DMX Channel Index

impression X4 BAR

X4 BAR

20

from software version: v0.60

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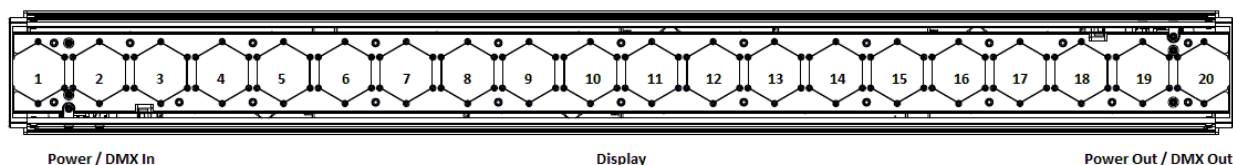Seven DMX modes are available to suit different applications and preferences:

- **Normal Mode (34 Channels):** Most common mode with all basic functions. See page 3.

- **Compressed Mode (20 Channels):** Limited channel mode. Channels are sorted to match the Impression X4 normal mode. See page 4.

- **High Resolution Mode (35 Channels):** Same as Normal Mode but with 16-bit master dimming. See page 5.

- **Single Pixel Mode (88 Channels):** Individual control of the RGBW values for each pixel, which allows for pixel mapping. See page 6.

- **Single Pixel High Resolution Mode (89 Channels):** Same as the Single Pixel Mode but with 16-bit master dimming. See page 8.

- **Dual Pixel Mode (48 Channels):** Similar to Single Pixel Mode but with 2 pixel combined as one to reduce the channel count. See page 10.

- **Dual Pixel High Resolution Mode (49 Channels):** Same as the Dual Pixel Mode but with 16-bit master dimming. See page 11.

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.

Pixel numbering

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**

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		0..7
			Continuous color temperature correction	Applies to 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		**Green**	Color mixing system - Green	0 - 100%	0..255
8		**Blue**	Color mixing system - Blue	0 - 100%	0..255
9		**White**	Color mixing system - White	0 - 100%	0..255
10		**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	1 Hz - 10 Hz	200..239
			Shutter open		240..255
12	**Intensity**		Intensity	0 - 100%	0..255
13	**Special**		See special functions on page 12	-	-
14	**Set 2** [4]	**Color**	Values see Channel 5	-	-
15		**Red**	Color mixing system - Red	0 - 100%	0..255
16		**Green**	Color mixing system - Green	0 - 100%	0..255
17		**Blue**	Color mixing system - Blue	0 - 100%	0..255
18		**White**	Color mixing system - White	0 - 100%	0..255
19		**Intensity**	Intensity	0 - 100%	0..255
20	**Set 3** [4]	**Color**	Values see Channel 5	-	-
21		**Red**	Color mixing system - Red	0 - 100%	0..255
22		**Green**	Color mixing system - Green	0 - 100%	0..255
23		**Blue**	Color mixing system - Blue	0 - 100%	0..255
24		**White**	Color mixing system - White	0 - 100%	0..255
25		**Intensity**	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		**Pattern Movement**			0..255
30	**Set 2** [4]	**Pattern Select**			0..255
31		**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

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		Green	Color mixing system - Green	0 - 100%	0..255
8		Blue	Color mixing system - Blue	0 - 100%	0..255
9		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		0..7
			Continuous color temperature correction	Applies to ALL colors	8..255
13	Special		See special functions on page 12	-	-
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				0..255
18	Pixel Select 1- 8				0..255
19	Pixel Select 9 - 16				0..255
20	Pixel Select 17 -20				0..255

