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MX Channel Index



from software version 1.24/30 (DMX manual version 1.3)



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DMX Channel Selection (DMX Protocol)

Normal-Mode 15 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-	0 660°	3,2 s	0255	00FF	0100
coarse					
2) PAN-fine	High- Pos High- Pos + 2,6°(16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 300°	1,5 s	0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)		0255	00F F	0100
5) Color	Colors adjustable via RGB		07	0007	02,5
(fixed)	Color 01 - Red 1)		815	080F	35,5
(Color 02 - Amber 1)		1623	1017	68,5
	Color 03 - Warm Yellow 1)		2431	181F	912,5
	Color 04 - Yellow 1)		3239	2027	1315,5
	Color 05 - Green 1)		4047	282F	1618,5
	Color 06 - Turquoise 1)		4855	3037	1921,5
	Color 07 - Cyan 1)		5663	383F	2224,5
	Color 08 - Blue 1)		6471	4047	2527,5
	Color 09 - Lavender 1)		7279	484F	2830,5
	Color 10 - Mauve 1)		8087	5057	3134,5
	Color 11 - Magenta 1)		8895	585F	3537,5
	Color 12 - Pink 1)		96103	6067	3840,5
	White - CTO	Color temperature 3200K	104111	686F	4143,5
	White	Color temperature 5600K	112119	7077	4446,5
	White - CTB	Color temperature 7200K	120127	787F	4749,5
	Rainbow Effect Stop 2)		128	80	50
	Rainbow Effect 3)	slow - fast	129223	81DF	5188
	Rainbow Effect, random colors	slow - fast	224.255	E=FF	89100
6) Red	Color mixing system - Red	0 - 100%	0255	00FF	0100
7) Green	Color mixing system - Green	0 - 100%	0255	00FF	0100
8) Blue	Color mixing system - Blue	0 - 100%	0255	00FF	0100
9) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	304F	1931
	Shutter open then down-dimming (random patterns)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	708F	4456
	Strobe effect pause	5s 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240255	F0FF	95100
10) Dimmer	Dimmer	0 - 100%	0255	0FF	0100
11) Color	No color temperature correction		06	006	02
temperature	Continuous color temperature correction between 3200k - 7200k	Applicable only for ALL colors 5)	7255	07FF	3100
12) Special	Max. Power-Mode 4)	Max. light output without white balance	015	00F	05,5
	White-Mode ⁴⁾	White balance used	1631	101F	612,5

Channel	Function			Time and Value	DMX	HEX	%
	Theater Mod	de ON ⁶⁾		Mode ON	3235	2023	1314
	Theater Mod	de OFF ⁶⁾		Mode OFF	3639	2427	1415
	K2 Mode Of	V 6)		Mode ON	4043	282B	1617
	White Mode OFF ⁶⁾ White Mode ON ⁶⁾ White Mode OFF ⁶⁾ RGB value spreading ON ⁶⁾			Mode OFF	4447	2C2F	17,519
				Mode ON	4851	3033	1920
				Mode OFF	5255	3437	20,521
				Mode ON	5659	383B	2223,5
		spreading OFF	6)	Mode OFF	6063	3C3F	2425
	Reverse Tilt			Mode ON	6467	4043	25,527
	Reverse Tilt OFF 6)			Mode OFF	6871	4447	27,5 28,5
	Reverse Pa			Mode ON	7275	484B	29
	Reverse Pan OFF 6)			Mode OFF	7679	4C4F	30,5 31,5
	Fan min. as	long as temp.	< 90℃		224229	E0E5	8889,5
	RESET (Normal Mode)				250255	FAFF	98100
13) Move-	No moveme	ent			0	00	0
ment	Movement	Size	Phase				
	PAN	1	0°		0101	0101	0,5
		1	90°		0203	0203	1,0
		1	180°		0405	0405	1,7
		1	270°		0607	0607	2,5
	PAN	2	0°		0809	0809	3,3
		2	90°		1011	0A0B	4,1
		2	180°		1213	0C0D	4,9
		2	270°		1415	0E0F	5,7
	PAN	3	0°		1617	1111	6,5
		3	90°		1819	1213	7,3
		3	180°		2021	1415	8,0
		3	270°		2223	1617	8,8
	PAN	4	0°		2425	1819	9,6
		4	90°		2627	1A1B	10,4
		4	180°		2829	1C1D	11,2
		4	270°		3031	1E1F	12
	TILT		size / phase	see also PAN	3263	203F	1325
	PAN / TILT			see also PAN	6495	405F	2637
	PAN / TILT	(inverse)		see also PAN	96127	607F	3850
	Circle Circle (inverse) Lying eight Random movement		size / phase see also PAN		128159	809F	5162
			size / phase see also PAN		160191	A0BF	6375
			size / phase	see also PAN	192223	C0DF	7687
			size see als	o PAN	224255	E0FF	88100
14) Speed		ative movemen	t		01	0001	00,5
Pan/Tilt	Pan/Tilt slow – fast			Pan Min. 660°= 200s	2255	02FF	1100
	Use this channel 14) also for the speed			Pan Max. 660°= 3,2s			
	of the movements (channel 13).			Tilt Min. 300°= 110s			
			•	Tilt Max. 300°= 1,5s			
15) Zoom	Spot - Flood	1		10°- 26°	0255	00FF	0100





