manner.

6.3 EU Declaration of Conformity

in accordance with the Low Voltage Directive 2014/35/EU

1. Product / Subject of the declaration: see type plate

2. Manufacturer	3. Authorised representative for the compilation of the documents
FATH GmbH	FATH GmbH
	CTO
Gewerbepark Hügelmühle 31	Gewerbepark Hügelmühle 31
D-91174 Spalt	D-91174 Spalt

4. The manufacturer bears sole responsibility for issuing this declaration of conformity.

5. The subject matter of the declaration described above complies with the relevant Union harmonisation legislation:

- Directive 2014/35/EU (relating to the making available on the market of electrical equipment designed for use within certain voltage limits)
- Directive 2014/30/EU (relating to electromagnetic compatibility)
- Directive 2011/65/EU (on the restriction of the use of certain hazardous substances in electrical and electronic equipment), as amended by Delegated Directive (EU) 2015/863

6.3 EU Declaration of Conformity

6. The following harmonised standards or technical specifications have been applied:

- EN IEC 55015:2019/A11:2020 [Implementing Decision (EU) 2020/1630, OJ L 366, 04/11/2020, p. 17]
- EN 61547:2009 [Implementing Decision (EU) 2019/1326, consolidated version; basic act: OJ L 206, 06/08/2019, p. 27]
- EN 61000-3-2:2014 [published in the Official Journal as part of the EMC harmonisation process; corrigendum in OJ C 403, 01/11/2016, p. 26]
- EN 61000-3-3:2013 [Implementing Decision (EU) 2019/1326, consolidated version; basic act: OJ L 206, 06/08/2019, p. 27]
- EN 60598-2-1:1989 [Implementing Decision (EU) 2019/1956, consolidated version; basic act: OJ L 306, 27/11/2019, p. 26/39]
- EN 60598-1:2015/A1:2018 [Implementing Decision (EU) 2019/1956, consolidated version; basic act: OJ L 306, 27/11/2019, p. 26/39]

Signed on behalf of Fath GmbH by Mirko Jan Fath, CTO.