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		0..7
			Continuous color temperature correction	Applies to 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		**Red**	Color mixing system - Red	0 - 100%	0..255
7		**Green**	Color mixing system - Green	0 - 100%	0..255
8	**Set 1**	**Blue**	Color mixing system - Blue	0 - 100%	0..255
9		**White**	Color mixing system - White	0 - 100%	0..255
10		**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	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**		See special functions on page 12	-	-
15		**Color**	Values see Channel 5	-	-
16		**Red**	Color mixing system - Red	0 - 100%	0..255
17	**Set 2** [4]	**Green**	Color mixing system - Green	0 - 100%	0..255
18		**Blue**	Color mixing system - Blue	0 - 100%	0..255
19		**White**	Color mixing system - White	0 - 100%	0..255
20		**Intensity**	Intensity	0 - 100%	0..255
21		**Color**	Values see Channel 5	-	-
22		**Red**	Color mixing system - Red	0 - 100%	0..255
23	**Set 3** [4]	**Green**	Color mixing system - Green	0 - 100%	0..255
24		**Blue**	Color mixing system - Blue	0 - 100%	0..255
25		**White**	Color mixing system - White	0 - 100%	0..255
26		**Intensity**	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		**Pattern Movement**			0..255
31	**Set 2** [4]	**Pattern Select**			0..255
32		**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

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 Shutter pulse random Fade on, snap off (random patterns) Snap on, fade off (random patterns) Fade on, fade off (random patterns) Strobe random Strobe effect slow - fast Shutter open	 slow – fast slow – fast slow – fast slow – fast 5s - 0.1s 1 Hz - 10 Hz	0..15 16..47 48..79 80..111 112..143 144..199 200..239 240..255
4	**Intensity**		Intensity	0 - 100%	0..255
5	**CTO**		No CTO Continuous color temperature correction	 Applies to ALL colors	0..7 8..255
6	**Special**		See special functions on page 12	-	-
7	**Crossfade**		0..2 seconds transition time		0..255
8	**Zoom**		Wide (flood) - narrow (spot)	50° - 7°	0..255
9	**Pixel 1**	**Red**	Color mixing system - Red	0 - 100%	0..255
10		**Green**	Color mixing system - Green	0 - 100%	0..255
11		**Blue**	Color mixing system - Blue	0 - 100%	0..255
12		**White**	Color mixing system - White	0 - 100%	0..255
13	**Pixel 2**	**Red**	Color mixing system - Red	0 - 100%	0..255
14		**Green**	Color mixing system - Green	0 - 100%	0..255
15		**Blue**	Color mixing system - Blue	0 - 100%	0..255
16		**White**	Color mixing system - White	0 - 100%	0..255
17	**Pixel 3**	**Red**	Color mixing system - Red	0 - 100%	0..255
18		**Green**	Color mixing system - Green	0 - 100%	0..255
19		**Blue**	Color mixing system - Blue	0 - 100%	0..255
20		**White**	Color mixing system - White	0 - 100%	0..255
21	**Pixel 4**	**Red**	Color mixing system - Red	0 - 100%	0..255
22		**Green**	Color mixing system - Green	0 - 100%	0..255
23		**Blue**	Color mixing system - Blue	0 - 100%	0..255
24		**White**	Color mixing system - White	0 - 100%	0..255
25	**Pixel 5**	**Red**	Color mixing system - Red	0 - 100%	0..255
26		**Green**	Color mixing system - Green	0 - 100%	0..255
27		**Blue**	Color mixing system - Blue	0 - 100%	0..255
28		**White**	Color mixing system - White	0 - 100%	0..255
29	**Pixel 6**	**Red**	Color mixing system - Red	0 - 100%	0..255
30		**Green**	Color mixing system - Green	0 - 100%	0..255
31		**Blue**	Color mixing system - Blue	0° - 210°	0..255
32		**White**	Color mixing system - White	0 - 100%	0..255
33	**Pixel 7**	**Red**	Color mixing system - Red	0 - 100%	0..255
34		**Green**	Color mixing system - Green	0 - 100%	0..255
35		**Blue**	Color mixing system - Blue	0 - 100%	0..255
36		**White**	Color mixing system - White	0 - 100%	0..255
37	**Pixel 8**	**Red**	Color mixing system - Red	0 s - 0.1s	0..255
38		**Green**	Color mixing system - Green	0 - 100%	200..255
39		**Blue**	Color mixing system - Blue	0 - 100%	0..255
40		**White**	Color mixing system - White	0 - 100%	0..255
41	**Pixel 9**	**Red**	Color mixing system - Red	0 - 100%	0..255
42		**Green**	Color mixing system - Green	0 - 100%	8..255
43		**Blue**	Color mixing system - Blue	0 - 100%	0..255
44		**White**	Color mixing system - White	0 - 100%	0..255
45	**Pixel 10**	**Red**	Color mixing system - Red	0 - 100%	0..255
46		**Green**	Color mixing system - Green	0 - 100%	0..255
47		**Blue**	Color mixing system - Blue	0 - 100%	0..255
48		**White**	Color mixing system - White	0 - 100%	0..255
49	**Pixel 11**	**Red**	Color mixing system - Red	0 - 100%	0..255
50		**Green**	Color mixing system - Green	0 - 100%	0..255
51		**Blue**	Color mixing system - Blue	0 - 100%	0..255
52		**White**	Color mixing system - White	0 - 100%	0..255

