

impression<sup>®</sup>  
X4

# DMX Channel Index



from software version: 1.18/18/12/10/n  
Rev. C



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**Normal - Mode 20 DMX channels**

Channel	Function	Time and Value	DMX	%
<b>1) PAN-coarse</b>	0 .. 623°	3,2s	0..255	0..100
<b>2) PAN-fine</b>			0..255	0..100
<b>3) Tilt-coarse</b>	0 .. 295°	1,5s	0..255	0..100
<b>4) Tilt-fine</b>			0..255	0..100
<b>5) Color (fixed)</b>	Colors adjustable via RGB		0..7	0..2..5
	Color 01 - Red <sup>1)</sup>		8..15	3..5.5
	Color 02 - Amber <sup>1)</sup>		16..23	6..8.5
	Color 03 - Warm Yellow <sup>1)</sup>		24..31	9..12.5
	Color 04 - Yellow <sup>1)</sup>		32..39	13..15.5
	Color 05 - Green <sup>1)</sup>		40..47	16..18.5
	Color 06 - Turquoise <sup>1)</sup>		48..55	19..21.5
	Color 07 - Cyan <sup>1)</sup>		56..63	22..24.5
	Color 08 - Blue <sup>1)</sup>		64..71	25..27.5
	Color 09 - Lavender <sup>1)</sup>		72..79	28..30.5
	Color 10 - Malve <sup>1)</sup>		80..87	31..34.5
	Color 11 - Magenta <sup>1)</sup>		88..95	35..37.5
	Color 12 - Pink <sup>1)</sup>		96..103	38..40.5
	White - CTO	3200K	104..111	41..43.5
	White	5600K	112..119	44..46.5
	White - CTB	7200K	120..127	47..49.5
Rainbow Effect Stop <sup>2)</sup>		128	50	
Rainbow Effect <sup>3)</sup>	slow - fast	129..223	51..88	
Random colors	slow - fast	224..255	89..100	
<b>6) Red</b>	Color mixing system - Red	0 - 100%	0..255	0..100
<b>7) Green</b>	Color mixing system - Green	0 - 100%	0..255	0..100
<b>8) Blue</b>	Color mixing system - Blue	0 - 100%	0..255	0..100
<b>9) White</b>	Color mixing system - White	0 - 100%	0..255	0..100
<b>10) Shutter</b>	Shutter closed		0..15	0..5.5
	Shutter pulse random	slow – fast	16..47	6..18.5
	Up-dimming then Shutter closing (random patterns)	slow – fast	48..79	19..31
	Shutter open then down-dimming (random patterns)	slow – fast	80..111	32..43
	Up-dimming then down-dimming (random patterns)	slow – fast	112..143	44..56
	Strobe effect pause	5s - 0.1s	160..199	63..77
	Strobe effect slow - fast	1 Hz - 10 Hz	200..239	78..94
	Shutter open		240..255	95..100
<b>11) Dimmer</b>	Dimmer	0 - 100%	0..255	0..100
<b>12) CTO</b>	No CTO		0..7	0..2.5
	Continuous color temperature correction	Applicable for ALL colors	8..255	3..100
<b>13) Special</b>	Pattern Block 1 → channel 17		0..3	0..1
	Pattern Block 2 → channel 17		4..7	1.5..2.5
	PWM lower	~ 582 Hz .. ~ 600Hz	100..149	39..57
	PWM (Default)	600Hz	150	58
	PWM higher	~ 600 Hz .. ~ 618 Hz	151..200	59..78
	<b>RESET</b>			250..255

Channel	Function	Time and Value	DMX	%		
<b>14) Movement</b>	<b>No macros</b>		0	0		
<b>macros</b>	<b>Move ment</b>	<b>Size</b>	<b>Phase</b>	Use "Speed" to adjust		
	PAN	1	0°		01..01	0.5
		1	90°		02..03	1.0
		1	180°		04..05	1.7
		1	270°		06..07	2.5
	PAN	2	0°		08..09	3.3
		2	90°		10..11	4.1
		2	180°		12..13	4.9
		2	270°		14..15	5.7
	PAN	3	0°		16..17	6.5
		3	90°		18..19	7.3
		3	180°		20..21	8.0
		3	270°		22..23	8.8
	PAN	4	0°		24..25	9.6
		4	90°		26..27	10.4
		4	180°		28..29	11.2
		4	270°		30..31	12
		TILT	size / phase see PAN		32..63	13..25
		PAN / TILT	size / phase see PAN		64..95	26..37
		PAN / TILT (inverse)	size / phase see PAN		96..127	38..50
	Circle	size / phase see PAN		128..159	51..62	
	Circle (inverse)	size / phase see PAN		160..191	63..75	
	Lying eight	size / phase see PAN		192..223	76..87	
	Random movement	size / phase see PAN		224..255	88..100	
<b>15) Speed</b>	Pan/Tilt movement speed from controller		0..1	0..0.5		
<b>Pan/Tilt</b>	Pan/Tilt, slow – fast Use this channel also for the speed of the movements (channel 14).		02..255	1..100		
<b>16) Zoom</b>	Wide - narrow (spot)		0...255	0...100		
<b>17) Pattern</b>	No pattern		0..2	0..1		
	250 pre-defined patterns (see appendix A)		03..253	2..99		
	Activates direct access to LED Pattern	See channels 18-20	254..255	100		
<b>18) Pattern Byte 1</b>	Direct access to Pattern of LED 1..8		0...255	0...100		
<b>19) Pattern Byte 2</b>	Direct access to Pattern of LED 9..16		0...255	0...100		
<b>20) Pattern Byte 3</b>	Direct access to Pattern of LED 17..19		0..07	0..2.5		

### Compress-Mode 14 DMX channels

Channel	Function	Time and Value	DMX	%
<b>1) PAN-coarse</b>	0 .. 623°	3,2s	0..255	0..100
<b>2) PAN-fine</b>			0..255	0..100
<b>3) Tilt-coarse</b>	0 .. 295°	1,5s	0..255	0..100
<b>4) Tilt-fine</b>			0..255	0..100

Channel	Function	Time and Value	DMX	%	
<b>5) Color (fixed)</b>	Colors adjustable via RGB		0..7	0..2.5	
	Color 01 - Red <sup>1)</sup>		8..15	3..5.5	
	Color 02 - Amber <sup>1)</sup>		16..23	6..8.5	
	Color 03 - Warm Yellow <sup>1)</sup>		24..31	9..12.5	
	Color 04 - Yellow <sup>1)</sup>		32..39	13..15.5	
	Color 05 - Green <sup>1)</sup>		40..47	16..18.5	
	Color 06 - Turquoise <sup>1)</sup>		48..55	19..21.5	
	Color 07 - Cyan <sup>1)</sup>		56..63	22..24.5	
	Color 08 - Blue <sup>1)</sup>		64..71	25..27.5	
	Color 09 - Lavender <sup>1)</sup>		72..79	28..30.5	
	Color 10 - Mauve <sup>1)</sup>		80..87	31..34.5	
	Color 11 - Magenta <sup>1)</sup>		88..95	35..37.5	
	Color 12 - Pink <sup>1)</sup>		96..103	38..40.5	
	White - CTO	Color temperature 3200K		104..111	41..43.5
	White	Color temperature 5600K		112..119	44..46.5
White - CTB	Color temperature 7200K		120..127	47..49.5	
Rainbow Effect Stop <sup>2)</sup>			128	50	
Rainbow Effect <sup>3)</sup>	slow - fast		129..223	51..88	
Rainbow Effect, random colors	slow - fast		224..255	89..100	
<b>6) Red</b>	Color mixing system - Red	0 - 100%	0..255	0..100	
<b>7) Green</b>	Color mixing system - Green	0 - 100%	0..255	0..100	
<b>8) Blue</b>	Color mixing system - Blue	0 - 100%	0..255	0..100	
<b>9) White</b>	Color mixing system - White	0 - 100%	0..255	0..100	
<b>10) Shutter</b>	Shutter closed		0..15	0..5.5	
	Random Pulse effect	slow - fast	16..47	6..18.5	
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	19..31.5	
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	32..43	
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	44..56	
	Strobe effect pause	5s .. 1s	144..199	57..77	
	Strobe effect, slow - fast	1 Hz .. 10 Hz	200..239	78..94	
	Shutter open		240..249	95..97.5	
	Shutter open		251..255	99..100	
<b>11) Dimmer</b>	Dimmer	0 - 100%	0..255	0..100	
<b>12) Zoom</b>	Wide - narrow (spot)		0..255	0..100	
<b>13) Special</b>	Pattern Block 1 → channel 14		0..3	0..1	
	Pattern Block 2 → channel 14		4..7	1.5..2.5	
	PWM lower	~ 582 Hz .. ~ 600Hz	100..149	39..57	
	PWM (Default)	600Hz	150	58	
	PWM higher	~ 600 Hz .. ~ 618 Hz	151..200	59..78	
	<b>RESET</b>		250..255	98..100	
<b>14) Pattern</b>	No pattern		0..2	0..1	
	250 pre-defined patterns (see appendix A)		03..253	2..99	

