



DMX CHART [OMNIRAY]

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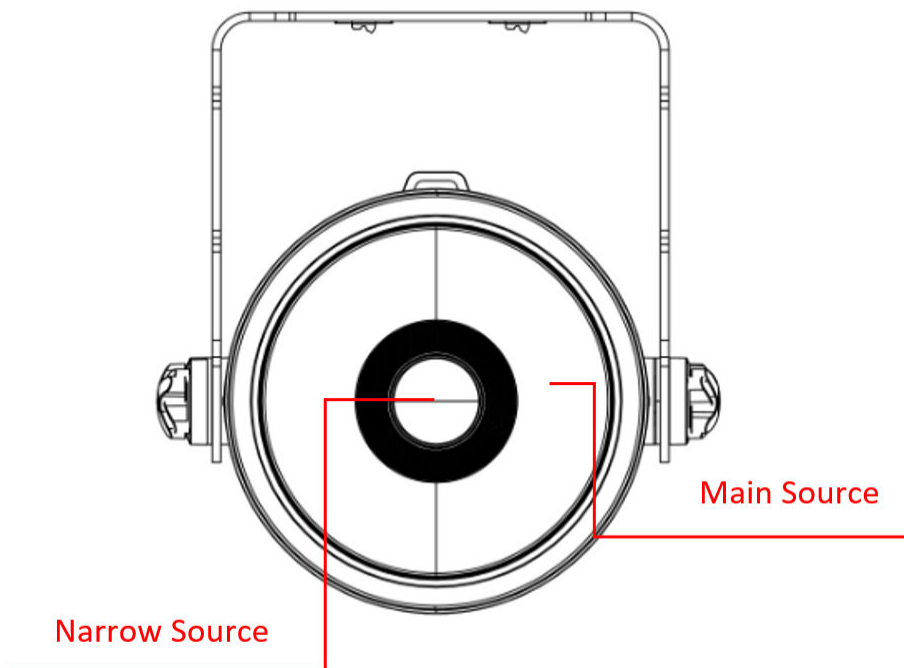
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PIXEL ORDER



DMX MODES

Mode SIMPLE RGB

DMX Channel	Parameter	DMX value	Description	Physical value	Control type
1.	Dimmer Main source	0 - 255	Intensity 8 bit of main source	0 - 100%	linear
2.	Red Main source	0 - 255	Red 8 bit on Main source	0 - 100%	linear
3.	Green Main source	0 - 255	Green 8 bit on Main source	0 - 100%	linear
4.	Blue Main source	0 - 255	Blue 8 bit on Main source	0 - 100%	linear
5.	Dimmer Narrow beam	0 - 255	Intensity 8 bit of narrow beam source	0 - 100%	linear
6.	Red Narrow Beam	0 - 255	Red 8 bit on Narrow beam source	0 - 100%	linear
7.	Green Narrow Beam	0 - 255	Green 8 bit on Narrow beam source	0 - 100%	linear
8.	Blue Narrow Beam	0 - 255	Blue 8 bit on Narrow beam source	0 - 100%	linear

Mode RGBW

DMX Channel	Parameter	DMX value	Description	Physical value	Control type
1.	Red Main source	0 - 255	Red 8 bit on Main source	0 - 100%	linear
2.	Green Main source	0 - 255	Green 8 bit on Main source	0 - 100%	linear
3.	Blue Main source	0 - 255	Blue 8 bit on Main source	0 - 100%	linear
4.	White Main source	0 - 255	White 8 bit on Main source	0 - 100%	linear
5.	Red Narrow Beam	0 - 255	Red 8 bit on Narrow beam source	0 - 100%	linear
6.	Green Narrow Beam	0 - 255	Green 8 bit on Narrow beam source	0 - 100%	linear
7.	Blue Narrow Beam	0 - 255	Blue 8 bit on Narrow beam source	0 - 100%	linear
8.	White Narrow Beam	0 - 255	White 8 bit on Narrow beam source	0 - 100%	linear
9.	Strobe Main source	0 - 9	Strobe open - light output of main source on	open	constant
		10 - 19	Strobe closed - light output of main source off	closed	constant
		20 - 121	Strobe main source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of main source on	open	constant
		130 - 245	Main source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of main source on	open	constant
10.	Strobe Narrow source	0 - 9	Strobe open - light output of narrow beam source on	open	constant
		10 - 19	Strobe closed - light output of narrow beam source off	closed	constant
		20 - 121	Strobe narrow beam source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of narrow beam source on	open	constant

