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impression[®]



from software version: 1.18/18/12/10/n Rev. C



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Notes:	
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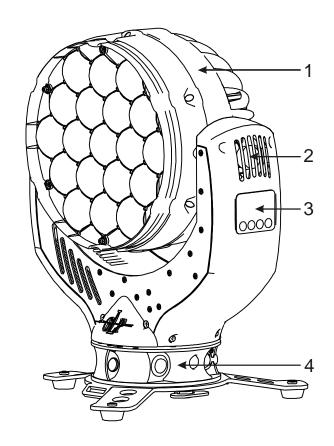
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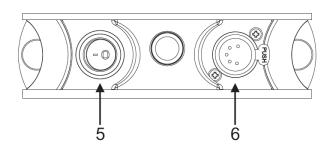


1 Description of Device

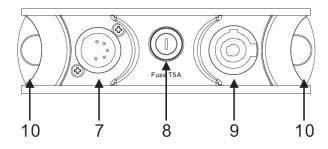
- Moving head (actively and passively cooled)
- 2. Arm with various cooling vents
- LCD-Display/Menu (data entry)
- Base with various connectors and Camlock mounting system



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.
- 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. The fixture doesn't contain any user serviceable parts. Opening the fixture will void all warranties.
- 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.
- 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.

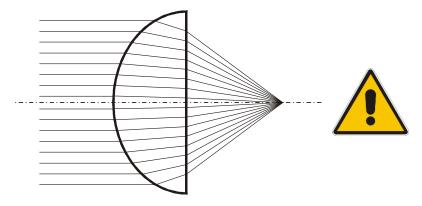
If the rays from a strong light source (such as the sun or another lighting fixture) are directed towards the front of any of these fixtures, then internal damage may occur. In a worst case scenario with a high power light source this can happen very quickly, damaging the fixture internally, potentially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



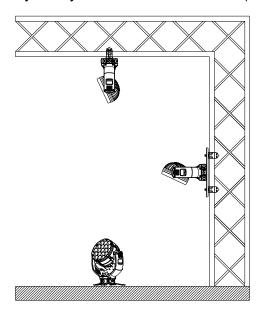
Should you have any questions about the operation of your fixture then please



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.).





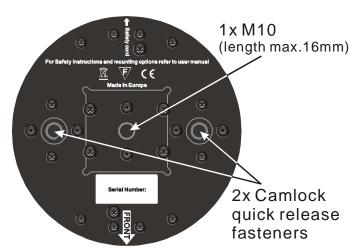
Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217.

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.

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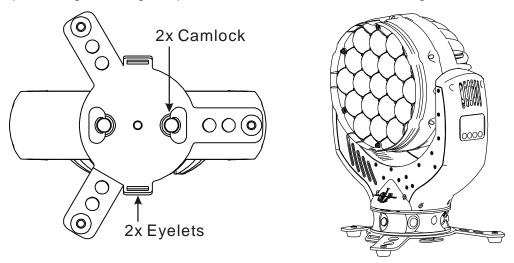




front side of the fixture

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.



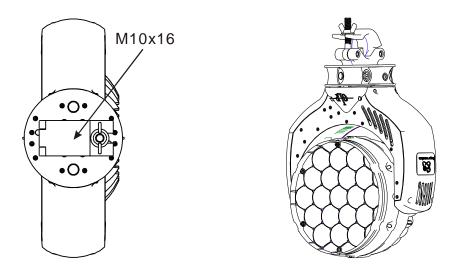
2.2.2 Mounting in hanging position

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.

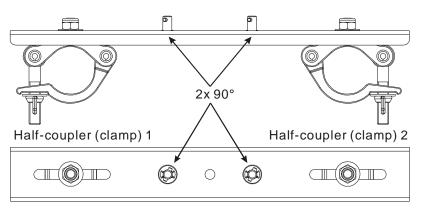
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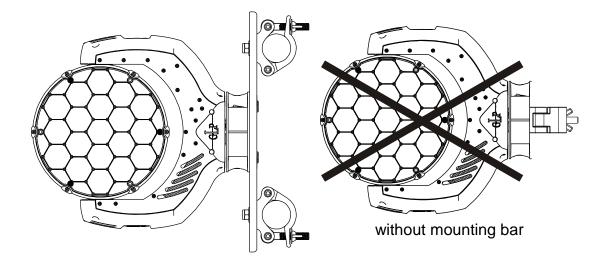
2.2.3 Mounting in sideways Position

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.



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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

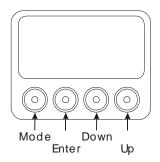
USITT DMX-512 Standard input/output in 5 pin connectors.

