

# DMX Channel Index

impression<sup>®</sup>  
X4BAR



20

from software version: v0.60



**GERMAN LIGHT  
PRODUCTS**

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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



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

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

Channel	Function	Time and Value	DMX
<b>1 None</b>	reserved		-
<b>2 None</b>	reserved		-
<b>3 Tilt - High</b>	Tilt coarse	0° - 210°	0..255
<b>4 Tilt - Low</b>	Tilt fine		0..255
<b>5 Set 1 Color (fixed)</b>	Colors adjustable via RGB		0..7
	Color 01 - Red <sup>1)</sup>		8..15
	Color 02 - Amber <sup>1)</sup>		16..23
	Color 03 - Warm Yellow <sup>1)</sup>		24..31
	Color 04 - Yellow <sup>1)</sup>		32..39
	Color 05 - Green <sup>1)</sup>		40..47
	Color 06 - Turquoise <sup>1)</sup>		48..55
	Color 07 - Cyan <sup>1)</sup>		56..63
	Color 08 - Blue <sup>1)</sup>		64..71
	Color 09 - Lavender <sup>1)</sup>		72..79
	Color 10 - Malve <sup>1)</sup>		80..87
	Color 11 - Magenta <sup>1)</sup>		88..95
	Color 12 - Pink <sup>1)</sup>		96..103
	White - CTO	3200K	104..111
	White	5600K	112..119
	White - CTB	7200K	120..127
Rainbow Effect Stop <sup>2)</sup>		128	
Rainbow Effect <sup>3)</sup>	slow - fast	129..223	
Random colors	slow - fast	224..255	
<b>6 Set 1 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>7 Set 1 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>8 Set 1 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>9 Set 1 White</b>	Color mixing system - White	0 - 100%	0..255
<b>10 Shutter</b>	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
<b>11 Intensity</b>	Intensity	0 - 100%	0..255

<b>12 CTO</b>	No CTO Continuous color temperature correction	Applicable for ALL colors	0..7 8..255
<b>13 Special <sup>5)</sup></b>	See special features below <sup>5)</sup>	-	-
<b>14 Crossfade</b>	0..2 seconds transition time		0..255
<b>15 Set 1 Pattern Movement</b>			0..255
<b>16 Zoom</b>	Wide (flood) - narrow (spot)	50° - 7°	0..255
<b>17 Set 1 Pattern Select</b>			0..255
<b>18 Pixel Select 1 - 8</b>			0..255
<b>19 Pixel Select 9 - 16</b>			0..255
<b>20 Pixel Select 17 - 20</b>			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		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 <sup>1)</sup>		8..15
	Color 02 - Amber <sup>1)</sup>		16..23
	Color 03 - Warm Yellow <sup>1)</sup>		24..31
	Color 04 - Yellow <sup>1)</sup>		32..39
	Color 05 - Green <sup>1)</sup>		40..47
	Color 06 - Turquoise <sup>1)</sup>		48..55
	Color 07 - Cyan <sup>1)</sup>		56..63
	Color 08 - Blue <sup>1)</sup>		64..71
	Color 09 - Lavender <sup>1)</sup>		72..79
	Color 10 - Malve <sup>1)</sup>		80..87
	Color 11 - Magenta <sup>1)</sup>		88..95
	Color 12 - Pink <sup>1)</sup>		96..103
	White - CTO	3200K	104..111
	White	5600K	112..119
White - CTB	7200K	120..127	
Rainbow Effect Stop <sup>2)</sup>		128	
Rainbow Effect <sup>3)</sup>	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	1 Hz - 10 Hz	200..239
	Shutter open		240..255
<b>12 Intensity - High</b>	Intensity - coarse	0 - 100%	0..255
<b>13 Intensity - Low</b>	Intensity - fine	-	0..255
<b>14 Special <sup>5)</sup></b>	See special features below <sup>5)</sup>	-	-
<b>15 Set 2 Color <sup>4)</sup></b>	Values see Channel 5	-	-
<b>16 Set 2 Red <sup>4)</sup></b>	Color mixing system - Red	0 - 100%	0..255
<b>17 Set 2 Green <sup>4)</sup></b>	Color mixing system - Green	0 - 100%	0..255
<b>18 Set 2 Blue <sup>4)</sup></b>	Color mixing system - Blue	0 - 100%	0..255
<b>19 Set 2 White <sup>4)</sup></b>	Color mixing system - White	0 - 100%	0..255
<b>20 Set 2 Intensity <sup>4)</sup></b>	Intensity	0 - 100%	0..255
<b>21 Set 3 Color <sup>4)</sup></b>	Values see Channel 5	-	-
<b>22 Set 3 Red <sup>4)</sup></b>	Color mixing system - Red	0 - 100%	0..255
<b>23 Set 3 Green <sup>4)</sup></b>	Color mixing system - Green	0 - 100%	0..255
<b>24 Set 3 Blue <sup>4)</sup></b>	Color mixing system - Blue	0 - 100%	0..255
<b>25 Set 3 White <sup>4)</sup></b>	Color mixing system - White	0 - 100%	0..255
<b>26 Set 3 Intensity <sup>4)</sup></b>	Intensity	0 - 100%	0..255
<b>27 Crossfade</b>	0..2 seconds transition time		0..255
<b>28 Star Effect</b>	Random internal shutter effect	slow – fast	0..255
<b>29 Set 1 Pattern Select</b>			0..255
<b>30 Set 1 Pattern Movement</b>			0..255
<b>31 Set 2 Pattern Select</b>			0..255
<b>32 Set 2 Pattern Movement</b>			0..255
<b>33 Pixel Select 1 - 8</b>			0..255
<b>34 Pixel Select 9 - 16</b>			<b>0..255</b>
<b>35 Pixel Select 17 - 20</b>			0..255



