

Operating Instructions

X4 atom free connect



Version: 1.1 (2018-03-02) - en-us



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1 Format conventions

This manual contains recurring descriptive elements that reflect the function of certain information:



Warning

Indicates a hazard with a medium level of risk, that may result in severe injury or death if it is not avoided.



Attention

Risk of equipment damage.



Advice

Indicates a helpful note in the current context.

One or more **bolded** words indicate a term that can be found exactly the same on the product.

One or more *italicized* words indicates an index entry or an important technical term.

1. Instructions are numbered.

- ✓ As are results or outcomes of these actions.

2 Safety

2.1 General safety information



Important information

- Read documentation carefully
- Observe the safety information in this chapter
- Follow instructions and warnings
- Only use equipment as instructed in this document
- Observe notes and symbols on the product
- Keep documentation on hand for later reference
- Pass documentation on to the next user
- Keep available near the system at all times
- Observe documentation for additional components used as well



Danger through electrical voltage

- Only connect equipment to a grounded safety socket
- Do not let the equipment come into contact with liquids or moisture
- Completely cut the power to the equipment before installation, cleaning, maintenance, or repairs
- Do not clean equipment under running water or by immersing in liquid



Proper handling

- Do not make any modifications to the equipment
- Do not drop equipment or expose it to severe mechanical pressure. The equipment can sustain heavy damage from the impact.
- Keep equipment safe from moisture, splashing water, and heat exposure.
- Maintain an adequate distance from surfaces sensitive to heat (min. 20 cm).
- Regularly check equipment for damage. If damaged, turn the equipment off and fully disconnect from the power supply. Contact customer service or retailer.



Maintenance and repair

- Do not repair equipment yourself. Contact customer service or retailer.

2.2 Intended use

This device is developed for commercial use. Private use is not permitted.

It may only be operated indoors or outdoors.

Protect against moisture and spray water.

The device serves as a power source and DMX signal receiver and transmitter for X4 atom headlights at events. It may not be used for any other purpose.

This device is not intended to be used by people with limited physical, sensory or mental capabilities or lack of experience and/or lack of knowledge unless supervised or instructed by a person responsible for their safety the device.

The manufacturer is not liable for damage caused by improper use of the device.

3 Transport and storage



Attention

Do not drop equipment or expose it to severe mechanical pressure. The product can sustain damage from the impact.

Only store equipment in dry areas.

Use the supplied or appropriate packaging material for storage and transport.

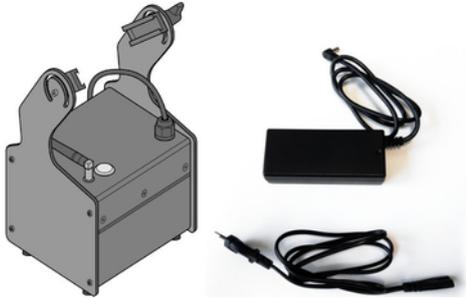
To lift the device, grasp the casing with both hands.

4 Scope of delivery



Advice

Check the scope of delivery for completeness after unpacking.
Check device for visible damage.



Number/component	Description
1 x X4 atom free connect	
1 x Power cable	To charge the battery
1 x Operating instructions	



Advice

Order optional accessories directly from your specialist retailer. List to be found online at www.germanlightproducts.com.

5 Description of devices

Overall view

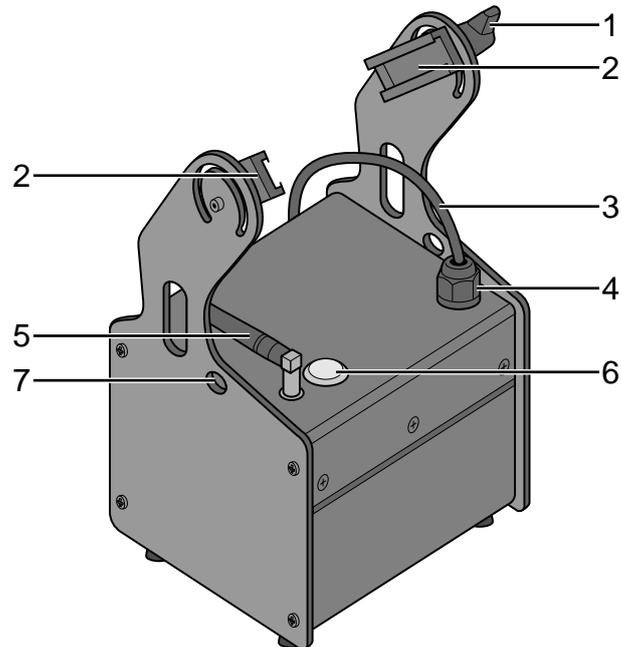


Image 1: Description - X4 atom free connect

- | | |
|-------------------------|---------------------------------|
| 1 Thumb screw | 5 Antenna |
| 2 Fixing rails | 6 On/off latching switch |
| 3 XLR cable | 7 2 x safety eyelet |
| 4 XLR connection | |

