

# **Instruction Manual**



from Software Version 1.09/0.3 (Manual Version 1.06)



- since 1994 -

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For your notes:	







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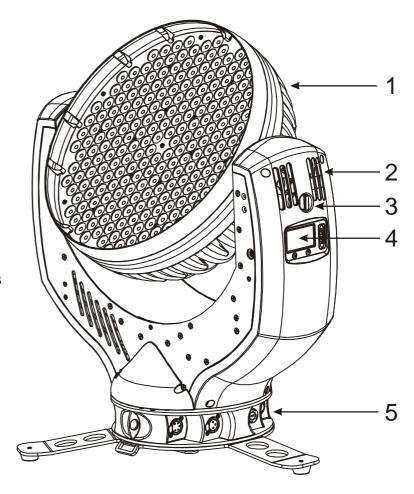
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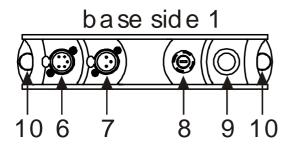


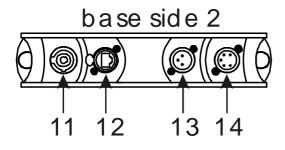


### 1 Description of Device

- Moving head (actively and passively cooled)
- 2. Arm with various cooling vents
- Tilt-lock to secure and lock the tilt movement → see also 1.1
- 4. LCD-Display/Menu (data entry)
- Base with various connectors and Camlock mounting system
  - → Safety eyelets







- 6. DMX- Output (5 Pin)
- 7. DMX- Output (3 Pin)
- 8. Micro-fuse 6.3x32mm, T15A
- 9. Power On/Off
- 10.2x Safety eyelets
- 11. Powercon (Mains supply)
- 12. Blank panel
- 13. DMX-Input (3 Pin)
- 14. DMX- Input (5 in)

Note: Only connect one cable to the DMX-Out/Input at a time!





### 1.1 Safety Instructions



The **IMPRESSION XL** is an advanced technology product. To guarantee smooth operation, it is necessary to follow the following instructions.

The manufacturer of this device will not take responsibility of damages through any disregard of the information in this user manual. Warranty claims will also be cancelled in the event of the system casing being opened.

- 1. Make sure that before powering up the fixture, the fans and air inlets are clean and not blocked by anything.
- 2. Before powering up the fixture, ensure that the moving head part of the fixture can rotate unhindered through its full range of movement.
- 3. A safety distance of at least 0.5 m to any easily flammable material (e.g. decoration material) must be adhered to.
- 4. <u>Attention!</u> Don't touch the device during operation. Parts of the fixture can become hot and can cause injuries and / or damages.
- 5. The system doesn't contain any user serviceable parts. Opening the fixture will void the manufacturers warranty.
- 6. Danger of burning. Wait at least 15 minutes after disconnecting the AC power before changing the optical carrier on the fixture. Pay attention to possible hot parts of the system.
- 7. Never look directly into the beam of light or one of the LEDs. Never use optical apertures with a distance less than 0.5 m to observe the beam of light. <u>LED Class 2M.</u> Not following these precautions can result in serious injury to your eyes and in particular, 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.

### Avoid direct radiation to your eyes!

- 8. To ensure proper operation, you must also follow the installation guide described in chapter 2 of this manual. Operating the **IMPRESSION XL** without suitable mounting devices can increase the risk of an accident.
- 9. The IMPRESSION XL features a unique small and lightweight design with no specific carrying handles. Care needs to be shown when handling the fixture to ensure that no unnecessary damage should occur. Fragile areas include the LCD display and cover on one side arm and the front bezel. Pressure in these areas could result in damages which will not be covered by the standard warranty.





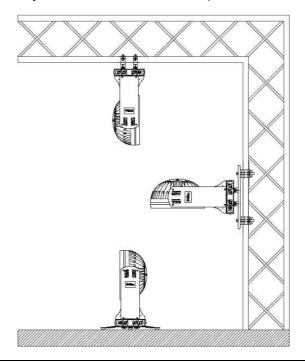


- 10. Repair-, maintenance- and installation work should only be performed by qualified or GLP certified staff. You need to pay attention to the common rules of technology that are not explicit mentioned in this manual.
- 11. Use only original spare parts. Any structural modification on the system will terminate all warranty claims.
- 12. Please keep this instruction manual for future reference.