#### 4 Dual Pixel Mode (dpix) 48 DMX Channels:

Channel	Function	Time and Value	DMX
<b>1 Tilt - High</b>	Tilt coarse	0° - 210°	0..255
<b>2 Tilt - Low</b>	Tilt fine		0..255
<b>3 Shutter</b>	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
<b>4 Intensity</b>	Intensity	0 - 100%	0..255
<b>5 CTO</b>	No CTO		0..7
	Continuous color temperature correction	Applicable for ALL colors	8..255
<b>6 Special <sup>5)</sup></b>	See special features below <sup>5)</sup>	-	-
<b>7 Crossfade</b>	0..2 seconds transition time		0..255
<b>8 Zoom</b>	Wide (flood) - narrow (spot)	50° - 7°	0..255
<b>9 Set 1&amp;2 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>10 Set 1&amp;2 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>11 Set 1&amp;2 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>12 Set 1&amp;2 White</b>	Color mixing system - White	0 - 100%	0..255
<b>13 Set 3&amp;4 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>14 Set 3&amp;4 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>15 Set 3&amp;4 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>16 Set 3&amp;4 White</b>	Color mixing system - White	0 - 100%	0..255
<b>17 Set 5&amp;6 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>18 Set 5&amp;6 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>19 Set 5&amp;6 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>20 Set 5&amp;6 White</b>	Color mixing system - White	0 - 100%	0..255
<b>21 Set 7&amp;8 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>22 Set 7&amp;8 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>23 Set 7&amp;8 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>24 Set 7&amp;8 White</b>	Color mixing system - White	0 - 100%	0..255
<b>25 Set 9&amp;10 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>26 Set 9&amp;10 Green</b>	Color mixing system - Green	0 - 100%	0..255

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

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

Channel	Function	Time and Value	DMX
<b>1 Tilt - High</b>	Tilt coarse	0° - 210°	0..255
<b>2 Tilt - Low</b>	Tilt fine		0..255
<b>3 Shutter</b>	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
<b>4 Intensity - High</b>	Intensity - coarse	0 - 100%	0..255
<b>5 Intensity - Low</b>	Intensity - fine	-	0..255
<b>6 CTO</b>	No CTO		0..7
	Continuous color temperature correction	Applicable for ALL colors	8..255
<b>7 Special <sup>5)</sup></b>	See special features below <sup>5)</sup>	-	-
<b>8 Crossfade</b>	0..2 seconds transition time		0..255
<b>9 Zoom</b>	Wide (flood) - narrow (spot)	50° - 7°	0..255
<b>10 Set 1&amp;2 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>11 Set 1&amp;2 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>12 Set 1&amp;2 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>13 Set 1&amp;2 White</b>	Color mixing system - White	0 - 100%	0..255
<b>14 Set 3&amp;4 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>15 Set 3&amp;4 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>16 Set 3&amp;4 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>17 Set 3&amp;4 White</b>	Color mixing system - White	0 - 100%	0..255
<b>18 Set 5&amp;6 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>19 Set 5&amp;6 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>20 Set 5&amp;6 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>21 Set 5&amp;6 White</b>	Color mixing system - White	0 - 100%	0..255
<b>22 Set 7&amp;8 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>23 Set 7&amp;8 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>24 Set 7&amp;8 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>25 Set 7&amp;8 White</b>	Color mixing system - White	0 - 100%	0..255
<b>26 Set 9&amp;10 Red</b>	Color mixing system - Red	0 - 100%	0..255