		130 - 245	Narrow beam source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of narrow beam source on	open	constant
11.	Colour wheel Main source	0 - 255	COLOUR WHEEL DESCRIBED in separated tab		
12.	Macro intensity	0 - 255	Intensity of macros	0 - 100%	linear
13.	Macro select	0 - 255	Select macro to be played	0 - X	constant
14.	Macro speed	0 - 255	Control of the speed of macro playback	0 - 100	linear
15.	Macro spread	0 - 255	The level of macro speed spread between the fixtures	0 - 100%	linear
16.	Control	0 - 30	No function	none	constant
		31 - 35	LED frequency 1.2kHz	1.2 kHz	constant
		36 - 40	LED frequency 2.4kHz	2.4 kHz	constant
		41 - 45	LED frequency 12kHz	12 kHz	constant
		46 - 60	Reserved for future porposes	none	constant
		61 - 65	Dimming curve linear	linear	constant
		66 - 70	Dimming curve logarythmic	log	constant
		71 - 75	Dimming curve expotential	exp	constant
		81 - 95	Reserved for future porposes	none	constant
		96 - 100	Dimmer fade smooth	smooth	constant
		101 - 105	Dimmer fade fast	fast	constant
		106 - 120	Reserved for future porposes	none	constant
		121 - 125	Fan off - low power mode	off	constant
		126 - 130	Fan silent mode	silent	constant
		131 - 135	Fan smart mode	smart	constant

		136 - 140	Fan beast mode	beast	constant
		141 - 255	Reserved for future porposes	none	constant

Mode RGBW 16B

DMX Channel	Parameter	DMX value	Description	Physical value	Control type
1.	Red Main source	0 - 255	Red 8 bit on Main source	0 - 100%	linear
2.	Red Main source fine	0 - 255	Red 16 bit on Main source	0 - 100%	linear
3.	Green Main source	0 - 255	Green 8 bit on Main source	0 - 100%	linear
4.	Green Main source fine	0 - 255	Green 16 bit on Main source	0 - 100%	linear
5.	Blue Main source	0 - 255	Blue 8 bit on Main source	0 - 100%	linear
6.	Blue Main source fine	0 - 255	Blue 16 bit on Main source	0 - 100%	linear
7.	White Main source	0 - 255	White 8 bit on Main source	0 - 100%	linear
8.	White Main source fine	0 - 255	White 16 bit on Main source	0 - 100%	linear
9.	Red Narrow Beam	0 - 255	Red 8 bit on Narrow beam source	0 - 100%	linear
10.	Red Narrow Beam fine	0 - 255	Red 16 bit on Narrow beam source	0 - 100%	linear
11.	Green Narrow Beam	0 - 255	Green 8 bit on Narrow beam source	0 - 100%	linear
12.	Green Narrow Beam fine	0 - 255	Green 16 bit on Narrow beam source	0 - 100%	linear
13.	Blue Narrow Beam	0 - 255	Blue 8 bit on Narrow beam source	0 - 100%	linear
14.	Blue Narrow Beam fine	0 - 255	Blue 16 bit on Narrow beam source	0 - 100%	linear

15.	White Narrow Beam	0 - 255	White 8 bit on Narrow beam source	0 - 100%	linear
16.	White Narrow Beam fine	0 - 255	White 16 bit on Narrow beam source	0 - 100%	linear
17.	Strobe Main source	0 - 9	Strobe open - light output of main source on	open	constant
		10 - 19	Strobe closed - light output of main source off	closed	constant
		20 - 121	Strobe main source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of main source on	open	constant
		130 - 245	Main source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of main source on	open	constant
18.	Strobe Narrow source	0 - 9	Strobe open - light output of narrow beam source on	open	constant
		10 - 19	Strobe closed - light output of narrow beam source off	closed	constant
		20 - 121	Strobe narrow beam source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of narrow beam source on	open	constant
		130 - 245	Narrow beam source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of narrow beam source on	open	constant
19.	Colour wheel Main source	0 - 255	COLOUR WHEEL DESCRIBED in separated tab		
20.	Macro intensity	0 - 255	Intensity of macros	0 - 100%	linear
21.	Macro select	0 - 255	Select macro to be played	0 - X	constant
22.	Macro speed	0 - 255	Control of the speed of macro playback	0 - 100	linear
23.	Macro spread	0 - 255	The level of macro speed spread between the fixtures	0 - 100%	linear

