

DMX Channel Index

impression[®]



Software Version 1.09/03



e-mail: support@ElationLighting.com
web: <http://www.ElationLighting.com>

DMX Channel Selection (DMX Protocol)

Normal Mode - 14 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) Pan Coarse	0 - 660°	Min. 3.2 s	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°	Min. 1.5 s	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 Wheel (Fixed)	Colors adjustable via RGB		0-7	00-07	0-2.5
	Color 01 - Red		8-15	08-0F	3-5.5
	Color 02 - Orange		16-23	10-17	6-8.5
	Color 03 - Yellow (Warm)		24-31	18-1F	9-12.5
	Color 04 - Yellow		32-39	20-27	13-15.5
	Color 05 - Green		40-47	28-2F	16-18.5
	Color 06 - Turquoise		48-55	30-37	19-21.5
	Color 07 - Cyan		56-63	38-3F	22-24.5
	Color 08 - Blue		64-71	40-47	25-27.5
	Color 09 - Lavender		72-79	48-4F	28-30.5
	Color 10 - Mauve		80-87	50-57	31-34.5
	Color 11 - Magenta		88-95	58-5F	35-37.5
	Color 12 - Pink		96-103	60-67	38-40.5
	White - CTO	3200K	104-111	68-6F	41-43.5
	White	5600K	112-119	70-77	44-46.5
	White - CTB	7200K	120-127	78-7F	47-49.5
	Rainbow Effect - Stop		128	80	50
Rainbow Effect	Slow -> Fast	129-223	81-DF	51-88	
Rainbow Effect - Random Colors	Slow -> Fast	224-255	E0-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 Strobe (different pattern)	Slow -> Fast	16-47	10-2F	6-18.5
	Strobe Pulse effect.	Slow -> Fast	48-79	30-4F	19-31.5
	Random Strobe Effect	Slow -> Fast	80-111	50-6F	32-43
	Strobe Pulse Effect	Slow -> Fast	112-143	70-8F	44-56
	Strobe - Variable	5s-1s	144-199	A0-C7	57-77
	Strobe. slow - fast	1 Hz - 10 Hz	200-239	F0-FF	95-100
	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		0-7	0	0-2
	Continuous color temperature correction between 7200k - 3200k	Application dependant	7-255	07-FF	3-100
12) Special	Max. Power-Mode (*)	Max. light output without white balance	0-15	0-0F	0-5.5
	White-Mode (*)	White balance used	16-31	10-1F	6-12.5
	Color1-Chaser C / C+1 Slow - fast	0.7 BPS - 2.3 BPS => 1.43 s - 0.43 s	112-127	70-7F	44-49.5
	Color1-Chaser C / C+2 Slow - fast	0.7 BPS - 2.0 BPS => 1.43 s - 0.5 s	128-143	80-8F	50-56.5
	Fans low speed as long as		224-229	E0-E5	88-89.5

Channel	Function	Time and Value	DMX	HEX	%	
	temperature is below 90°C					
	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
	Figure 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 relative movement		0-15	00-0F	0-6	
Pan/Tilt	Pan/Tilt slow -> fast	Pan Min. 660° = 200s Pan Max. 660° = 3.2s Tilt Min. 300° = 110s Tilt Max. 300° = 1.5s	16-255	10-FF	7-100	
	Also used to control the speed of the built-in movement macros.					

(* 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.

Using White Balance in “Compressed Mode:”

It is still possible to use the “White Balance” options in “Compressed Mode” even though there is no DMX “Special” channel. This setting can be activated or deactivated directly in the fixture’s system menu. To activate the white balance setting be sure to set the “White-Mode” to “ON”. to deactivate the setting be sure to set the White-Mode to “OFF.” When set to “OFF” all the RGB functions will transition from 0~100%.

Compressed Mode - 10 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%	
1) Pan Coarse	0 - 660°	Min. 3.2 s	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°	Min. 1.5 s	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 Wheel (Fixed)	Colors adjustable via RGB		0-7	00-07	0-2.5	
	Color 01 - Cyan		8-15	08-0F	3-5.5	
	Color 02 - Magenta		16-23	10-17	6-8.5	
	Color 03 - Yellow		24-31	18-1F	9-12.5	
	Color 04 - Lavender		32-39	20-27	13-15.5	
	Color 05 - Dark Lavender		40-47	28-2F	16-18.5	
	Color 06 - Amber		48-55	30-37	19-21.5	
	Color 07 - Deep Golden		56-63	38-3F	22-24.5	
	Color 08 - Dark Blue		64-71	40-47	25-27.5	
	Color 09 - Pink		72-79	48-4F	28-30.5	
	Color 10 - Lime Green		80-87	50-57	31-34.5	
	Color 11 - Light Blue		88-95	58-5F	35-37.5	
	Color 12 - Red		96-103	60-67	38-40.5	
	Color 13 - Green		104-111	68-6F	41-43.5	
	Color 14 - Blue		112-119	70-77	44-46.5	
	White			120-127	78-7F	47-49.5
Rainbow Effect	Slow - fast		128-255	80-FF	50-100	
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 Strobe (different pattern)	slow - fast	16-47	10-2F	6-18.5	
	Pulse effect.	slow - fast	48-79	30-4F	19-31.5	
	Strobe. slow - fast	slow - fast	80-111	50-6F	32-43	
	Strobe Pulse	slow - fast	112-143	70-8F	44-56	
	Strobe	5s-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	

High Resolution Mode - 13 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) Pan Course	0 - 660°	min. 3.2 s	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 Course	0 - 300°	min. 1.5 s	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 Mix – Red	0 - 100%	0-255	00-FF	0-100
6) Red Fine	Color Mix – Red - High	0 - 100%	0-255	00-FF	0-100
7) Green Coarse	Color Mix – Green	0 - 100%	0-255	00-FF	0-100
8) Green Fine	Color Mix – Green - High	0 - 100%	0-255	00-FF	0-100
9) Blue Coarse	Color Mix – Blue	0 - 100%	0-255	00-FF	0-100
10) Blue Fine	Color Mix – Blue - High	0 - 100%	0-255	00-FF	0-100
11) Shutter	Shutter Closed		0-15	00-0F	0-5.5
	Random Strobe (different pattern)	slow - fast	16-47	10-2F	6-18.5
	Pulse effect.	slow - fast	48-79	30-4F	19-31.5
	Strobe. slow - fast	slow - fast	80-111	50-6F	32-43
	Strobe Pulse	slow - fast	112-143	70-8F	44-56
	Strobe	5s-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 Course	Dimmer (0% - 100%)		0-255	0-FF	0-100
13) Dimmer Fine	Dimmer -High		0-255	0-FF	0-100

Additional displays

In the first line of the display the following additional information are constantly indicated:

XX/X/XX