Underside

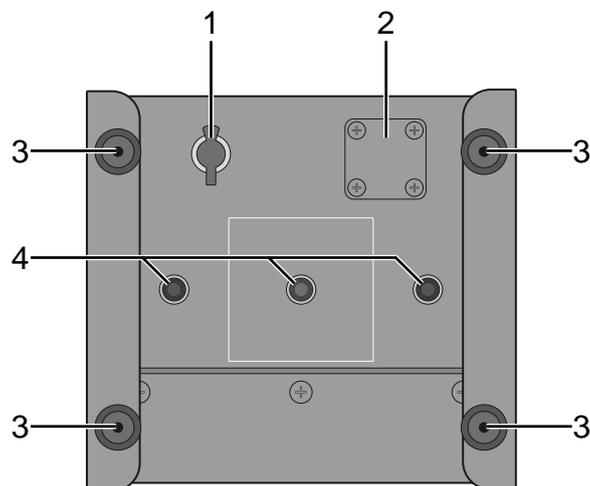


Image 2: Description - underside

- | | |
|--------------------------------|---------------------------------------|
| 1 Mains connection | 3 4 x rubber feet |
| 2 Firmware Update Cover | 4 3 x M10 threaded connections |

6 Assembly and connection

6.1 X4 atom



Attention

The X4 atom free connect is only compatible with the X4 atom headlight.

- Use only an X4 atom head light.
-



Advice

Observe the X4 atom's operating instructions.

Assemble the X4 atom

1. If the X4 atom yokes are attached, then remove the yokes.
2. Push the X4 atom with the side brackets into the fixing rails of the X4 atom free connect until the release buttons click into place.
3. Plug the XLR cable into the XLR socket on the back of the X4 atom.
 - ✓ The X4 atom is assembled on the X4 atom free connect.

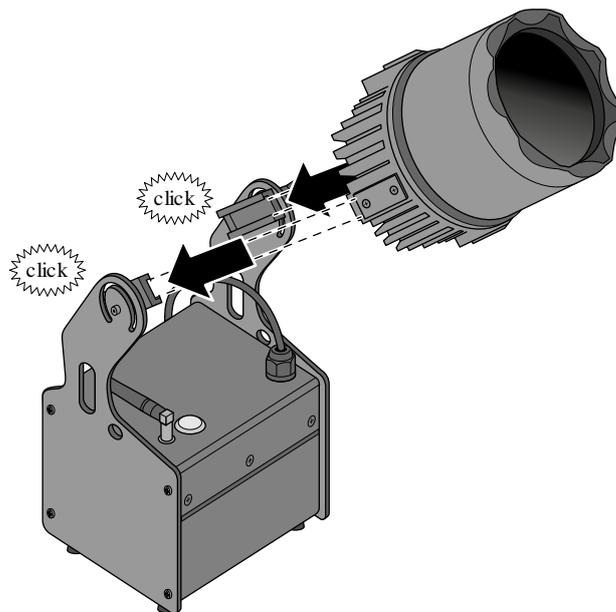


Image 3: Assembly X4 atom

Swivel the X4 atom

1. Loosen the side thumb screw with just 1 to 2 turns until the fixation is released.
2. Swing the X4 atom into the desired position. The swing radius is 240°.
3. Tighten the side thumb screw.
 - ✓ The X4 atom is in the desired position.

Remove the X4 atom

1. Keep both release buttons pressed on the fixing rails.
2. Slide out the X4 atom at the same time.
 - ✓ The X4 atom is removed.

6.2 Set up device



Safety information

- Only qualified personnel may install the device.
- Observe VDE 0711-217 requirements.

The device can be operated standing on the ground, sideways and hanging.