24.	Control	0 - 30	No function	none	constant
		31 - 35	LED frequency 1.2kHz	1.2 kHz	constant
		36 - 40	LED frequency 2.4kHz	2.4 kHz	constant
		41 - 45	LED frequency 12kHz	12 kHz	constant
		46 - 60	Reserved for future porposes	none	constant
		61 - 65	Dimming curve linear	linear	constant
		66 - 70	Dimming curve logarythmic	log	constant
		71 - 75	Dimming curve expotential	exp	constant
		81 -95	Reserved for future porposes	none	constant
		96 - 100	Dimmer fade smooth	smooth	constant
		101 - 105	Dimmer fade fast	fast	constant
		106 - 120	Reserved for future porposes	none	constant
		121 - 125	Fan off - low power mode	off	constant
		126 - 130	Fan silent mode	silent	constant
		131 - 135	Fan smart mode	smart	constant
		136 - 140	Fan beast mode	beast	constant
		141 - 255	Reserved for future porposes	none	constant

Mode CCT

DMX Channel	Parameter	DMX value	Description	Physical value	Control type
1.	White main source	0 - 255	White 8 bit on Main source	0 - 100%	linear
2.	CCT main source	0 - 255	Correlated Color Temperature of main source	2000K - 6500K	linear
3.	Tint main source	0 - 9	Open - factory calibration	open	linear

		10 - 127	Minus green	-100 - 0	relative
		128 - 136	Open - factory calibration	open	constant
		137 - 255	Plus green	0 - +100	relative
4.	Red Narrow Beam	0 - 255	Red 8 bit on Narrow beam source	0 - 100%	linear
5.	Green Narrow Beam	0 - 255	Green 8 bit on Narrow beam source	0 - 100%	linear
6.	Blue Narrow Beam	0 - 255	Blue 8 bit on Narrow beam source	0 - 100%	linear
7.	White Narrow Beam	0 - 255	White 8 bit on Narrow beam source	0 - 100%	linear
8.	Strobe Main source	0 - 9	Strobe open - light output of main source on	open	constant
		10 - 19	Strobe closed - light output of main source off	closed	constant
		20 - 121	Strobe main source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of main source on	open	constant
		130 - 245	Main source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of main source on	open	constant
9.	Strobe Narrow source	0 - 9	Strobe open - light output of narrow beam source on	open	constant
		10 - 19	Strobe closed - light output of narrow beam source off	closed	constant
		20 - 121	Strobe narrow beam source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of narrow beam source on	open	constant
		130 - 245	Narrow beam source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear

		246 - 255	Strobe open - light output of narrow beam source on	open	constant
10.	Colour wheel Main source	0 - 255	COLOUR WHEEL DESCRIBED in separated tab		
11.	Macro intensity	0 - 255	Intensity of macros	0 - 100%	linear
12.	Macro select	0 - 255	Select macro to be played	0 - X	constant
13.	Macro speed	0 - 255	Control of the speed of macro playback	0 - 100	linear
14.	Macro spread	0 - 255	The level of macro speed spread between the fixtures	0 - 100%	linear
15.	Control	0 - 30	No function	none	constant
		31 - 35	LED frequency 1.2kHz	1.2 kHz	constant
		36 - 40	LED frequency 2.4kHz	2.4 kHz	constant
		41 - 45	LED frequency 12kHz	12 kHz	constant
		46 - 60	Reserved for future porposes	none	constant
		61 - 65	Dimming curve linear	linear	constant
		66 - 70	Dimming curve logarythmic	log	constant
		71 - 75	Dimming curve expotential	exp	constant
		81 -95	Reserved for future porposes	none	constant
		96 - 100	Dimmer fade smooth	smooth	constant
		101 - 105	Dimmer fade fast	fast	constant
		106 - 120	Reserved for future porposes	none	constant
		121 - 125	Fan off - low power mode	off	constant
		126 - 130	Fan silent mode	silent	constant
		131 - 135	Fan smart mode	smart	constant
		136 - 140	Fan beast mode	beast	constant

		141 - 255	Reserved for future purposes	none	constant
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Mode CCT 16B

