# impression \*\*

# struction Manua



from software version 1.24/30 (Instruction version 1.5)



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Notes:	





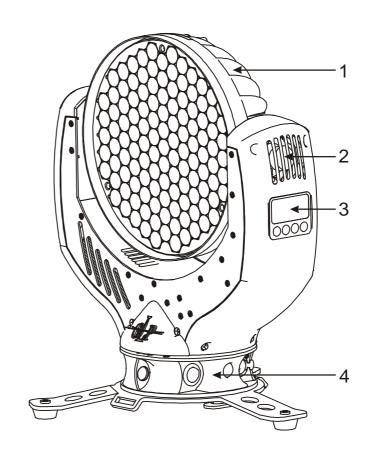
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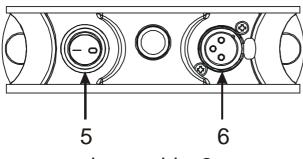


# 1 Description of Device

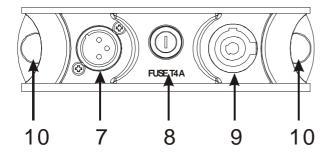
- Moving head (actively and passively cooled)
- 2. Arm with various cooling vents
- LCD-Display/Menu (data entry)
- Base with various connectors and Camlock mounting system



base side 1



base side 2



- 5. Power On/Off
- 6. DMX- Output (3 pole)
- 7. DMX-Input (3 pole)
- 8. Micro-fuse 5x20mm, T5A
- 9. Mains supply (Powercon)
- 10.2x Safety eyes



### 1.1 Safety Instructions



The **IMPRESSION** 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** without suitable mounting devices can increase the risk of an accident.
- 9. The IMPRESSION 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.



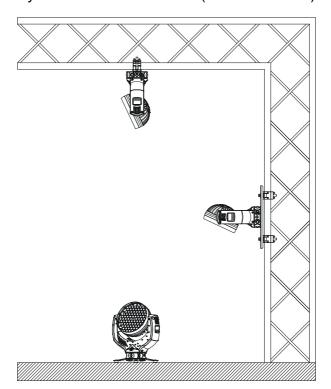
Pressure in these areas could result in damages which will not be covered by the standard warranty.

- 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** 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.).



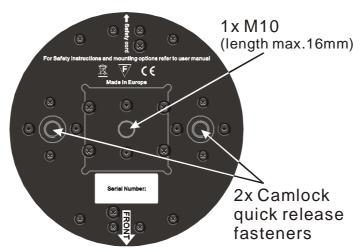


Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217.

The installation shall be done by qualified personal only.



For the various mounting positions of the **IMPRESSION** (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.



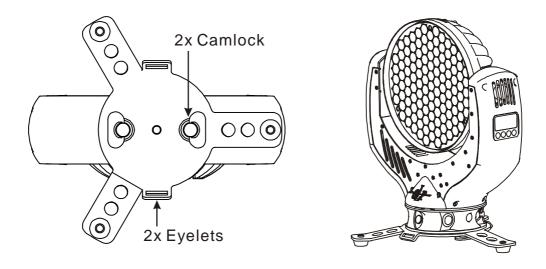
front side of the fixture

### 2.1.1 Mounting on the floor (upright)

To operate the **IMPRESSION** 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.

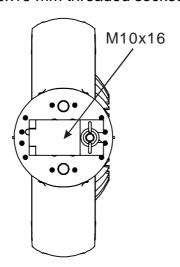
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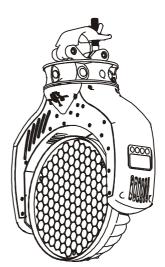




### 2.1.2 Mounting in hanging position (head down)

To operate the **IMPRESSION** in a hanging position, a half-coupler or similar clamp can be mounted directly to the bottom of the base using the M10x16 mm threaded socket.

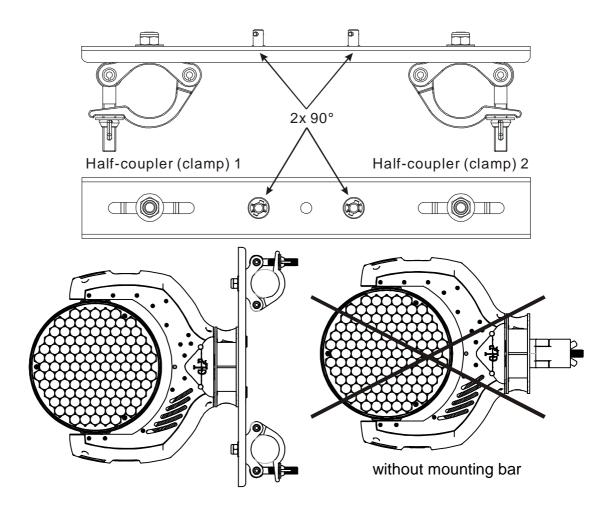




### 2.1.3 Mounting in a sideway position

To operate the **IMPRESSION** 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 two 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** 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, via Powercon Connected load 350 VA (W) <=> T5A (micro-fuse 5x20mm)

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



### 2.3.2 DMX

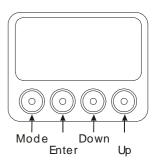
USITT DMX-512 Standard input/output with 3 pole connectors.