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

## 6 Single Pixel Mode (spix) 88 DMX Channels:

Channel	Function	Time and Value	DMX
<b>1 Tilt - High</b>	Tilt coarse	0° - 210°	0..255
<b>2 Tilt - Low</b>	Tilt fine		0..255
<b>3 Shutter</b>	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
<b>4 Intensity</b>	Intensity	0 - 100%	0..255
<b>5 CTO</b>	No CTO		0..7
	Continuous color temperature correction	Applicable for ALL colors	8..255
<b>6 Special <sup>5)</sup></b>	See special features below <sup>5)</sup>	-	-
<b>7 Crossfade</b>	0..2 seconds transition time		0..255
<b>8 Zoom</b>	Wide (flood) - narrow (spot)	50° - 7°	0..255
<b>9 Set 1 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>10 Set 1 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>11 Set 1 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>12 Set 1 White</b>	Color mixing system - White	0 - 100%	0..255
<b>13 Set 2 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>14 Set 2 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>15 Set 2 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>16 Set 2 White</b>	Color mixing system - White	0 - 100%	0..255
<b>17 Set 3 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>18 Set 3 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>19 Set 3 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>20 Set 3 White</b>	Color mixing system - White	0 - 100%	0..255
<b>21 Set 4 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>22 Set 4 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>23 Set 4 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>24 Set 4 White</b>	Color mixing system - White	0 - 100%	0..255
<b>25 Set 5 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>26 Set 5 Green</b>	Color mixing system - Green	0 - 100%	0..255

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

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

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

Channel	Function	Time and Value	DMX
<b>1 Tilt - High</b>	Tilt coarse	0° - 210°	0..255
<b>2 Tilt - Low</b>	Tilt fine		0..255
<b>3 Shutter</b>	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
<b>4 Intensity - High</b>	Intensity - coarse	0 - 100%	0..255
<b>5 Intensity - Low</b>	Intensity - fine	-	0..255
<b>6 CTO</b>	No CTO		0..7
	Continuous color temperature correction	Applicable for ALL colors	8..255
<b>7 Special <sup>5)</sup></b>	See special features below <sup>5)</sup>	-	-
<b>8 Crossfade</b>	0..2 seconds transition time		0..255
<b>9 Zoom</b>	Wide (flood) - narrow (spot)	50° - 7°	0..255
<b>10 Set 1 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>11 Set 1 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>12 Set 1 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>13 Set 1 White</b>	Color mixing system - White	0 - 100%	0..255
<b>14 Set 2 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>15 Set 2 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>16 Set 2 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>17 Set 2 White</b>	Color mixing system - White	0 - 100%	0..255
<b>18 Set 3 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>19 Set 3 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>20 Set 3 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>21 Set 3 White</b>	Color mixing system - White	0 - 100%	0..255
<b>22 Set 4 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>23 Set 4 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>24 Set 4 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>25 Set 4 White</b>	Color mixing system - White	0 - 100%	0..255
<b>26 Set 5 Red</b>	Color mixing system - Red	0 - 100%	0..255

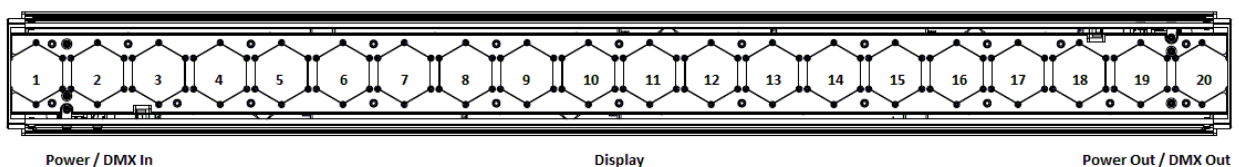


<b>27 Set 5 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>28 Set 5 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>29 Set 5 White</b>	Color mixing system - White	0 - 100%	0..255
<b>30 Set 6 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>31 Set 6 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>32 Set 6 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>33 Set 6 White</b>	Color mixing system - White	0 - 100%	0..255
<b>34 Set 7 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>35 Set 7 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>36 Set 7 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>37 Set 7 White</b>	Color mixing system - White	0 - 100%	0..255
<b>38 Set 8 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>39 Set 8 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>40 Set 8 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>41 Set 8 White</b>	Color mixing system - White	0 - 100%	0..255
<b>42 Set 9 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>43 Set 9 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>44 Set 9 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>45 Set 9 White</b>	Color mixing system - White	0 - 100%	0..255
<b>46 Set 10 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>47 Set 10 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>48 Set 10 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>49 Set 10 White</b>	Color mixing system - White	0 - 100%	0..255
<b>50 Set 11 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>51 Set 11 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>52 Set 11 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>53 Set 11 White</b>	Color mixing system - White	0 - 100%	0..255
<b>54 Set 12 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>55 Set 12 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>56 Set 12 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>57 Set 12 White</b>	Color mixing system - White	0 - 100%	0..255
<b>58 Set 13 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>59 Set 13 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>60 Set 13 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>61 Set 13 White</b>	Color mixing system - White	0 - 100%	0..255
<b>62 Set 14 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>63 Set 14 Green</b>	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 <sup>1)</sup> 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	
<b>The following switch boxes only work if special channel has been enabled with DMX value zero (0) before:</b>					
120	123	3 seconds	Tilt slow mode off	yes	Only if shutter=48..49 and intensity=50..59 (12800..15104 at high resolution).  Requires Tilt Firmware V.20 or later. <sup>6)</sup>
124	127	3 seconds	Tilt slow mode on	yes	
128	131	3 seconds	Tilt current off	yes	
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	
156	159	3 seconds	DMX Mode SPixH (HiRes)	yes	
160	163	3 seconds	DMX Mode High Resolution	yes	Only if shutter=48..49 and intensity=50..59 (12800..15104 at high resolution)
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 half 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	Only if shutter=48..49 and intensity=50..59 (12800..15104 at high resolution)
244	247	3 seconds	Zoom inverse on	yes	
248	251	3 seconds	Fixture default	yes	
252	255	3 seconds	Fixture reset	no	

<sup>6)</sup> For further information please contact your local GLP dealer or GLP support center

## 8 Technical Specifications:

<b>Power supply</b>	
<b>Power consumption</b>	450 VA (Watt)
<b>Power Input</b>	Auto sensing 100-240 V AC, 50-60 Hz
<b>Fuse protection</b>	Micro-fuse 5x20 mm, T5A
<b>Operational Parameters</b>	
<b>Max. Ambient Temperature</b>	5° - 45°C (integrated overheating switch) 40°-113°F
<b>Mounting Position</b>	Any (see relevant chapter in the manual)
<b>Lighting System - Additive Color mixing</b>	
<b>LED Type</b>	20 x Osram Ostar RGBW multi-chip
<b>Lifetime</b>	50,000 h
Wavelength optimized for maximum presentable color space	
<b>Optical System</b>	
Full RGBW / High efficient Collimator cluster Exchangeable diffuser filters available (optional).	
<b>Shutter / Dimmer (8/16 Bit)</b>	
Strobe- Effect with variable speed between 1-10 flashes per second, Random- & Pulse-Effects Continuous Dimmer 0 - 100%	
<b>Zoom</b>	
7 to 50 degree continuous high speed zoom	
<b>Optical Patterns</b>	
Several pre-defined beam patterns with direct access and manipulation. Free control of every pixel, color and intensity	
<b>DMX Control</b>	
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].	
<b>Tilt (8/16 Bit)</b>	
<b>Tilt- movement</b>	210° in min. 1.5 seconds (Position Feedback)
<b>Weights and Measures</b>	
<b>Length</b>	1000 mm / 39.4''
<b>Width</b>	100 mm / 3.9''
<b>Height</b>	240 mm / 9.4''
<b>Weight (net)</b>	14.5 kg / 32 lbs
<b>Weight with 2 brackets</b>	16 kg / 35 lbs

## 9 Dimensions