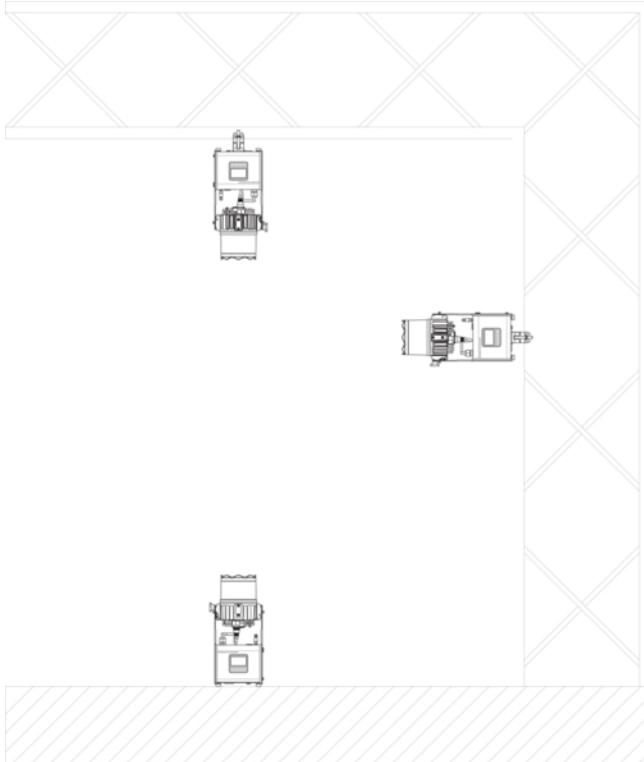


Image 4: Setup possibilities

Set the device on the ground

Conditions

- Firm, level ground
- ▶ Place the device on the ground with 4 rubber feet.
 - ✓ The device is now ready for use.

Fix the device sideways

Conditions

- Half coupler
 - M10 threaded screws, max. 11 mm long
1. Screw a half coupler with M10 threaded screws on the underside of the X4 atom free connect in one of the M10 threaded connections.
 2. Attach the half coupler to a suitable scaffold with the X4 atom free connect.
 3. Secure the X4 atom free connect using the safety eyelets.
 - ✓ The device is now ready for use.

Attach the device hanging

Conditions

- Half coupler
- M10 threaded screws, max. 11 mm long

1. Screw a half coupler with M10 threaded screws on the underside of the X4 atom free connect into the center M10 threaded connection.
2. Attach the half coupler to a suitable scaffold with the X4 atom free connect.
3. Secure the X4 atom free connect using the safety eyelets.
 - ✓ The device is now ready for use.

7 Operation

7.1 Recharge battery

Fully charged, the battery lasts approximately 8 hours depending on usage conditions.

1. Open the cover from the power input on the bottom of the X4 atom free connect.
2. Plug the power cable into the bottom of the X4 atom free connect.
3. Plug in the plug of the power cable into a power socket.
 - ✓ When the battery is charging, the signal light on the power supply is red.
 - ✓ When the battery has fully charged, the signal light on the power supply is green.

7.2 Switch on the device

Conditions

- The battery is charged
- ▶ Press the on/off switch so that it clicks into place.
 - ✓ After a few seconds, the device is ready for use.

7.3 Establish wireless connection

Conditions

- DMX Transmitter LumenRadio CRMS or compatible systems
- The X4 atom free connect is switched on
- At this time there is no connection to the X4 atom free connect
- ▶ Press the left button on the DMX transmitter.
 - ✓ The transmitter automatically connects to all receiving devices that are within range.

Disconnect wireless connection

On the X4 atom free connect

1. Open the menu **Special**.
2. Choose **Unlink wireless** and confirm with **OK**.
 - ✓ In **Wireless PDA**-Menu appears on 00.
 - ✓ The wireless connection is disconnected.

At the DMX transmitter

- ▶ Choose "unlink all".
 - ✓ The wireless connection is disconnected.

7.4 Control device

Control panel

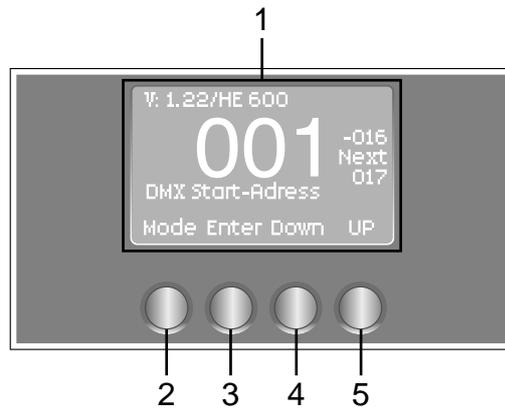


Image 5: Control panel

- 1 Display
- 2 **MODE**: Opens the main menu
- 3 **ENTER**: Open menu item or confirm setting
- 4 **DOWN**: Navigate up/increase value
- 5 **UP**: Navigate down/decrease value

Use DMX control

Conditions

- There is a radio connection between X4 atom free connect and the DMX transmitter
- ▶ Control the X4 atom free connect with a DMX control.

7.5 Menu structure

The menu structure consists of up to 5 menu levels.