### 2 Preparation and Installation

### 2.1 Mounting

The **IMPRESSION XL** is fully operational whether it hangs or is mounted to a wall. It can also be operated while standing on the floor. Keep a safety distance of 0.5 m from 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 personal only.

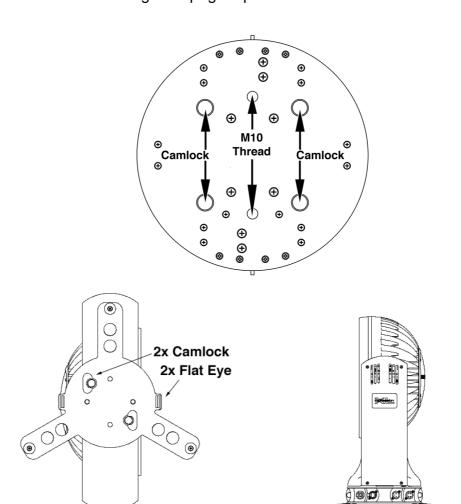
For the various mounting positions of the **IMPRESSION XL** (standing on the floor, sideways or hanging) different accessories kits are available. Using any required kits, along with the standard mounting connectors on the base of the fixture, will ensure a safe and firm installation.





### 2.1.1 Mounting on the floor (upright)

To operate the **IMPRESSION XL** in an upright position, please use the dedicated floor-stand which ships with all original fixtures. The floor stand is mounted to the base of the fixture using the two Camlock quarter turn fasteners. Line up and engage the camlock connectors from the floor stand into the base of the fixture and turn the two fasteners 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 additional bracing of the floor-stand during the upright operation.



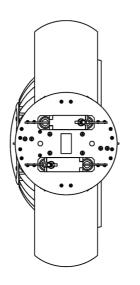
### 2.1.2 Mounting in hanging position (Head down)

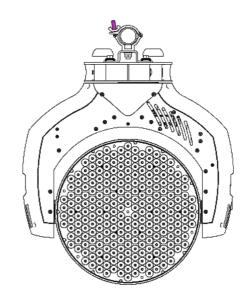
To operate the **IMPRESSION XL** in a hanging position, two omega brackets can be mounted directly to the bottom of the base using the four Camlock connectors.





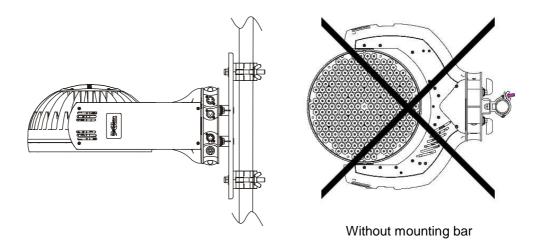






### 2.1.3 Mounting in sideway position

To operate the **IMPRESSION XL** in a sideways position, please use an additional mounting bar, available from GLP or one of their agents.. This mounting bar is fixed via the four camlock quick-release connectors. Two half-couplers or clamps are then used to hang the mounting bar. This technique is necessary to cope with the additional torque in this mounting position. Never use the "Mounting in hanging position" technique described above to secure the fixture in a sideway position, as the fixtures base can become damaged, and a secure installation cannot be assured.









### 2.2 Securing the Device

Regardless of the mounting method of the **IMPRESSION XL** you'll have to use a secondary safety wire. This safety wire can be attached to the fixture by threading it through one of the two holes provided on the base of the fixture. Ensure that the safety wire is securely fastened through the fixture and the fixtures mounting support. Install a safety wire that can hold at least 10 times the weight of the fixture

#### 2.3 Connections

### 2.3.1 Power Supply

~100-240 Volt AC, 50-60 Hz, earth contact type plug - Powercon

Connected load 1200 VA (W) <=> T15A (micro-fuse 6.3x32mm)

Please see printing on the case for the correct mains supply!

Disconnect from the mains supply for changing the fuse and use only the above described micro-fuse type.

#### 2.3.2 DMX

USITT DMX-512 Standard input/output in 3 pole and 5 pole connectors.

3 pole: Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+]

5 pole: Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+] / Pin 4/5 n.c.

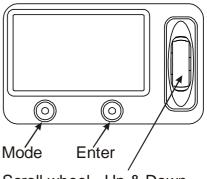
The DMX- Addressing starts at the DMX- Address [001].