53		**Red**	Color mixing system - Red	0 - 100%	0..255
54	**Pixel 12**	**Green**	Color mixing system - Green	0 - 100%	0..255
55		**Blue**	Color mixing system - Blue	0 - 100%	0..255
56		**White**	Color mixing system - White	0 - 100%	0..255
57		**Red**	Color mixing system - Red	0 - 100%	0..255
58	**Pixel 13**	**Green**	Color mixing system - Green	0 - 100%	0..255
59		**Blue**	Color mixing system - Blue	0 - 100%	0..255
60		**White**	Color mixing system - White	0 - 100%	0..255
61		**Red**	Color mixing system - Red	0 - 100%	0..255
62	**Pixel 14**	**Green**	Color mixing system - Green	0 - 100%	0..255
63		**Blue**	Color mixing system - Blue	0 - 100%	0..255
64		**White**	Color mixing system - White	0 - 100%	0..255
65		**Red**	Color mixing system - Red	0 - 100%	0..255
66	**Pixel 15**	**Green**	Color mixing system - Green	0 - 100%	0..255
67		**Blue**	Color mixing system - Blue	0 - 100%	0..255
68		**White**	Color mixing system - White	0 - 100%	0..255
69		**Red**	Color mixing system - Red	0 - 100%	0..255
70	**Pixel 16**	**Green**	Color mixing system - Green	0 - 100%	0..255
71		**Blue**	Color mixing system - Blue	0 - 100%	0..255
72		**White**	Color mixing system - White	0 - 100%	0..255
73		**Red**	Color mixing system - Red	0 - 100%	0..255
74	**Pixel 17**	**Green**	Color mixing system - Green	0 - 100%	0..255
75		**Blue**	Color mixing system - Blue	0 - 100%	0..255
76		**White**	Color mixing system - White	0 - 100%	0..255
77		**Red**	Color mixing system - Red	0 - 100%	0..255
78	**Pixel 18**	**Green**	Color mixing system - Green	0 - 100%	0..255
79		**Blue**	Color mixing system - Blue	0 - 100%	0..255
80		**White**	Color mixing system - White	0 - 100%	0..255
81		**Red**	Color mixing system - Red	0 - 100%	0..255
82	**Pixel 19**	**Green**	Color mixing system - Green	0 - 100%	0..255
83		**Blue**	Color mixing system - Blue	0 - 100%	0..255
84		**White**	Color mixing system - White	0 - 100%	0..255
85		**Red**	Color mixing system - Red	0 - 100%	0..255
86	**Pixel 20**	**Green**	Color mixing system - Green	0 - 100%	0..255
87		**Blue**	Color mixing system - Blue	0 - 100%	0..255
88		**White**	Color mixing system - White	0 - 100%	0..255

