

DMX Channel Index

impression[®]
X4BAR



20

from software version: v0.60



— since 1994 —

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You can choose between 7 DMX modes each designed for different applications and preferences:

- **Normal Mode (34 Channels):**
Most common mode with all basic functions
- **Compressed Mode (19 Channels):**
Limited channel mode.
Channels are sorted to match the impression X4 normal mode.
- **High Resolution Mode (35 Channels):**
Same as the Normal Mode but with 16bit dimming
- **Single Pixel Mode (88 Channels):**
Individual control of the RGBW values for each pixel (i.e. for pixel mapping)
- **Single Pixel High Resolution Mode (89 Channels):**
Same as the Single Pixel Mode but with 16bit dimming
- **Dual Pixel Mode (48 Channels):**
Same as the the Single Pixel Mode but with 2 pixel combined as one to reduce the channel count.
- **Dual Pixel High Resolution Mode (49 Channels):**
Same as the Dual Pixel Mode but with 16bit dimming

1 Normal Mode (norm) 34 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 Continuous color temperature correction	Applicable for ALL colors	0..7 8..255
5 Set 1 Color (fixed)	Colors adjustable via RGB Color 01 - Red ¹⁾ Color 02 - Amber ¹⁾ Color 03 - Warm Yellow ¹⁾ Color 04 - Yellow ¹⁾ Color 05 - Green ¹⁾ Color 06 - Turquoise ¹⁾ Color 07 - Cyan ¹⁾ Color 08 - Blue ¹⁾ Color 09 - Lavender ¹⁾ Color 10 - Malve ¹⁾ Color 11 - Magenta ¹⁾ Color 12 - Pink ¹⁾ White - CTO White White - CTB Rainbow Effect Stop ²⁾ Rainbow Effect ³⁾ Random colors	 3200K 5600K 7200K slow - fast slow - fast	0..7 8..15 16..23 24..31 32..39 40..47 48..55 56..63 64..71 72..79 80..87 88..95 96..103 104..111 112..119 120..127 128 129..223 224..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 Shutter pulse random Fade on, snap off (random patterns) Snap on, fade off (random patterns) Fade on, fade off (random patterns) Strobe random	 slow – fast slow – fast slow – fast slow – fast 5s - 0.1s	0..15 16..47 48..79 80..111 112..143 144..199

	Strobe effect slow - fast Shutter open	1 Hz - 10 Hz	200..239 240..255
12 Intensity	Intensity	0 - 100%	0..255
13 Special ⁵⁾	See special features below ⁵⁾	-	-
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 transition time		0..255
27 Star Effect	Random internal shutter effect	slow – fast	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 - 16			0..255
34 Pixel Select 17 - 20			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 ⁵⁾	See special features below ⁵⁾	-	-
14 Crossfade	0..2 seconds transition 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 - 16			0..255
20 Pixel Select 17 - 20			0..255

3 High Resolution Mode (Hires) 35 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 Continuous color temperature correction	Applicable for ALL colors	0..7 8..255
5 Set 1 Color (fixed)	Colors adjustable via RGB Color 01 - Red ¹⁾ Color 02 - Amber ¹⁾ Color 03 - Warm Yellow ¹⁾ Color 04 - Yellow ¹⁾ Color 05 - Green ¹⁾ Color 06 - Turquoise ¹⁾ Color 07 - Cyan ¹⁾ Color 08 - Blue ¹⁾ Color 09 - Lavender ¹⁾ Color 10 - Malve ¹⁾ Color 11 - Magenta ¹⁾ Color 12 - Pink ¹⁾ White - CTO White White - CTB Rainbow Effect Stop ²⁾ Rainbow Effect ³⁾ Random colors	 3200K 5600K 7200K slow - fast slow - fast	0..7 8..15 16..23 24..31 32..39 40..47 48..55 56..63 64..71 72..79 80..87 88..95 96..103 104..111 112..119 120..127 128 129..223 224..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 Shutter pulse random Fade on, snap off (random patterns) Snap on, fade off (random patterns) Fade on, fade off (random patterns)	 slow – fast slow – fast slow – fast slow – fast	0..15 16..47 48..79 80..111 112..143

