Manua nstruction

impression[®]



Covers software version: 1.18/18/12/10/n Instruction Manual Rev. 20211203-01



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Notes:	



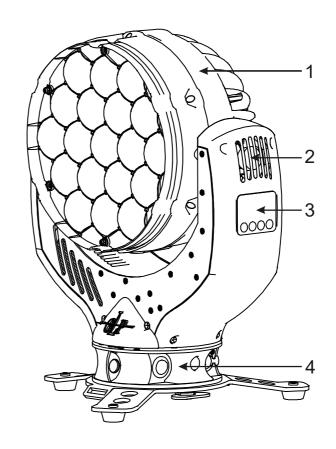
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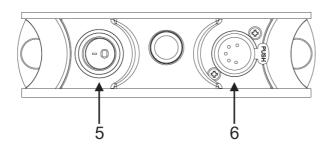


1 Description of Device

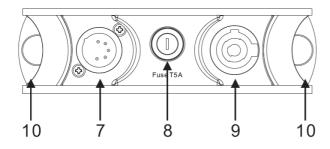
- Moving head (actively and passively cooled)
- 2. Arm with various cooling vents
- 3. LCD-Display/Menu (data entry)
- Base with various connectors and Camlock mounting system



Base side 1



Base side 2



- 5. Power On/Off
- 6. DMX- Output (5 pin)
- 7. DMX- Input (5 pin)
- 8. Micro-fuse 5x20mm, T5A
- 9. Mains supply (Powercon)
- 10. 2 x Safety eyes



1.1 Safety Instructions



The **IMPRESSION X4** 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.
 -- Danger of BURNING --
- 6. Never look directly into the beam of light or into one of the LEDs.

 Never use optical apertures to observe the beam of light. LED Class 2M.

 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!

- 7. To ensure safe operation, follow also the Installation guide described in chapter 2. Operating the IMPRESSION X4 without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident and must be avoided.
- 8. 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** fixtures from GLP is fitted with a number of plano-convex lenses in a highly efficient collimator cluster. This type of lens can act as a strong magnifying glass.

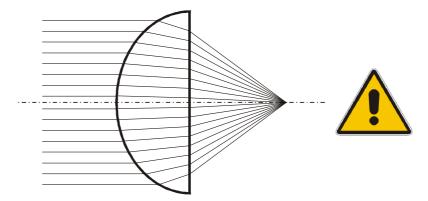
If the rays from a strong light source (such as the sun or another lighting fixture) are directed towards the front of any of these fixtures, then internal damage may occur. In a worst case scenario with a high power light source this can happen very quickly, damaging the fixture internally, potentially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

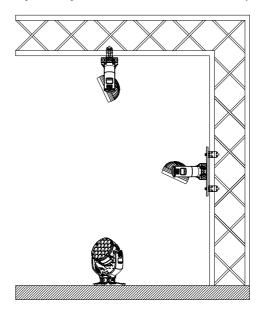


Should you have any questions about the operation of your fixture then please contact your local GLP office, or their authorized distributor, a list of which can be found at http://www.glp.de.



2.2 Mounting

The **IMPRESSION X4** 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.).

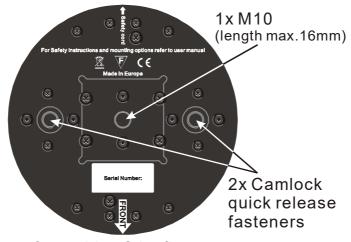




Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217.

The installation shall be done by qualified staff only.

For the various mounting positions of the **IMPRESSION X4** (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. In addition the base is marked with a **FRONT** arrow allowing consistent orientation during installation.

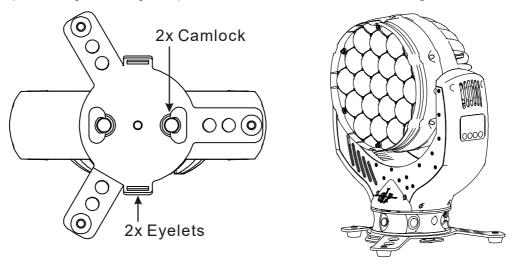


front side of the fixture



2.2.1 Mounting on the Floor (Upright)

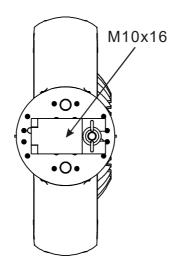
To operate the **IMPRESSION X4** in an upright position, please use the dedicated tri-legged floor stand supplied with your fixture. It is fixed to the base of the fixture with fasteners called Camlock quick-release connectors. Insert the two fasteners and turn each 90° to lock them. Do the opposite to release them again. On both sides you'll find eyelets to pull though a fixing strap. This allows for additional bracing of the fixture.

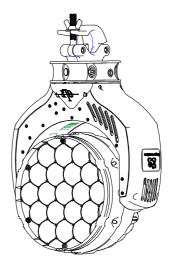


2.2.2 Mounting in hanging position

To operate the **IMPRESSION X4** in a hanging position please use a half-coupler (clamp). This can be mounted directly to the bottom side of the fixture. It should be attached centrically with a M10x16 mm thread bolt.

<u>Attention:</u> Never use a longer bolt as this may damage the interior of the fixture.

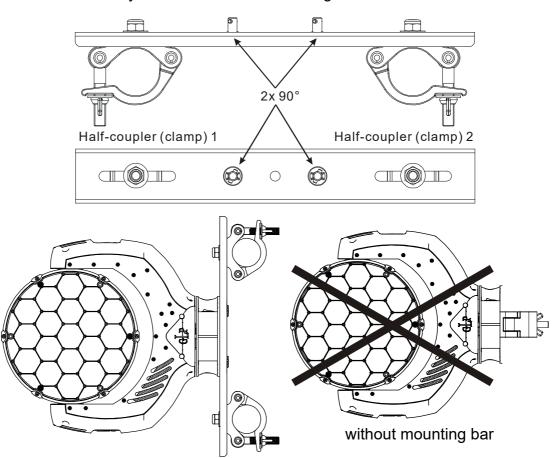






2.2.3 Mounting in sideways Position

To operate the **IMPRESSION X4** in a sideways position please use an additional mounting bar. This is fixed by two Camlock quick-release connectors. Two half-couplers (clamps) are used to mount the bar to a standard truss bar. This technique is necessary to cope with the torque which accrues in this mounting position. In addition it allows a repositioning of the couplers to fit between two truss chords. Never use the "Mounting in hanging position" technique described above to fasten the fixture in the sideways position. A safe and sound installation can not be assured in this way. In addition this can damage the fixture base.



2.3 Securing the Fixture

Regardless of the mounting method of the **IMPRESSION X4** you'll have to use a stipulated safety wire. Attach the safety wire through one of the two holes provided 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 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, earth contact type plug - Powercon

Connected load 350 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.

2.4.2 DMX

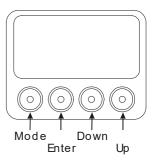
USITT DMX-512 Standard input/output in 5 pin connectors.

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.** 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.

← MODE - ENTER →

	Level1	Level 2	Level 3	Level 4	Remark
	DMX Start Address 001				Set the DMX start address
1	Special	Manual DMX			Manual control of all fixture functions
٠ ا	Pan		Pan		Manual control for Pan (X-movement)
Z			Pattern Byte 3		Manual control for Pattern Byte 3 LED 17 -19
DOWN			Pattern Byte 2		Manual control for Pattern Byte 2 LED 9 - 16
□ →			Pattern Byte 1		Manual control for Pattern Byte 1 LED 1 - 8
			Pattern		Manual control for Pattern channel / bank
			Zoom		Manual control for Zoom
			Speed Movements		Manual control for Pan/Tilt movements



Pan/Tilt Movements		Manual control for Pan/Tilt movements
Special		
White Temperature		Manual control for Color temperature
Dimmer		Manual control for Dimmer
Shutter		Manual control for Shutter
White		Manual control for White
Blue		Manual control for blue
Green		Manual control for green
Red		Manual control for red
Color Wheel		Manual control for the color wheel
Tilt		Manual control for Tilt (Y-movement)
Key code xxxx		Use the code for entering the calibration menu (for authorized persons only)
Display		Adjustment for the Display contrast
PWM -		Changes PMW frequency
Pan Offset		Calibration for Pan-Offset
Tilt Offset		Calibration for Tilt-Offset
LED adjust		
-	White adjust	Adjust intensity for red channel
	White adjust blue	Adjust intensity for blue channel
	White adjust green	Adjust intensity for green channel
Clear EEPROM		Erase EEPROM memory
Diagnose		Diagnose fixture functions
Set image if DMX off		Activates a stored scene if DMX is off
		Stores the scene currently sent to the unit
,		Indicates the presently received DMX signal per DMX channel
Pan		Instantaneous value for Pan
Tilt		Instantaneous value for Tilt
Pattern Byte 3		Instantaneous value for Pattern Byte 3
Pattern Byte 2		Instantaneous value for Pattern Byte 2
Pattern Byte 1		Instantaneous value for Pattern Byte 1
	Movements Special White Temperature Dimmer Shutter White Blue Green Red Color Wheel Tilt Key code xxxx Display Contrast PWM - Frequ. Adj. Pan Offset Tilt Offset LED adjust Clear EEPROM Diagnose Set image if DMX off Save image in memory Pan Tilt Pattern Byte 3 Pattern Byte 2 Pattern	Movements Special White Temperature Dimmer Shutter White Blue Green Red Color Wheel Tilt Key code xxxx Display Contrast PWM - Frequ. Adj. Pan Offset Tilt Offset LED adjust White adjust red White adjust green Clear EEPROM Diagnose Set image if DMX off Save image in memory Pan Tilt Pattern Byte 3 Pattern Byte 2 Pattern



← DOWN - UP →

Pattern Zoom Speed Movements Pan/Tilt Movements Special White **Temperature** Dimmer Shutter White Blue Green Red

Color Wheel Set DMX

Mode

Compressed Mode Normal Mode High-Res. Mode

Position feedback Reverse Pan

Reverse Tilt

Reset

Instantaneous value for Pattern channel / bank

Instantaneous value for Zoom

Speed adjustment for Pan/Tilt movements → see item below

Instantaneous value for Pan/Tilt movements

Instantaneous value for Special

Adjustment of the color temperature for WHITE

Instantaneous value for Dimmer

Instantaneous value for Shutter

Instantaneous value for White

Instantaneous value for Blue

Instantaneous value for Green

Instantaneous value for Red

Instantaneous value for Color Mixing unit

Select the desired DMX Mode

Fixture works in "Compressed" mode → see also section 4 below

Fixture works in "Normal" mode → see also section 4 below

Fixture works in "High Resolution" mode → see also section 4 below

Switch automatic position feedback ON/OFF

Invert Pan movements: ON/OFF

Invert Tilt movements: ON/OFF

RESET and new calibration for all functions



4 DMX Channel Selection (DMX Protocol)

Normal-Mode 20 DMX channels

Channel	Function	Time and Value	DMX	%
1) PAN-coarse	0 623°	3,2s	0255	0100
2) PAN-fine			0255	0100
3) Tilt-coarse	0 242°	1,5s	0255	0100
4) Tilt-fine			0255	0100
5) Color	Colors adjustable via RGB		07	025
(fixed)	Color 01 - Red 1)		815	35.5
, ,	Color 02 - Amber 1)		1623	68.5
	Color 03 - Warm Yellow 1)		2431	912.5
	Color 04 - Yellow 1)		3239	1315.5
	Color 05 - Green 1)		4047	1618.5
	Color 06 - Turquoise 1)		4855	1921.5
	Color 07 - Cyan 1)		5663	2224.5
	Color 08 - Blue 1)		6471	2527.5
	Color 09 - Lavender 1)		7279	2830.5
	Color 10 - Malve 1)		8087	3134.5
	Color 11 - Magenta 1)		8895	3537.5
	Color 12 - Pink 1)		96103	3840.5
	White - CTO	3200K	104111	4143.5
	White	5600K	112119	4446.5
	White - CTB	7200K	120127	4749.5
	Rainbow Effect Stop 2)		128	50
	Rainbow Effect 3)	slow - fast	129223	5188
	Random colors	slow - fast	224255	89100
6) Red	Color mixing system - Red	0 - 100%	0255	0100
7) Green	Color mixing system - Green	0 - 100%	0255	0100
8) Blue	Color mixing system - Blue	0 - 100%	0255	0100
9) White	Color mixing system - White	0 - 100%	0255	0100
10) Shutter	Shutter closed		015	05.5
,	Shutter pulse random	slow – fast	1647	618.5
	Up-dimming then Shutter closing (random patterns)	slow – fast	4879	1931
	Shutter open then down-dimming (random patterns)	slow – fast	80111	3243
	Up-dimming then down-dimming (random patterns)	slow – fast	112143	4456
	Strobe effect pause	5s - 0.1s	160199	6377
	Strobe effect slow - fast	1 Hz - 10 Hz	200239	7894
	Shutter open		240255	95100
11) Dimmer	Dimmer	0 - 100%	0255	0100
12) CTO	No CTO		07	02.5
	Continuous color temperature correction	Applicable for ALL colors	8255	3100
13) Special	Pattern Block 1 → channel 17		03	01
′ •	Pattern Block 2 → channel 17		47	1.52.5
	PWM lower	~ 582 Hz ~ 600Hz	100149	3957
	PWM (Default)	600Hz	150	58
	PWM higher	~ 600 Hz ~ 618 Hz	151200	5978
	RESET		250255	98100
14) Movement	No macros		0	0
	 		•	



PAN PAN PAN PAN PAN Circle Circle Lying Ranc TIS) Speed Pan/Tilt Pan/Use	### Size 1	0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° size	adjust	peed" to	0101 0203 0405 0607 0809 1011 1213 1415 1617 1819 2021 2223 2425 2627 2829	0.5 1.0 1.7 2.5 3.3 4.1 4.9 5.7 6.5 7.3 8.0 8.8 9.6 10.4 11.2
PAN PAN PAN TILT PAN PAN Circle Circle Lying Ranc 15) Speed Pan/Tilt Pan/Tilt Pan/Use	1 1 1 2 2 2 2 2 2 2 3 3 3 3 4 4 4 4	90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° size			0203 0405 0607 0809 1011 1213 1415 1617 1819 2021 2223 2425 2627 2829	1.0 1.7 2.5 3.3 4.1 4.9 5.7 6.5 7.3 8.0 8.8 9.6 10.4 11.2
PAN PAN PAN Circle Circle Lying Ranc Pan/Tilt Pan/Use	1 1 2 2 2 2 2 2 3 3 3 3 4 4 4 4	180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° size			0405 0607 0809 1011 1213 1415 1617 1819 2021 2223 2425 2627 2829	1.7 2.5 3.3 4.1 4.9 5.7 6.5 7.3 8.0 8.8 9.6 10.4 11.2
PAN PAN PAN Circle Circle Lying Ranc Pan/Tilt Pan/Use	1 2 2 2 2 2 3 3 3 3 4 4 4 4	270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270°			0607 0809 1011 1213 1415 1617 1819 2021 2223 2425 2627 2829	2.5 3.3 4.1 4.9 5.7 6.5 7.3 8.0 8.8 9.6 10.4 11.2
PAN PAN PAN Circle Circle Lying Ranc Pan/Tilt Pan/Use	2 2 2 2 3 3 3 3 4 4 4 4	0° 90° 180° 0° 90° 180° 90° 180° 270° 0° 90° 180° 270° size			0809 1011 1213 1415 1617 1819 2021 2223 2425 2627 2829	3.3 4.1 4.9 5.7 6.5 7.3 8.0 8.8 9.6 10.4 11.2
PAN PAN PAN Circle Circle Lying Ranc Pan/Tilt Pan/Use	2 2 3 3 3 3 4 4 4 4	90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° size			1011 1213 1415 1617 1819 2021 2223 2425 2627 2829	4.1 4.9 5.7 6.5 7.3 8.0 8.8 9.6 10.4 11.2
TILT PAN PAN Circle Circle Lying Ranc 15) Speed Pan/Tilt Pan/Use	2 2 3 3 3 3 4 4 4 4	180° 270° 0° 90° 180° 270° 0° 90° 180° 270° size			1213 1415 1617 1819 2021 2223 2425 2627 2829	4.9 5.7 6.5 7.3 8.0 8.8 9.6 10.4 11.2
TILT PAN PAN Circle Circle Lying Ranc 15) Speed Pan/Tilt Pan/Use	2 3 3 3 3 4 4 4 4	270° 0° 90° 180° 270° 0° 90° 180° 270°			1415 1617 1819 2021 2223 2425 2627 2829	5.7 6.5 7.3 8.0 8.8 9.6 10.4 11.2
TILT PAN PAN Circle Circle Lying Ranc 15) Speed Pan/Tilt Pan/Use	3 3 3 4 4 4 4	0° 90° 180° 270° 0° 90° 180° 270° size			1617 1819 2021 2223 2425 2627 2829	6.5 7.3 8.0 8.8 9.6 10.4 11.2
TILT PAN PAN Circle Circle Lying Ranc 15) Speed Pan/Tilt Pan/Use	3 3 3 4 4 4 4	90° 180° 270° 0° 90° 180° 270° size			1819 2021 2223 2425 2627 2829	7.3 8.0 8.8 9.6 10.4 11.2
TILT PAN PAN Circle Circle Lying Ranc 15) Speed Pan/ contr Pan/Tilt Pan/ Use	3 3 4 4 4 4	180° 270° 0° 90° 180° 270° size			2021 2223 2425 2627 2829	8.0 8.8 9.6 10.4 11.2
TILT PAN PAN Circle Circle Lying Ranc 15) Speed Pan/ contr Pan/Tilt Pan/ Use	3 4 4 4 4	270° 0° 90° 180° 270° size			2223 2425 2627 2829	8.8 9.6 10.4 11.2
TILT PAN PAN Circle Circle Lying Ranc 15) Speed Pan/ contr Pan/Tilt Pan/ Use	4 4 4 4	0° 90° 180° 270° size			2425 2627 2829	9.6 10.4 11.2
TILT PAN PAN Circle Circle Lying Ranc 15) Speed Pan/ contr Pan/Tilt Pan/ Use	4 4 4	90° 180° 270° size			2627 2829	10.4 11.2
PAN PAN Circle Circle Lying Ranc 15) Speed Pan/ contr Pan/Tilt Vise	4 4	180° 270° size			2829	11.2
PAN PAN Circle Circle Lying Ranc 15) Speed Pan/ contr Pan/Tilt Vise	4	270° size				
PAN PAN Circle Circle Lying Ranc 15) Speed Pan/ contr Pan/Tilt Vise	l	size			20.04	
PAN PAN Circle Circle Lying Ranc 15) Speed Pan/ contr Pan/Tilt Vise	/ TILT		/ phase see P		3031	12
PAN Circle Circle Lying Ranc 15) Speed Pan/ contr Pan/Tilt Use	/ TILT			AN	3263	1325
Circle Circle Lying Rand 15) Speed Pan/ contr Pan/Tilt Pan/ Use	<u> </u>	size / phase		AN	6495	2637
Circle Lying Rand 15) Speed Pan/ contr Pan/Tilt Pan/ Use	/ TILT (inver	rse) size	/ phase see P	AN	96127	3850
Lying Rand 15) Speed Pan/ contr Pan/Tilt Pan/ Use	Э	size	/ phase see P	AN	128159	5162
Rand	Circle (inverse) size / ph			AN	160191	6375
15) Speed Pan/ contr Pan/Tilt Pan/ Use			/ phase see P	AN	192223	7687
Pan/Tilt Pan/ Use	dom moveme	ent size	size / phase see PAN		224255	88100
Pan/Tilt Pan/ Use	Tilt moveme oller	nt speed fro	m		01	005
14).	Pan/Tilt, slow – fast Use this channel also for the speed of the movements (channel		annel		02255	1100
16) Zoom Wide	: - narrow (sp	oot)			0255	0100
, , <u> </u>	attern				02	01
	250 pre-defined patterns (see appendix A) Activates direct access to LED Pattern				03253	299
Activ			D See cha	annels 18-20	254255	100
18) Pattern Direct Byte 1 18	t access to l	Pattern of L	ED		0255	0100
	t access to I	Pattern of L	ED		0255	0100
		Pattern of L	ED		007	02.5

Compress-Mode 14 DMX channels

Channel	Function	Time and Value	DMX	%
1) PAN-coarse	0 623°	3,2s	0255	0100
2) PAN-fine			0255	0100
3) Tilt-coarse	0 242°	1,5s	0255	0100
4) Tilt-fine			0255	0100
5) Color	Colors adjustable via RGB		07	02.5



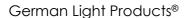
Channel	Function	Time and Value	DMX	%
(fixed)	Color 01 - Red 1)		815	35.5
, ,	Color 02 - Amber 1)		1623	68.5
	Color 03 - Warm Yellow 1)		2431	912.5
	Color 04 - Yellow 1)		3239	1315.5
	Color 05 - Green 1)		4047	1618.5
	Color 06 - Turquoise 1)		4855	1921.5
	Color 07 - Cyan 1)		5663	2224.5
	Color 08 - Blue 1)		6471	2527.5
	Color 09 - Lavender 1)		7279	2830.5
	Color 10 - Mauve 1)		8087	3134.5
	Color 11 - Magenta 1)		8895	3537.5
	Color 12 - Pink 1)		96103	3840.5
	White - CTO	Color temperature 3200K	104111	4143.5
	White	Color temperature 5600K	112119	4446.5
	White - CTB	Color temperature 7200K	120127	4749.5
	Rainbow Effect Stop 2)		128	50
	Rainbow Effect 3)	slow - fast	129223	5188
	Rainbow Effect, random colors	slow - fast	224.255	89100
6) Red	Color mixing system - Red	0 - 100%	0255	0100
7) Green	Color mixing system - Green	0 - 100%	0255	0100
8) Blue	Color mixing system - Blue	0 - 100%	0255	0100
9) White	Color mixing system - White	0 - 100%	0255	0100
10) Shutter	Shutter closed		015	05.5
'	Random Pulse effect	slow - fast	1647	618.5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	1931.5
	Shutter open then down-dimming (random patterns)	slow - fast	80111	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	4456
	Strobe effect pause	5s 1s	144199	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	7894
	Shutter open		240249	9597.5
	Shutter open		251255	99100
11) Dimmer	Dimmer	0 - 100%	0255	0100
12) Zoom	Wide - narrow (spot)		0255	0100
13) Special	Pattern Block 1 → channel 14		03	01
, -	Pattern Block 2 → channel 14		47	1.52.5
	PWM lower	~ 582 Hz ~ 600Hz	100149	3957
	PWM (Default)	600Hz	150	58
	PWM higher	~ 600 Hz ~ 618 Hz	151200	5978
	RESET		250255	98100
14) Pattern	No pattern		02	01
	250 pre-defined patterns (see appendix A)		03253	299



High Resolution (Extended) - Mode 21 DMX Channels

Channel	Function	Time and Value	DMX	%
1) PAN-coarse	0 623°	3,2s	0255	0100
2) PAN-fine	1		0255	0100
3) Tilt-coarse	0 242°	1,5s	0255	0100
4) Tilt-fine	1	,	0255	0100
5) Red-coarse	Color mixing system – Red	0 - 100%	0255	0100
6) Red-fine	Color mixing system – Red-Low		0255	0100
7) Green-coarse	Color mixing system – Green	0 - 100%	0255	0100
8) Green-fine	Color mixing system – Green-Low		0255	0100
9) Blue-coarse	Color mixing system – Blue	0 - 100%	0255	0100
10) Blue-fine	Color mixing system – Blue-Low		0255	0100
11) White-coarse	Color mixing system – White	0 - 100%	0255	0100
12) White-fine	Color mixing system – White-Low		0255	0100
13) Shutter	Shutter closed		015	05.5
	Random Pulse effect	slow - fast	1647	618.5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	1931.5
	Shutter open then down-dimming (random patterns)	slow - fast	80111	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	4456
	Strobe effect pause	5s - 1s	144199	5777
	Strobe effect, slow - fast	1 Hz - 10 Hz	200239	7894
	Shutter open		240249	9597.5
	Shutter open		251255	99100
14) Dimmer-coarse	Dimmer	0 - 100%	0255	0100
15) Dimmer-fine	Dimmer - Low		0255	0100
16) Zoom	Spot - Flood		0255	0100
17) Special	Pattern Block 1 → channel 18		03	01
	Pattern Block 2 → channel 18	500 LI- C00LI-	47	1.52.5
	PWM lower PWM (Default)	~ 582 Hz ~ 600Hz 600Hz	100149	3957
	PWM higher	~ 600 Hz ~ 618 Hz	150 151200	58 5978
	RESET	000112 ~ 010112	250255	98100
18) Pattern	No pattern		02	01
To, r attorn	250 pre-defined patterns (see appendix A)		03253	299
	Activates direct access to LED Pattern	See channels 18-20	254255	100
19) Pattern Byte 1	Direct access to Pattern of LED 18		0255	0100
20) Pattern Byte 2	Direct access to Pattern of LED 916		0255	0100
21) Pattern Byte 3	Direct access to Pattern of LED 1719		007	02.5

¹⁾ 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** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4** can have different start-colors but will still execute the rainbow effect synchronously. If you choose a color





different from the ones marked with 1) in the tables above the rainbow start-color will be red.

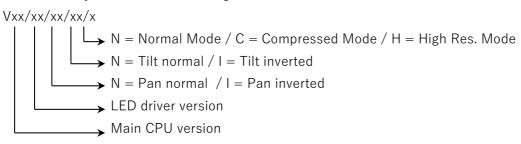
- ²⁾ Rainbow-effect Stop will pause this function. After resuming the rainbow-effect will be continued from the current color.
- ³⁾ The Rainbow-effect will run synchronously only if started from one of the predefined colors (see also ¹⁾ before).

Locking and unlocking the Control Panel

Please lock and unlock the control panel by pressing the menu keys **MODE & ENTER & UP** at the same time.

Additional Display Indications

As a default you'll find the following additional information in the first row of the LCD display:





5 Maintaining and Cleaning the IMPRESSION X4

The **IMPRESSION X4** 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.

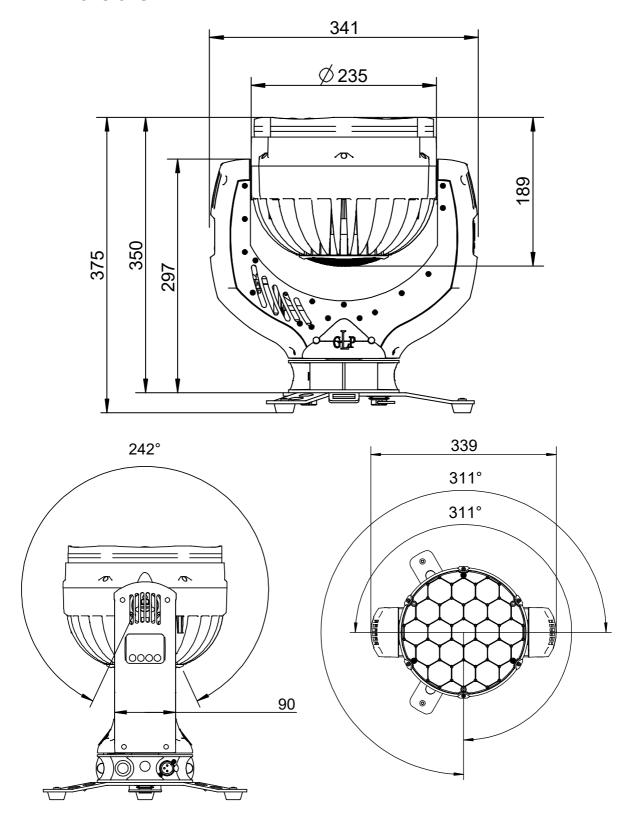


6 Technical Specifications

Power supply				
Power consumption	350 VA (Watt)			
Power Input	~100-240 V AC, 50-60 Hz (wide range input)			
Fuse protection	Micro-fuse 5x20 mm, T5A			
Operational Parameters				
Max. Ambient	5° - 45°C (integrated overheating switch)			
Temperature				
Mounting Position	Any (see relevant chapter)			
Lighting System - Additiv	ve Color mixing			
LED Type	19 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 Bit)				
Strobe- Effect with variable speed between 1 - 10 flashes per second, Random-Strobe, Pulse-Effects				
Continuous Dimmer 0 - 100%				
Zoom				
7 to 50 degree continuous zoom				
Optical Patterns				
Several hundred pre-define	ed 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. Die DMX- Addressing starts at the DMX channel [001].				
Pan / Tilt (8/16 Bit)				
Pan- movement	623° in min. 3,2 seconds (Position Feedback)			
Tilt- movement	242° in min. 1,5 seconds (Position Feedback)			
Weights and Measures				
Width of the base	341 mm			
Length of the base	145 mm			
height (head vertical)	375 mm (incl. standing foot/tripod)			
Weight (net)	8.0 kg			



7 Dimensions





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9 Pattern

Patterns are grouped into two sets which can be activated and selected via the DMX channel "Special". Choose the desired pattern by its corresponding DMX value on channel "Pattern".

Orientation: Patterns are shown when looking at the **front** of a standing fixture; Head faced in direction of fixtures front label: DMX Pan @ 128; Tilt @ 220; Zoom @ 255 (letters are displayed homogenous).



Patterns Set 1

DMX	Pattern
000	
001	
002	
003	
004	
005	
006	
007	
800	
009	
010	
011	
012	

DMX	Pattern
013	
014	
015	
016	
017	
018	
019	
020	
021	
022	
023	
024	
025	

DMX	Pattern
026	
027	
028	
029	
030	
031	
032	
033	
034	
035	
036	
037	
038	

DMX	Pattern
039	
040	
041	
042	
043	
044	
045	
046	
047	
048	
049	
050	
051	



DMX	Pattern
052	
053	
054	
055	
056	
057	
058	
059	
060	
061	
062	
063	
064	
065	
066	
067	
068	

3	
DMX	Pattern
069	
070	
071	
072	
073	
074	
075	
076	
077	
078	
079	
080	
081	
082	
083	
084	
085	

DMX	Pattern
086	
087	
088	
089	
090	
091	
092	
093	
094	
095	
096	
097	
098	
099	
100	
101	
102	

DMX	Pattern
103	
104	
105	
106	
107	
108	
109	
110	
111	
112	
113	
114	
115	
116	
117	
118	
119	



DMX	Pattern	DMX	Pattern	DMX	Pattern	DMX	Pattern
120		137		154		171	
121		138		155		172	
122		139		156		173	
123		140		157		174	
124		141		158		175	
125		142		159		176	
126		143		160		177	
127		144		161		178	
128		145		162		179	
129		146		163		180	
130		147		164		181	
131		148		165		182	
132		149		166		183	
133		150		167		184	
134		151		168		185	
135		152		169		186	
136		153		170		187	



DMX	Pattern
188	
189	
190	
191	
192	
193	
194	
195	
196	
197	
198	
199	
200	
201	
202	
203	
204	

Se	
DMX	Pattern
205	
206	
207	
208	
209	
210	
211	
212	
213	
214	
215	
216	
217	
218	
219	
220	
221	

DMX	Pattern
222	
223	
224	
225	
226	
227	
228	
229	
230	
231	
232	
233	
234	
235	
236	
237	
238	

DMX	Pattern
239	
240	
241	
242	
243	
244	
245	
246	
247	
248	
249	
250	
251	
252	
253	reserved
254	reserved
255	reserved



Patterns Set 2

DMX	Pattern
000	
001	
002	
003	
004	
005	
006	
007	
800	
009	
010	
011	
012	
013	
014	
015	
016	

DMX	Pattern
	attern
017	
018	
019	
020	
021	
022	
023	
024	
025	
026	
027	
028	
029	
030	
031	
032	
033	

DMX	Pattern
034	
035	
036	
037	
038	
039	
040	
041	
042	
043	
044	
045	
046	
047	
048	
049	
050	

DMX	Pattern
051	
052	
053	
054	
055	
056	
057	
058	
059	-

