# Manua struction

# impression<sup>®</sup> X4 Bar 10



from software version: v0.26



support@glp.de www.glp.de

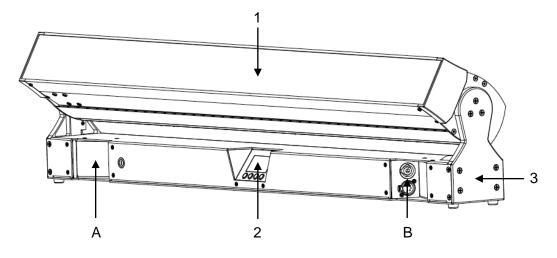


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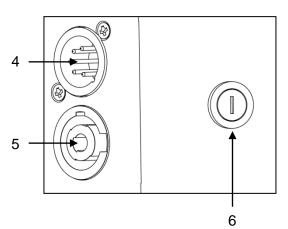
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### 1 Description of Device

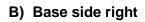


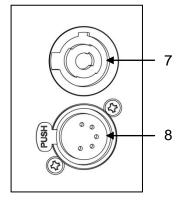
- 1. Moving Bar (actively and passively cooled)
- 2. LCD-Display / Menu (data entry)
- 3. Base with rubber feet and Camlock mounting system



#### A) Base side left

- 4. DMX Input (5 pin)
- 5. Mains Input (blue powerCON)
- 6. Micro-fuse 5x20mm, T5A





- 7. Mains Output (white powerCON)
- 8. DMX Output (5 pin)



#### 1.1 Safety Instructions



The **IMPRESSION X4 Bar 10** is a High-Tech Product. To guarantee a smooth operation, it is necessary to respect the following rules. The manufacturer of this device will not take responsibility for damages through any disregard of the information provided in this manual. Warranty claims also will be voided in the case that the fixture housing is opened.

- 1. Before powering on the fixture, make sure that the fixtures fans and air inlets are clean and not blocked.
- 2. Ensure that the fixture head can rotate unhindered throughout its complete range of pan and tilt movement. A safety distance of at least 0.5 m must be maintained between the fixture and any easily inflammable material (e.g. decoration material).
- 3. <u>Attention!</u> Don't touch the fixture during the operation. This can cause injuries and/or damages.
- 4. <u>The fixture doesn't contain any user serviceable parts. Opening the fixture will void all warranties.</u>
- It is necessary to wait at least 15 minutes after disconnecting the mains power before handling the fixture.. Pay attention to possible hot parts of the fixture.
  <u>-- Danger of BURNING --</u>
- Never look directly into the beam of light or into one of the LEDs. Never use optical apertures to observe the beam of light. <u>LED Class 2M.</u> You'll risk serious injury of your eyes and in particular of your retina.



**Attention:** LED Class 2M can cause injuries of your eyes even without optical instruments in front of them or within a distance of less than 0.5m and short exposure time.

Hence: Avoid direct radiation into your eyes!

- To ensure safe operation, follow also the Installation guide described in the chapter below. Operating the **IMPRESSION X4 Bar 10** without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident and must be avoided.
- Repair, maintenance, and installation work shall be done by qualified or GLP certified staff only. You need to pay attention to the common rules of technology that are not explicitly mentioned in this manual.
- 9. Use only original GLP spare parts. Any structural modification of the system will terminate all warranty claims.
- 10. Please keep this instruction manual for future reference.

# 2 Preparation and Installation

#### 2.1 Safety Information

The **IMPRESSION X4 Bar 10** fixture from GLP is fitted with a number of planoconvex lenses in a highly efficient collimator cluster. This type of lens can act as a strong magnifying glass.

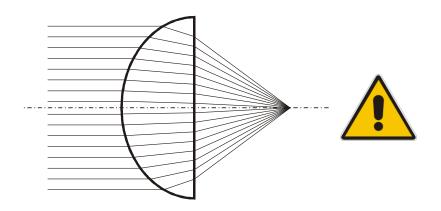
If the rays from a strong light source (such as the sun or another lighting fixture) are directed towards the front of any of these fixtures, then internal damage may occur. In a worst case scenario with a high power light source this can happen very quickly, damaging the fixture internally, potentially melting components or causing an internal fire within seconds.

In order to avoid these possible problems please adhere to the following requirements:

- Do not expose the front of a fixture to direct sunlight or any other strong light sources.
- For outdoor applications during daylight make sure that the front face of any fixture is either shielded or points away from the sun, even when fixtures are not in use.
- Do not modify the front glass or lenses of any fixture.

These requirements have to be followed regardless of whether a fixture is powered on or off as the magnifying effect is an optical effect and therefore independent from the (electrical) state of the fixture.

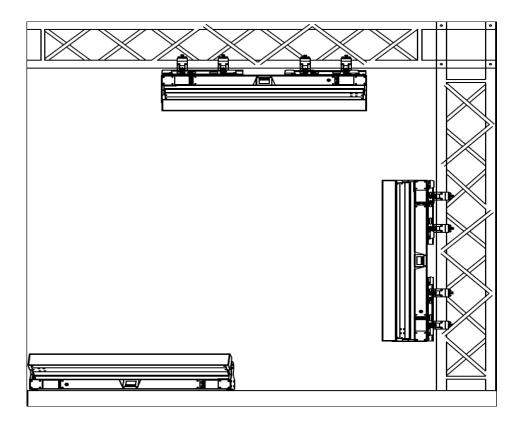
Especially when working with high powered **beam-lights**; extreme caution and observance of these safety instructions is mandatory.

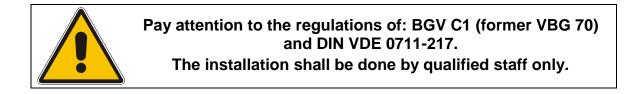


Should you have any questions about the operation of your fixture then please contact your local GLP office, or their authorized distributor, a list of which can be found at http://www.glp.de.

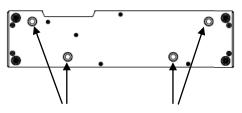
#### 2.2 Mounting

The **IMPRESSION X4 Bar 10** is fully operational whether it hangs or is mounted to the wall. It can also be operated while standing on the floor. Keep a safety distance of min. 0.5 m towards any easily inflammable materials (decoration etc.).





For the various mounting positions of the **IMPRESSION X4 Bar 10** (standing on the floor, sideways or hanging) different accessories kits are available. Through this a safe and firm installation is assured. You'll find dedicated connectors on the bottom side of the fixture which should be used.



4 x Camlock for bracket

#### 2.2.1 Operating on the Floor (Upright)

The **IMPRESSION X4 Bar 10** is fitted with 4x solid rubber feet which allows a stable standing of the fixture. An additional securing is usually not required. Please pay attention to an even and gripping surface.

#### 2.2.2 Mounting in hanging or sideways position

To operate the **IMPRESSION X4 Bar 10** in a hanging position please use the dedicated bracket supplied with your fixture. It is fixed to the base of the fixture with fasteners called Camlock quick-release connectors. Insert the four fasteners and turn each 90° to lock them. Do the opposite to release them again.

#### 2.3 Securing the Fixture

Regardless of the mounting method of the **IMPRESSION X4 Bar 10** you'll have to use a stipulated safety wire. Attach the safety wire through the bracket on the base of the fixture and connect it to the primary support structure. Pay attention to a safe and proper fastening. The safety cable must comply with BGI 810-3 (EN 60598-2-17 Section 17.6.6) and be capable of bearing a static suspended load that is ten times the weight of the fixture and all installed accessories.

#### 2.4 Connections

#### 2.4.1 Power Supply

~100-240 Volt AC, 50-60 Hz, powerCON AC connector

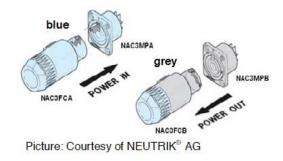
Connected load 200 VA (W) <=> T5A (micro-fuse 5x20mm)

Please see printing on the case for the right electronic supply! Disconnect from the mains supply for changing the fuse and use only the above described micro-fuse type.

#### NEUTRIK® powerCON

The **IMPRESSION X4 Bar 20** is fitted with NEUTRIK® powerCON locking 3 conductor AC connectors. Up to max. 18 fixtures can be linked via the power outlets staying within the power limits of the 20A of the connectors.

Note: Regional regulations and limits might be lower and differ from that.

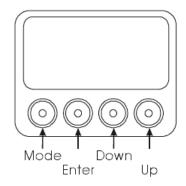


2.4.2 DMX

USITT DMX-512 Standard input/output in 5-pin connectors. Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+] / Pin 4&5 N.C. The DMX- Addressing starts at the DMX- Address [001].

#### 3 The Menu Field

You'll find the control board on the side part of the arm. It allows you to make all necessary adjustments of the **IMPRESSION X4 Bar**. With the Mode-key you get into the main menu. Afterwards you can Navigate through the menu with the Up/Down-keys. Push the Enter-key to get in the next menu level or to confirm your settings. Make them and set functions ON/OFF with the Up/Down-keys. Confirm and save it with the Enter-key (the display shows OK). Push the Mode-key to cancel the entry and go back to the main menu.



To lock or unlock the keys of the menu field press Mode + Enter + Up simultaneously.



# 4 DMX Chanel Selection (DMX Protocol)

Channel		Function	Time and Value	DMX
1	Tilt - High	Tilt coarse	0° - 210°	0255
2	Tilt - Low	Tilt fine		0255
3	Zoom	Wide (flood) - narrow (spot)	50° - 7°	0255
4	СТО	No CTO		07
		Continuous color temperature correction	Applicable	8255
			for ALL colors	
5	Set 1 Color	Colors adjustable via RGB		07
	(fixed)	Color 01 - Red <sup>1)</sup>		815
		Color 02 - Amber <sup>1)</sup>		1623
		Color 03 - Warm Yellow <sup>1)</sup>		2431
		Color 04 - Yellow <sup>1)</sup>		3239
		Color 05 - Green 1)		4047
		Color 06 - Turquoise <sup>1)</sup>		4855
		Color 07 - Cyan <sup>1)</sup>		5663
		Color 08 - Blue 1)		6471
		Color 09 - Lavender 1)		7279
		Color 10 - Malve <sup>1)</sup>		8087
		Color 11 - Magenta 1)		8895
		Color 12 - Pink <sup>1)</sup>		96103
		White - CTO	3200K	104111
		White	5600K	112119
		White - CTB	7200K	120127
		Rainbow Effect Stop <sup>2)</sup>		128
		Rainbow Effect <sup>3)</sup>	slow - fast	129223
		Random colors	slow - fast	224255
6	Set 1 Red	Color mixing system - Red	0 - 100%	0255
7	Set 1 Green	Color mixing system - Green	0 - 100%	0255
8	Set 1 Blue	Color mixing system - Blue	0 - 100%	0255
9	Set 1 White	Color mixing system - White	0 - 100%	0255
10	Set 1 Intensity	Intensity	0 - 100%	0255
11	Shutter	Shutter closed		015
		Shutter pulse random	slow – fast	1647
		Fade on, snap off (random patterns)	slow – fast	4879
		Snap on, fade off (random patterns)	slow – fast	80111
			slow – fast	112143

# 4.1 Normal Mode (norm) 33 DMX channels:

		Fade on, fade off (random patterns)		
		Strobe random	5s - 0.1s	144199
		Strobe effect slow - fast	1 Hz - 10 Hz	200239
		Shutter open		240255
12	Intensity	Intensity	0 - 100%	0255
13	Special	RESET	> 1 sec	250255
14	Set 2 Color <sup>4)</sup>	Values see Channel 5	-	-
15	Set 2 Red <sup>4)</sup>	Color mixing system - Red	0 - 100%	0255
16	Set 2 Green 4)	Color mixing system - Green	0 - 100%	0255
17	Set 2 Blue <sup>4)</sup>	Color mixing system - Blue	0 - 100%	0255
18	Set 2 White 4)	Color mixing system - White	0 - 100%	0255
19	Set 2 Intensity 4)	Intensity	0 - 100%	0255
20	Set 3 Color <sup>4)</sup>	Values see Channel 5	-	-
21	Set 3 Red <sup>4)</sup>	Color mixing system - Red	0 - 100%	0255
22	Set 3 Green 4)	Color mixing system - Green	0 - 100%	0255
23	Set 3 Blue <sup>4)</sup>	Color mixing system - Blue	0 - 100%	0255
24	Set 3 White 4)	Color mixing system - White	0 - 100%	0255
25	Set 3 Intensity <sup>4)</sup>	Intensity	0 - 100%	0255
26	Crossfade	02 seconds transistion time		0255
27	Star Effect			0255
28	Set 1 Pattern			0255
	Select			
29	Set 1 Pattern			0255
	Movement			
30	Set 2 Pattern			0255
	Select			
31	Set 2 Pattern			0255
<b> </b>	Movement			
32	Pixel Select			0255
	1 - 8			
33	Pixel Select			0255
	9 - 10			



Ch	annel	Function	Time and Value	DMX
1	None	reserved		-
2	None	reserved		-
3	Tilt - High	Tilt coarse	0° - 210°	0255
4	Tilt - Low	Tilt fine		0255
5	Set 1 Color	Colors adjustable via RGB		07
	(fixed)	Color 01 - Red <sup>1)</sup>		815
		Color 02 - Amber 1)		1623
		Color 03 - Warm Yellow <sup>1)</sup>		2431
		Color 04 - Yellow <sup>1)</sup>		3239
		Color 05 - Green <sup>1)</sup>		4047
		Color 06 - Turquoise <sup>1)</sup>		4855
		Color 07 - Cyan <sup>1)</sup>		5663
		Color 08 - Blue <sup>1)</sup>		6471
		Color 09 - Lavender 1)		7279
		Color 10 - Malve <sup>1)</sup>		8087
		Color 11 - Magenta <sup>1)</sup>		8895
		Color 12 - Pink <sup>1)</sup>		96103
		White - CTO	3200K	104111
		White	5600K	112119
		White - CTB	7200K	120127
		Rainbow Effect Stop <sup>2)</sup>		128
		Rainbow Effect <sup>3)</sup>	slow - fast	129223
		Random colors	slow - fast	224255
6	Set 1 Red	Color mixing system - Red	0 - 100%	0255
7	Set 1 Green	Color mixing system - Green	0 - 100%	0255
8	Set 1 Blue	Color mixing system - Blue	0 - 100%	0255
9	Set 1 White	Color mixing system - White	0 - 100%	0255
10	Shutter	Shutter closed		015
		Shutter pulse random	slow – fast	1647
		Fade on, snap off (random patterns)	slow – fast	4879
		Snap on, fade off (random patterns)	slow – fast	80111
		Fade on, fade off (random patterns)	slow – fast	112143
		Strobe random	5s - 0.1s	144199
		Strobe effect slow - fast	1 Hz - 10 Hz	200239
		Shutter open		240255
11	Intensity	Intensity	0 - 100%	0255

# 4.2 Compressed Mode (comp) 20 DMX Channels:

12	сто	No CTO		07
		Continuous color temperature correction	Applicable	8255
			for ALL colors	
13	Special	RESET	> 1 sec	250255
14	Crossfade	02 seconds transistion time		0255
15	Set 1 Pattern			0255
	Movement			
16	Zoom	Wide (flood) - narrow (spot)	50° - 7°	0255
17	Set 1 Pattern			0255
	Select			
18	Pixel Select			0255
	1 - 8			
19	Pixel Select			0255
	9 - 10			
20	None	reserved		-



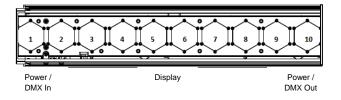
Ch	annel	Function	Time and Value	DMX
1	Tilt - High	Tilt coarse	0° - 210°	0255
2	Tilt - Low	Tilt fine		0255
3	Shutter	Shutter closed		015
		Shutter pulse random	slow – fast	1647
		Fade on, snap off (random patterns)	slow – fast	4879
		Snap on, fade off (random patterns)	slow – fast	80111
		Fade on, fade off (random patterns)	slow – fast	112143
		Strobe random	5s - 0.1s	144199
		Strobe effect slow - fast	1 Hz - 10 Hz	200239
		Shutter open		240255
4	Intensity	Intensity	0 - 100%	0255
5	СТО	No CTO		07
		Continuous color temperature correction	Applicable	
			for ALL colors	8255
6	Special	RESET	> 1 sec	250255
7	Crossfade	02 seconds transistion time		0255
8	Zoom	Wide (flood) - narrow (spot)	50° - 7°	0255
9	Set 1 Red	Color mixing system - Red	0 - 100%	0255
10	Set 1 Green	Color mixing system - Green	0 - 100%	0255
11	Set 1 Blue	Color mixing system - Blue	0 - 100%	0255
12	Set 1 White	Color mixing system - White	0 - 100%	0255
13	Set 2 Red	Color mixing system - Red	0 - 100%	0255
14	Set 2 Green	Color mixing system - Green	0 - 100%	0255
15	Set 2 Blue	Color mixing system - Blue	0 - 100%	0255
16	Set 2 White	Color mixing system - White	0 - 100%	0255
17	Set 3 Red	Color mixing system - Red	0 - 100%	0255
18	Set 3 Green	Color mixing system - Green	0 - 100%	0255
19	Set 3 Blue	Color mixing system - Blue	0 - 100%	0255
20	Set 3 White	Color mixing system - White	0 - 100%	0255
21	Set 4 Red	Color mixing system - Red	0 - 100%	0255
22	Set 4 Green	Color mixing system - Green	0 - 100%	0255
23	Set 4 Blue	Color mixing system - Blue	0 - 100%	0255
24	Set 4 White	Color mixing system - White	0 - 100%	0255
25	Set 5 Red	Color mixing system - Red	0 - 100%	0255
26	Set 5 Green	Color mixing system - Green	0 - 100%	0255
27	Set 5 Blue	Color mixing system - Blue	0 - 100%	0255

# 4.3 Single Pixel Mode (spix) 48 DMX Channels:

Color mixing system - White	0 - 100%	0255
Color mixing system - Red	0 - 100%	0255
Color mixing system - Green	0 - 100%	0255
Color mixing system - Blue	0 - 100%	0255
Color mixing system - White	0 - 100%	0255
Color mixing system - Red	0 - 100%	0255
Color mixing system - Green	0 - 100%	0255
Color mixing system - Blue	0 - 100%	0255
Color mixing system - White	0 - 100%	0255
Color mixing system - Red	0 - 100%	0255
Color mixing system - Green	0 - 100%	0255
Color mixing system - Blue	0 - 100%	0255
Color mixing system - White	0 - 100%	0255
Color mixing system - Red	0 - 100%	0255
Color mixing system - Green	0 - 100%	0255
Color mixing system - Blue	0 - 100%	0255
Color mixing system - White	0 - 100%	0255
Color mixing system - Red	0 - 100%	0255
Color mixing system - Green	0 - 100%	0255
Color mixing system - Blue	0 - 100%	0255
Color mixing system - White	0 - 100%	0255
	Color mixing system - RedColor mixing system - GreenColor mixing system - BlueColor mixing system - WhiteColor mixing system - RedColor mixing system - GreenColor mixing system - BlueColor mixing system - WhiteColor mixing system - RedColor mixing system - GreenColor mixing system - BlueColor mixing system - BlueColor mixing system - BlueColor mixing system - RedColor mixing system - RedColor mixing system - BlueColor mixing system - RedColor mixing system - RedColor mixing system - BlueColor mixing system - RedColor mixing system - RedColor mixing system - Blue	Color mixing system - Red0 - 100%Color mixing system - Green0 - 100%Color mixing system - Blue0 - 100%Color mixing system - White0 - 100%Color mixing system - Red0 - 100%Color mixing system - Green0 - 100%Color mixing system - Green0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Red0 - 100%Color mixing system - Red0 - 100%Color mixing system - Green0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Red0 - 100%Color mixing system - Red0 - 100%Color mixing system - Red0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Red0 - 100%Color mixing system - Red0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Red0 - 100%Color mixing system - Red0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Red0 - 100%Color mixing system - Red0 - 100%Color mixing system - Blue0 - 100%Color mixing system - Blue0 - 100%

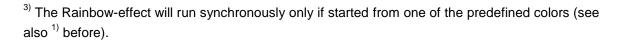
The Pixel are numbered left to right 1 - 10 as shown below.