	Strobe random	5s - 0.1s	144..199
	Strobe effect slow - fast	1 Hz - 10 Hz	200..239
	Shutter open		240..255
12 Intensity - High	Intensity - coarse	0 - 100%	0..255
13 Intensity - Low	Intensity - fine	-	0..255
14 Special ⁵⁾	See special features below ⁵⁾	-	-
15 Set 2 Color ⁴⁾	Values see Channel 5	-	-
16 Set 2 Red ⁴⁾	Color mixing system - Red	0 - 100%	0..255
17 Set 2 Green ⁴⁾	Color mixing system - Green	0 - 100%	0..255
18 Set 2 Blue ⁴⁾	Color mixing system - Blue	0 - 100%	0..255
19 Set 2 White ⁴⁾	Color mixing system - White	0 - 100%	0..255
20 Set 2 Intensity ⁴⁾	Intensity	0 - 100%	0..255
21 Set 3 Color ⁴⁾	Values see Channel 5	-	-
22 Set 3 Red ⁴⁾	Color mixing system - Red	0 - 100%	0..255
23 Set 3 Green ⁴⁾	Color mixing system - Green	0 - 100%	0..255
24 Set 3 Blue ⁴⁾	Color mixing system - Blue	0 - 100%	0..255
25 Set 3 White ⁴⁾	Color mixing system - White	0 - 100%	0..255
26 Set 3 Intensity ⁴⁾	Intensity	0 - 100%	0..255
27 Crossfade	0..2 seconds transition time		0..255
28 Star Effect	Random internal shutter effect	slow – fast	0..255
29 Set 1 Pattern Select			0..255
30 Set 1 Pattern Movement			0..255
31 Set 2 Pattern Select			0..255
32 Set 2 Pattern Movement			0..255
33 Pixel Select 1 - 8			0..255
34 Pixel Select 9 - 16			0..255
35 Pixel Select 17 - 20			0..255

4 Dual Pixel Mode (dpix) 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 ⁵⁾	See special features below ⁵⁾	-	-
7 Crossfade	0..2 seconds transition time		0..255
8 Zoom	Wide (flood) - narrow (spot)	50° - 7°	0..255
9 Set 1&2 Red	Color mixing system - Red	0 - 100%	0..255
10 Set 1&2 Green	Color mixing system - Green	0 - 100%	0..255
11 Set 1&2 Blue	Color mixing system - Blue	0 - 100%	0..255
12 Set 1&2 White	Color mixing system - White	0 - 100%	0..255
13 Set 3&4 Red	Color mixing system - Red	0 - 100%	0..255
14 Set 3&4 Green	Color mixing system - Green	0 - 100%	0..255
15 Set 3&4 Blue	Color mixing system - Blue	0 - 100%	0..255
16 Set 3&4 White	Color mixing system - White	0 - 100%	0..255
17 Set 5&6 Red	Color mixing system - Red	0 - 100%	0..255
18 Set 5&6 Green	Color mixing system - Green	0 - 100%	0..255
19 Set 5&6 Blue	Color mixing system - Blue	0 - 100%	0..255
20 Set 5&6 White	Color mixing system - White	0 - 100%	0..255
21 Set 7&8 Red	Color mixing system - Red	0 - 100%	0..255
22 Set 7&8 Green	Color mixing system - Green	0 - 100%	0..255
23 Set 7&8 Blue	Color mixing system - Blue	0 - 100%	0..255
24 Set 7&8 White	Color mixing system - White	0 - 100%	0..255
25 Set 9&10 Red	Color mixing system - Red	0 - 100%	0..255
26 Set 9&10 Green	Color mixing system - Green	0 - 100%	0..255