4) Max. Power-Mode vs. White-Mode

The **IMPRESSION** can regard the white-balance adjustments for each individual color setting. Whether the White-Mode is used with RGB can be selected in the **Normal DMX-Mode** during operation with the Special DMX channel. If the Special channel is set to a value between DMX 0..15, the White-Mode is not used and the RGB goes for the maximum light output. If the Special channel is set to a value between DMX 16..31, the white balance is used for the RGB output.

Since there is no Special DMX channel in the **Compress DMX-Mode**, the possibility exists to likewise select these settings also in the display menu. Is the White-Mode set to "ON", the white-balance is activated. If the White-Mode is set to "OFF", the RGB goes for the maximum light output (Max. Power-Mode).

5) Color Temperature

The **Impression** allows the color correction at anytime to the RGB colors. Whether the White mode will use, can affect with the special channel.

In the compressed mode is no special channel, here you can set up the mode in the menu at the **Impression**. Will the white mode set to "ON", it will run in compressed mode or in normal mode if the special channel is at "0".

If now in the special channel will adjust a value between \$10..\$1F, it will expensed the max power in RGB. Is the white mode "OFF" and special at "0" or the **Impression** is in compressed mode, RGB will expensed the max power.

If now the special channel is set up to a value between \$10..\$1F, the white adjust will used in RGB.

6) Switch Box

The Switch-Box allows you to select DMX menu functions with the special channel. The changeover is only possible, if the dimmer and the shutter channel are at "0". Then the special channel has to release for min. 0,5s the DMX value that's selected for the function.

For example:

The tilt channel wants to invert from the lighting desk. First, the dimmer and shutter have to set up to "0". Then the special channel has to set up to the value 64 (HEX40) for min. 0,5s.

To clear the invert of tilt, it has to send the value 68 on the special channel.

After set up a function, it can set up other functions. It's possible to use some functions together.

Changes from the special channel will not save into the **Impression**.