7.5.1 DMX start address

Level 2	Level 3	Level 4	Level 5
1 - 511			

7.5.2 DMX LED start address

Level 2	Level 3	Level 4	Level 5
1-504			

7.5.3 Special

Level 2	Level 3	Level 4	Level 5
Manual DMX	Master intensity	0-255	
	Fixture	1-12	
	Zoom	0-255	
	Special	0-255	
	White temperature	0-255	
	Dimmer	0-255	

Level 2	Level 3	Level 4	Level 5	
	Shutter	0-255		
	White	0-255		
	Blue	0-255		
	Green	0-255		
	Red	0-255		
	Color wheel	0-255		
Adjust	Key code	0-255		
	Display contrast	{-8}-8		
	PWM-frequency adjust	582-618		
	Max zoom adjust	{-99}-99		
	Self inspection			
	LED adjust	White adjust red		{-99}-99
		White adjust green		{-99}-99
		White adjust blue		{-99}-99
		White adjust white		{-99}-99
		Offset adjust red		{-99}-99
		Offset adjust green		{-99}-99
		Offset adjust blue		{-99}-99
		Offset adjust white		{-99}-99
Fixture		1-12		
Battery cycle count	0-512			
Wireless PDR	0-100			
Unlink wireless				
Default full feature				
Display black out	ON/OFF			
DMX hold	ON/OFF			
Set DMX image	Set image if DMX off	ON/OFF		
	Save image in memory			
Set dimming mode	Linear dimming			
	Extr.soft dimming			
	Soft dimming			

Level 2	Level 3	Level 4	Level 5
DMX input monitor	Master intensity	0-255	
	Fixture	1-12	
	Zoom	0-255	
	Special	0-255	
	White temperature	0-255	
	Dimmer	0-255	
	Shutter	0-255	
	White	0-255	
	Blue	0-255	
	Green	0-255	
	Red	0-255	
	Color wheel	0-255	

7.5.4 Self test program

Level 2	Level 3	Level 4	Level 5
ON/OFF			

7.5.5 Live time

Level 2	Level 3	Level 4	Level 5
0 - 99999			

7.5.6 Set DMX mode

Level 2	Level 3	Level 4	Level 5
DMX RGBW mode			
DMX white mode			
DMX compressed mode			

7.5.7 Reset

Level 2	Level 3	Level 4	Level 5
ON/OFF			

7.6 Switch off device

- ▶ Disconnect the device from the power supply.
 - ✓ The device is switched off.

8 Cleaning and maintenance

The X4 atom free connect is a low-maintenance device. Depending on the operating environment, surfaces must nevertheless be cleaned at regular intervals.

**Warning**

Danger of electrical shock. Electric cables can cause serious injury if they come into contact with cleaning agents.

- Disconnect the mains plug before cleaning.
 - Observe local health and safety regulations.
 - Wait until the device has cooled down after previous operation.
 - Do not repair the device yourself. Contact the customer service or retailer. ([see chapter 11](#))
-

1. Clean the surface with a dry, soft and clean cloth.
-

**Attention**

Do not use aggressive detergents, alcohol or other chemical agents.

2. Suck or sweep away dust from the openings.
 - ✓ The cleaning is complete.

9 Technical data

Version	X4 atom free connect
Voltage output	24 V ± 0,5 V
Output current	2,5 A ± 0,5 A
Effective range	120 M 130 yd
IP-protection class	IP65
Safety certificate	UN38.3
Device dimensions	259 x 150 x 140 mm 10.2 x 5.91 x 5.51 inch
Weight (net)	4.1 kg 9.04 lbs
Compatible systems	LumenRadio CRMX and compatible systems
	Battery
Capacity	7.650 mAh
Input	42.5 VAC, 3 A
Output	42 VDC, 15 A
	Power supply
Power input	100 – 240 VAC~50/60 Hz 1.2 A 120 VA
Output power	42.5 VAC, 2 A
	Antenna
S.W.R.	<= 2.5 @ 2400 – 2500 MHz
Frequency range	2400 – 2500 MHz
Impedance	50 Ohm
Profit (max.)	2.8 dBi @ 2400 – 2500 MHz
Polarization	Vertical
	Operating conditions
Operating temperature	0 – 45°C 32 – 113°F
Storage temperature	-20 – 45°C -4 – 113°F
Humidity	Maximum 90%, non-condensing

10 Recycling/disposal/environmental protection



Recycling

Dispose of packaging material in an environmentally friendly manner in accordance with local waste disposal regulations.



Dispose of residues of operating materials in accordance with locally or operationally applicable disposal regulations.

After decommissioning and disassembly of the system or individual components, these must be disposed of in agreement with the manufacturer according to local regulations.

Do not dispose of batteries and rechargeable batteries in household waste. Dispose of batteries and rechargeable batteries at designated collection points.

This device is marked in accordance with the European Directive 2012/19/EU on waste electrical and electronic equipment.

Electrical and electronic devices must not be disposed of with household waste. Their components must be supplied separately for reuse and disposal.

At the end of its service life, return the device free-of-charge to the manufacturer, point of sale or a public collection point set up for this purpose.

11 Contact

Manufacturer

GLP German Light Products, Inc.
1145 Arroyo Ave., Unit A
San Fernando, CA 91340

Support

Online	www.germanlightproducts.com To use the online support, it is required to go through a one-time registration process. Then log into the online support using your registered user account.
E-mail	support@germanlightproducts.com
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