DMX Channel	Parameter	DMX value	Description	Physical value	Control type
1.	White main source	0 - 255	White 8 bit on Main source	0 - 100%	linear
2.	White Main source fine	0 - 255	White 16 bit on Main source	0 - 100%	linear
3.	CCT main source	0 - 255	Correlated Color Temperature of main source	2000K - 6500K	linear
4.	CCT main source fine	0 - 255	Correlated Color Temperature 16 bit of main source	2000K - 6500K	linear
5.	Tint main source	0 - 9	Open - factory calibration	open	linear
		10 - 127	Minus green	from -100 to 0	relative
		128 - 136	Open - factory calibration	open	constant
		137 - 255	Plus green	from 0 to +100	relative
6.	Red Narrow Beam	0 - 255	Red 8 bit on Narrow beam source	0 - 100%	linear
7.	Red Narrow Beam fine	0 - 255	Red 16 bit on Narrow beam source	0 - 100%	linear
8.	Green Narrow Beam	0 - 255	Green 8 bit on Narrow beam source	0 - 100%	linear
9.	Green Narrow Beam fine	0 - 255	Green 16 bit on Narrow beam source	0 - 100%	linear
10.	Blue Narrow Beam	0 - 255	Blue 8 bit on Narrow beam source	0 - 100%	linear
11.	Blue Narrow Beam fine	0 - 255	Blue 16 bit on Narrow beam source	0 - 100%	linear
12.	White Narrow Beam	0 - 255	White 8 bit on Narrow beam source	0 - 100%	linear

13.	White Narrow Beam fine	0 - 255	White 16 bit on Narrow beam source	0 - 100%	linear
14.	Strobe Main source	0 - 9	Strobe open - light output of main source on	open	constant
		10 - 19	Strobe closed - light output of main source off	closed	constant
		20 - 121	Strobe main source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of main source on	open	constant
		130 - 245	Main source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of main source on	open	constant
15.	Strobe Narrow source	0 - 9	Strobe open - light output of narrow beam source on	open	constant
		10 - 19	Strobe closed - light output of narrow beam source off	closed	constant
		20 - 121	Strobe narrow beam source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of narrow beam source on	open	constant
		130 - 245	Narrow beam source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of narrow beam source on	open	constant
16.	Colour wheel Main source	0 - 255	COLOUR WHEEL DESCRIBED in separated tab		
17.	Macro intensity	0 - 255	Intensity of macros	0 - 100%	linear
18.	Macro select	0 - 255	Select macro to be played	0 - X	constant
19.	Macro speed	0 - 255	Control of the speed of macro playback	0 - 100	linear
20.	Macro spread	0 - 255	The level of macro speed spread between the fixtures	0 - 100%	linear
21.	Control	0 - 30	No function	none	constant
		31 - 35	LED frequency 1.2kHz	1.2 kHz	constant

		36 - 40	LED frequency 2.4kHz	2.4 kHz	constant
		41 - 45	LED frequency 12kHz	12 kHz	constant
		46 - 60	Reserved for future porposes	none	constant
		61 - 65	Dimming curve linear	linear	constant
		66 - 70	Dimming curve logarythmic	log	constant
		71 - 75	Dimming curve expotential	exp	constant
		81 -95	Reserved for future porposes	none	constant
		96 - 100	Dimmer fade smooth	smooth	constant
		101 - 105	Dimmer fade fast	fast	constant
		106 - 120	Reserved for future porposes	none	constant
		121 - 125	Fan off - low power mode	off	constant
		126 - 130	Fan silent mode	silent	constant
		131 - 135	Fan smart mode	smart	constant
		136 - 140	Fan beast mode	beast	constant
		141 - 255	Reserved for future porposes	none	constant

Mode TUNGSTEN

DMX Channel	Parameter	DMX value	Description	Physical value	Control type
1.	Tungsten main source	0 - 255	Tungsten emulation on main source 8 bit	0 - 100%	linear
2.	Red Main source	0 - 255	Red 8 bit on Main source	from 0 to +100	relative
3.	Green Main source	0 - 255	Green 8 bit on Main source	from 0 to +100	relative