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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	Applies to ALL colors	8..255
7	Special		See special functions on page 12	-	-
8	Crossfade		0..2 seconds transition time		0..255
9	Zoom		Wide (flood) - narrow (spot)	50° - 7°	0..255
10	Pixel 1	Red	Color mixing system - Red	0 - 100%	0..255
11		Green	Color mixing system - Green	0 - 100%	0..255
12		Blue	Color mixing system - Blue	0 - 100%	0..255
13		White	Color mixing system - White	0 - 100%	0..255
14	Pixel 2	Red	Color mixing system - Red	0 - 100%	0..255
15		Green	Color mixing system - Green	0 - 100%	0..255
16		Blue	Color mixing system - Blue	0 - 100%	0..255
17		White	Color mixing system - White	0 - 100%	0..255
18	Pixel 3	Red	Color mixing system - Red	0 - 100%	0..255
19		Green	Color mixing system - Green	0 - 100%	0..255
20		Blue	Color mixing system - Blue	0 - 100%	0..255
21		White	Color mixing system - White	0 - 100%	0..255
22	Pixel 4	Red	Color mixing system - Red	0 - 100%	0..255
23		Green	Color mixing system - Green	0 - 100%	0..255
24		Blue	Color mixing system - Blue	0 - 100%	0..255
25		White	Color mixing system - White	0 - 100%	0..255
26	Pixel 5	Red	Color mixing system - Red	0 - 100%	0..255
27		Green	Color mixing system - Green	0 - 100%	0..255
28		Blue	Color mixing system - Blue	0 - 100%	0..255
29		White	Color mixing system - White	0 - 100%	0..255
30	Pixel 6	Red	Color mixing system - Red	0 - 100%	0..255
31		Green	Color mixing system - Green	0 - 100%	0..255
32		Blue	Color mixing system - Blue	0 - 100%	0..255
33		White	Color mixing system - White	0 - 100%	0..255
34	Pixel 7	Red	Color mixing system - Red	0 - 100%	0..255
35		Green	Color mixing system - Green	0 - 100%	0..255
36		Blue	Color mixing system - Blue	0 - 100%	0..255
37		White	Color mixing system - White	0 - 100%	0..255
38	Pixel 8	Red	Color mixing system - Red	0 - 100%	200..255
39		Green	Color mixing system - Green	0 - 100%	0..255
40		Blue	Color mixing system - Blue	0 - 100%	0..255
41		White	Color mixing system - White	0 - 100%	0..255
42	Pixel 9	Red	Color mixing system - Red	0 - 100%	0..255
43		Green	Color mixing system - Green	0 - 100%	8..255
44		Blue	Color mixing system - Blue	0 - 100%	0..255
45		White	Color mixing system - White	0 - 100%	0..255
46	Pixel 10	Red	Color mixing system - Red	0 - 100%	0..255
47		Green	Color mixing system - Green	0 - 100%	0..255
48		Blue	Color mixing system - Blue	0 - 100%	0..255
49		White	Color mixing system - White	0 - 100%	0..255
50	Pixel 11	Red	Color mixing system - Red	0 - 100%	0..255
51		Green	Color mixing system - Green	0 - 100%	0..255
52		Blue	Color mixing system - Blue	0 - 100%	0..255
53		White	Color mixing system - White	0 - 100%	0..255