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

The DMX- Addressing starts at 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.** 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.



### ← 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 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 macro movements
•			Special		Activate the White- or Full-Power Mode; see also DMX table
Λ dυ			White Temperature		Manual control for color temperature
			Dimmer		Manual control for dimmer
DOWN			Shutter		Manual control for shutter
9			Blue		Manual control for blue
Ψ			Green		Manual control for green
			Red		Manual control for red
			Color Wheel		Manual control for the color wheel mimic
			Zoom		Manual control for zoom
			Tilt		Manual control for Tilt (Y-movement)
		Display Contrast			Adjustment for the Display contrast
		Default Set			Resetting functions
			1.10		Resetting all functions to original values (Standard).



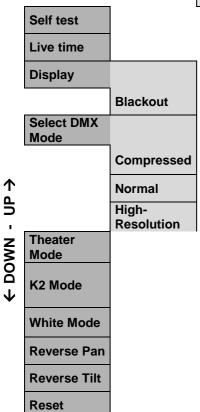


	Full Feature		Resetting all functions to original values (Full Feature)		
Set Dimmer Frequency			Changes PWM frequency between 600Hz and 1200Hz		
LED Dimmer Version			Reads out the current LED dimmer (software) version		
Impression Version			Reads out the current CPU software version		
Adjust	Key code xxxx		Use the code to enter the calibration menu (for authorized persons only)		
	Pan Offset		Calibration for Pan-Offset		
	Tilt Offset		Calibration for Tilt-Offset		
	Blue		Calibration for Blue		
	Green		Calibration for Green		
	Red		Calibration for Red		
	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		
		Pos Feed Tilt Delta	Internal data and function diagnose		
Temperature Arm			Displays the arm temperature		
Temperature Head			Displays the head temperature		
PAN/TILT Motor Power			Switches power for pan/tilt motors ON or OFF		
PAN/TILT Silent Mode			Reduces maximum speed for pan/tilt		
Zoom Speed			Select faster zoom speed		
DMX Hold			Defines whether the last DMX signal is stored, or the lamp is switched OFF in case of signal interruption		
Position Feedback			Automatic position feedback selection for pan/tilt movement		
White Adjust			Adjustments for a uniform white color; only in white-mode		
	Red		Adjustment of red		
	Blue		Adjustment of blue		
	Green		Adjustment of green		
Set DMX Image		_	Takes and stores a DMX snapshot of the current DMX input		
DMX input Monitor			Displays the current DMX signal per DMX channel		
	Pan		Instantaneous value for Pan		





Instantaneous value for speed movements
Instantaneous value for pan/tilt movements
Instantaneous value for special channel
Instantaneous value for white temperature
Instantaneous value for dimmer
Instantaneous value for shutter
Instantaneous value for blue
Instantaneous value for green
Instantaneous value for red
Instantaneous value for zoom
Instantaneous value for color wheel mimic
Instantaneous value for tilt
Performs an automatic self-test
Indicates the total operation time of the system
Adjust the display
Sets the display On or Off
Allows selection of 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
Selects Theater Mode (Fans quiet) on or off
Selects K2 Mode (RGB looks like Impression 90) on or off
Selects the activation of Adjustments for white-balance, on or off.
Selects Inverse Pan, on or off



### a) Default Set 1.10

This mode resets the **IMPRESSION** to its standards like former software versions. (DMX address reset, Pan/Tilt invert reset, PWM frequency reset, standard dimmer curve, color correction doesn't work with RGB, no RDM)

SelectsInverse Tilt on or off

**RESET all functions** 



### b) Default Set "Full Feature"

This mode resets the **IMPRESSION** to its standards and with some new features (DMX address reset, Pan/Tilt invert reset, PWM frequency reset, new dimmer curve, color correction works with RGB, RDM)

### c) Theater Mode

This mode runs the fans of the fixture slower, reducing noise.. If the temperature of the **IMPRESSION** becomes too hot the fans do not increase in speed. Instead, the LED's will dim down from their output level to reduce the heat.

### d) K2 Mode

This mode adjusts the IMPRESSION 120 RZ RGB to the color mixing of the IMPRESSION 90 RGB.