4.	Blue Main source	0 - 255	Blue 8 bit on Main source	from 0 to +100	relative
5.	Red Narrow Beam	0 - 255	Red 8 bit on Narrow beam source	0 - 100%	linear
6.	Green Narrow Beam	0 - 255	Green 8 bit on Narrow beam source	0 - 100%	linear
7.	Blue Narrow Beam	0 - 255	Blue 8 bit on Narrow beam source	0 - 100%	linear
8.	White Narrow Beam	0 - 255	White 8 bit on Narrow beam source	0 - 100%	linear
9.	Strobe Main source	0 - 9	Strobe open - light output of main source on	open	constant
		10 - 19	Strobe closed - light output of main source off	closed	constant
		20 - 121	Strobe main source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of main source on	open	constant
		130 - 245	Main source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of main source on	open	constant
10.	Strobe Narrow source	0 - 9	Strobe open - light output of narrow beam source on	open	constant
		10 - 19	Strobe closed - light output of narrow beam source off	closed	constant
		20 - 121	Strobe narrow beam source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of narrow beam source on	open	constant
		130 - 245	Narrow beam source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of narrow beam source on	open	constant
11.	Colour wheel Main source	0 - 255	COLOUR WHEEL DESCRIBED in separated tab		
12.	Macro intensity	0 - 255	Intensity of macros	0 - 100%	linear

13.	Macro select	0 - 255	Select macro to be played	0 - X	constant
14.	Macro speed	0 - 255	Control of the speed of macro playback	0 - 100	linear
15.	Macro spread	0 - 255	The level of macro speed spread between the fixtures	0 - 100%	linear
16.	Control	0 - 30	No function	none	constant
		31 - 35	LED frequency 1.2kHz	1.2 kHz	constant
		36 - 40	LED frequency 2.4kHz	2.4 kHz	constant
		41 - 45	LED frequency 12kHz	12 kHz	constant
		46 - 60	Reserved for future porposes	none	constant
		61 - 65	Dimming curve linear	linear	constant
		66 - 70	Dimming curve logarythmic	log	constant
		71 - 75	Dimming curve expotential	exp	constant
		81 -95	Reserved for future porposes	none	constant
		96 - 100	Dimmer fade smooth	smooth	constant
		101 - 105	Dimmer fade fast	fast	constant
		106 - 120	Reserved for future porposes	none	constant
		121 - 125	Fan off - low power mode	off	constant
		126 - 130	Fan silent mode	silent	constant
		131 - 135	Fan smart mode	smart	constant
		136 - 140	Fan beast mode	beast	constant
		141 - 255	Reserved for future porposes	none	constant

Mode TUNGSTEN 16B

DMX Channel	Parameter	DMX value	Description	Physical value	Control type
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1.	Tungsten main source	0 - 255	Tungsten emulation on main source 8 bit	0 - 100%	linear
2.	Tungsten main source fine	0 - 255	Tungsten emulation on main source 16 bit	0 - 100%	linear
3.	Red Main source	0 - 255	Red 8 bit on Main source	0 - 100%	linear
4.	Red Main source fine	0 - 255	Red 16 bit on Main source	0 - 100%	linear
5.	Green Main source	0 - 255	Green 8 bit on Main source	0 - 100%	linear
6.	Green Main source fine	0 - 255	Green 16 bit on Main source	0 - 100%	linear
7.	Blue Main source	0 - 255	Blue 8 bit on Main source	0 - 100%	linear
8.	Blue Main source fine	0 - 255	Blue 16 bit on Main source	0 - 100%	linear
9.	Red Narrow Beam	0 - 255	Red 8 bit on Narrow beam source	0 - 100%	linear
10.	Red Narrow Beam fine	0 - 255	Red 16 bit on Narrow beam source	0 - 100%	linear
11.	Green Narrow Beam	0 - 255	Green 8 bit on Narrow beam source	0 - 100%	linear
12.	Green Narrow Beam fine	0 - 255	Green 16 bit on Narrow beam source	0 - 100%	linear
13.	Blue Narrow Beam	0 - 255	Blue 8 bit on Narrow beam source	0 - 100%	linear
14.	Blue Narrow Beam fine	0 - 255	Blue 16 bit on Narrow beam source	0 - 100%	linear
15.	White Narrow Beam	0 - 255	White 8 bit on Narrow beam source	0 - 100%	linear
16.	White Narrow Beam fine	0 - 255	White 16 bit on Narrow beam source	0 - 100%	linear
17.	Strobe Main source	0 - 9	Strobe open - light output of main source on	open	constant
		10 - 19	Strobe closed - light output of main source off	closed	constant
		20 - 121	Strobe main source with increasing frequency	0,5 Hz - 40 Hz	linear