54		**Red**	Color mixing system - Red	0 - 100%	0..255
55	**Pixel 12**	**Green**	Color mixing system - Green	0 - 100%	0..255
56		**Blue**	Color mixing system - Blue	0 - 100%	0..255
57		**White**	Color mixing system - White	0 - 100%	0..255
58		**Red**	Color mixing system - Red	0 - 100%	0..255
59	**Pixel 13**	**Green**	Color mixing system - Green	0 - 100%	0..255
60		**Blue**	Color mixing system - Blue	0 - 100%	0..255
61		**White**	Color mixing system - White	0 - 100%	0..255
62		**Red**	Color mixing system - Red	0 - 100%	0..255
63	**Pixel 14**	**Green**	Color mixing system - Green	0 - 100%	0..255
64		**Blue**	Color mixing system - Blue	0 - 100%	0..255
65		**White**	Color mixing system - White	0 - 100%	0..255
66		**Red**	Color mixing system - Red	0 - 100%	0..255
67	**Pixel 15**	**Green**	Color mixing system - Green	0 - 100%	0..255
68		**Blue**	Color mixing system - Blue	0 - 100%	0..255
69		**White**	Color mixing system - White	0 - 100%	0..255
70		**Red**	Color mixing system - Red	0 - 100%	0..255
71	**Pixel 16**	**Green**	Color mixing system - Green	0 - 100%	0..255
72		**Blue**	Color mixing system - Blue	0 - 100%	0..255
73		**White**	Color mixing system - White	0 - 100%	0..255
74		**Red**	Color mixing system - Red	0 - 100%	0..255
75	**Pixel 17**	**Green**	Color mixing system - Green	0 - 100%	0..255
76		**Blue**	Color mixing system - Blue	0 - 100%	0..255
77		**White**	Color mixing system - White	0 - 100%	0..255
78		**Red**	Color mixing system - Red	0 - 100%	0..255
79	**Pixel 18**	**Green**	Color mixing system - Green	0 - 100%	0..255
80		**Blue**	Color mixing system - Blue	0 - 100%	0..255
81		**White**	Color mixing system - White	0 - 100%	0..255
82		**Red**	Color mixing system - Red	0 - 100%	0..255
83	**Pixel 19**	**Green**	Color mixing system - Green	0 - 100%	0..255
84		**Blue**	Color mixing system - Blue	0 - 100%	0..255
85		**White**	Color mixing system - White	0 - 100%	0..255
86		**Red**	Color mixing system - Red	0 - 100%	0..255
87	**Pixel 20**	**Green**	Color mixing system - Green	0 - 100%	0..255
88		**Blue**	Color mixing system - Blue	0 - 100%	0..255
89		**White**	Color mixing system - White	0 - 100%	0..255