### 3 The Menu Field

You'll find the control board on the side of the arm. It allows you to make all necessary adjustments of the **IMPRESSION XL.** 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 to the next menu level or to confirm your settings. Select **ON/ OFF** function settings with the **Up/Down-**keys. Confirm and save with the **Enter-**key (the display shows **OK**). Push the **Mode-**key to cancel the entry and go back to the main menu.



Scroll wheel - Up & Down

### ← MODE - ENTER →

	Level1	Level 2	Level 3	Level 4	Remark
	DMX Start Address 001				Define the DMX start address
	Special	Manual DMX			Manual control of all system functions
			Pan		Manual control for Pan (X-movement)
			Speed Movements		Speed adjustment for Pan/Tilt movements → see also item below
			Pan/Tilt Movements		Manual control for Pan/Tilt movement
			Special		Activate the White- or Full-Power Mode; see also DMX table
			White Temperature		Adjustment of the white color temperature
<b>↑</b>			Dimmer		Manual control for dimmer
DOWN - UP			Shutter		Manual control for shutter
			Blue		Manual control for blue
90			Green		Manual control for green
$\overline{ullet}$			Red		Manual control for red
			Color Wheel		Manual control for the color wheel
			Tilt		Manual control for tilt (Y-movement)
		Display Contrast			Adjustment for the Display contrast
		Default Set			Resetting all functions to original values
		Set Dimmer Frequency			Changes PMW frequency between 600Hz and 1200Hz
		LED Dimmer Version			Reads out the current LED dimmer (software) version
		ImpressionXL Version			Reads out the current CPU software version
		Adjust	Key code xxxx		Use the code for entering the calibration menu (for authorized persons only)
			Pan Offset		Calibration for Pan-Offset







	Tilt Offset		Calibration for Tilt-Offset		
	Clear EEPROM		Erase EEPROM memory		
	Diagnose		Diagnose functions		
		Pos Feed Pan Delta	Internal data and function diagnose		
		Anz Ti0-Int- Err	Internal data and function diagnose		
		PFC Voltage	Show the present PFC voltage		
		LED PWM Vers 1	Shows Dimmer-1-Software Version		
		LED PWM Vers 2	Shows Dimmer-2-Software Version		
		LED PWM Vers 3	Shows Dimmer-3-Software Version		
	,	Pos Feed Tilt Delta	Internal data and function diagnose		
Temperature Arm			Indicates the present arm temperature		
Temperature Head			Indicates the present head temperature		
PAN/TILT Motor Power			Switches power for Pan/Tilt ON or OFF (disconnected from power)		
PAN/TILT Silent Mode			Reduces maximum speed for Pan/Tilt		
DMX Hold			Defines whether the last DMX signal is stored or the lamp is switched OFF in case of signal interruption		
Position Feedback			Automatically position feedback (correction) for Pan/Tilt movement		
White Adjust			Adjustments for a uniform white color (white balance); only in white-mode		
	Red		Input for red adjustments		
	Blue		Input for blue adjustments		
	Green		Input for green adjustments		
Set DMX Image			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		
	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		
	Dimmer		Instantaneous value for dimmer		







Shutter
Blue
Green
Red
Color Wheel
Tilt

Live time **Display** Blackout Select DMX Mode ← DOWN - UP → Compressed Normal High-Resolution White Mode Reverse Pan Reverse Tilt Reset

Instantaneous value for shutter
Instantaneous value for blue
Instantaneous value for green
Instantaneous value for red
Instantaneous value for Color Mixing unit
Instantaneous value for Tilt movement
Indicates the overall operation time of the system
Adjust the display
ON/OFF: Display OFF
Please select the desired DMX Mode
Fixture works in "Compressed" mode → see also sectiion 4
Fixture works in "Normal" mode → see also section 4
Fixture works in "High Resolution" mode → see also section 4
ON/OFF: Adjustments for white-balance are activated
Selects Inverse Pan, on or off
SelectsInverse Tilt on or off
RESET all functions