		122 - 129	Strobe open - light output of main source on	open	constant
		130 - 245	Main source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of main source on	open	constant
18.	Strobe Narrow source	0 - 9	Strobe open - light output of narrow beam source on	open	constant
		10 - 19	Strobe closed - light output of narrow beam source off	closed	constant
		20 - 121	Strobe narrow beam source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of narrow beam source on	open	constant
		130 - 245	Narrow beam source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of narrow beam source on	open	constant
19.	Colour wheel Main source	0 - 255	COLOUR WHEEL DESCRIBED in separated tab		
20.	Macro intensity	0 - 255	Intensity of macros	0 - 100%	linear
21.	Macro select	0 - 255	Select macro to be played	0 - X	constant
22.	Macro speed	0 - 255	Control of the speed of macro playback	0 - 100	linear
23.	Macro spread	0 - 255	The level of macro speed spread between the fixtures	0 - 100%	linear
24.	Control	0 - 30	No function	none	constant
		31 - 35	LED frequency 1.2kHz	1.2 kHz	constant
		36 - 40	LED frequency 2.4kHz	2.4 kHz	constant
		41 - 45	LED frequency 12kHz	12 kHz	constant
		46 - 60	Reserved for future porposes	none	constant
		61 - 65	Dimming curve linear	linear	constant
		66 - 70	Dimming curve logarythmic	log	constant
		71 - 75	Dimming curve expotential	exp	constant

		81 -95	Reserved for future porposes	none	constant
		96 - 100	Dimmer fade smooth	smooth	constant
		101 - 105	Dimmer fade fast	fast	constant
		106 - 120	Reserved for future porposes	none	constant
		121 - 125	Fan off - low power mode	off	constant
		126 - 130	Fan silent mode	silent	constant
		131 - 135	Fan smart mode	smart	constant
		136 - 140	Fan beast mode	beast	constant
		141 - 255	Reserved for future porposes	none	constant

Mode FULL ACCESS 16B

DMX Channel	Parameter	DMX value	Description	Physical value	Control type
1.	Red Main source	0 - 255	Red 8 bit on Main source	0 - 100%	linear
2.	Red Main source fine	0 - 255	Red 16 bit on Main source	0 - 100%	linear
3.	Green Main source	0 - 255	Green 8 bit on Main source	0 - 100%	linear
4.	Green Main source fine	0 - 255	Green 16 bit on Main source	0 - 100%	linear
5.	Blue Main source	0 - 255	Blue 8 bit on Main source	0 - 100%	linear
6.	Blue Main source fine	0 - 255	Blue 16 bit on Main source	0 - 100%	linear
7.	White Main source	0 - 255	White 8 bit on Main source	0 - 100%	linear

8.	White Main source fine	0 - 255	White 16 bit on Main source	0 - 100%	linear
9.	Amber Main source	0 - 255	Amber 8 bit on Main Source	0 - 100%	linear
10.	Amber Main source fine	0 - 255	Amber 16 bit on Main source	0 - 100%	linear
11.	Lime Main Source	0 - 255	Lime 8 bit on Main source	0 - 100%	linear
12.	Lime Main Source Fine	0 - 255	Lime 16 bit on Main source	0 - 100%	linear
13.	Red Narrow Beam	0 - 255	Red 8 bit on Narrow beam source	0 - 100%	linear
14.	Red Narrow Beam fine	0 - 255	Red 16 bit on Narrow beam source	0 - 100%	linear
15.	Green Narrow Beam	0 - 255	Green 8 bit on Narrow beam source	0 - 100%	linear
16.	Green Narrow Beam fine	0 - 255	Green 16 bit on Narrow beam source	0 - 100%	linear
17.	Blue Narrow Beam	0 - 255	Blue 8 bit on Narrow beam source	0 - 100%	linear
18.	Blue Narrow Beam fine	0 - 255	Blue 16 bit on Narrow beam source	0 - 100%	linear
19.	White Narrow Beam	0 - 255	White 8 bit on Narrow beam source	0 - 100%	linear
20.	White Narrow Beam fine	0 - 255	White 16 bit on Narrow beam source	0 - 100%	linear
21.	Strobe Main source	0 - 9	Strobe open - light output of main source on	open	constant
		10 - 19	Strobe closed - light output of main source off	closed	constant
		20 - 121	Strobe main source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of main source on	open	constant
		130 - 245	Main source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of main source on	open	constant

