nstruction Manua

impression[®]



from software version: v0.60



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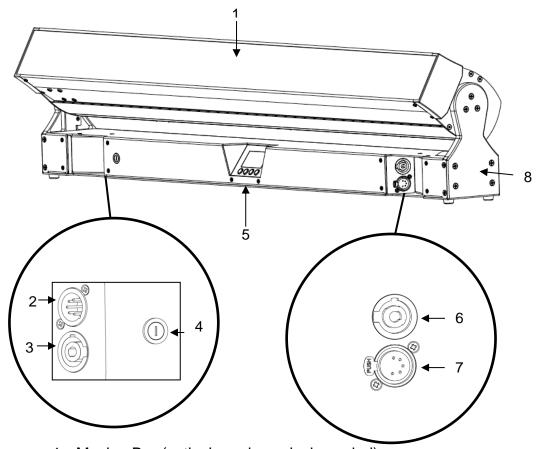


Contents

1		Description of Device						
2	S	Safety Instructions						
3	N	Иou	nting	6				
	3	3.1.1	Operating on the Floor (Upright)	7				
	3	3.1.2	Mounting in hanging or sideways position	7				
	3.2		Securing the Fixture	7				
	3.3		Alignment of the Fixtures	7				
	3.4		Connections	8				
	3	3.4.1	Power Supply	8				
	3	3.4.2	DMX	8				
4	T	he I	Menu Field	9				
5	P	rog	raming Notes	11				
	5.1		Guide to the Set Layers	11				
	5.2		Example of Set Layer Programing	11				
6	0	MX	Chanel Selection (DMX Protocol)	13				
	6.1		Notes on DMX Functions	13				
	6.2		Normal Mode (norm) 34 DMX channels:	14				
	6.3		Compressed Mode (comp) 20 DMX Channels:	15				
	6.4		High Resolution Mode (Hires) 35 DMX Channels:	16				
	6.5		Single Pixel Mode (spix) 88 DMX Channels:	17				
	6.6		Single Pixel High Resolution Mode (SPixH) 89 DMX Channels:	19				
	6.7		Dual Pixel Mode (dpix) 48 DMX Channels:	21				
	6.8		Dual Pixel High Resolution Mode (DPixH) 49 DMX Channels:	22				
	6.9		Special Functions Channel, All Modes	23				
7	A	Acce	ssories	24				
	7.1		Optional diffuser filter:	24				
	7.2		End Omega Bracket:	25				
8	N	∕lain	ntaining and Cleaning	26				
	8.1		Safety precautions	26				
	8.2		Maintenance and Cleaning Interval (rule-of-thumb)	26				
9	Т	ech	nical Specifications	27				
1()	Dii	mensions	28				



1 Description of Device



- 1. Moving Bar (actively and passively cooled)
- 2. DMX Input (5 pin)
- 3. Mains Input (blue powerCON)
- 4. Micro-fuse 5x20mm, T5A
- 5. LCD Display / Menu (data entry)
- 6. Mains Output (white powerCON)
- 7. DMX Output (5 pin)
- 8. Base with rubber feet and Camlock mounting system



2 Safety Instructions



The **IMPRESSION X4 Bar 20** 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.



Never look directly into the beam of light or into one of the LEDs. 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!



WARNING:

<u>Never</u> let optical parts come in contact with alcohol, solvents or similar cleaners.

- 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. The fixture doesn't contain any user serviceable parts. Opening the fixture will void all warranties.
- 5. 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.
- To ensure safe operation, follow also the Installation guide described in the chapter below. Operating the IMPRESSION X4 Bar 20 without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident and must be avoided.
- 7. 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.
- 8. Use only original GLP spare parts. Any structural modification of the system will terminate all warranty claims.

from software version: v0.60

9. Please keep this instruction manual for future reference.





Important Safety Information

The **IMPRESSION X4 Bar 20** fixture 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.

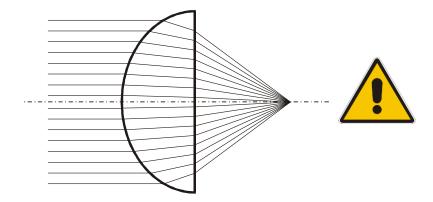
If the rays from a strong light source (such as the sun or another lighting fixture) are directed towards the front of any of these fixtures, then internal damage may occur. In a worst case scenario with a high power light source this can happen very quickly, damaging the fixture internally, potentially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

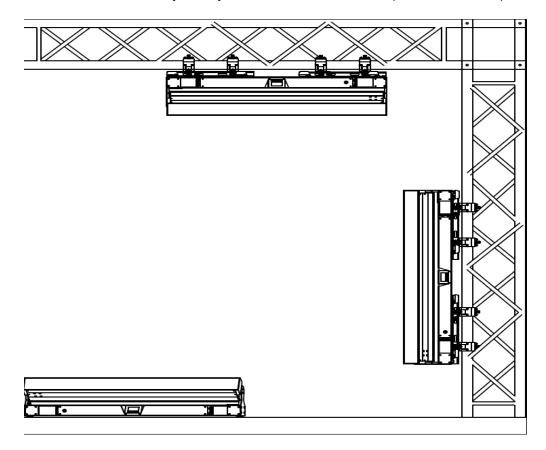


Should you have any questions about the operation of your fixture then please contact your local GLP office, or their authorized distributor, a list of which can be found at www.glp.de.



3 Mounting

The **IMPRESSION X4 Bar 20** 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.).

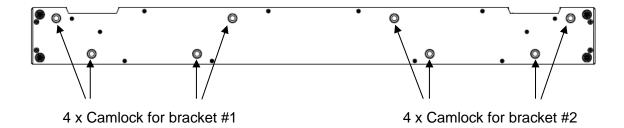




Pay attention to the regulations of BGV C1 (former VBG 70) and DIN VDE 0711-217.

The installation shall be done by qualified staff only.

For the various mounting positions of the **IMPRESSION X4 Bar 20** (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.





3.1.1 Operating on the Floor (Upright)

The **IMPRESSION X4 Bar 20** is fitted with 4 rubber feet. Additional securing is usually not required when placed on a surface that is level and not slippery.

3.1.2 Mounting in hanging or sideways position

To operate the **IMPRESSION X4 Bar 20** in a hanging position please use the two (2) dedicated brackets supplied with your fixture. They are fixed to the base of the fixture with fasteners called Camlock quick-release connectors. Insert the four fasteners of each and turn each 90° to lock them. Do the opposite to release them again.

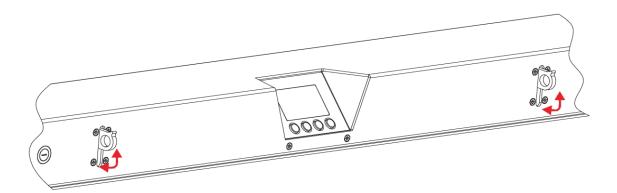
3.2 Securing the Fixture

Regardless of the mounting method of the **IMPRESSION X4 Bar 20** you'll have to use a stipulated safety wire.