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
	Special	Manual DMX			Manual control of all fixture functions
			Pan		Manual control for Pan (X-movement)
			Pattern Byte 3		Manual control for Pattern Byte 3 LED 17 -19
			Pattern Byte 2		Manual control for Pattern Byte 2 LED 9 - 16
Λ dΩ			Pattern Byte 1		Manual control for Pattern Byte 1 LED 1 - 8
			Pattern		Manual control for Pattern channel / bank
Ν			Zoom		Manual control for Zoom
- DOWN -			Speed Movements		Manual control for Pan/Tilt movements
Ψ			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)
		Adjust	_		
_	01.0	Call Day Late	Key code xxxx		Use the code for entering the calibration menu (for authorized persons only)



			_	
•		Display Contrast		Adjustment for the Display contrast
UP		PWM - Frequ. Adj.		Changes PMW frequency
		Pan Offset		Calibration for Pan-Offset
N N		Tilt Offset		Calibration for Tilt-Offset
- DOWN		LED adjust		
Y			White adjust red	Adjust intensity for red channel
			White adjust blue	Adjust intensity for blue channel
			White adjust green	Adjust intensity for green channel
		Clear EEPROM	9 . 00	Erase EEPROM memory
		Diagnose		Diagnose fixture functions
	DMX Image			
		Set image if DMX off		Activates a stored scene if DMX is off
		Save image in memory		Stores the scene currently sent to the unit
	DMX input Monitor	-		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
		Pattern		Instantaneous value for Pattern channel / bank
		Zoom		Instantaneous value for Zoom
		Speed Movements		Speed adjustment for Pan/Tilt movements → see item below
		Pan/Tilt Movements		Instantaneous value for Pan/Tilt movements
		Special		Instantaneous value for Special
^		White Temperature		Adjustment of the color temperature for WHITE
- P		Dimmer		Instantaneous value for Dimmer
1		Shutter		Instantaneous value for Shutter
MC		White		Instantaneous value for White
→ DOWN		Blue		Instantaneous value for Blue
•		Green		Instantaneous value for Green
		Red		Instantaneous value for Red





		Color Wheel
Set DMX Mode		
	Compressed Mode	
	Normal Mode	
	High-Res. Mode	
Position feedback		
Reverse Pan		
Reverse Tilt		
Reset		

Instantaneous value for Color Mixing unit
Select the desired DMX Mode
Fixture works in "Compressed" mode → see also section 4 unterhalb
Fixture works in "Normal" mode → see also section 4 unterhalb
Fixture works in "High Resolution" mode → see also section 4 unterhalb
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	0 295°	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
, - 1	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





Channel	Function RESET			Time and Value	DMX	%
					250255	98100
14) Movement	No macros				0	0
.,	Movement		Phase	Use "Speed" to adjust		
macros	PAN	1	0°		0101	0.5
		1	90°		0203	1.0
		1	180°		0405	1.7
		1	270°		0607	2.5
	PAN	2	0°		0809	3.3
		2	90°		1011	4.1
		2	180°		1213	4.9
		2	270°		1415	5.7
	PAN	3	0°		1617	6.5
		3	90°		1819	7.3
		3	180°		2021	8.0
		3	270°		2223	8.8
	PAN	4	0°		2425	9.6
		4	90°		2627	10.4
		4	180°		2829	11.2
		4	270°		3031	12
				se see PAN	3263	1325
				se see PAN	6495	2637
	PAN / TILT (inverse) size / phas			se see PAN	96127	3850
	<u> </u>			se see PAN	128159	5162
	Circle (inverse) size / phas		se see PAN	160191	6375	
				se see PAN	192223	7687
				se see PAN	224255	88100
15) Speed	Pan/Tilt mov		peed from		01	005
Pan/Tilt	Pan/Tilt, slo Use this cha speed of the 14).	annel also	o for the ents (channel		02255	1100
16) Zoom	Wide - narro	ow (spot)			0255	0100
17) Pattern	No pattern				02	01
	250 pre-def		erns		03253	299
	Activates direct access to LED Pattern		See channels 18-20	254255	100	
18) Pattern Byte 1	Direct acces	ss to Patte	ern of LED		0255	0100
19) Pattern Byte 2	Direct acces	ss to Patte	ern of LED		0255	0100
20) Pattern Byte 3	Direct acces	ss to Patte	ern of LED		007	02.5
Dyte 3	1713					



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	0 295°	1,5s	0255	0100
4) Tilt-fine		,	0255	0100
5) Color	Colors adjustable via RGB		07	02.5
(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





Channel	Function	Time and Value	DMX	%
	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			0255	0100
3) Tilt-coarse	0 295°	1,5s	0255	0100
4) Tilt-fine		,	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		47	1.52.5
	PWM lower	~ 582 Hz ~ 600Hz	100149	3957
	PWM (Default)	600Hz	150	58
	PWM higher	~ 600 Hz ~ 618 Hz	151200	5978
40) Dettern	RESET		250255	98100
18) Pattern	No pattern		02	01
	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





Channel	Function	Time and Value	DMX	%
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

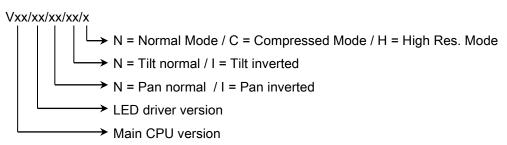
- ¹⁾ The predefined colors can be used as start-colors for the Rainbow effect. Please select first a desired start-color before you activate the rainbow effect. All **IMPRESSION X4** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4** can have 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.

--G_P--

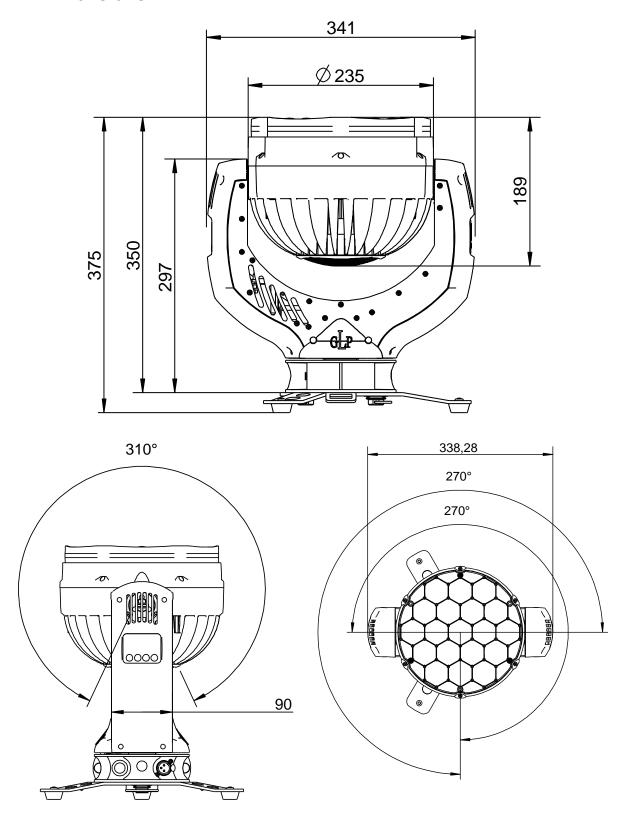


6 Technical Specifications

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 Temperature	5° - 45°C (integrated overheating switch)						
Mounting Position	Any (see relevant chapter)						
Lighting System - Additi	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 B	it)						
Strobe- Effect with variable Effects	e speed between 1 - 10 flashes per second, Random-Strobe, Pulse-						
Continuous Dimmer 0 - 10	0%						
Zoom							
7 to 50 degree continuous	zoom						
Optical Patterns							
Several hundred pre-defin	ed beam patterns with direct access and manipulation						
DMX Control							
	2, 5 pin XLR; [+] = Pin 3 / [-] = Pin 2 / [Ground] = Pin 1 / Pin 4&5 N.C. ts at the DMX channel [001].						
Pan / Tilt (8/16 Bit)							
Pan- movement	623° in min. 3,2 seconds (Position Feedback)						
Tilt- movement	295° 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	

DMX	Pattern
012	
013	
014	
015	
016	
017	
018	
019	
020	
021	
022	
023	

DMX	Pattern
024	
025	
026	
027	
028	
029	
030	
031	
032	
033	
034	
035	

DMX	Pattern
036	
037	
038	
039	
040	
041	
042	
043	
044	
045	
046	
047	



DMX	Pattern	DMX	Pattern	DMX	Pattern	DMX	Pattern
048		065		082		099	
049		066		083		100	
050		067		084		101	
051		068		085		102	
052		069		086		103	
053		070		087		104	
054		071		088		105	
055		072		089		106	
056		073		090		107	
057		074		091		108	
058		075		092		109	
059		076		093		110	
060		077		094		111	
061		078		095		112	
062		079		096		113	
063		080		097		114	
064		081		098		115	

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DMX	Pattern	DMX	Pattern	DMX	Pattern	DMX	Pattern
116		133		150		167	
117		134		151		168	
118		135		152		169	
119		136		153		170	
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	

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DMX	Pattern	DMX	Pattern	DMX	Pattern	DMX	Pattern
184		201		218		235	
185		202		219		236	
186		203		220		237	
187		204		221		238	
188		205		222		239	
189		206		223		240	
190		207		224		241	
191		208		225		242	
192		209		226		243	
193		210		227		244	
194		211		228		245	
195		212		229		246	
196		213		230		247	
197		214		231		248	
198		215		232		249	
199		216		233		250	
200		217		234		251	

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DMX	Pattern
252	

DMX	Pattern
253	reserved
254	reserved

DMX	Pattern
255	reserved

Patterns Set 2

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

DMX	Pattern
014	
015	
016	
017	
018	
019	
020	
021	
022	
023	
024	
025	
026	
027	

DMX	Pattern
028	
029	
030	
031	
032	
033	
034	
035	
036	
037	
038	
039	
040	
041	

DMX	Pattern
042	
043	
044	
045	
046	
047	
048	
049	
050	
051	
052	
053	
054	
055	



DMX	Pattern
056	
057	
058	
059	-