### 4 DMX Channel Sheet

### Normal-Mode 14 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°		0255	00FF	0100
2) PAN-fine	High- Pos High- Pos + 2,6°(16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 300°		0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)		0255	00F F	0100
5) Color	Colors adjustable via RGB		07	0007	02,5
(fixed)	Color 01 - Red 1)		815	080F	35,5
	Color 02 - Amber 1)		1623	1017	68,5
	Color 03 - Warm Yellow 1)		2431	181F	912,5
	Color 04 - Yellow 1)		3239	2027	1315,5
	Color 05 - Green 1)		4047	282F	1618,5
	Color 06 - Turquoise 1)		4855	3037	1921,5
	Color 07 - Cyan 1)		5663	383F	2224,5
	Color 08 - Blue 1)		6471	4047	2527,5
	Color 09 - Lavender 1)		7279	484F	2830,5







Channel	Function			Time and Value	DMX	HEX	%
	Color 10 - M	auve 1)			8087	5057	3134,5
	Color 11 - M	agenta 1)			8895	585F	3537,5
	Color 12 - Pi				96103	6067	3840,5
	White - CTO			Color temperature 3200K	104111	686F	4143,5
	White		Color temperature 5600K	112119	7077	4446,5	
	White - CTB		Color temperature 7200K	120127	787F	4749,5	
	Rainbow Eff	ect Stop 2)			128	80	50
	Rainbow Eff			slow - fast	129223	81DF	5188
	Rainbow Eff	ect, randon	n colors	slow - fast	224.255	E=FF	89100
6) Red	Color mixing	system - F	Red	0 - 100%	0255	00FF	0100
7) Green	Color mixing	system - (	Green	0 - 100%	0255	00FF	0100
8) Blue	Color mixing	system - E	Blue	0 - 100%	0255	00FF	0100
9) Shutter	Shutter close				015	000F	05,5
	Random Pul			slow - fast	1647	102F	618,5
	Up-dimming (random pat	terns)	_	slow - fast	4879	304F	1931
	Shutter open then down-dimming (random patterns)			slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)		-dimming	slow - fast	112143	708F	4456
	Strobe effect			5s to 1s	144199	A0C7	5777
	Strobe effect		st	1 Hz 10 Hz	200239	C8EF	7894
	Shutter oper	)			240255	F0FF	95100
10) Dimmer	Dimmer			0% - 100%	0255	0FF	0100
11) Color	No color tem	perature c	orrection		06	006	02
temperature	Continuous			Applicable only for	7255	07FF	3100
	correction be		0k - 7200k	White color 5)			
12) Special	Max. Power-			Max. light output without white balance	015	00F	05,5
	White-Mode	4)		White balance used	1631	101F	612,5
	Fan min. as				224229	E0E5	8889,5
	RESET (No	rmal Mode	)		250255	FAFF	98100
13) Move-	No moveme				0	00	0
ment	Movement	Size	Phase				
	PAN	1	0°		0101	0101	0,5
		1	90°		0203	0203	1,0
		1	180°		0405	0405	1,7
	DAN	1	270° 0°		0607	0607	2,5
	PAN	2	90°		0809	0809	3,3
		2	180°		1011 1213	0A0B 0C0D	4,1 4,9
		2	270°		1415	0E0F	5,7
	PAN	3	0°		1617	1111	6,5
	. / (( )	3	90°		1819	1213	7,3
		3	180°		2021	1415	8,0
		3	270°		2223	1617	8,8
	PAN	4	0°		2425	1819	9,6
		4	90°		2627	1A1B	10,4
		4	180°		2829	1C1D	11,2
		4	270°		3031	1E1F	12







Channel	Function		Time and Value	DMX	HEX	%
	TILT	size / phase	see also PAN	3263	203F	1325
	PAN / TILT	size / phase	see also PAN	6495	405F	2637
	PAN / TILT (inverse)	size / phase	see also PAN	96127	607F	3850
	Circle	size / phase	see also PAN	128159	809F	5162
	Circle (inverse)	size / phase	see also PAN	160191	A0BF	6375
	Lying eight	size / phase	see also PAN	192223	C0DF	7687
	Random movement	size see als	o PAN	224255	E0FF	88100
14) Speed	Pan/Tilt relative movemen	t		01	0001	00,5
Pan/Tilt	Pan/Tilt slow - fast		Pan Min. 660°= 200s	2255	02FF	1100
	Use this channel 14) also fe	or the speed	Pan Max. 660°			
	of the movements (channe	l 13).	Tilt Min. 300°= 110s			
			Tilt Max. 300°			

### 4) Max. Power-Mode vs. White-Mode

The **IMPRESSION XL** can use the white-balance adjustments for each individual color setting. Whether the White-Mode is used with RGB can be selected in the **Normal DMX-Mode** by using the Special DMX channel. If the Special channel is set to a value between DMX 0..15, the White-Mode is not used and the RGB goes for the maximum light output. If the Special channel is set to a value between DMX 16..31, the white balance is used for the RGB output.