Tilt DMX Value = 0 / "Display" to the front / "Power & DMX In" to the left.



<sup>1)</sup> The predefined colors can be used as start-colors for the Rainbow effect. Please select first a desired start-color before you activate the rainbow effect. All **IMPRESSION X4 Bar 10** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4 Bar 10** can have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the ones marked with <sup>1)</sup> in the tables above the rainbow start-color will be red.

<sup>2)</sup> Rainbow-effect Stop will pause this function. After resuming the rainbow-effect will be continued from the current color.



<sup>4)</sup> Set 1 is the main layer while Set 2 and Set 3 are background layers. Thus Set 2 is only visible on the unlit pixel of layer 1 if a pattern is applied and Set 3 is only visible on the unlit pixel of layer 1 and 2 if there are patterns applied.

## 5 Maintaining and Cleaning

The **IMPRESSION X4 Bar 10** is a fixture of very low maintenance. It is only necessary to clean the air inlets and outlets as well as the optical LED lenses from time to time. For safe operation it is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on, or within the fixture. Otherwise the fixture's light-output will be significantly reduced or damages can occur. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to operate reliably throughout its life.

#### A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

#### 5.1 Safety regulations

- Pull out the mains power plug!
- Wait min. 15 minutes after disconnecting power to allow the fixture to cool down.

#### 5.2 Maintenance and Interval (rule-of-thumb)

The contamination of the fixture depends on the environment details. Hence no general guidelines can be given. The intervals given below are only suggestions from our experience.

Position	Interval	In this way
LED reflector and optical system	weekly	soft brush /lint-free cloth
Fan and air channel	monthly	vacuum cleaner, airbrush, etc.

#### Attention:

- Never let optical parts come into contact with oil or fat.
- Before running the fixture wait until all parts are dry.
- Never tough lenses with bare fingers.



# 6 Technical Specifications:

Power supply				
Power consumption	200 VA (Watt)			
Power Input	Auto sensing 100-240 V AC, 50-60 Hz			
Fuse protection	Micro-fuse 5x20 mm, T5A			
<b>Operational Parameters</b>				
Max. Ambient	5° - 45°C (integrated overheating switch)			
Temperature	40°-113°F			
Mounting Position	Any (see relevant chapter in the manual)			
Lighting System - Additive	ve Color mixing			
LED Type	10 x Osram Ostar RGBW multi-chip			
Lifetime	50,000 h			
Wavelength optimized for	maximum presentable color space			
Optical System				
Full RGBW / High efficient	Collimator cluster			
Shutter / Dimmer (8/16 B	it)			
Strobe- Effect with variable	e speed between 1-10 flashes per second, Random- & Pulse-Effects			
Continuous Dimmer 0 - 100%				
Zoom				
7 to 50 degree continuous	zoom			
<b>Optical Patterns</b>				
Several pre-defined beam	patterns with direct access and manipulation			
DMX Control				
Standard USITT DMX-512	, 5 pin XLR: [+]=Pin 3 / [-]=Pin 2 / [Ground]=Pin 1 / Pin 4&5 N.C.			
The DMX- Addressing star	The DMX- Addressing starts at the DMX channel [001].			
Tilt (8/16 Bit)				
Tilt- movement210° in min. 1.5 seconds (Position Feedback)				
Weights and Measures				
Length	500 mm / 19.7´´			
Width	100 mm / 3.9″			
Height	240 mm / 9.4″			
Weight (net)	8.0 kg / 17.6 lbs			
Weight with bracket	9.8 kg  / 21.6 lbs			

# 7 Dimensions

