

DMX Channel Index

impression[&]
X1



from software version: 1.0



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1 Normal Mode 18 DMX Channels:

Channel	Function	Time and Value	DMX
1 Pan - High	Pan coarse	0° - 660°	0..255
2 Pan - Low	Pan fine		0..255
3 Tilt - High	Tilt coarse	0° - 300°	0..255
4 Tilt - Low	Tilt fine		0..255
5 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 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	Dimmer	0 - 100%	0..255

12 CTO	No CTO		0..7	
	Continuous color temperature correction 2,500k – 10,000k	<i>Applicable for ALL colors</i>	8..255	
13 Special	RESET	> 1 sec	250..255	
14 Movement Macros	No macros		0..0	
	Movement	Speed	Phase	
			<i>Use channel 15 to adjust</i>	
	Pan	1	0°	01..01
	Pan	1	90°	02..03
	Pan	1	180°	04..05
	Pan	1	270°	06..07
	Pan	2	0°	08..09
	Pan	2	90°	10..11
	Pan	2	180°	12..13
	Pan	2	270°	14..15
	Pan	3	0°	16..17
	Pan	3	90°	18..19
	Pan	3	180°	20..21
	Pan	3	270°	22..23
	Pan	4	0°	24..25
	Pan	4	90°	26..27
	Pan	4	180°	28..29
	Pan	4	270°	30..31
	Tilt	size / phase see Pan		32..63
Pan / Tilt	size / phase see Pan		64..95	
Pan / Tilt (inverse)	size / phase see Pan		96..127	
Circle	size / phase see Pan		128..159	
Circle (inverse)	size / phase see Pan		160..191	
Lying eight	size / phase see Pan		192..223	
Random movement	size / phase see Pan		224..255	
15 Pan / Tilt Speed	Pan/Tilt movement speed from controller		0..1	
	Pan/Tilt, slow – fast <i>Use this channel for the speed of the macros on channel 14</i>		2..255	
16 None	reserved		-	
17 Pan - rotation	No rotation		0..5	
	Pan rotation CW	slow – fast	6..130	
	Pan rotation CCW	fast - slow	131..255	
18 Tilt - rotation	No rotation		0..5	
	Tilt rotation CW	slow – fast	6..130	
	Tilt rotation CCW	fast - slow	131..255	

2 Compressed Mode 14 DMX Channels:

Channel	Function	Time and Value	DMX
1 Pan - High	Pan coarse	0° - 660°	0..255
2 Pan - Low	Pan fine		0..255
3 Tilt - High	Tilt coarse	0° - 300°	0..255
4 Tilt - Low	Tilt fine		0..255
5 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 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	Dimmer	0 - 100%	0..255

12 Special	RESET	> 1 sec	250..255
13 Pan - rotation	No rotation		0..5
	Pan rotation CW	slow – fast	6..130
	Pan rotation CCW	fast - slow	131..255
14 Tilt - rotation	No rotation		0..5
	Tilt rotation CW	slow – fast	6..130
	Tilt rotation CCW	fast - slow	131..255

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 X1** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X1** can have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the ones 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 from the current color.

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

3 Technical Specifications:

Power supply	
Power consumption	85 VA (Watt)
Power Input	Auto sensing 100-240 V AC, 50-60 Hz
Power connectors	NEUTRIK [®] powerCON Power-in: NAC3FCA / NAC3MPA (blue) Power-out: NAC3FCB / NAC3MPB (grey)
Fuse protection	Micro-fuse 5x20 mm, T2A
Operational Parameters	
Max. Ambient Temperature	5° - 45°C (integrated overheating switch) 40°-113°F
Mounting Position	Any (see relevant chapter)
Lighting System - Additive Color mixing	
LED Type	4 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 Interchangeable lens carrier with 7° beam angle as standard option	
Shutter / Dimmer (8/16 Bit)	
Strobe- Effect with variable speed between 1-10 flashes per second, Random & Pulse-Effects Continuous Dimmer 0 - 100%	
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].	
Pan / Tilt (8/16 Bit)	
Pan- movement	660° in min. 2 seconds (Position Feedback)
Pan - rotation	endless pan-rotation with adjustable speed
Tilt- movement	360° in min. 0.9 seconds (Position Feedback)
Tilt - rotation	endless tilt-rotation with adjustable speed
Weights and Measures	
Width	140 mm / 5.5''
Length	190 mm / 7.5''
Height (head vertical)	250 mm / 9.9''
Weight (net)	3.1 kg / 6.8 lbs

4 Dimensions