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 Shutter pulse random Fade on, snap off (random patterns) Snap on, fade off (random patterns) Fade on, fade off (random patterns) Strobe random Strobe effect slow - fast Shutter open	 slow – fast slow – fast slow – fast slow – fast 5s - 0.1s 1 Hz - 10 Hz	0..15 16..47 48..79 80..111 112..143 144..199 200..239 240..255
4	**Intensity**		Intensity	0 - 100%	0..255
5	**CTO**		No CTO Continuous color temperature correction	 Applies to ALL colors	0..7 8..255
6	**Special**		See special functions on page 12	-	-
7	**Crossfade**		0..2 seconds transition time		0..255
8	**Zoom**		Wide (flood) - narrow (spot)	50° - 7°	0..255
9	**Pixel 1&2**	**Red**	Color mixing system - Red	0 - 100%	0..255
10		**Green**	Color mixing system - Green	0 - 100%	0..255
11		**Blue**	Color mixing system - Blue	0 - 100%	0..255
12		**White**	Color mixing system - White	0 - 100%	0..255
13	**Pixel 3&4**	**Red**	Color mixing system - Red	0 - 100%	0..255
14		**Green**	Color mixing system - Green	0 - 100%	0..255
15		**Blue**	Color mixing system - Blue	0 - 100%	0..255
16		**White**	Color mixing system - White	0 - 100%	0..255
17	**Pixel 5&6**	**Red**	Color mixing system - Red	0 - 100%	0..255
18		**Green**	Color mixing system - Green	0 - 100%	0..255
19		**Blue**	Color mixing system - Blue	0 - 100%	0..255
20		**White**	Color mixing system - White	0 - 100%	0..255
21	**Pixel 7&8**	**Red**	Color mixing system - Red	0 - 100%	0..255
22		**Green**	Color mixing system - Green	0 - 100%	0..255
23		**Blue**	Color mixing system - Blue	0 - 100%	0..255
24		**White**	Color mixing system - White	0 - 100%	0..255
25	**Pixel 9&10**	**Red**	Color mixing system - Red	0 - 100%	0..255
26		**Green**	Color mixing system - Green	0 - 100%	0..255
27		**Blue**	Color mixing system - Blue	0 - 100%	0..255
28		**White**	Color mixing system - White	0 - 100%	0..255
29	**Pixel 11&12**	**Red**	Color mixing system - Red	0 - 100%	0..255
30		**Green**	Color mixing system - Green	0 - 100%	0..255
31		**Blue**	Color mixing system - Blue	0 - 100%	0..255
32		**White**	Color mixing system - White	0 - 100%	0..255
33	**Pixel 13&14**	**Red**	Color mixing system - Red	0 - 100%	0..255
34		**Green**	Color mixing system - Green	0 - 100%	0..255
35		**Blue**	Color mixing system - Blue	0 - 100%	0..255
36		**White**	Color mixing system - White	0 - 100%	0..255
37	**Pixel 15&16**	**Red**	Color mixing system - Red	0 - 100%	0..255
38		**Green**	Color mixing system - Green	0 - 100%	0..255
39		**Blue**	Color mixing system - Blue	0 - 100%	0..255
40		**White**	Color mixing system - White	0 - 100%	0..255
41	**Pixel 17&18**	**Red**	Color mixing system - Red	0 - 100%	0..255
42		**Green**	Color mixing system - Green	0 - 100%	0..255
43		**Blue**	Color mixing system - Blue	0 - 100%	0..255
44		**White**	Color mixing system - White	0 - 100%	0..255
45	**Pixel 19&20**	**Red**	Color mixing system - Red	0 - 100%	0..255
46		**Green**	Color mixing system - Green	0 - 100%	0..255
47		**Blue**	Color mixing system - Blue	0 - 100%	0..255
48		**White**	Color mixing system - White	0 - 100%	0..255

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 Shutter pulse random Fade on, snap off (random patterns) Snap on, fade off (random patterns) Fade on, fade off (random patterns) Strobe random Strobe effect slow - fast Shutter open	 slow – fast slow – fast slow – fast slow – fast 5s - 0.1s 1 Hz - 10 Hz	0..15 16..47 48..79 80..111 112..143 144..199 200..239 240..255
4	**Intensity - High**		Intensity - coarse	0 - 100%	0..255
5	**Intensity - Low**		Intensity - fine	-	0..255
6	**CTO**		No CTO Continuous color temperature correction	 Applies to ALL colors	0..7 8..255
7	**Special**		See special functions on page 12	-	-
8	**Crossfade**		0..2 seconds transition time		0..255
9	**Zoom**		Wide (flood) - narrow (spot)	50° - 7°	0..255
10	**Pixel 1&2**	Red	Color mixing system - Red	0 - 100%	0..255
11		Green	Color mixing system - Green	0 - 100%	0..255
12		Blue	Color mixing system - Blue	0 - 100%	0..255
13		White	Color mixing system - White	0 - 100%	0..255
14	**Pixel 3&4**	Red	Color mixing system - Red	0 - 100%	0..255
15		Green	Color mixing system - Green	0 - 100%	0..255
16		Blue	Color mixing system - Blue	0 - 100%	0..255
17		White	Color mixing system - White	0 - 100%	0..255
18	**Pixel 5&6**	Red	Color mixing system - Red	0 - 100%	0..255
19		Green	Color mixing system - Green	0 - 100%	0..255
20		Blue	Color mixing system - Blue	0 - 100%	0..255
21		White	Color mixing system - White	0 - 100%	0..255
22	**Pixel 7&8**	Red	Color mixing system - Red	0 - 100%	0..255
23		Green	Color mixing system - Green	0 - 100%	0..255
24		Blue	Color mixing system - Blue	0 - 100%	0..255
25		White	Color mixing system - White	0 - 100%	0..255
26	**Pixel 9&10**	Red	Color mixing system - Red	0 - 100%	0..255
27		Green	Color mixing system - Green	0 - 100%	0..255
28		Blue	Color mixing system - Blue	0 - 100%	0..255
29		White	Color mixing system - White	0 - 100%	0..255
30	**Pixel 11&12**	Red	Color mixing system - Red	0 - 100%	0..255
31		Green	Color mixing system - Green	0 - 100%	0..255
32		Blue	Color mixing system - Blue	0 - 100%	0..255
33		White	Color mixing system - White	0 - 100%	0..255
34	**Pixel 13&14**	Red	Color mixing system - Red	0 - 100%	0..255
35		Green	Color mixing system - Green	0 - 100%	0..255
36		Blue	Color mixing system - Blue	0 - 100%	0..255
37		White	Color mixing system - White	0s - 100%	0..255
38	**Pixel 15&16**	Red	Color mixing system - Red	0 - 100%	0..255
39		Green	Color mixing system - Green	0 - 100%	0..255
40		Blue	Color mixing system - Blue	0 - 100%	0..255
41		White	Color mixing system - White	0 - 100%	0..255
42	**Pixel 17&18**	Red	Color mixing system - Red	0 - 100%	0..255
43		Green	Color mixing system - Green	0 - 100%	0..255
44		Blue	Color mixing system - Blue	0 - 100%	0..255
45		White	Color mixing system - White	0 - 100%	0..255
46	**Pixel 19&20**	Red	Color mixing system - Red	0 - 100%	0..255
47		Green	Color mixing system - Green	0 - 100%	0..255
48		Blue	Color mixing system - Blue	0 - 100%	0..255
49		White	Color mixing system - White	0 - 100%	0..255