27 Set 9&10 Blue	Color mixing system - Blue	0 - 100%	0..255
28 Set 9&10 White	Color mixing system - White	0 - 100%	0..255
29 Set 11&12 Red	Color mixing system - Red	0 - 100%	0..255
30 Set 11&12 Green	Color mixing system - Green	0 - 100%	0..255
31 Set 11&12 Blue	Color mixing system - Blue	0 - 100%	0..255
32 Set 11&12 White	Color mixing system - White	0 - 100%	0..255
33 Set 13&14 Red	Color mixing system - Red	0 - 100%	0..255
34 Set 13&14 Green	Color mixing system - Green	0 - 100%	0..255
35 Set 13&14 Blue	Color mixing system - Blue	0 - 100%	0..255
36 Set 13&14 White	Color mixing system - White	0 - 100%	0..255
37 Set 15&16 Red	Color mixing system - Red	0 - 100%	0..255
38 Set 15&16 Green	Color mixing system - Green	0 - 100%	0..255
39 Set 15&16 Blue	Color mixing system - Blue	0 - 100%	0..255
40 Set 15&16 White	Color mixing system - White	0 - 100%	0..255
41 Set 17&18 Red	Color mixing system - Red	0 - 100%	0..255
42 Set 17&18 Green	Color mixing system - Green	0 - 100%	0..255
43 Set 17&18 Blue	Color mixing system - Blue	0 - 100%	0..255
44 Set 17&18 White	Color mixing system - White	0 - 100%	0..255
45 Set 19&20 Red	Color mixing system - Red	0 - 100%	0..255
46 Set 19&20 Green	Color mixing system - Green	0 - 100%	0..255
47 Set 19&20 Blue	Color mixing system - Blue	0 - 100%	0..255
48 Set 19&20 White	Color mixing system - White	0 - 100%	0..255

5 Dual Pixel High Resolution Mode (DPixH) 49 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 - High	Intensity - coarse	0 - 100%	0..255
5 Intensity - Low	Intensity - fine	-	0..255
6 CTO	No CTO		0..7
	Continuous color temperature correction	Applicable for ALL colors	8..255
7 Special ⁵⁾	See special features below ⁵⁾	-	-
8 Crossfade	0..2 seconds transition time		0..255
9 Zoom	Wide (flood) - narrow (spot)	50° - 7°	0..255
10 Set 1&2 Red	Color mixing system - Red	0 - 100%	0..255
11 Set 1&2 Green	Color mixing system - Green	0 - 100%	0..255
12 Set 1&2 Blue	Color mixing system - Blue	0 - 100%	0..255
13 Set 1&2 White	Color mixing system - White	0 - 100%	0..255
14 Set 3&4 Red	Color mixing system - Red	0 - 100%	0..255
15 Set 3&4 Green	Color mixing system - Green	0 - 100%	0..255
16 Set 3&4 Blue	Color mixing system - Blue	0 - 100%	0..255
17 Set 3&4 White	Color mixing system - White	0 - 100%	0..255
18 Set 5&6 Red	Color mixing system - Red	0 - 100%	0..255
19 Set 5&6 Green	Color mixing system - Green	0 - 100%	0..255
20 Set 5&6 Blue	Color mixing system - Blue	0 - 100%	0..255
21 Set 5&6 White	Color mixing system - White	0 - 100%	0..255
22 Set 7&8 Red	Color mixing system - Red	0 - 100%	0..255
23 Set 7&8 Green	Color mixing system - Green	0 - 100%	0..255
24 Set 7&8 Blue	Color mixing system - Blue	0 - 100%	0..255
25 Set 7&8 White	Color mixing system - White	0 - 100%	0..255
26 Set 9&10 Red	Color mixing system - Red	0 - 100%	0..255

27 Set 9&10 Green	Color mixing system - Green	0 - 100%	0..255
28 Set 9&10 Blue	Color mixing system - Blue	0 - 100%	0..255
29 Set 9&10 White	Color mixing system - White	0 - 100%	0..255
30 Set 11&12 Red	Color mixing system - Red	0 - 100%	0..255
31 Set 11&12 Green	Color mixing system - Green	0 - 100%	0..255
32 Set 11&12 Blue	Color mixing system - Blue	0 - 100%	0..255
33 Set 11&12 White	Color mixing system - White	0 - 100%	0..255
34 Set 13&14 Red	Color mixing system - Red	0 - 100%	0..255
35 Set 13&14 Green	Color mixing system - Green	0 - 100%	0..255
36 Set 13&14 Blue	Color mixing system - Blue	0 - 100%	0..255
37 Set 13&14 White	Color mixing system - White	0 - 100%	0..255
38 Set 15&16 Red	Color mixing system - Red	0 - 100%	0..255
39 Set 15&16 Green	Color mixing system - Green	0 - 100%	0..255
40 Set 15&16 Blue	Color mixing system - Blue	0 - 100%	0..255
41 Set 15&16 White	Color mixing system - White	0 - 100%	0..255
42 Set 17&18 Red	Color mixing system - Red	0 - 100%	0..255
43 Set 17&18 Green	Color mixing system - Green	0 - 100%	0..255
44 Set 17&18 Blue	Color mixing system - Blue	0 - 100%	0..255
45 Set 17&18 White	Color mixing system - White	0 - 100%	0..255
46 Set 19&20 Red	Color mixing system - Red	0 - 100%	0..255
47 Set 19&20 Green	Color mixing system - Green	0 - 100%	0..255
48 Set 19&20 Blue	Color mixing system - Blue	0 - 100%	0..255
49 Set 19&20 White	Color mixing system - White	0 - 100%	0..255

