

DMX Channel Index

impression[®]
X4BAR



10

from software version: v0.26



— since 1994 —

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1 Normal Mode (norm) 33 DMX Channels:

Channel	Function	Time and Value	DMX
1 Tilt - High	Tilt coarse	0° - 210°	0..255
2 Tilt - Low	Tilt fine		0..255
3 Zoom	Wide (flood) - narrow (spot)	50° - 7°	0..255
4 CTO	No CTO		0..7
	Continuous color temperature correction	Applicable for ALL colors	8..255
5 Set 1 Color (fixed)	Colors adjustable via RGB		0..7
	Color 01 - Red ¹⁾		8..15
	Color 02 - Amber ¹⁾		16..23
	Color 03 - Warm Yellow ¹⁾		24..31
	Color 04 - Yellow ¹⁾		32..39
	Color 05 - Green ¹⁾		40..47
	Color 06 - Turquoise ¹⁾		48..55
	Color 07 - Cyan ¹⁾		56..63
	Color 08 - Blue ¹⁾		64..71
	Color 09 - Lavender ¹⁾		72..79
	Color 10 - Malve ¹⁾		80..87
	Color 11 - Magenta ¹⁾		88..95
	Color 12 - Pink ¹⁾		96..103
	White - CTO	3200K	104..111
	White	5600K	112..119
	White - CTB	7200K	120..127
Rainbow Effect Stop ²⁾		128	
Rainbow Effect ³⁾	slow - fast	129..223	
Random colors	slow - fast	224..255	
6 Set 1 Red	Color mixing system - Red	0 - 100%	0..255
7 Set 1 Green	Color mixing system - Green	0 - 100%	0..255
8 Set 1 Blue	Color mixing system - Blue	0 - 100%	0..255
9 Set 1 White	Color mixing system - White	0 - 100%	0..255
10 Set 1 Intensity	Intensity	0 - 100%	0..255
11 Shutter	Shutter closed		0..15
	Shutter pulse random	slow – fast	16..47
	Fade on, snap off (random patterns)	slow – fast	48..79
	Snap on, fade off (random patterns)	slow – fast	80..111
	Fade on, fade off (random patterns)	slow – fast	112..143
	Strobe random	5s - 0.1s	144..199

	Strobe effect slow - fast Shutter open	1 Hz - 10 Hz	200..239 240..255
12 Intensity	Intensity	0 - 100%	0..255
13 Special	RESET	> 1 sec	250..255
14 Set 2 Color ⁴⁾	Values see Channel 5	-	-
15 Set 2 Red ⁴⁾	Color mixing system - Red	0 - 100%	0..255
16 Set 2 Green ⁴⁾	Color mixing system - Green	0 - 100%	0..255
17 Set 2 Blue ⁴⁾	Color mixing system - Blue	0 - 100%	0..255
18 Set 2 White ⁴⁾	Color mixing system - White	0 - 100%	0..255
19 Set 2 Intensity ⁴⁾	Intensity	0 - 100%	0..255
20 Set 3 Color ⁴⁾	Values see Channel 5	-	-
21 Set 3 Red ⁴⁾	Color mixing system - Red	0 - 100%	0..255
22 Set 3 Green ⁴⁾	Color mixing system - Green	0 - 100%	0..255
23 Set 3 Blue ⁴⁾	Color mixing system - Blue	0 - 100%	0..255
24 Set 3 White ⁴⁾	Color mixing system - White	0 - 100%	0..255
25 Set 3 Intensity ⁴⁾	Intensity	0 - 100%	0..255
26 Crossfade	0..2 seconds transistion time		0..255
27 Star Effect			0..255
28 Set 1 Pattern Select			0..255
29 Set 1 Pattern Movement			0..255
30 Set 2 Pattern Select			0..255
31 Set 2 Pattern Movement			0..255
32 Pixel Select 1 - 8			0..255
33 Pixel Select 9 - 10			0..255

2 Compressed Mode (*comp*) 20 DMX Channels:

Channel	Function	Time and Value	DMX
1 None	reserved		-
2 None	reserved		-
3 Tilt - High	Tilt coarse	0° - 210°	0..255
4 Tilt - Low	Tilt fine		0..255
5 Set 1 Color (fixed)	Colors adjustable via RGB		0..7
	Color 01 - Red ¹⁾		8..15
	Color 02 - Amber ¹⁾		16..23
	Color 03 - Warm Yellow ¹⁾		24..31
	Color 04 - Yellow ¹⁾		32..39
	Color 05 - Green ¹⁾		40..47
	Color 06 - Turquoise ¹⁾		48..55
	Color 07 - Cyan ¹⁾		56..63
	Color 08 - Blue ¹⁾		64..71
	Color 09 - Lavender ¹⁾		72..79
	Color 10 - Malve ¹⁾		80..87
	Color 11 - Magenta ¹⁾		88..95
	Color 12 - Pink ¹⁾		96..103
	White - CTO	3200K	104..111
	White	5600K	112..119
	White - CTB	7200K	120..127
	Rainbow Effect Stop ²⁾		128
	Rainbow Effect ³⁾	slow - fast	129..223
	Random colors	slow - fast	224..255
6 Set 1 Red	Color mixing system - Red	0 - 100%	0..255
7 Set 1 Green	Color mixing system - Green	0 - 100%	0..255
8 Set 1 Blue	Color mixing system - Blue	0 - 100%	0..255
9 Set 1 White	Color mixing system - White	0 - 100%	0..255
10 Shutter	Shutter closed		0..15
	Shutter pulse random	slow – fast	16..47
	Fade on, snap off (random patterns)	slow – fast	48..79
	Snap on, fade off (random patterns)	slow – fast	80..111
	Fade on, fade off (random patterns)	slow – fast	112..143
	Strobe random	5s - 0.1s	144..199
	Strobe effect slow - fast	1 Hz - 10 Hz	200..239
	Shutter open		240..255
11 Intensity	Intensity	0 - 100%	0..255

12 CTO	No CTO Continuous color temperature correction	Applicable for ALL colors	0..7 8..255
13 Special	RESET	> 1 sec	250..255
14 Crossfade	0..2 seconds transistion time		0..255
15 Set 1 Pattern Movement			0..255
16 Zoom	Wide (flood) - narrow (spot)	50° - 7°	0..255
17 Set 1 Pattern Select			0..255
18 Pixel Select 1 - 8			0..255
19 Pixel Select 9 - 10			0..255
20 None	reserved		-

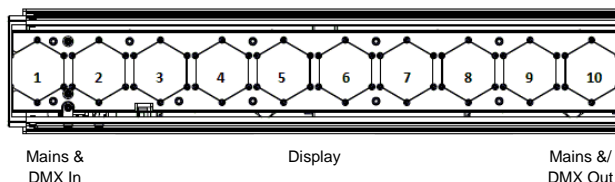
3 Single Pixel Mode (*spix*) 48 DMX Channels:

Channel	Function	Time and Value	DMX
1 Tilt - High	Tilt coarse	0° - 210°	0..255
2 Tilt - Low	Tilt fine		0..255
3 Shutter	Shutter closed		0..15
	Shutter pulse random	slow – fast	16..47
	Fade on, snap off (random patterns)	slow – fast	48..79
	Snap on, fade off (random patterns)	slow – fast	80..111
	Fade on, fade off (random patterns)	slow – fast	112..143
	Strobe random	5s - 0.1s	144..199
	Strobe effect slow - fast	1 Hz - 10 Hz	200..239
	Shutter open		240..255
4 Intensity	Intensity	0 - 100%	0..255
5 CTO	No CTO		0..7
	Continuous color temperature correction	Applicable for ALL colors	8..255
6 Special	RESET	> 1 sec	250..255
7 Crossfade	0..2 seconds transistion time		0..255
8 Zoom	Wide (flood) - narrow (spot)	50° - 7°	0..255
9 Set 1 Red	Color mixing system - Red	0 - 100%	0..255
10 Set 1 Green	Color mixing system - Green	0 - 100%	0..255
11 Set 1 Blue	Color mixing system - Blue	0 - 100%	0..255
12 Set 1 White	Color mixing system - White	0 - 100%	0..255
13 Set 2 Red	Color mixing system - Red	0 - 100%	0..255
14 Set 2 Green	Color mixing system - Green	0 - 100%	0..255
15 Set 2 Blue	Color mixing system - Blue	0 - 100%	0..255
16 Set 2 White	Color mixing system - White	0 - 100%	0..255
17 Set 3 Red	Color mixing system - Red	0 - 100%	0..255
18 Set 3 Green	Color mixing system - Green	0 - 100%	0..255
19 Set 3 Blue	Color mixing system - Blue	0 - 100%	0..255
20 Set 3 White	Color mixing system - White	0 - 100%	0..255
21 Set 4 Red	Color mixing system - Red	0 - 100%	0..255
22 Set 4 Green	Color mixing system - Green	0 - 100%	0..255
23 Set 4 Blue	Color mixing system - Blue	0 - 100%	0..255
24 Set 4 White	Color mixing system - White	0 - 100%	0..255
25 Set 5 Red	Color mixing system - Red	0 - 100%	0..255
26 Set 5 Green	Color mixing system - Green	0 - 100%	0..255

27 Set 5 Blue	Color mixing system - Blue	0 - 100%	0..255
28 Set 5 White	Color mixing system - White	0 - 100%	0..255
29 Set 6 Red	Color mixing system - Red	0 - 100%	0..255
30 Set 6 Green	Color mixing system - Green	0 - 100%	0..255
31 Set 6 Blue	Color mixing system - Blue	0 - 100%	0..255
32 Set 6 White	Color mixing system - White	0 - 100%	0..255
33 Set 7 Red	Color mixing system - Red	0 - 100%	0..255
34 Set 7 Green	Color mixing system - Green	0 - 100%	0..255
35 Set 7 Blue	Color mixing system - Blue	0 - 100%	0..255
36 Set 7 White	Color mixing system - White	0 - 100%	0..255
37 Set 8 Red	Color mixing system - Red	0 - 100%	0..255
38 Set 8 Green	Color mixing system - Green	0 - 100%	0..255
39 Set 8 Blue	Color mixing system - Blue	0 - 100%	0..255
40 Set 8 White	Color mixing system - White	0 - 100%	0..255
41 Set 9 Red	Color mixing system - Red	0 - 100%	0..255
42 Set 9 Green	Color mixing system - Green	0 - 100%	0..255
43 Set 9 Blue	Color mixing system - Blue	0 - 100%	0..255
44 Set 9 White	Color mixing system - White	0 - 100%	0..255
45 Set 10 Red	Color mixing system - Red	0 - 100%	0..255
46 Set 10 Green	Color mixing system - Green	0 - 100%	0..255
47 Set 10 Blue	Color mixing system - Blue	0 - 100%	0..255
48 Set 10 White	Color mixing system - White	0 - 100%	0..255

The pixel are numbered left to right 1 – 10 as shown below.

Tilt DMX Value = 0 / “Display” to the front / “Power & DMX In” to the left.



¹⁾ The predefined colors can be used as start-colors for the Rainbow effect. Please select first a desired start-color before you activate the rainbow effect. All **IMPRESSION X4 Bar** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4 Bar** can have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the ones marked with ¹⁾ in the tables above the rainbow start-color will be red.

²⁾ Rainbow-effect Stop will pause this function. After resuming the rainbow-effect will be continued from the current color.

³⁾ The Rainbow-effect will run synchronously only if started from one of the predefined colors (see also ¹⁾ before).

⁴⁾ Set 1 is the main layer while Set 2 and Set 3 are background layers. Thus Set 2 is only visible on the unlit pixel of layer 1 if a pattern is applied and Set 3 is only visible on the unlit pixel of layer 1 and 2 if there are patterns applied.

4 Technical Specifications:

Power supply	
Power consumption	200 VA (Watt)
Power Input	Auto sensing 100-240 V AC, 50-60 Hz
Fuse protection	Micro-fuse 5x20 mm, T5A
Operational Parameters	
Max. Ambient Temperature	5° - 45°C (integrated overheating switch) 40°-113°F
Mounting Position	Any (see relevant chapter in the manual)
Lighting System - Additive Color mixing	
LED Type	10 x Osram Ostar RGBW multi-chip
Lifetime	50,000 h
Wavelength optimized for maximum presentable color space	
Optical System	
Full RGBW / High efficient Collimator cluster	
Shutter / Dimmer (8/16 Bit)	
Strobe- Effect with variable speed between 1-10 flashes per second, Random- & Pulse-Effects	
Continuous Dimmer 0 - 100%	
Zoom	
7 to 50 degree continuous zoom	
Optical Patterns	
Several pre-defined beam patterns with direct access and manipulation	
DMX Control	
Standard USITT DMX-512, 5 pin XLR: [+]=Pin 3 / [-]=Pin 2 / [Ground]=Pin 1 / Pin 4&5 N.C. 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	500 mm / 19.7''
Width	100 mm / 3.9''
Height	240 mm / 9.4''
Weight (net)	8.0 kg / 17.6 lbs
Weight with bracket	9.8 kg / 21.6 lbs

5 Dimensions

