

DMX Control Protocol



The Litra DMX Dongle supports the basic 512 protocol.
To tie into ARTNET, sACN, RDM and other protocols with TCP/IP and RJ45 ports, a bridge / converter device is required.

CCT MODE

DMX Channel	Value	Percent	Function
1	0 - 50		Mode CCT Mode
2	0 - 255	0 - 100%	Dimmer Closed - Open
3	0 - 255	0 - 100%	Color Temperature CCT 2000K - 10000K
4	0 - 10 11 - 20 21 - 119 120 - 145 146 - 244 245 - 255	0 - 4% 5% - 8% 8% - 46% 47% - 57% 58% - 96% 96% - 100%	GN Saturation Neutral/No Effect Full Minus Green [-99%] - [-1%] Neutral/No Effect [1%] - [99%] Full Plus Green

RGBWW MODE

DMX Channel	Value	Percent	Function
1	51 - 100		Mode RGBWW Mode
2	0 - 255	0 - 100%	Intensity Red 0% - 100%
3	0 - 255	0 - 100%	Intensity Green 0% - 100%
4	0 - 255	0 - 100%	Intensity Blue 0% - 100%
5	0 - 255	0 - 100%	Intensity Cold White 0% - 100%
6	0 - 255	0 - 100%	Intensity Warm White 0% - 100%

HSI MODE

DMX Channel	Value	Percent	Function
1	51 - 100		Mode HSI Mode
2	0 - 255	0 - 100%	Dimmer Closed - Open
3	0 - 255	0 - 100%	Hue 0° - 360°
4	0 - 255	0 - 100%	Saturation 0 - Full Saturation

GEL MODE

DMX Channel	Value	Percent	Function
1	101 - 150		Mode Gel Mode
2	0 - 255	0 - 100%	Dimmer Closed - Open
3	0 - 127 128 - 255	0 - 50% 51% - 100%	Color Temperature CCT 3200K 5600K
4	0 - 255	0 - 100%	Rosco R2001 - R2010

EFFECT MODE

DMX Channel	Value	Percent	Function
1	201 - 255		<i>Mode</i> Effect Mode
2	0 - 255	0 - 100%	<i>Dimmer</i> Closed - Open
3	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 119 120 - 129 130 - 139 140 - 149 150 - 159 160 - 255	0 - 100%	<i>Effect Selection</i> No Effect Candle Clouds Color Cycle Dance Club Fire Fireworks Lightning Mood Light Police Pulse CCT Pulse HSI Paparazzi Strobe CCT Strobe HSI Television Reserved for Future Use
4	0 - 255	0 - 100%	<i>Effect Prameter 1</i> See Following Tables
5	0 - 255	0 - 100%	<i>Effect Prameter 2</i> See Following Tables
6	0 - 255	0 - 100%	<i>Effect Prameter 3</i> See Following Tables
7	0 - 255	0 - 100%	<i>Effect Prameter 4</i> See Following Tables

Candle, Fire, Fireworks & Television

Effect Parameter	Value	Percent	Function
1	0 - 84 85 - 169 170 - 255	0% - 33% 34% - 66% 67% - 100%	<i>CCT Range</i> Warmer Neutral Cooler
2	0 - 255	0 - 100%	<i>Speed</i>

Lightning

Effect Parameter	Value	Percent	Function
1			None
2	0 - 255	0 - 100%	<i>Speed</i>

Mood Light

Effect Parameter	Value	Percent	Function
1	0 - 255	0% - 100%	<i>Saturation</i> 0 - Full Saturation
2	0 - 255	0 - 100%	<i>Speed</i>

Dance Club

Effect Parameter	Value	Percent	Function
1	0 - 31	0% - 12%	<i>Color Variety</i> 3 Colors
	32 - 63	13% - 25%	6 Colors
	64 - 95	26% - 37%	9 Colors
	96 - 127	38% - 49%	12 Colors
	128 - 159	50% - 62%	15 Colors
	160 - 191	63% - 75%	18 Colors
	192 - 223	76% - 87%	21 Colors
	224 - 255	88% - 100%	24 Colors
2	0 - 255	0 - 100%	<i>Speed</i>

Police

Effect Parameter	Value	Percent	Function
1	0 - 63		<i>Color Combinations</i> Blue
	64 - 127		Blue & Red
	128 - 191		Blue & White
	192 - 255		Blue, Red & White
2	0 - 31	0 - 12%	<i>Flash Pattern</i> Single Flash
	32 - 63	13% - 25%	Double Flash
	64 - 95	26% - 37%	Quint Flash
	96 - 127	38% - 49%	Quad Flash
	128 - 159	50% - 62%	Cycle All
	160 - 255	63% - 100%	Reserved for Future Use

Clouds & Color Cycle

Effect Parameter	Value	Percent	Function
1	0 - 255	0% - 100%	<i>Offset</i> Offset Number 0 - 50 Every 5 DMX Values is a New Offset
2	0 - 255	0 - 100%	<i>Speed</i>

Papparazzi

Effect Parameter	Value	Percent	Function
1	0 - 127	0% - 50%	<i>Flash Type</i> Flash Bulb
	128 - 255	51% - 100%	Modern Flash
2	0 - 255	0 - 100%	<i>Speed</i>

Strobe CCT

DMX Channel	Value	Percent	Function
1			None
2	0 - 255	0 - 100%	Speed
3	0 - 255	0 - 100%	Color Temperature CCT 2000K - 10000K
4	0 - 10 11 - 20 21 - 119 120 - 145 146 - 244 245 - 255	0 - 4% 5% - 8% 8% - 46% 47% - 57% 58% - 96% 96% - 100%	GN Saturation Neutral/No Effect Full Minus Green [-99%] - [-1%] Neutral/No Effect [1%] - [99%] Full Plus Green

Pulse CCT

DMX Channel	Value	Percent	Function
1	0 - 255	0 - 100%	Min Intensity 0% - 99%
2	0 - 255	0 - 100%	Speed
3	0 - 255	0 - 100%	Color Temperature CCT 2000K - 10000K
4	0 - 10 11 - 20 21 - 119 120 - 145 146 - 244 245 - 255	0 - 4% 5% - 8% 8% - 46% 47% - 57% 58% - 96% 96% - 100%	GN Saturation Neutral/No Effect Full Minus Green [-99%] - [-1%] Neutral/No Effect [1%] - [99%] Full Plus Green

Strobe HSI

DMX Channel	Value	Percent	Function
1			Min Intensity
2	0 - 255	0 - 100%	Speed
3	0 - 255	0 - 100%	Hue 0° - 360°
4	0 - 255	0 - 100%	Saturation 0 - Full Saturation

Pulse HSI

DMX Channel	Value	Percent	Function
1	0 - 255	0 - 100%	Min Intensity 0% - 99%
2	0 - 255	0 - 100%	Speed
3	0 - 255	0 - 100%	Hue 0° - 360°
4	0 - 255	0 - 100%	Saturation 0 - Full Saturation