**High Resolution (Extended) - Mode 21 DMX Channels**

Channel	Function	Time and Value	DMX	%
1) PAN-coarse	0 .. 623°	3,2s	0..255	0..100
2) PAN-fine			0..255	0..100
3) Tilt-coarse	0 .. 295°	1,5s	0..255	0..100
4) Tilt-fine			0..255	0..100
5) Red-coarse	Color mixing system – Red	0 - 100%	0..255	0..100
6) Red-fine	Color mixing system – Red-Low		0..255	0..100
7) Green-coarse	Color mixing system – Green	0 - 100%	0..255	0..100
8) Green-fine	Color mixing system – Green-Low		0..255	0..100
9) Blue-coarse	Color mixing system – Blue	0 - 100%	0..255	0..100
10) Blue-fine	Color mixing system – Blue-Low		0..255	0..100
11) White-coarse	Color mixing system – White	0 - 100%	0..255	0..100
12) White-fine	Color mixing system – White-Low		0..255	0..100
13) Shutter	Shutter closed		0..15	0..5.5
	Random Pulse effect	slow - fast	16..47	6..18.5
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	19..31.5
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	32..43
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	44..56
	Strobe effect pause	5s - 1s	144..199	57..77
	Strobe effect, slow - fast	1 Hz - 10 Hz	200..239	78..94
	Shutter open		240...249	95..97.5
	Shutter open		251..255	99..100
14) Dimmer-coarse	Dimmer	0 - 100%	0..255	0..100
15) Dimmer-fine	Dimmer - Low		0..255	0..100
16) Zoom	Spot - Flood		0...255	0...100
17) Special	Pattern Block 1 → channel 18		0..3	0..1
	Pattern Block 2 → channel 18		4..7	1.5..2.5
	PWM lower	~ 582 Hz .. ~ 600Hz	100..149	39..57
	PWM (Default)	600Hz	150	58
	PWM higher	~ 600 Hz .. ~ 618 Hz	151..200	59..78
	<b>RESET</b>		250..255	98..100
18) Pattern	No pattern		0..2	0..1
	250 pre-defined patterns (see appendix A)		03..253	2..99
	Activates direct access to LED Pattern	See channels 18-20	254..255	100
19) Pattern Byte 1	Direct access to Pattern of LED 1..8		0...255	0...100
20) Pattern Byte 2	Direct access to Pattern of LED 9..16		0...255	0...100
21) Pattern Byte 3	Direct access to Pattern of LED 17..19		0..07	0..2.5

<sup>1)</sup> 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** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4** 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.

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

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