Compress-Mode 11 DMX channels

Channel	Function	Time and Value	e DMX		%
1) PAN-	0 660°	3,2 s	0255	00FF	0100
coarse					
2) PAN-fine	High- Pos High- Pos + 2,6°(16 Bit)		0255	00FF	0100
3) Tilt-	0 300°	1,5 s	0255	00FF	0100
coarse					
4) Tilt-fine	High- Pos High- Pos + 1,2° (16 Bit)		0255	00FF	0100
5) Color	Colors adjustable via RGB		07	0007	02,5
(fixed)	Color 01 - Red 1)		815	080F	35,5
	Color 02 - Amber 1)		1623	1017	68,5
	Color 03 - Warm Yellow 1)		2431	181F	912,5
	Color 04 - Yellow 1)		3239	2027	1315,5
	Color 05 - Green 1)		4047	282F	1618,5
	Color 06 - Turquoise 1)		4855	3037	1921,5
	Color 07 - Cyan 1)		5663	383F	2224,5
	Color 08 - Blue 1) Color 09 - Lavender 1)		6471 7279	4047 484F	2527,5 2830,5
	Color 10 - Mauve 1)		8087	5057	3134,5
	Color 11 - Magenta 1)		8895	585F	3537,5
	Color 12 - Pink 1)		96103	6067	3840,5
	White - CTO	Color temperature	104111	686F	4143,5
		3200K		00.101	
	White	Color temperature	112119	7077	4446,5
		5600K			
	White - CTB	Color temperature	120127	787F	4749,5
	2)	7200K			
	Rainbow Effect Stop 2)		128	80	50
	Rainbow Effect 3)	slow - fast	129223	81DF	5188
	Rainbow Effect, random colors	slow - fast	224.255	E0FF	89100
6) Red	Color mixing system - Red	0 - 100%	0255	00FF	0100
7) Green	Color mixing system - Green	0 - 100%	0255	00FF	0100
8) Blue	Color mixing system - Blue	0 - 100%	0255	00FF	0100
9) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing	slow - fast	4879	304F	1931,5
	(random patterns)	alow foot	00 111	FO CE	22 42
	Shutter open then down-dimming (random patterns)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming	slow - fast	112143	708F	4456
	(random patterns)	310W Tast	112170	7001	4450
	Strobe effect pause	5s 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240249	F0F9	9597,5
	RESET	Min. 3 Sec.	250	FA	98
	Shutter open		251255	FBFF	99100
10) Dimmer	Dimmer	0 - 100%	0255	0FF	0100
11) Zoom	Spot - Flood	10°- 26°	0 255	00FF	0100



High Resolution (Extended) - Mode 14 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°	3,2 s	0255	00FF	0100
2) PAN-fine	High- Pos High- Pos + 2,6° (16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 300°	1,5 s	0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2° (16 Bit)		0255	00FF	0100
5) Red- coarse	Color mixing system – Red	0 - 100%	0255	00FF	0100
6) Red-fine	Color mixing system – Red-Low		0255	00FF	0100
7) Green- coarse	Color mixing system – Green	0 - 100%	0255	00FF	0100
8) Green- fine	Color mixing system – Green-Low		0255	00FF	0100
9) Blue- coarse	Color mixing system – Blue	0 - 100%	0255	00FF	0100
10) Blue-fine	Color mixing system – Blue-Low		0255	00FF	0100
11) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	304F	1931,5
	Shutter open then down-dimming (random patterns)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	708F	4456
	Strobe effect pause	5s to 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240249	F0F9	9597,5
	RESET	Min. 3 Sec.	250	FA	98
40) D:	Shutter open	0 4000/	251255	FBFF	99100
12) Dimmer- coarse	Dimmer	0 - 100%	0255	0FF	0100
13) Dimmer- fine	Dimmer - Low		0255	0FF	0100
14) Zoom	Spot - Flood	10°- 26°	0255	00FF	0100

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 **Impressions** will afterwards start from that color and will execute the rainbow effect synchronously. Different **Impressions** can certainly have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the once 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 with the current color.

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



Locking and unlocking the Control Panel

Please lock and unlock the control panel by pressing the menu keys MODE & ENTER & UP at the same time.

Additional features during switching-ON the system

- a) 1200Hz Mode (Hold down the **UP- button** during power ON)
 - After switching ON the system the LEDs will be operated with a Pulse Width Modulation (PWM) of 1200Hz.
 - In addition all standard setting will be loaded (DMX start address [001], Normal Mode).
- b) 600Hz Mode (Hold down the **DOWN- button** during power ON) After switching ON the system the LEDs will be operated with a Pulse Width Modulation (PWM) of 600Hz.
 - In addition all standard setting will be loaded (DMX start address [001], Normal Mode).
- c) Standard Mode (Hold down the ENTER- button during power ON) After switching ON the system the DMX start address will be set to [001]. All other setting remain unchanged.

Additional Display Indications

As a default you'll find the following additional information in the first row of the LCD display:





