

# DMX Channel Index

impression<sup>&</sup>  
X1



from software version: 1.0



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## 1 Normal Mode 18 DMX Channels:

Channel	Function	Time and Value	DMX
<b>1 Pan - High</b>	Pan coarse	0° - 660°	0..255
<b>2 Pan - Low</b>	Pan fine		0..255
<b>3 Tilt - High</b>	Tilt coarse	0° - 300°	0..255
<b>4 Tilt - Low</b>	Tilt fine		0..255
<b>5 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 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>7 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>8 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>9 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>	Dimmer	0 - 100%	0..255

<b>12 CTO</b>	No CTO		0..7	
	Continuous color temperature correction 2,500k – 10,000k	<i>Applicable for ALL colors</i>	8..255	
<b>13 Special</b>	<b>RESET</b>	<b>&gt; 1 sec</b>	<b>250..255</b>	
<b>14 Movement Macros</b>	No macros		0..0	
	<b>Movement</b>	<b>Speed</b>	<b>Phase</b>	
	<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	
<b>15 Pan / Tilt Speed</b>	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	
<b>16 None</b>	reserved		-	
<b>17 Pan - rotation</b>	No rotation		0..5	
	Pan rotation CW	slow – fast	6..130	
	Pan rotation CCW	fast - slow	131..255	
<b>18 Tilt - rotation</b>	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
<b>1 Pan - High</b>	Pan coarse	0° - 660°	0..255
<b>2 Pan - Low</b>	Pan fine		0..255
<b>3 Tilt - High</b>	Tilt coarse	0° - 300°	0..255
<b>4 Tilt - Low</b>	Tilt fine		0..255
<b>5 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 Red</b>	Color mixing system - Red	0 - 100%	0..255
<b>7 Green</b>	Color mixing system - Green	0 - 100%	0..255
<b>8 Blue</b>	Color mixing system - Blue	0 - 100%	0..255
<b>9 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>	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

<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 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 <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).

### 3 Technical Specifications:

<b>Power supply</b>	
<b>Power consumption</b>	85 VA (Watt)
<b>Power Input</b>	Auto sensing 100-240 V AC, 50-60 Hz
<b>Power connectors</b>	NEUTRIK® powerCON Power-in: NAC3FCA / NAC3MPA (blue) Power-out: NAC3FCB / NAC3MPB (grey)
<b>Fuse protection</b>	Micro-fuse 5x20 mm, T2A
<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)
<b>Lighting System - Additive Color mixing</b>	
<b>LED Type</b>	4 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 Interchangeable lens carrier with 7° beam angle as standard option	
<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>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>Pan / Tilt (8/16 Bit)</b>	
<b>Pan- movement</b>	<b>660° in min. 2 seconds (Position Feedback)</b>
<b>Pan - rotation</b>	<b>endless pan-rotation with adjustable speed</b>
<b>Tilt- movement</b>	<b>360° in min. 0.9 seconds (Position Feedback)</b>
<b>Tilt - rotation</b>	<b>endless tilt-rotation with adjustable speed</b>
<b>Weights and Measures</b>	
<b>Width</b>	<b>140 mm / 5.5''</b>
<b>Length</b>	<b>190 mm / 7.5''</b>
<b>Height (head vertical)</b>	<b>250 mm / 9.9''</b>
<b>Weight (net)</b>	<b>3.1 kg / 6.8 lbs</b>

## 4 Dimensions