Special Functions Channel, All Modes

Function	Notes	Saved	DMX
Special functions off	Normal color mixing and priority.	no	0..3
Reverse color priority	Not available in SPix, DPix, SPixH, or DPixH modes.	no	4..7
Reverse color mixing		no	8..11
To execute following commands, take special functions channel to DMX value 0, then set and hold function value 3 for seconds.			
Tilt slow mode off	Set shutter to 48..49 and intensity to 50..59 (12800..15104 at high resolution). Requires Tilt Firmware V.20 or later.[*]	yes	120..123
Tilt slow mode on		yes	124..127
Tilt current off		yes	128..131
Tilt current on		yes	132..135
Tilt reset off		yes	136..139
Tilt reset on		yes	140..143
Display Flip off		yes	144..147
Display Flip on		yes	148..151
DMX Mode DPixH (HiRes)	Set shutter to 48..49 and intensity to 50..59 (12800..15104 at high resolution)	yes	152..155
DMX Mode SPixH (HiRes)		yes	156..159
DMX Mode High Resolution		yes	160..163
DMX Mode Normal		yes	164..167
DMX Mode Compressed		yes	168..171
DMX Mode DPix		yes	172..175
DMX Mode SPix		yes	176..179
Dimmer Curve ESoft		yes	180..183
Dimmer Curve Soft		yes	184..187
Dimmer Curve Lin		yes	188..191
X4 Compatibility off		yes	192..195
X4 Compatibility on		yes	196..199
Silent-Mode off		yes	200..203
Silent-Mode on		yes	204..207
Position Feedback off		yes	208..211
Position Feedback on		yes	212..215
DMX holf off		yes	216..219
DMX hold on		yes	220..223
Tilt inverse off		yes	224..227
Tilt inverse on		yes	228..231
Pixel inverse off		yes	232..235
Pixel inverse on		yes	236..239
Zoom inverse off		yes	240..243
Zoom inverse on		yes	244..247
Fixture default	Set shutter to 48..49 and intensity to 50..59 (12800..15104 at high resolution)	yes	248..251
Fixture reset		no	252..255

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[*] For further information please contact your local GLP dealer or GLP support center.

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**

Dimensions