# 4 DMX Channel Selection (DMX Protocol)

### Normal-Mode 15 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°	3,2 s	0255	00FF	0100
2) PAN-fine	High- Pos High- Pos + 2,6° (16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 300°	1,5 s	0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2° (16 Bit)		0255	00FF	0100
5) Color (fixed)	Colors adjustable via RGB  Color 01 - Red <sup>1)</sup> Color 02 - Amber <sup>1)</sup> Color 03 - Warm Yellow <sup>1)</sup> Color 04 - Yellow <sup>1)</sup> Color 05 - Green <sup>1)</sup> Color 06 - Turquoise <sup>1)</sup> Color 07 - Cyan <sup>1)</sup> Color 08 - Blue <sup>1)</sup>		07 815 1623 2431 3239 4047 4855 5663 6471	0007 080F 1017 181F 2027 282F 3037 383F 4047	02,5 35,5 68,5 912,5 1315,5 1618,5 1921,5 2224,5 2527,5
	Color 09 - Lavender 1) Color 10 - Mauve 1) Color 11 - Magenta 1) Color 12 - Pink 1) White - CTO	Color temperature	7279 8087 8895 96103 104111	484F 5057 585F 6067 686F	2830,5 3134,5 3537,5 3840,5 4143,5
	White - CTB	3200K Color temperature 5600K Color temperature 7200K	112119 120127	7077 787F	4446,5 4749,5
	Rainbow Effect Stop <sup>2)</sup> Rainbow Effect <sup>3)</sup> Rainbow Effect, random colors	slow - fast slow - fast	128 129223 224.255	80 81DF E=FF	50 5188 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 Random Pulse effect	slow - fast	015 1647	000F 102F	05,5 618,5





Channel	Function			Time and Value	DMX	HEX	%
	Up-dimming (random pat	then Shutter c	losing	slow - fast	4879	304F	1931
	Shutter oper (random pat	n then down-di		slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)		nming	slow - fast	112143	708F	4456
	Strobe effec	t pause		5s 1s	144199	A0C7	5777
	Strobe effec	t, slow - fast		1 Hz 10 Hz	200239	C8EF	7894
	Shutter oper	າ			240255	F0FF	95100
10) Dimmer	Dimmer			0 - 100%	0255	0FF	0100
11) Color	No color tem	perature corre	ection		06	006	02
temperature		color temperate etween 3200k		Applicable only for ALL colors 5)	7255	07FF	3100
12) Special	Max. Power-			Max. light output without white balance	015	00F	05,5
	White-Mode			White balance used	1631	101F	612,5
	Theater Mod			Mode ON	3235	2023	1314
	Theater Mod			Mode OFF	3639	2427	1415
	K2 Mode ON			Mode ON	4043	282B	1617
	K2 Mode OF			Mode OFF	4447	2C2F	17,519
	White Mode			Mode ON	4851	3033	1920
	White Mode			Mode OFF	5255	3437	20,521
	RGB value s	spreading ON <sup>6</sup>	)	Mode ON	5659	383B	2223,5
	RGB value spreading OFF 6) Reverse Tilt ON 6)		6)	Mode OFF	6063	3C3F	2425
				Mode ON	6467	4043	25,527
	Reverse Tilt	OFF 6)		Mode OFF	6871	4447	27,5 28,5
	Reverse Par			Mode ON	7275	484B	29
	Reverse Par	e Pan OFF 6)		Mode OFF	7679	4C4F	30,5 31,5
		long as temp.	< 90℃		224229	E0E5	8889,5
	RESET (No	rmal Mode)			250255	FAFF	98100
13) Move-	No moveme	ent			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
		1	270°		0607	0607	2,5
	PAN	2	0°		0809	0809	3,3
		2	90°		1011	0A0B	4,1
		2	180°		1213	0C0D	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
	TILT			see also PAN	3263	203F	1325
	PAN / TILT		<u> </u>	see also PAN	6495	405F	2637
II .	PAN / TILT (	inverse)	Isize / phase	e see also PAN	96127	607F	3850
	Circle	(	<u> </u>	see also PAN	128159	809F	5162



Channel	Function		Time and Value	DMX	HEX	%
	Circle (inverse)		see also PAN	160191	A0BF	6375
, , ,		size / phase see also PAN size see also PAN		192223 224255	C0DF E0FF	7687 88100
14) Speed	Pan/Tilt relative movemen	t	-	01	0001	00,5
Pan/Tilt	Pan/Tilt slow – fast Use this channel 14) also for of the movements (channel		Pan Min. 660° = 200s Pan Max. 660° = 3,2s Tilt Min. 300° = 110s Tilt Max. 300° = 1,5s	2255	02FF	1100
15) Zoom	Spot - Flood		10°- 26°	0255	00FF	0100

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

The **IMPRESSION** 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).

### 5) Color Temperature

At anytime the **IMPRESSION** can be used in a color correction mode, where by it over rides the values from the individual RGB color channels. You can choose to activate the white mode via the DMX signal using the Special channel.

### 6) Special Channel functionality

The Special channel allows you to edit some fixture functionality via the DMX signal. For all operations on the Special Channel you must first ensure that both the dimmer and shutter channels are set to 0. All commands from the Special channel must be held for at least 0.5 seconds for them to take effect.

### For example:

To invert the tilt channel via DMX from the lighting desk, first send a value of 0 to both the dimmer and shutter channels. Then send a value of 64-67 percent for a minimum of 0.5s, on the special channel.

To return the tilt to normal operation, you need to send a value of 68-71 percent on the special channel.

It is possible to change multiple functions using the special channel in this way.

Changes from the special channel will not be saved into the default settings of the IMPRESSION.





# **Compress-Mode 11 DMX channels**

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-	0 660°	3,2 s	0255	00FF	0100
coarse					
2) PAN-fine	High- Pos High- Pos + 2,6°(16 Bit)		0255	00FF	0100
3) Tilt-	0 300°	1,5 s	0255	00FF	0100
coarse			0.055	00 55	0.400
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)		0255	00FF	0100
5) Color	Colors adjustable via RGB Color 01 - Red 1)		07	0007	02,5
(fixed)	Color 01 - Red Color 02 - Amber Color 02 - Amber Color 03 - Amber Color 03 - Amber Color 03 - Amber Color 04 - Red Color 05 -		815 1623	080F 1017	35,5
	Color 03 - Warm Yellow 1)		2431	181F	68,5 912,5
	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
	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 Stop <sup>2)</sup> Rainbow Effect <sup>3)</sup>	slow - fast	129223	81DF	5188
	Rainbow Effect, random colors	slow - fast	224.255	E0FF	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	slow - fast	4879	304F	1931,5
	(random patterns)		00 111		00.40
	Shutter open then down-dimming	slow - fast	80111	506F	3243
	(random patterns)	slow - fast	112143	708F	44 FG
	Up-dimming then down-dimming (random patterns)	Siow - Iast	112143	700	4456
	Strobe effect pause	5s 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
11) Zoom	Spot - Flood	10°- 26°	0255	00FF	0100





### **High Resolution (Extended) - Mode 14 DMX Channels**

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°	3,2 s	0255	00FF	0100
2) PAN-fine	High- Pos High- Pos + 2,6°(16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 300°	1,5 s	0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)		0255	00FF	0100
5) Red- coarse	Color mixing system – Red	0 - 100%	0255	00FF	0100
6) Red-fine	Color mixing system – Red-Low		0255	00FF	0100
7) Green- coarse	Color mixing system – Green	0 - 100%	0255	00FF	0100
8) Green- fine	Color mixing system – Green-Low		0255	00FF	0100
9) Blue- coarse	Color mixing system – Blue	0 - 100%	0255	00FF	0100
10) Blue-fine	Color mixing system – Blue-Low		0255	00FF	0100
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
40) D:	Shutter open	0 4000/	251255	FBFF	99100
12) Dimmer- coarse	Dimmer	0 - 100%	0255	0FF	0100
13) Dimmer- fine	Dimmer - Low		0255	0FF	0100
14) Zoom	Spot - Flood	10°- 26°	0255	00FF	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 **IMPRESSIONS** will then begin from that color and execute the rainbow effect synchronously. Different **IMPRESSIONS** 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>&</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).



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

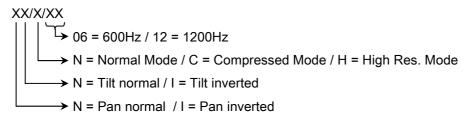
You can lock and unlock the control panel by pressing the menu keys **MODE & ENTER & UP** at the same time.

### 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).
- 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

The **IMPRESSION** 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.





# 6 Technical Specifications

Power supply	
Power consumption	350 VA (Watt)
Power input	~100-240 V AC, 50-60 Hz (auto sensing input)
Fuse protection	Micro-fuse 5x20 mm, T5A
<b>Operational Parameters</b>	
Max. Ambient	45℃ / 113℉ (integrated overheating switch)
Temperature	
Mounting Position	Any (see chapter mounting)
Lighting System - Additive Color mixing	
LED Type	120 x Rebel High power LED's
Lifetime	50,000 hours
42x green LEDs, 36x blue LEDs, 42x red LEDs	

Wavelength optimized for maximum presentable color space

## **Optical System**

High efficiency collimator cluster

Motorized optical lens plate with a range of 10°- 26°

### 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**

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

### Pan / Tilt (8/16 Bit) Pan- movement 660° in minimum 3.2 seconds, with position feedback 300° in minimum 1.5 seconds, with position feedback **Tilt- movement Weights and Dimensions** Width 340 mm / 13.4 inches Depth 145 mm / 5.7 inches height (head vertical) 370 mm / 14.6 inches Weight (net) 8.0 kg / 17.6 lbs.





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