Since there is no Special DMX channel in the **Compress DMX-Mode**, the possibility exists to likewise select these settings also in the display menu. If the White-Mode is set to "ON", the white-balance is activated. If the White-Mode is set to "OFF", the RGB goes for the maximum light output (Max. Power-Mode).

#### **Compress-Mode 10 DMX channels**

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-	0 660°		0255	00FF	0100
coarse					
2) PAN-fine	High- Pos High- Pos + 2,6°(16 Bit)		0255	00FF	0100
3) Tilt-	0 300°		0255	00FF	0100
coarse					
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)		0255	00FF	0100
5) Color	Colors adjustable via RGB		07	0007	02,5
(fixed)	Color 01 - Red 1)		815	080F	35,5
	Color 02 - Amber 1)		1623	1017	68,5
	Color 03 - Warm Yellow 1)		2431	181F	912,5
	Color 04 - Yellow 1)		3239	2027	1315,5
	Color 05 - Green 1)		4047	282F	1618,5
	Color 06 - Turquoise 1)		4855	3037	1921,5
	Color 07 - Cyan 1)		5663	383F	2224,5
	Color 08 - Blue 1)		6471	4047	2527,5

<sup>&</sup>lt;sup>5)</sup> The continuous color temperature correction is applicable only for the White color i.e. if this function is selected (DMX ≥ 001) the **Impression XL** will change the color to white immediately and will then be adjustable in the color temperature in a range between 3200K and 7200K. Hence a color correction for others than white is not intended.







Channel	Function	Time and Value	DMX	HEX	%
	Color 09 - Lavender 1)		7279	484F	2830,5
	Color 10 - Mauve 1)		8087	5057	3134,5
	Color 11 - Magenta 1)		8895	585F	3537,5
	Color 12 - Pink 1)		96103	6067	3840,5
	White - CTO	Color temperature 3200K	104111	686F	4143,5
	White	Color temperature 5600K	112119	7077	4446,5
	White - CTB	Color temperature 7200K	120127	787F	4749,5
	Rainbow Effect Stop 2)		128	80	50
	Rainbow Effect 3)	slow - fast	129223	81DF	5188
	Rainbow Effect, random colors	slow - fast	224.255	E=FF	89100
6) Red	Color mixing system - Red	0 - 100%	0255	00FF	0100
7) Green	Color mixing system - Green	0 - 100%	0255	00FF	0100
8) Blue	Color mixing system - Blue	0 - 100%	0255	00FF	0100
9) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	304F	1931,5
	Shutter open then down-dimming (random patterns)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	708F	4456
	Strobe effect pause	5s to 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240249	F0F9	9597,5
	RESET	Min. 3 Sec.	250	FA	98
	Shutter open		251255	FBFF	99100
10) Dimmer	Dimmer (0% - 100%)		0255	0FF	0100

## **High Resolution (Extended) - Mode 13 DMX Channels**

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-	0 660°		0255	00FF	0100
coarse					
2) PAN-fine	High- Pos High- Pos + 2,6°(16 Bit)		0255	00FF	0100
3) Tilt-	0 300°		0255	00FF	0100
coarse					
4) Tilt-fine	High- Pos High- Pos + 1,2° (16 Bit)		0255	00F F	0100
5) Red-	Color mixing system – Red	0 - 100%	0255	00FF	0100
coarse					
6) Red-fine	Color mixing system – Red-Low		0255	00FF	0100
7) Green-	Color mixing system – Green	0 - 100%	0255	00FF	0100
coarse					
8) Green-	Color mixing system – Green-Low		0255	00FF	0100
fine					
9) Blue-	Color mixing system – Blue	0 - 100%	0255	00FF	0100
coarse					
10) Blue-fine	Color mixing system – Blue-Low		0255	00FF	0100







Channel	Function	Time and Value	DMX	HEX	%
Chaine		Tillie allu value	DIVIX	IILX	/0
11) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	304F	1931,5
	Shutter open then down-dimming (random patterns)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	708F	4456
	Strobe effect pause	5s to 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240249	F0F9	9597,5
	RESET	Min. 3 Sec.	250	FA	98
	Shutter open		251255	FBFF	99100
12) Dimmer- coarse	Dimmer	0% - 100%	0255	0FF	0100
13) Dimmer- fine	Dimmer - Low		0255	0FF	0100

<sup>&</sup>lt;sup>1)</sup> The predefined colors can be used as start colors for the Rainbow effect. First select a desired start color, then activate the rainbow effect. All **IMPRESSION XL** will then begin from that color and execute the rainbow effect synchronously. Different **IMPRESSION XL** 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.

#### **Locking and unlocking the Control Panel**

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

#### Additional shortcut features when switching on the fixture

- a) 1200Hz Mode (Hold down the **UP- button** during power ON)
  - After switching on, the fixture the LEDs will be operated with a Pulse Width Modulation (PWM) of 1200Hz.
  - In addition, all standard settings will be loaded (DMX start address [001], Normal Mode).
- b) 600Hz Mode (Hold down the **DOWN- button** during power ON)
  - After switching on, the fixture the LEDs will be operated with a Pulse Width Modulation (PWM) of 600Hz.
  - In addition, all standard settings will be loaded (DMX start address [001], Normal Mode).

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

<sup>&</sup>lt;sup>3)</sup> The Rainbow-effect will run synchronously only if it is started from one of the predefined colors (see also <sup>1)</sup> before).



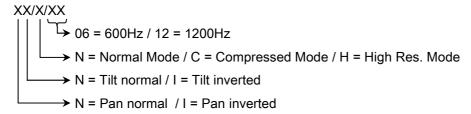




c) Standard Mode (Hold down the ENTER- button during power ON) After switching on the fixture, the DMX start address will be set to [001]. All other settings will remain unchanged.

### **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 XL

The **IMPRESSION XL** is a low maintenance fixture. 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. If they do, the fixture's light output will be significantly reduced, and damages to the fixture may occur. Regular cleaning will not only ensure the maximum light output, but will also allow the fixture to operate reliably throughout its entire life.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended. Under no circumstances should alcohol or solvents be used to clean the fixture or its lenses!

#### 5.1 Safety regulations

- Disconnect the fixture from the mains power before commencing any maintenance work!
- Wait minimum 15 minutes after removing the power to allow the fixture to cool down.

### 5.2 Maintenance Intervals (rule-of-thumb)

The maintenance schedule of any given fixture depends on the installation environment. Hence no specific guidelines can be given. The cleaning intervals given below are suggestions, based on practical experience. We suggest that you start with these and develop your own maintenance schedule as you see the fixtures performance in your specific environment.

Maintenance Task	Interval	How
Cleaning of LED lenses and optical system	weekly	soft brush /lint-free cloth







Cleaning of fans and air channels 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 touch dry.
- Never touch lenses with bare fingers.

## **Technical Specifications**

Power supply				
Power consumption	1200 VA (Watt)			
Power Input	~100-240 V AC, 50-60 Hz (auto sensing input)			
Fuse protection	Micro-fuse 6.3x32 mm, T15A			
Operational Parameters				
Max. Ambient	45℃ / 113℉ (integrated overheating switch)			
Temperature				
<b>Mounting Position</b>	Any (see chapter mounting)			
Lighting System - Additive Color mixing				
LED Type	240x Luxeon K2 High-power- LEDs			
Lifetime	50.000 h			
78 red, 84 green, 78 blue LEDs, wavelength optimized for maximum presentable color space.				
Optical System				
High efficient Collimator cluster				
Exchangeable optical carrier with 10° light distrib ution angle (25° optional)				







Scattering light aperture
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### Shutter / Dimmer (8/16 Bit)

Strobe- Effect with variable speed between 1 - 10 flashes per second, Random-Strobe, Pulse-Effects

Continuous Dimmer 0 - 100%

### **DMX Control**

(net)

Standard USITT DMX-512, 3/5 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1.

DMX- Addressing starts at the DMX channel [001].

Pan- movement	660° (Position Feedback)
Tilt- movement	300° (Position Feedback)
Weights and Measures	
Width of the base	521 mm
Length of the base	217 mm
Height (head vertical)	550 mm
Fixture weight (net)	23,5 kg
Floor Mount weight	2 kg







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