Attach the safety wire through the two attachment points shown below and connect it to the primary support structure.

The safety attachment points can be deployed by simply swinging them out from the base.

Pay attention to a safe and proper fastening. The safety cable must comply with BGI 810-3 (EN 60598-2-17 Section 17.6.6) and be capable of bearing a static suspended load that is ten times the weight of the fixture and all installed accessories.



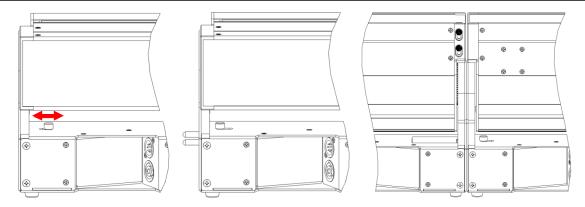
3.3 Alignment of the Fixtures

For precise and easy alignment of multiple fixtures the **IMPRESSION X4 Bar 20** is equipped with alignment pins on the side.

To deploy them, simply slide them to the side and insert the pins in the related holes of the next fixture.

Push the knob down to slide the pins in again after every usage to avoid any damage or injuries that could be caused by them.





3.4 Connections

3.4.1 Power Supply

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

Connected load 450 VA (W) <=> T5A (micro-fuse 5x20mm)

Please see printing on the case for the right electronic supply!

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

NEUTRIK® powerCON

The **IMPRESSION X4 Bar 20** is fitted with NEUTRIK® powerCON locking 3 conductor AC connectors.

The grey connector must be used to draw AC mains power from the fixtures` throughput sockets and the blue connectors must be used to supply power at the fixtures` power input socket.



Picture: Courtesy of NEUTRIK® AG

The total number of fixtures in one interconnected chain depends on your local AC mains voltage but you must never connect more than a total load of 20A to stay within the limits of the connector. The total load includes all connected fixtures including the first one in the chain.

Note: The maximum allowed total load is $\underline{20A}$ including the first fixture in \underline{one} interconnected daisy chain.

3.4.2 DMX

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

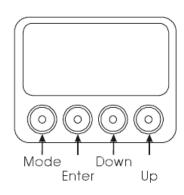
Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+] / Pin 4&5 N.C.

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

4 The Menu Field

You'll find the control board on the side part of the arm. It allows you to make all necessary adjustments of the **IMPRESSION X4 Bar**.

With the Mode-key you get into the main menu. Afterwards you can Navigate through the menu with the Up/Down-keys. Push the Enter-key to get in the next menu level or to confirm your settings. Make them and set functions ON/OFF with the Up/Down-keys. Confirm and save it with the Enter-key (the



display shows OK). Push the Mode-key to cancel the entry and go back to the main menu.

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

← MODE - ENTER →

Level 1	Level 2	Level 3
DMX Start Address 001		
Special	Set dimming mode	ESOFT
		LIN
		SOFT
	DMX hold	On / Off
	Silent mode	On / Off
	X4 compatibility	On / Off
	Test mode	On / Off
	Set PWM frequency	1200
		600
	Tilt reset	On / Off
	Tilt current	On / Off
	Tilt slow	On / Off
	Default	ок
	Temperature head	
	Temperature base	
	Boot count	
	Fixture hours	
	Adjust	Key Code
Set DMX Mode	NORM	
	SPIX	

Function
Set the DMX start address
Set the dimming mode to extra-soft
Set the dimming mode to linear
Set the dimming mode to soft
Enable / disable DMX hold when signal not present
Enable / disable Silent mode
Enable / disable X4 compatibility mode
Enable / disable test program
Set PWM frequency to 1200Hz
Set PWM frequency to 600Hz
Enable / disable Tilt movement for reset *
Enable / disable Tilt motor movement *
Enable / disable slow Tilt speed *
Reset all setting to default
Read out the current temperature of the head in °C
Read out the current temperature of the base in °C
Reset counter
Lifetime counter
Internal adjustments for trained personnel only
Set DMX mode to Normal
Set DMX mode to Single Pixel



	DPIXH
	SPIXH
	DPIX
	HIRES
	COMP
Position feedback	On / Off
Reverse tilt	On / Off
Reverse pixel	On / Off
Reverse zoom	On / Off
Display flip	On / Off
Reset	ок

Set DMX mode to Dual Pixel High Resolution
Set DMX mode to Single Pixel High Resolution
Set DMX mode to Dual Pixel
Set DMX mode to High Resolution
Set DMX mode to Compressed
Enable / disable position feedback function
Enable / disable inverted Tilt movement
Enable / disable inverted pixel count
Enable / disable inverted zoom movement
Enable / disable Display orientation
RESET and new calibration for all functions

^{*} Requires Tilt Firmware V.20 or later. For further information please contact your local GLP dealer or GLP support center.



5 Programing Notes

The **IMPRESSION X4 Bar's** unique layer effect system allows for a wide array of dynamic pattern effects using a minimum of DMX Channels. The example below demonstrates how to program Set Layers in **Normal Mode** to show how the layer system works.

5.1 Guide to the Set Layers

A "Set Layer" is a group of control parameters such as color, intensity, and pattern. A lower layer is revealed when a pattern is applied to the layer above it. Applying a pattern to layer 1 reveals layer 2. Applying a pattern to layer 2 reveals layer 3. In other words, Set Layer 1 is on top and has the highest priority. Set Layer 2 is in the middle and has priority over Set Layer 3. Set Layer 3 is on the bottom and has the lowest priority.

Set Layer 1 and Set Layer 2 provide control of Color Wheel, Red, Green, Blue, White, Intensity, Pattern Select, and Pattern Movement. Set Layer 3 provides control of Color Wheel, Red, Green, Blue, White, and Intensity.

The Shutter and Master Intensity channels control all three Set Layers. Crossfade allows for fade instead of snap in Set Layer Movement Effects. The Star Effect randomly strobes all pixels.

Pixel Select 1-8, Pixel Select 9-16, Pixel Select 17-20 are for custom patterns. They apply only to Set Layer 1 when Pattern Select is at DMX value 255.

5.2 Example of Set Layer Programing

Example notes:

- Fixture libraries from different console manufacturers vary on how channels are
 patched to attributes. Some console libraries require that the fixture be a multi-part
 fixture. Please check with the console manufacture or console fixture library editor
 to verify the correct channel patch and layout.
- The channel numbers in parentheses apply to the Normal Mode DMX chart. All values are in 8-bit DMX.
- In this example, Set Layer 1 is red, Set Layer 2 is green, and Set Layer 3 is blue.

