

impre**ssion**

300 **RZ**

DMX Channel Index



from Software Version 1.01/03/02
(Manual Version 1.2)



— since 1994 —
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DMX Channel Sheet

Normal-Mode 14 DMX channels

Channel	Function	Time and Value	DMX	HEX	%	
1) PAN-coarse	0 .. 660°		0..255	00..FF	0..100	
2) PAN-fine	High- Pos ... High- Pos + 2,6°(16 Bit)		0..255	00..FF	0..100	
3) Tilt-coarse	0 .. 300°		0..255	00..FF	0..100	
4) Tilt-fine	High- Pos ... High- Pos + 1,2°(16 Bit)		0..255	00..FF	0..100	
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2,5	
	Color 01 - Red ¹⁾		8..15	08..0F	3..5,5	
	Color 02 - Amber ¹⁾		16..23	10..17	6..8,5	
	Color 03 - Warm Yellow ¹⁾		24..31	18..1F	9..12,5	
	Color 04 - Yellow ¹⁾		32..39	20..27	13..15,5	
	Color 05 - Green ¹⁾		40..47	28..2F	16..18,5	
	Color 06 - Turquoise ¹⁾		48..55	30..37	19..21,5	
	Color 07 - Cyan ¹⁾		56..63	38..3F	22..24,5	
	Color 08 - Blue ¹⁾		64..71	40..47	25..27,5	
	Color 09 - Lavender ¹⁾		72..79	48..4F	28..30,5	
	Color 10 - Mauve ¹⁾		80..87	50..57	31..34,5	
	Color 11 - Magenta ¹⁾		88..95	58..5F	35..37,5	
	Color 12 - Pink ¹⁾		96..103	60..67	38..40,5	
	White - CTO	Color temperature 3200K		104..111	68..6F	41..43,5
	White	Color temperature 5600K		112..119	70..77	44..46,5
	White - CTB	Color temperature 7200K		120..127	78..7F	47..49,5
	Rainbow Effect Stop ²⁾			128	80	50
Rainbow Effect ³⁾	slow - fast		129..223	81..DF	51..88	
Rainbow Effect, random colors	slow - fast		224..255	E..FF	89..100	
6) Red	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100	
7) Green	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100	
8) Blue	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100	
9) Shutter	Shutter closed		0..15	00..0F	0..5,5	
	Random Pulse effect	slow - fast	16..47	10..2F	6..18,5	
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	30..4F	19..31	
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	50..6F	32..43	
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	70..8F	44..56	
	Strobe effect pause	5s to 1s	144..199	A0..C7	57..77	
	Strobe effect, slow - fast	1 Hz .. 10 Hz	200..239	C8..EF	78..94	
	Shutter open		240..255	F0..FF	95..100	
10) Dimmer	Dimmer	0% - 100%	0..255	0..FF	0..100	
11) Color temperature	No color temperature correction		0	0	0	
	Continuous color temperature correction between 3200k - 7200k	Applicable only for White color ⁵⁾	7..255	07..FF	3..100	
12) Special	Max. Power-Mode ⁴⁾	Max. light output without white balance	0..15	0..0F	0..5,5	
	White-Mode ⁴⁾	White balance used	16..31	10..1F	6..12,5	
	Fan min. as long as temp. < 90°C		224..229	E0..E5	88..89,5	

Channel	Function	Time and Value	DMX	HEX	%	
	RESET (Normal Mode)		250..255	FA..FF	98..100	
13) Movement	No movement		0	00	0	
	Movement	Size	Phase			
	PAN	1	0°	01..01	01..01	0,5
		1	90°	02..03	02..03	1,0
		1	180°	04..05	04..05	1,7
		1	270°	06..07	06..07	2,5
	PAN	2	0°	08..09	08..09	3,3
		2	90°	10..11	0A..0B	4,1
		2	180°	12..13	0C..0D	4,9
		2	270°	14..15	0E..0F	5,7
	PAN	3	0°	16..17	11..11	6,5
		3	90°	18..19	12..13	7,3
		3	180°	20..21	14..15	8,0
		3	270°	22..23	16..17	8,8
	PAN	4	0°	24..25	18..19	9,6
		4	90°	26..27	1A..1B	10,4
		4	180°	28..29	1C..1D	11,2
		4	270°	30..31	1E..1F	12
		TILT	size / phase see also PAN	32..63	20..3F	13..25
		PAN / TILT	size / phase see also PAN	64..95	40..5F	26..37
	PAN / TILT (inverse)	size / phase see also PAN	96..127	60..7F	38..50	
	Circle	size / phase see also PAN	128..159	80..9F	51..62	
	Circle (inverse)	size / phase see also PAN	160..191	A0..BF	63..75	
	Lying eight	size / phase see also PAN	192..223	C0..DF	76..87	
	Random movement	size see also PAN	224..255	E0..FF	88..100	
14) Speed Pan/Tilt	Pan/Tilt relative movement		0..1	00..01	0..0,5	
	Pan/Tilt slow – fast Use this channel 14) also for the speed of the movements (channel 13).	Pan Min. 660° = 200s Pan Max. 660° Tilt Min. 300° = 110s Tilt Max. 300°	2..255	02..FF	1..100	
15) Zoom	Steplessly adjustable Zoom	10° - 26°	0..255	0..FF	0..100	

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

The **IMPRESSION 300 XL RZ RGB** 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 likewise to 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⁾ The continuous color temperature correction is applicable only for the White color i.e. if this function is selected (DMX ≥ 001) the **IMPRESSION 300 XL RZ RGB** will change the color to white immediately and will then be adjustable in the color temperature in a range between 3200K and 7200K. Hence a color correction for others than white is not intended.

Compress-Mode 10 DMX channels

Channel	Function	Time and Value	DMX	HEX	%	
1) PAN-coarse	0 .. 660°		0..255	00..FF	0..100	
2) PAN-fine	High- Pos ... High- Pos + 2,6° (16 Bit)		0..255	00..FF	0..100	
3) Tilt-coarse	0 .. 300°		0..255	00..FF	0..100	
4) Tilt-fine	High- Pos ... High- Pos + 1,2° (16 Bit)		0..255	00..FF	0..100	
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2,5	
	Color 01 - Red ¹⁾		8..15	08..0F	3..5,5	
	Color 02 - Amber ¹⁾		16..23	10..17	6..8,5	
	Color 03 - Warm Yellow ¹⁾		24..31	18..1F	9..12,5	
	Color 04 - Yellow ¹⁾		32..39	20..27	13..15,5	
	Color 05 - Green ¹⁾		40..47	28..2F	16..18,5	
	Color 06 - Turquoise ¹⁾		48..55	30..37	19..21,5	
	Color 07 - Cyan ¹⁾		56..63	38..3F	22..24,5	
	Color 08 - Blue ¹⁾		64..71	40..47	25..27,5	
	Color 09 - Lavender ¹⁾		72..79	48..4F	28..30,5	
	Color 10 - Mauve ¹⁾		80..87	50..57	31..34,5	
	Color 11 - Magenta ¹⁾		88..95	58..5F	35..37,5	
	Color 12 - Pink ¹⁾		96..103	60..67	38..40,5	
	White - CTO	Color temperature 3200K		104..111	68..6F	41..43,5
	White	Color temperature 5600K		112..119	70..77	44..46,5
	White - CTB	Color temperature 7200K		120..127	78..7F	47..49,5
Rainbow Effect Stop ²⁾			128	80	50	
Rainbow Effect ³⁾	slow - fast		129..223	81..DF	51..88	
Rainbow Effect, random colors	slow - fast		224..255	E=..FF	89..100	
6) Red	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100	
7) Green	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100	
8) Blue	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100	
9) Shutter	Shutter closed		0..15	00..0F	0..5,5	
	Random Pulse effect	slow - fast	16..47	10..2F	6..18,5	
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	30..4F	19..31,5	
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	50..6F	32..43	
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	70..8F	44..56	
	Strobe effect pause	5s to 1s		144..199	A0..C7	57..77
	Strobe effect, slow - fast	1 Hz .. 10 Hz		200..239	C8..EF	78..94
	Shutter open			240..249	F0..F9	95..97,5
	RESET	Min. 3 Sec.		250	FA	98
	Shutter open			251..255	FB..FF	99..100
10) Dimmer	Dimmer (0% - 100%)		0..255	0..FF	0..100	
11) Zoom	Steplessly adjustable Zoom	10° - 26°	0..255	0..FF	0..100	

High Resolution (Extended) -Mode 13 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-coarse	0 .. 660°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + 2,6° (16 Bit)		0..255	00..FF	0..100
3) Tilt-coarse	0 .. 300°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos ... High- Pos + 1,2° (16 Bit)		0..255	00..FF	0..100
5) Red-coarse	Color mixing system – Red	0 - 100%	0..255	00..FF	0..100
6) Red-fine	Color mixing system – Red-Low		0..255	00..FF	0..100
7) Green-coarse	Color mixing system – Green	0 - 100%	0..255	00..FF	0..100
8) Green-fine	Color mixing system – Green-Low		0..255	00..FF	0..100
9) Blue-coarse	Color mixing system – Blue	0 - 100%	0..255	00..FF	0..100
10) Blue-fine	Color mixing system – Blue-Low		0..255	00..FF	0..100
11) Shutter	Shutter closed		0..15	00..0F	0..5,5
	Random Pulse effect	slow - fast	16..47	10..2F	6..18,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	30..4F	19..31,5
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	50..6F	32..43
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	70..8F	44..56
	Strobe effect pause	5s to 1s	144..199	A0..C7	57..77
	Strobe effect, slow - fast	1 Hz .. 10 Hz	200..239	C8..EF	78..94
	Shutter open		240..249	F0..F9	95..97,5
	RESET	Min. 3 Sec.	250	FA	98
	Shutter open		251..255	FB..FF	99..100
12) Dimmer-coarse	Dimmer	0% - 100%	0..255	0..FF	0..100
13) Dimmer-fine	Dimmer - Low		0..255	0..FF	0..100
14) Zoom	Steplessly adjustable Zoom	10° - 26°	0..255	0..FF	0..100

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 300 XL RZ RGBs** will afterwards start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION 300 XL RZ RGBs** 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).

Additional Display Indication

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

XX/X/XX

- 06 = 600Hz / 12 = 1200Hz
- N = Normal Mode / C = Compressed Mode / H = High Res. Mode
- N = Tilt normal / I = Tilt inverted
- N = Pan normal / I = Pan inverted