6 Single Pixel Mode (spix) 88 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 ⁵⁾	See special features below ⁵⁾	-	-
7 Crossfade	0..2 seconds transition 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
49 Set 11 Red	Color mixing system - Red	0 - 100%	0..255
50 Set 11 Green	Color mixing system - Green	0 - 100%	0..255
51 Set 11 Blue	Color mixing system - Blue	0 - 100%	0..255
52 Set 11 White	Color mixing system - White	0 - 100%	0..255
53 Set 12 Red	Color mixing system - Red	0 - 100%	0..255
54 Set 12 Green	Color mixing system - Green	0 - 100%	0..255
55 Set 12 Blue	Color mixing system - Blue	0 - 100%	0..255
56 Set 12 White	Color mixing system - White	0 - 100%	0..255
57 Set 13 Red	Color mixing system - Red	0 - 100%	0..255
58 Set 13 Green	Color mixing system - Green	0 - 100%	0..255
59 Set 13 Blue	Color mixing system - Blue	0 - 100%	0..255
60 Set 13 White	Color mixing system - White	0 - 100%	0..255
61 Set 14 Red	Color mixing system - Red	0 - 100%	0..255
62 Set 14 Green	Color mixing system - Green	0 - 100%	0..255
63 Set 14 Blue	Color mixing system - Blue	0 - 100%	0..255

64 Set 14 White	Color mixing system - White	0 - 100%	0..255
65 Set 15 Red	Color mixing system - Red	0 - 100%	0..255
66 Set 15 Green	Color mixing system - Green	0 - 100%	0..255
67 Set 15 Blue	Color mixing system - Blue	0 - 100%	0..255
68 Set 15 White	Color mixing system - White	0 - 100%	0..255
69 Set 16 Red	Color mixing system - Red	0 - 100%	0..255
70 Set 16 Green	Color mixing system - Green	0 - 100%	0..255
71 Set 16 Blue	Color mixing system - Blue	0 - 100%	0..255
72 Set 16 White	Color mixing system - White	0 - 100%	0..255
73 Set 17 Red	Color mixing system - Red	0 - 100%	0..255
74 Set 17 Green	Color mixing system - Green	0 - 100%	0..255
75 Set 17 Blue	Color mixing system - Blue	0 - 100%	0..255
76 Set 17 White	Color mixing system - White	0 - 100%	0..255
77 Set 18 Red	Color mixing system - Red	0 - 100%	0..255
78 Set 18 Green	Color mixing system - Green	0 - 100%	0..255
79 Set 18 Blue	Color mixing system - Blue	0 - 100%	0..255
80 Set 18 White	Color mixing system - White	0 - 100%	0..255
81 Set 19 Red	Color mixing system - Red	0 - 100%	0..255
82 Set 19 Green	Color mixing system - Green	0 - 100%	0..255
83 Set 19 Blue	Color mixing system - Blue	0 - 100%	0..255
84 Set 19 White	Color mixing system - White	0 - 100%	0..255
85 Set 20 Red	Color mixing system - Red	0 - 100%	0..255
86 Set 20 Green	Color mixing system - Green	0 - 100%	0..255
87 Set 20 Blue	Color mixing system - Blue	0 - 100%	0..255
88 Set 20 White	Color mixing system - White	0 - 100%	0..255

7 Single Pixel High Resolution Mode (SPixH) 89 DMX Channels:

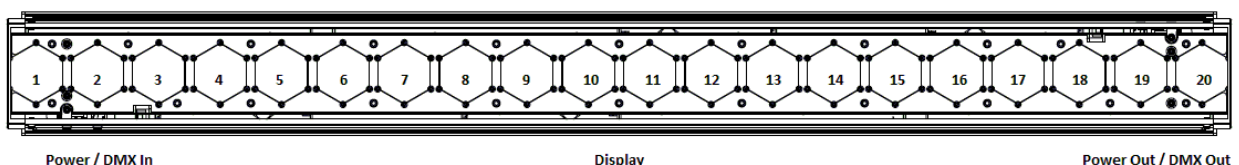
Channel	Function	Time and Value	DMX
1 Tilt - High	Tilt coarse	0° - 210°	0..255
2 Tilt - Low	Tilt fine		0..255
3 Shutter	Shutter closed		0..15
	Shutter pulse random	slow – fast	16..47
	Fade on, snap off (random patterns)	slow – fast	48..79
	Snap on, fade off (random patterns)	slow – fast	80..111
	Fade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

27 Set 5 Green	Color mixing system - Green	0 - 100%	0..255
28 Set 5 Blue	Color mixing system - Blue	0 - 100%	0..255
29 Set 5 White	Color mixing system - White	0 - 100%	0..255
30 Set 6 Red	Color mixing system - Red	0 - 100%	0..255
31 Set 6 Green	Color mixing system - Green	0 - 100%	0..255
32 Set 6 Blue	Color mixing system - Blue	0 - 100%	0..255
33 Set 6 White	Color mixing system - White	0 - 100%	0..255
34 Set 7 Red	Color mixing system - Red	0 - 100%	0..255
35 Set 7 Green	Color mixing system - Green	0 - 100%	0..255
36 Set 7 Blue	Color mixing system - Blue	0 - 100%	0..255
37 Set 7 White	Color mixing system - White	0 - 100%	0..255
38 Set 8 Red	Color mixing system - Red	0 - 100%	0..255
39 Set 8 Green	Color mixing system - Green	0 - 100%	0..255
40 Set 8 Blue	Color mixing system - Blue	0 - 100%	0..255
41 Set 8 White	Color mixing system - White	0 - 100%	0..255
42 Set 9 Red	Color mixing system - Red	0 - 100%	0..255
43 Set 9 Green	Color mixing system - Green	0 - 100%	0..255
44 Set 9 Blue	Color mixing system - Blue	0 - 100%	0..255
45 Set 9 White	Color mixing system - White	0 - 100%	0..255
46 Set 10 Red	Color mixing system - Red	0 - 100%	0..255
47 Set 10 Green	Color mixing system - Green	0 - 100%	0..255
48 Set 10 Blue	Color mixing system - Blue	0 - 100%	0..255
49 Set 10 White	Color mixing system - White	0 - 100%	0..255
50 Set 11 Red	Color mixing system - Red	0 - 100%	0..255
51 Set 11 Green	Color mixing system - Green	0 - 100%	0..255
52 Set 11 Blue	Color mixing system - Blue	0 - 100%	0..255
53 Set 11 White	Color mixing system - White	0 - 100%	0..255
54 Set 12 Red	Color mixing system - Red	0 - 100%	0..255
55 Set 12 Green	Color mixing system - Green	0 - 100%	0..255
56 Set 12 Blue	Color mixing system - Blue	0 - 100%	0..255
57 Set 12 White	Color mixing system - White	0 - 100%	0..255
58 Set 13 Red	Color mixing system - Red	0 - 100%	0..255
59 Set 13 Green	Color mixing system - Green	0 - 100%	0..255
60 Set 13 Blue	Color mixing system - Blue	0 - 100%	0..255
61 Set 13 White	Color mixing system - White	0 - 100%	0..255
62 Set 14 Red	Color mixing system - Red	0 - 100%	0..255
63 Set 14 Green	Color mixing system - Green	0 - 100%	0..255

64 Set 14 Blue	Color mixing system - Blue	0 - 100%	0..255
65 Set 14 White	Color mixing system - White	0 - 100%	0..255
66 Set 15 Red	Color mixing system - Red	0 - 100%	0..255
67 Set 15 Green	Color mixing system - Green	0 - 100%	0..255
68 Set 15 Blue	Color mixing system - Blue	0 - 100%	0..255
69 Set 15 White	Color mixing system - White	0 - 100%	0..255
70 Set 16 Red	Color mixing system - Red	0 - 100%	0..255
71 Set 16 Green	Color mixing system - Green	0 - 100%	0..255
72 Set 16 Blue	Color mixing system - Blue	0 - 100%	0..255
73 Set 16 White	Color mixing system - White	0 - 100%	0..255
74 Set 17 Red	Color mixing system - Red	0 - 100%	0..255
75 Set 17 Green	Color mixing system - Green	0 - 100%	0..255
76 Set 17 Blue	Color mixing system - Blue	0 - 100%	0..255
77 Set 17 White	Color mixing system - White	0 - 100%	0..255
78 Set 18 Red	Color mixing system - Red	0 - 100%	0..255
79 Set 18 Green	Color mixing system - Green	0 - 100%	0..255
80 Set 18 Blue	Color mixing system - Blue	0 - 100%	0..255
81 Set 18 White	Color mixing system - White	0 - 100%	0..255
82 Set 19 Red	Color mixing system - Red	0 - 100%	0..255
83 Set 19 Green	Color mixing system - Green	0 - 100%	0..255
84 Set 19 Blue	Color mixing system - Blue	0 - 100%	0..255
85 Set 19 White	Color mixing system - White	0 - 100%	0..255
86 Set 20 Red	Color mixing system - Red	0 - 100%	0..255
87 Set 20 Green	Color mixing system - Green	0 - 100%	0..255
88 Set 20 Blue	Color mixing system - Blue	0 - 100%	0..255
89 Set 20 White	Color mixing system - White	0 - 100%	0..255

The Pixel are numbered left to right 1 – 20 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 20** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4 Bar 20** 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.

5) Special Channel Function Overview:

DMX value		Active	Function	Save to eeprom	Remarks
from	to				
0	3	not in	no mirror	no	
4	7	SPix/DPix/SPixH/DPixH mode	mirror color priority	no	
8	11		mirror color mixing	no	
The following switch boxes only work if special channel has been enabled with DMX value zero (0) before:					
120	123	3 seconds	Tilt slow mode off	yes	Only if shutter=48..49 and intensity=50..59 (12800..15104 at high resolution).
124	127	3 seconds	Tilt slow mode on	yes	
128	131	3 seconds	Tilt current off	yes	Requires Tilt Firmware V.20 or later. ⁶⁾
132	135	3 seconds	Tilt current on	yes	
136	139	3 seconds	Tilt reset off	yes	
140	143	3 seconds	Tilt reset on	yes	
144	147	3 seconds	Display Flip off	yes	
148	151	3 seconds	Display Flip on	yes	
152	155	3 seconds	DMX Mode DPixH (HiRes)	yes	Only if shutter=48..49 and intensity=50..59 (12800..15104 at high resolution)
156	159	3 seconds	DMX Mode SPixH (HiRes)	yes	
160	163	3 seconds	DMX Mode High Resolution	yes	
164	167	3 seconds	DMX Mode Normal	yes	
168	171	3 seconds	DMX Mode Compressed	yes	
172	175	3 seconds	DMX Mode DPix	yes	
176	179	3 seconds	DMX Mode SPix	yes	
180	183	3 seconds	Dimmer Curve ESoft	yes	
184	187	3 seconds	Dimmer Curve Soft	yes	
188	191	3 seconds	Dimmer Curve Lin	yes	
192	195	3 seconds	X4 Compatibility off	yes	
196	199	3 seconds	X4 Compatibility on	yes	
200	203	3 seconds	Silent-Mode off	yes	
204	207	3 seconds	Silent-Mode on	yes	
208	211	3 seconds	Position Feedback off	yes	
212	215	3 seconds	Position Feedback on	yes	
216	219	3 seconds	DMX hold off	yes	
220	223	3 seconds	DMX hold on	yes	
224	227	3 seconds	Tilt inverse off	yes	
228	231	3 seconds	Tilt inverse on	yes	
232	235	3 seconds	Pixel inverse off	yes	
236	239	3 seconds	Pixel inverse on	yes	
240	243	3 seconds	Zoom inverse off	yes	
244	247	3 seconds	Zoom inverse on	yes	
248	251	3 seconds	Fixture default	yes	Only if shutter=48..49 and intensity=50..59 (12800..15104 at high resolution)
252	255	3 seconds	Fixture reset	no	

⁶⁾ For further information please contact your local GLP dealer or GLP support center

8 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	
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	20 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 Exchangeable diffuser filters available (optional).	
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 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

9 Dimensions