For an example of Set Layer programming, proceed as follows:

- 1. Patch the fixture to a Normal Mode library and verify that the fixture is set to Normal Mode. Select the fixture.
- 2. Choose the Shutter Channel (11) and take to value 255.
- 3. Choose the Master Intensity Channel (12) and take to value 255.
- 4. Choose Set 1 Red (6) and take to value 255.
- 5. Choose Set 1 Intensity (10) and take to value 255. All the pixels should be red.
- 6. Choose Set 1 Pattern Select (28) and take to value 8. This pattern reveals Set Layer 2 on Pixels 6-20. Pixels 1-5 should be red and pixels 6-20 should be blacked out:



from software version: v0.60

7. Choose Set 2 Green (16) and take to value 255.



8. Choose Set 2 Intensity (19) and take to value 255. Pixels 1-5 should be red and pixels 6-20 should now be green:



9. Choose Set 2 Pattern Select (30) and take to value 13. This pattern reveals Set Layer 3 on Pixels 11-20. Pixels 1-5 should be red, pixels 6-10 should be green, and pixels 11-20 should be blacked out:



Note: The value on Set 2 Pattern Select activates pixels 1-10, but pixels 1-5 remain red because Set Layer 1 is on top and has precedence over Set Layer 2. If you take Set 1 Pattern Select (28) to value 0, no pattern is applied to the top layer. Set Layers 2 and 3 will be hidden and all pixels will be red.

- 10. Choose Set 3 Blue (23) and take to value 255.
- 11. Choose Set 3 Intensity (25) and take to value 255. Pixels 1-5 should be red, pixels 6-10 should be green, and pixels 11-20 should be blue:



- 12. Choose Set 1 Pattern Movement (29) and take to value 170. The red pixels at 1-5 chase from left to right, leaving static green in pixels 1-10, and static blue in pixels 11-20.
- 13. Choose Set 2 Pattern Movement (31) and take to value 190. The green pixels chase from right to left, the red pixels chase left to right, and the blue pixels remain static in the background.
- 14. Choose Crossfade (26) to affect the fading from color to color within the Set Layers.
- 15. Choose Star Effect (27) to strobe each individual pixel randomly.



6 DMX Chanel Selection (DMX Protocol)

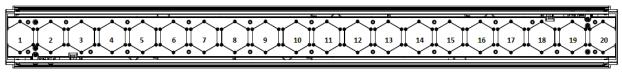
Seven DMX modes are available to suit different applications and preferences:

- Normal Mode (34 Channels): Most common mode with all basic functions. See page 14.
- Compressed Mode (20 Channels): Limited channel mode. Channels are sorted to match the Impression X4 normal mode. See page 15.
- High Resolution Mode (35 Channels): Same as Normal Mode but with 16-bit master dimming. See page 16.
- Single Pixel Mode (88 Channels): Individual control of the RGBW values for each pixel, which allows for pixel mapping. See page 17.
- **Single Pixel High Resolution Mode (89 Channels):** Same as the Single Pixel Mode but with 16-bit master dimming. See page 19.
- **Dual Pixel Mode (48 Channels):** Similar to Single Pixel Mode but with 2 pixel combined as one to reduce the channel count. See page 21.
- Dual Pixel High Resolution Mode (49 Channels): Same as the Dual Pixel Mode but with 16-bit master dimming. See page 22.

6.1 Notes on DMX Functions

- ¹⁾ Indicates start colors for the rainbow effect. If you select one of these colors before activating the rainbow effect, all **IMPRESSION X4 Bars** will start from that color and execute the rainbow effect synchronously. **IMPRESSION X4 Bars** with other indicated start colors will also execute the rainbow effect synchronously. If you select a color that is not defined as a rainbow effect start color, the rainbow effect starts with red.
- ²⁾ Pauses rainbow effect. After resuming, the effect continues from the current color.
- ³⁾ Starts rainbow effect. The effect runs synchronously if started from one of the defined start colors. See note 1, above.
- ⁴⁾ Set 2 values are visible only when a pattern is applied to Set 1. Set 3 values are visible only when patterns are applied to Sets 1 and 2.

Pixels are numbered 1-20 from left to right as shown below. Note: The head is tipped forward (DMX value = 0), the display is in front, and the input sockets are on the left.



Power / DMX In Display Power Out / DMX Out



6.2 Normal Mode (norm) 34 DMX channels:

Cha	ınnel		Function	Time and Value	DMX	
1	Tilt - High		Tilt coarse	0° - 210°	0255	
2	Tilt - Low		Tilt fine		0255	
3	Zoom		Wide (flood) - narrow (spot)	50° - 7°	0255	
			No CTO		07	
4	СТО		Continuous color temperature correction	Applies to ALL colors	8255	
	C		Colors adjustable via RGB		07	
			Color 01 - Red 1)		815	
			Color 02 - Amber 1)		1623	
			Color 03 - Warm Yellow 1)		2431	
			Color 04 - Yellow 1)		3239	
			Color 05 - Green 1)		4047	
			Color 06 - Turquoise 1)		4855	
			Color 07 - Cyan 1)		5663	
			Color 08 - Blue 1)		6471	
5	Set 1 Color (fixe	ed)	Color 09 - Lavender 1)		7279	
	,	,	Color 10 - Malve 1)		8087	
			Color 11 - Magenta 1)		8895	
			Color 12 - Pink ¹⁾		96103	
			White - CTO	3200K	104111	
			White	5600K	112119	
			White - CTB	7200K	120127	
			Rainbow Effect Stop 2)	. = • • • •	128 t 129223	
			Rainbow Effect ³⁾	slow - fast		
			Random colors	slow - fast		
6		Red	Color mixing system - Red	0 - 100%	0255	
7		Green	Color mixing system - Green	0 - 100%	0255	
8	Set 1	Blue	Color mixing system - Blue	0 - 100%	0255	
9		White	Color mixing system - White	0 - 100%	0255	
10	Intensity		Intensity	0 - 100%	0255	
			Shutter closed		015	
	Shutter		Shutter pulse random	slow - fast	1647	
			Fade on, snap off (random patterns)	slow - fast	4879	
			Snap on, fade off (random patterns)	slow - fast	80111	
11			Fade on, fade off (random patterns)	slow - fast	112143	
			Strobe random	5s - 0.1s	144199	
			Strobe effect slow - fast	1 Hz - 10 Hz	200239	
			Shutter open		240255	
12	Intensity		Intensity	0 - 100%	0255	
	Special		See special functions on page 23.	-	-	
14		Color	Values see Channel 5	-	-	
15		Red	Color mixing system - Red	0 - 100%	0255	
16	Set 2 ⁴⁾	Green	Color mixing system - Green	0 - 100%	0255	
17	Set 2 "	Blue	Color mixing system - Blue	0 - 100%	0255	
18		White	Color mixing system - White	0 - 100%	0255	
19		Intensity	Intensity	0 - 100%	0255	
20		Color	Values see Channel 5	-	-	
21		Red	Color mixing system - Red	0 - 100%	0255	
22	Set 3 ⁴⁾	Green	Color mixing system - Green	0 - 100%	0255	
23	Jet J	Blue	Color mixing system - Blue	0 - 100%	0255	
24		White	Color mixing system - White	0 - 100%	0255	
25		Intensity	Intensity	0 - 100%	0255	
26	Crossfade		02 seconds transition time		0255	
27	Star Effect		Random internal shutter effect	slow – fast	0255	
28	Set 1	Pattern Select			0255	
29	- \Δ Γ 1	Pattern Movement			0255	
30	Set 2 4)	Pattern Select			0255	
31	JEL 2 '	Pattern Movement			0255	
32	Pixel Select 1 -	8			0255	
33	Pixel Select 9 -	16			0255	
34	Pixel Select 17	- 20			0255	



6.3 Compressed Mode (comp) 20 DMX Channels:

Cha			Function	Time and Value	DMX
1	None		reserved		-
2	None		reserved		-
3	Tilt - High		Tilt coarse	0° - 210°	0255
4	Tilt - Low		Tilt fine		0255
			Colors adjustable via RGB		07
			Color 01 - Red 1)		815
			Color 02 - Amber 1)		1623
			Color 03 - Warm Yellow 1)		2431
			Color 04 - Yellow 1)		3239
			Color 05 - Green 1)		4047
			Color 06 - Turquoise 1)		4855
			Color 07 - Cyan 1)		5663
			Color 08 - Blue 1)		6471
5	Set 1 Color (fixe	ed)	Color 09 - Lavender 1)		7279
			Color 10 - Malve 1)		8087
			Color 11 - Magenta 1)		8895
			Color 12 - Pink 1)		96103
		Color 12 - Pink ¹⁾ White - CTO		3200K	104111
	\ \ 		White	5600K	112119
			White - CTB	7200K	120127
			Rainbow Effect Stop 2)		128
			Rainbow Effect 3)	slow - fast	129223
			Random colors	slow - fast	224255
6		Red	Color mixing system - Red	0 - 100%	0255
7	0-14	Green	Color mixing system - Green	0 - 100%	0255
8	Set 1	Blue	Color mixing system - Blue	0 - 100%	0255
9		White	Color mixing system - White	0 - 100%	0255
			Shutter closed		015
			Shutter pulse random	slow - fast	1647
			Fade on, snap off (random patterns)	slow - fast	4879
40	Obsertion		Snap on, fade off (random patterns)	slow - fast	80111
10	Shutter		Fade on, fade off (random patterns)	slow - fast	112143
			Strobe random	5s - 0.1s	144199
			Strobe effect slow - fast	1 Hz - 10 Hz	200239
			Shutter open		240255
11	Intensity		Intensity	0 - 100%	0255
40	CTO		No CTO		07
12	СТО		Continuous color temperature correction	Applies to ALL colors	8255
13	Special		See special functions on page 23.	-	-
14	Crossfade		02 seconds transition time		0255
15	Set 1 Pattern Movement				0255
16	Zoom		Wide (flood) - narrow (spot)	50° - 7°	0255
17	Set 1 Pattern		· · · ·		0255
18		3			0255
19					0255
20					0255
18 19	7 Set 1 Pattern 8 Pixel Select 1- 8 9 Pixel Select 9 - 16				0



6.4 High Resolution Mode (Hires) 35 DMX Channels:

Cha	Channel		Function	Time and Value	DMX
1	Tilt - High		Tilt coarse	0° - 210°	0255
2	Tilt - Low		Tilt fine		0255
3	Zoom		Wide (flood) - narrow (spot)	50° - 7°	0255
4	1 (- 1 ()		No CTO		07
•			Continuous color temperature correction	Applies to ALL colors	8255
			Colors adjustable via RGB		07
			Color 01 - Red 1)		815
			Color 02 - Amber 1)		1623
			Color 03 - Warm Yellow 1)		2431
			Color 04 - Yellow 1)		3239
			Color 05 - Green 1)		4047
			Color 06 - Turquoise 1)		4855
			Color 07 - Cyan 1)		5663
			Color 08 - Blue 1)		6471
5	Set 1 Color (fixe	ed)	Color 09 - Lavender 1)		7279
			Color 10 - Malve 1)		8087
			Color 11 - Magenta 1)		8895
			Color 12 - Pink 1)		96103
			White - CTO	3200K	104111
			White	5600K	112119
			White - CTB	7200K	120127
			Rainbow Effect Stop ²⁾		128
			Rainbow Effect 3)	slow - fast	129223
		D 1	Random colors	slow - fast	224255
6		Red	Color mixing system - Red	0 - 100%	0255
7	C-4.4	Green	Color mixing system - Green	0 - 100%	0255
8	Set 1	Blue	Color mixing system - Blue	0 - 100%	0255
9 10		White	Color mixing system - White	0 - 100%	0255
10	Intensity		Intensity Shutter closed	0 - 100%	0255 015
			Shutter pulse random	slow – fast	1647
			Fade on, snap off (random patterns)	slow – fast	4879
	Shutter		Snap on, fade off (random patterns)	slow – fast	80111
11			Fade on, fade off (random patterns)	slow – fast	112143
			Strobe random	5s - 0.1s	144199
			Strobe effect slow - fast	1 Hz - 10 Hz	200239
			Shutter open	1112 10112	240255
12	Intensity - High		Intensity - coarse	0 - 100%	0255
	Intensity - Low		Intensity - fine	-	0255
	Special Special		See special functions on page 23.	-	-
15	P =	Color	Values see Channel 5	-	-
16		Red	Color mixing system - Red	0 - 100%	0255
17	0 : 0 1)	Green	Color mixing system - Green	0 - 100%	0255
18	Set 2 4)	Blue	Color mixing system - Blue	0 - 100%	0255
19		White	Color mixing system - White	0 - 100%	0255
20		Intensity	Intensity	0 - 100%	0255
21		Color	Values see Channel 5	-	-
22		Red	Color mixing system - Red	0 - 100%	0255
23	Set 3 ⁴⁾	Green	Color mixing system - Green	0 - 100%	0255
24	3et 3 '	Blue	Color mixing system - Blue	0 - 100%	0255
25		White	Color mixing system - White	0 - 100%	0255
26		Intensity	Intensity	0 - 100%	0255
27	Crossfade		02 seconds transition time		0255
28	•		Random internal shutter effect	slow – fast	0255
29	Set 1	Pattern Select			0255
30		Pattern Movement			0255
31	Set 2 4)	Pattern Select			0255
32		Pattern Movement			0255
33	Pixel Select 1 -				0255
34	Pixel Select 9 -				0255
35	Pixel Select 17	- 20			0255



6.5 Single Pixel Mode (spix) 88 DMX Channels:

Cha	nnel		Function	Time and Value	DMX
1	Tilt - High		Tilt coarse	0° - 210°	0255
2	Tilt - Low		Tilt fine		0255
			Shutter closed		015
			Shutter pulse random	slow – fast	1647
			Fade on, snap off (random patterns)	slow – fast	4879
			Snap on, fade off (random patterns)	slow – fast	80111
3	Shutter		Fade on, fade off (random patterns)	slow – fast	112143
			Strobe random	5s - 0.1s	
					144199
	Intensity		Strobe effect slow - fast	1 Hz - 10 Hz	200239
	1.4		Shutter open	0 4000/	240255
4	intensity		Intensity	0 - 100%	0255
5	СТО		No CTO		07
			Continuous color temperature correction	Applies to ALL colors	8255
6	Special		See special functions on page 23.	-	<u> </u>
7	Crossfade		02 seconds transition time		0255
8	Zoom	1	Wide (flood) - narrow (spot)	50° - 7°	0255
9		Red	Color mixing system - Red	0 - 100%	0255
10	Pixel 1	Green	Color mixing system - Green	0 - 100%	0255
11	. 1701 1	Blue	Color mixing system - Blue	0 - 100%	0255
12	-	White	Color mixing system - White	0 - 100%	0255
13		Red	Color mixing system - Red	0 - 100%	0255
14	Bivol 2	Green	Color mixing system - Green	0 - 100%	0255
15	Pixel 2	Blue	Color mixing system - Blue	0 - 100%	0255
16		White	Color mixing system - White	0 - 100%	0255
17		Red	Color mixing system - Red	0 - 100%	0255
18	D : 10	Green	Color mixing system - Green	0 - 100%	0255
19	Pixel 3	Blue	Color mixing system - Blue	0 - 100%	0255
20		White	Color mixing system - White	0 - 100%	0255
21	Pixel 4	Red	Color mixing system - Red	0 - 100%	0255
22		Green	Color mixing system - Green	0 - 100%	0255
23		Blue	Color mixing system - Blue	0 - 100%	0255
24		White	Color mixing system - White	0 - 100%	0255
25		Red	Color mixing system - Red	0 - 100%	0255
26		Green	Color mixing system - Green	0 - 100%	0255
27	Pixel 5	Blue	Color mixing system - Blue	0 - 100%	0255
28		White	Color mixing system - White	0 - 100%	0255
29		Red	Color mixing system - Write Color mixing system - Red	0 - 100%	0255
30		Green	Color mixing system - Red Color mixing system - Green	0 - 100%	0255
31	Pixel 6	Blue		0 - 100%	0255
32		White	Color mixing system - Blue Color mixing system - White	0 - 100%	
					0255
33		Red	Color mixing system - Red	0 - 100%	0255
34	Pixel 7	Green	Color mixing system - Green	0 - 100%	0255
35		Blue	Color mixing system - Blue	0 - 100%	0255
36		White	Color mixing system - White	0 - 100%	0255
37		Red	Color mixing system - Red	0 - 100%	0255
38	Pixel 8	Green	Color mixing system - Green	0 - 100%	0255
39		Blue	Color mixing system - Blue	0 - 100%	0255
40		White	Color mixing system - White	0 - 100%	0255
41		Red	Color mixing system - Red	0 - 100%	0255
42	Pixel 9	Green	Color mixing system - Green	0 - 100%	0255
43		Blue	Color mixing system - Blue	0 - 100%	0255
44		White	Color mixing system - White	0 - 100%	0255
45	<u> </u>	Red	Color mixing system - Red	0 - 100%	0255
46	Pixel 10	Green	Color mixing system - Green	0 - 100%	0255
47	I IVEL IA	Blue	Color mixing system - Blue	0 - 100%	0255
48		White	Color mixing system - White	0 - 100%	0255
49		Red	Color mixing system - Red	0 - 100%	0255
50	Divol 44	Green	Color mixing system - Green	0 - 100%	0255
51	Pixel 11	Blue	Color mixing system - Blue	0 - 100%	0255
52		White	Color mixing system - White	0 - 100%	0255
		ı			



E2		Dod	Color mission assets as Dod	0 1000/	0.055
53		Red	Color mixing system - Red	0 - 100%	0255
54	Pixel 12	Green	Color mixing system - Green	0 - 100%	0255
55		Blue	Color mixing system - Blue	0 - 100%	0255
56		White	Color mixing system - White	0 - 100%	0255
57	Pixel 13	Red	Color mixing system - Red	0 - 100%	0255
58		Green	Color mixing system - Green	0 - 100%	0255
59		Blue	Color mixing system - Blue	0 - 100%	0255
60		White	Color mixing system - White	0 - 100%	0255
61		Red	Color mixing system - Red	0 - 100%	0255
62	Pixel 14	Green	Color mixing system - Green	0 - 100%	0255
63	FIXEL 14	Blue	Color mixing system - Blue	0 - 100%	0255
64		White	Color mixing system - White	0 - 100%	0255
65		Red	Color mixing system - Red	0 - 100%	0255
66	Pixel 15	Green	Color mixing system - Green	0 - 100%	0255
67	FIXEL 13	Blue	Color mixing system - Blue	0 - 100%	0255
68		White	Color mixing system - White	0 - 100%	0255
69		Red	Color mixing system - Red	0 - 100%	0255
70	Divol 16	Green	Color mixing system - Green	0 - 100%	0255
71	Pixel 16	Blue	Color mixing system - Blue	0 - 100%	0255
72		White	Color mixing system - White	0 - 100%	0255
73		Red	Color mixing system - Red	0 - 100%	0255
74	Pixel 17	Green	Color mixing system - Green	0 - 100%	0255
75	Pixei I/	Blue	Color mixing system - Blue	0 - 100%	0255
76		White	Color mixing system - White	0 - 100%	0255
77		Red	Color mixing system - Red	0 - 100%	0255
78	Pixel 18	Green	Color mixing system - Green	0 - 100%	0255
79	Pixel 18	Blue	Color mixing system - Blue	0 - 100%	0255
80		White	Color mixing system - White	0 - 100%	0255
81		Red	Color mixing system - Red	0 - 100%	0255
82	Di1 40	Green	Color mixing system - Green	0 - 100%	0255
83	Pixel 19	Blue	Color mixing system - Blue	0 - 100%	0255
84		White	Color mixing system - White	0 - 100%	0255
85		Red	Color mixing system - Red	0 - 100%	0255
86	D: 100	Green	Color mixing system - Green	0 - 100%	0255
87	Pixel 20	Blue	Color mixing system - Blue	0 - 100%	0255
88		White	Color mixing system - White	0 - 100%	0255
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6.6 Single Pixel High Resolution Mode (SPixH) 89 DMX Channels:

Cha	ınnel		Function	Time and Value	DMX
1	Tilt - High		Tilt coarse	0° - 210°	0255
2	Tilt - Low		Tilt fine		0255
			Shutter closed		015
			Shutter pulse random	slow - fast	1647
			Fade on, snap off (random patterns)	slow - fast	4879
3	Shutter		Snap on, fade off (random patterns)	slow - fast	80111
3			Fade on, fade off (random patterns)	slow - fast	112143
			Strobe random	5s - 0.1s	144199
	Intensity - High		Strobe effect slow - fast	1 Hz - 10 Hz	200239
	Intensity - High		Shutter open		240255
4	Intensity - High		Intensity - coarse	0 - 100%	0255
5	Intensity - Low		Intensity - fine	-	0255
6	сто		No CTO		07
			Continuous color temperature correction	Applies to ALL colors	8255
7	Special		See special functions on page 23.	-	-
8	Crossfade		02 seconds transition time		0255
9	Zoom	T	Wide (flood) - narrow (spot)	50° - 7°	0255
10		Red	Color mixing system - Red	0 - 100%	0255
11	Pixel 1	Green	Color mixing system - Green	0 - 100%	0255
12		Blue	Color mixing system - Blue	0 - 100%	0255
13		White	Color mixing system - White	0 - 100%	0255
14		Red Green	Color mixing system - Red	0 - 100% 0 - 100%	0255 0255
15 16	Pixel 2	Blue	Color mixing system - Green		
17		White	Color mixing system - Blue	0 - 100% 0 - 100%	0255 0255
18		Red	Color mixing system - White Color mixing system - Red	0 - 100%	0255
19		Green	Color mixing system - Red Color mixing system - Green	0 - 100%	0255
20		Blue	Color mixing system - Blue	0 - 100%	0255
21		White	Color mixing system - White	0 - 100%	0255
22		Red	Color mixing system - Write Color mixing system - Red	0 - 100%	0255
23	Pixel 4	Green	Color mixing system - Green	0 - 100%	0255
24		Blue	Color mixing system - Blue	0 - 100%	0255
25		White	Color mixing system - White	0 - 100%	0255
26		Red	Color mixing system - Red	0 - 100%	0255
27	-	Green	Color mixing system - Green	0 - 100%	0255
28	Pixel 5	Blue	Color mixing system - Blue	0 - 100%	0255
29		White	Color mixing system - White	0 - 100%	0255
30		Red	Color mixing system - Red	0 - 100%	0255
31	Pixel 6	Green	Color mixing system - Green	0 - 100%	0255
32	i ixei o	Blue	Color mixing system - Blue	0 - 100%	0255
33		White	Color mixing system - White	0 - 100%	0255
34		Red	Color mixing system - Red	0 - 100%	0255
35	Pixel 7	Green	Color mixing system - Green	0 - 100%	0255
36	-	Blue	Color mixing system - Blue	0 - 100%	0255
37		White	Color mixing system - White	0 - 100%	0255
38		Red	Color mixing system - Red	0 - 100%	0255
39	Pixel 8	Green	Color mixing system - Green	0 - 100%	0255
40 41		Blue White	Color mixing system - Blue Color mixing system - White	0 - 100% 0 - 100%	0255 0255
42		Red Green	Color mixing system - Red Color mixing system - Green	0 - 100% 0 - 100%	0255 0255
44	Pixel 9	Blue	Color mixing system - Green Color mixing system - Blue	0 - 100%	0255
45		White	Color mixing system - Bide Color mixing system - White	0 - 100%	0255
46		Red	Color mixing system - Red	0 - 100%	0255
47		Green	Color mixing system - Red Color mixing system - Green	0 - 100%	0255
48	Pixel 10	Blue	Color mixing system - Green Color mixing system - Blue	0 - 100%	0255
49		White	Color mixing system - White	0 - 100%	0255
50		Red	Color mixing system - Red	0 - 100%	0255
51		Green	Color mixing system - Red Color mixing system - Green	0 - 100%	0255
52	Pixel 11	Blue	Color mixing system - Blue	0 - 100%	0255
53		White	Color mixing system - White	0 - 100%	0255
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54		Red	Color mixing system - Red	0 - 100%	0255
55	Pixel 12	Green	Color mixing system - Green	0 - 100%	0255
56		Blue	Color mixing system - Blue	0 - 100%	0255
57		White	Color mixing system - White	0 - 100%	0255
58		Red	Color mixing system - Red	0 - 100%	0255
59	Pixel 13	Green	Color mixing system - Green	0 - 100%	0255
60		Blue	Color mixing system - Blue	0 - 100%	0255
61		White	Color mixing system - White	0 - 100%	0255
62		Red	Color mixing system - Red	0 - 100%	0255
63	Pixel 14	Green	Color mixing system - Green	0 - 100%	0255
64	FIXEL 14	Blue	Color mixing system - Blue	0 - 100%	0255
65		White	Color mixing system - White	0 - 100%	0255
66		Red	Color mixing system - Red	0 - 100%	0255
67	Pixel 15	Green	Color mixing system - Green	0 - 100%	0255
68	Fixel 15	Blue	Color mixing system - Blue	0 - 100%	0255
69		White	Color mixing system - White	0 - 100%	0255
70		Red	Color mixing system - Red	0 - 100%	0255
71	Divol 16	Green	Color mixing system - Green	0 - 100%	0255
72	Pixel 16	Blue	Color mixing system - Blue	0 - 100%	0255
73		White	Color mixing system - White	0 - 100%	0255
74		Red	Color mixing system - Red	0 - 100%	0255
75	Pixel 17	Green	Color mixing system - Green	0 - 100%	0255
76	Pixei 17	Blue	Color mixing system - Blue	0 - 100%	0255
77		White	Color mixing system - White	0 - 100%	0255
78		Red	Color mixing system - Red	0 - 100%	0255
79	Pixel 18	Green	Color mixing system - Green	0 - 100%	0255
80	FIXEL 10	Blue	Color mixing system - Blue	0 - 100%	0255
81		White	Color mixing system - White	0 - 100%	0255
82		Red	Color mixing system - Red	0 - 100%	0255
83	Pixel 19	Green	Color mixing system - Green	0 - 100%	0255
84	Fixel 19	Blue	Color mixing system - Blue	0 - 100%	0255
85		White	Color mixing system - White	0 - 100%	0255
86		Red	Color mixing system - Red	0 - 100%	0255
87	Divol 20	Green	Color mixing system - Green	0 - 100%	0255
88	Pixel 20	Blue	Color mixing system - Blue	0 - 100%	0255
89		White	Color mixing system - White	0 - 100%	0255
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6.7 Dual Pixel Mode (dpix) 48 DMX Channels:

Cha	innel		Function	Time and Value	DMX
1			Tilt coarse	0° - 210°	0255
2	Tilt - Low		Tilt fine		0255
			Shutter closed		015
			Shutter pulse random	slow – fast	1647
			Fade on, snap off (random patterns)	slow - fast	4879
_			Snap on, fade off (random patterns)	slow – fast	80111
3	Shutter		Fade on, fade off (random patterns)	slow - fast	112143
			Strobe random	5s - 0.1s	144199
			Strobe effect slow - fast	1 Hz - 10 Hz	200239
			Shutter open		240255
4	Intensity		Intensity	0 - 100%	0255
	•		No CTO	- 100/1	07
5	СТО		Continuous color temperature correction	Applies to ALL colors	8255
6	Special		See special functions on page 23.	-	-
7	Crossfade		02 seconds transition time		0255
8	Zoom		Wide (flood) - narrow (spot)	50° - 7°	0255
9		Red	Color mixing system - Red	0 - 100%	0255
10	D: 1405	Green	Color mixing system - Green	0 - 100%	0255
11	Pixel 1&2	Blue	Color mixing system - Blue	0 - 100%	0255
12		White	Color mixing system - White	0 - 100%	0255
13		Red	Color mixing system - Red	0 - 100%	0255
14		Green	Color mixing system - Green	0 - 100%	0255
15	Pixel 3&4	Blue	Color mixing system - Blue	0 - 100%	0255
16		White	Color mixing system - White	0 - 100%	0255
17		Red	Color mixing system - Red	0 - 100%	0255
18		Green	Color mixing system - Green	0 - 100%	0255
19	Pixel 5&6	Blue	Color mixing system - Blue	0 - 100%	0255
20		White	Color mixing system - White	0 - 100%	0255
21		Red	Color mixing system - Red	0 - 100%	0255
22	D: 1-00	Green	Color mixing system - Green	0 - 100%	0255
23	Pixel 7&8	Blue	Color mixing system - Blue	0 - 100%	0255
24		White	Color mixing system - White	0 - 100%	0255
25		Red	Color mixing system - Red	0 - 100%	0255
26	D' 10040	Green	Color mixing system - Green	0 - 100%	0255
27	Pixel 9&10	Blue	Color mixing system - Blue	0 - 100%	0255
28		White	Color mixing system - White	0 - 100%	0255
29		Red	Color mixing system - Red	0 - 100%	0255
30	Divol 14 9 4 2	Green	Color mixing system - Green	0 - 100%	0255
31	Pixel 11&12	Blue	Color mixing system - Blue	0 - 100%	0255
32		White	Color mixing system - White	0 - 100%	0255
33		Red	Color mixing system - Red	0 - 100%	0255
34	Divol 12914	Green	Color mixing system - Green	0 - 100%	0255
35	Pixel 13&14	Blue	Color mixing system - Blue	0 - 100%	0255
36		White	Color mixing system - White	0 - 100%	0255
37	Pixel 15&16	Red	Color mixing system - Red	0 - 100%	0255
38		Green	Color mixing system - Green	0 - 100%	0255
39		Blue	Color mixing system - Blue	0 - 100%	0255
40		White	Color mixing system - White	0 - 100%	0255
41	Pixel 17&18	Red	Color mixing system - Red	0 - 100%	0255
42		Green	Color mixing system - Green	0 - 100%	0255
43		Blue	Color mixing system - Blue	0 - 100%	0255
44		White	Color mixing system - White	0 - 100%	0255
45		Red	Color mixing system - Red	0 - 100%	0255
46	Pixel 19&20	Green	Color mixing system - Green	0 - 100%	0255
47	1 1761 13020	Blue	Color mixing system - Blue	0 - 100%	0255
48		White	Color mixing system - White	0 - 100%	0255



6.8 Dual Pixel High Resolution Mode (DPixH) 49 DMX Channels:

Cha	Channel		Function	Time and Value	DMX
1	Tilt - High		Tilt coarse	0° - 210°	0255
2	Tilt - Low		Tilt fine		0255
			Shutter closed		015
			Shutter pulse random	slow - fast	1647
			Fade on, snap off (random patterns)	slow – fast	4879
	.		Snap on, fade off (random patterns)	slow – fast	80111
3	Shutter		Fade on, fade off (random patterns)	slow - fast	112143
			Strobe random	5s - 0.1s	144199
			Strobe effect slow - fast	1 Hz - 10 Hz	200239
			Shutter open		240255
4	Intensity - High		Intensity - coarse	0 - 100%	0255
5			Intensity - fine	-	0255
			No CTO		07
6	СТО		Continuous color temperature correction	Applies to ALL colors	8255
7	Special		See special functions on page 23.	-	-
8	Crossfade		02 seconds transition time		0255
9	Zoom		Wide (flood) - narrow (spot)	50° - 7°	0255
10		Red	Color mixing system - Red	0 - 100%	0255
11		Green	Color mixing system - Green	0 - 100%	0255
12	Pixel 1&2	Blue	Color mixing system - Blue	0 - 100%	0255
13		White	Color mixing system - White	0 - 100%	0255
14		Red	Color mixing system - Red	0 - 100%	0255
15		Green	Color mixing system - Red Color mixing system - Green	0 - 100%	0255
16	Pixel 3&4	Blue	Color mixing system - Blue	0 - 100%	0255
17	-	White	Color mixing system - White	0 - 100%	0255
18		Red			
19	-	Green	Color mixing system - Red	0 - 100% 0 - 100%	0255 0255
20	Pixel 5&6	Blue	Color mixing system - Green		
			Color mixing system - Blue	0 - 100%	0255
21		White	Color mixing system - White	0 - 100%	0255
22		Red	Color mixing system - Red	0 - 100%	0255
23	Pixel 7&8	Green	Color mixing system - Green	0 - 100%	0255
24		Blue	Color mixing system - Blue	0 - 100%	0255
25		White	Color mixing system - White	0 - 100%	0255
26		Red	Color mixing system - Red	0 - 100%	0255
27	Pixel 9&10	Green	Color mixing system - Green	0 - 100%	0255
28		Blue	Color mixing system - Blue	0 - 100%	0255
29		White	Color mixing system - White	0 - 100%	0255
30		Red	Color mixing system - Red	0 - 100%	0255
31	Pixel 11&12	Green	Color mixing system - Green	0 - 100%	0255
32		Blue	Color mixing system - Blue	0 - 100%	0255
33		White	Color mixing system - White	0 - 100%	0255
34		Red	Color mixing system - Red	0 - 100%	0255
35	Pixel 13&14	Green	Color mixing system - Green	0 - 100%	0255
36		Blue	Color mixing system - Blue	0 - 100%	0255
37		White	Color mixing system - White	0 - 100%	0255
38	Pixel 15&16	Red	Color mixing system - Red	0 - 100%	0255
39		Green	Color mixing system - Green	0 - 100%	0255
40		Blue	Color mixing system - Blue	0 - 100%	0255
41		White	Color mixing system - White	0 - 100%	0255
42	Pixel 17&18	Red	Color mixing system - Red	0 - 100%	0255
43		Green	Color mixing system - Green	0 - 100%	0255
44		Blue	Color mixing system - Blue	0 - 100%	0255
45		White	Color mixing system - White	0 - 100%	0255
46		Red	Color mixing system - Red	0 - 100%	0255
47	Pixel 19&20	Green	Color mixing system - Green	0 - 100%	0255
48		Blue	Color mixing system - Blue	0 - 100%	0255
49		White	Color mixing system - White	0 - 100%	0255



6.9 Special Functions Channel, All Modes

Function	Notes	Saved	DMX
Special functions off	Normal color mixing and priority.	no	03
Reverse color priority	Not available in SPix, DPix, SPixH, or DPixH	no	47
Reverse color mixing	modes.	no	811
	take special functions channel to DMX value 0, then	set and hold fu	unction
value 3 for seconds.		<u> </u>	T
Tilt slow mode off		yes	120123
Tilt slow mode on	Set shutter to 4849 and intensity to 5059	yes	124127
Tilt current off	(1280015104 at high resolution).	yes	128131
Tilt current on	Requires Tilt Firmware V.20 or later.*	yes	132135
Tilt reset off	Troquiles Tile Filmiware V.20 of later.	yes	136139
Tilt reset on		yes	140143
Display Flip off		yes	144147
Display Flip on		yes	148151
DMX Mode DPixH (HiRes)		yes	152155
DMX Mode SPixH (HiRes)		yes	156159
DMX Mode High Resolution		yes	160163
DMX Mode Normal		yes	164167
DMX Mode Compressed		yes	168171
DMX Mode DPix		yes	172175
DMX Mode SPix	Set shutter to 4849 and intensity to 5059	yes	176179
Dimmer Curve ESoft	(1280015104 at high resolution)	yes	180183
Dimmer Curve Soft		yes	184187
Dimmer Curve Lin		yes	188191
X4 Compatibility off		yes	192195
X4 Compatibility on		yes	196199
Silent-Mode off		yes	200203
Silent-Mode on		yes	204207
Position Feedback off		yes	208211
Position Feedback on		yes	212215
DMX holf off		yes	216219
DMX hold on		yes	220223
Tilt inverse off		yes	224227
Tilt inverse on		yes	228231
Pixel inverse off		yes	232235
Pixel inverse on		yes	236239
Zoom inverse off		yes	240243
Zoom inverse on		yes	244247
Fixture default	Set shutter to 4849 and intensity to 5059 (1280015104 at high resolution)	yes	248251
Fixture reset		no	252255

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^{*} For further information please contact your local GLP dealer or GLP support center.



7 Accessories

7.1 Optional diffuser filter:

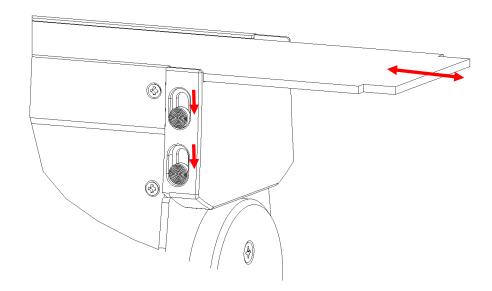
The clear acrylic front cover is exchangeable with different diffusion or frost filters.

A diffusion filter with 3° vertical & 30° horizontal spread is already included with your **impression X4 Bar 20**.

For other filter options please contact your local GLP dealer.

To remove the installed cover pull down the latch shown below and pull the filter out.

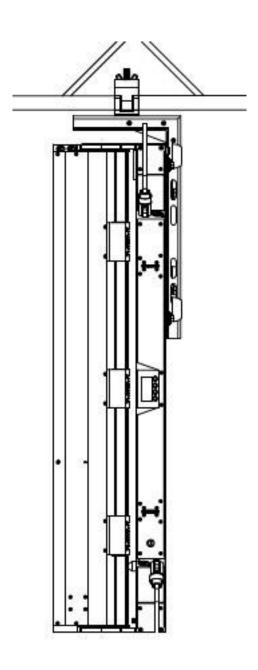
To insert the new filter pull the latch down again and slide in the new filter until fully inserted, then release the latch to secure the new filter.





7.2 End Omega Bracket:

To hang the **impression X4 Bar 20** vertically from one end of the unit instead of the backside, there is an optional End-Omega Bracket available. Contact your local dealer or GLP Office for further details.





8 Maintaining and Cleaning



Under <u>no</u> circumstances should alcohol or solvents be used to clean the lenses!

The

- Never let optical parts come into contact with oil, grease, alcohol or similar solvents.
- Before running the fixture wait until all parts are dry.
- Never touch lenses with bare fingers.

IMPRESSION X4 Bar 20 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 damage can occur. Regular cleaning will ensure maximum light output and reliable operation throughout the fixture's life.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended to clean the lenses.

8.1 Safety precautions

- Disconnect the mains power plug before cleaning or servicing!
- Wait min. 15 minutes after disconnecting power to allow the fixture to cool down.

8.2 Maintenance and Cleaning Interval (rule-of-thumb)

The required cleaning interval varies greatly depending on the operating environment: no fixed guidelines can be given. The guidelines below are a suggested starting point.

- Clean the LED reflector and optical system weekly with a soft brush or lint-free cloth.
- Clean the fan and air channels monthly with a vacuum cleaner or compressed air.



9 Technical Specifications

Power supply			
Power consumption	450 VA (Watt)		
Power Input	Auto sensing 100-240 V AC, 50-60 Hz		
Fuse protection	Micro-fuse 5x20 mm, T5A		
Operational Parameters	Operational Parameters		
Max. Ambient	5° - 45°C (integrated overheating switch)		
Temperature	40°-113°F		
Mounting Position	Any (see relevant chapter in the manual)		
Lighting System - Additi	ve Color mixing		
LED Type	20 x Osram Ostar RGBW multi-chip		
Lifetime	50,000 h		
Wavelength optimized for maximum presentable color space			
Optical System			
Full RGBW / High efficient	Full RGBW / High efficient Collimator cluster		
Exchangeable diffuser filters available (optional).			
Shutter / Dimmer (8/16 Bit)			
Strobe- Effect with variable	Strobe- Effect with variable speed between 1-10 flashes per second, Random- & Pulse-Effects		
Continuous Dimmer 0 - 100%			
Zoom	Zoom		
7 to 50 degree continuous high speed zoom			
Optical Patterns			
Several pre-defined beam patterns with direct access and manipulation.			
Free control of every pixel, color and intensity			
DMX Control			
Standard USITT DMX-512, 5 pin XLR: [+]=Pin 3 / [-]=Pin 2 / [Ground]=Pin 1 / Pin 4&5 N.C.			
The DMX- Addressing starts at the DMX channel [001].			
Tilt (8/16 Bit)			

Tilt- movement	210° in min. 1.5 seconds (Position Feedback)		
Weights and Measures			
Length	1000 mm / 39.4´´		
Width	100 mm / 3.9´´		
Height	240 mm / 9.4"		
Weight (net)	14.5 kg / 32 lbs		
Weight with 2 brackets	16 kg / 35 lbs		



10 Dimensions