22.	Strobe Narrow source	0 - 9	Strobe open - light output of narrow beam source on	open	constant
		10 - 19	Strobe closed - light output of narrow beam source off	closed	constant
		20 - 121	Strobe narrow beam source with increasing frequency	0,5 Hz - 40 Hz	linear
		122 - 129	Strobe open - light output of narrow beam source on	open	constant
		130 - 245	Narrow beam source random strobe with increasing frequency	0,5 Hz - 40 Hz	linear
		246 - 255	Strobe open - light output of narrow beam source on	open	constant
23.	Colour wheel Main source	0 - 255	COLOUR WHEEL DESCRIBED in separated tab		
24.	Macro intensity	0 - 255	Intensity of macros	0 - 100%	linear
25.	Macro select	0 - 255	Select macro to be played	0 - X	constant
26.	Macro speed	0 - 255	Control of the speed of macro playback	0 - 100	linear
27.	Macro spread	0 - 255	The level of macro speed spread between the fixtures	0 - 100%	linear
28.	Control	0 - 30	No function	none	constant
		31 - 35	LED frequency 1.2kHz	1.2 kHz	constant
		36 - 40	LED frequency 2.4kHz	2.4 kHz	constant
		41 - 45	LED frequency 12kHz	12 kHz	constant
		46 - 60	Reserved for future porposes	none	constant
		61 - 65	Dimming curve linear	linear	constant
		66 - 70	Dimming curve logarythmic	log	constant
		71 - 75	Dimming curve expotential	exp	constant
		81 -95	Reserved for future porposes	none	constant
		96 - 100	Dimmer fade smooth	smooth	constant
		101 - 105	Dimmer fade fast	fast	constant

		106 - 120	Reserved for future porposes	none	constant
		121 - 125	Fan off - low power mode	off	constant
		126 - 130	Fan silent mode	silent	constant
		131 - 135	Fan smart mode	smart	constant
		136 - 140	Fan beast mode	beast	constant
		141 - 255	Reserved for future porposes	none	constant

CHANNEL DESCRIPTIONS

COLOUR WHEEL

DMX value	Color values			control type
0 - 10	Colour wheel open - doesn't affect lighting output			constant
11	White 3200K			constant
12	White 3300K			constant
13	White 3400K			constant
14	White 3500K			constant
15	White 3600K			constant
16	White 3700K			constant
17	White 3800K			constant
18	White 3900K			constant
19	White 4000K			constant
20	White 4100K			constant
21	White 4200K			constant
22	White 4300K			constant
23	White 4400K			constant
24	White 4500K			constant
25	White 4600K			constant
26	White 4700K			constant
27	White 4800K			constant
28	White 4900K			constant
29	White 5000K			constant
30	White 5100K			constant
31	White 5200K			constant
32	White 5300K			constant
33	White 5400K			constant
34	White 5500K			constant
35	White 5600K			constant
36	White 5700K			constant
37	White 5800K			constant
38	White 5900K			constant
39	White 6000K			constant
	RED VALUE	GREEN VALUE	BLUE VALUE	RESULT
40	255	0	0	
41	255	8	0	
42	255	16	0	
43	255	24	0	
44	255	32	0	
45	255	40	0	
46	255	48	0	
47	255	56	0	
48	255	64	0	
49	255	72	0	
50	255	80	0	
51	255	88	0	
52	255	96	0	
53	255	104	0	
54	255	112	0	
55	255	120	0	

56	255	128	0
57	255	136	0
58	255	144	0
59	255	152	0
60	255	160	0
61	255	168	0
62	255	176	0
63	255	184	0
64	255	192	0
65	255	200	0
66	255	208	0
67	255	216	0
68	255	224	0
69	255	232	0
70	255	240	0
71	255	248	0
72	255	255	0
73	247	255	0
74	239	255	0
75	231	255	0
76	223	255	0
77	215	255	0
78	207	255	0
79	199	255	0
80	191	255	0
81	183	255	0
82	175	255	0
83	167	255	0
84	159	255	0
85	151	255	0
86	143	255	0
87	135	255	0
88	127	255	0
89	119	255	0
90	111	255	0
91	103	255	0
92	95	255	0
93	87	255	0
94	79	255	0
95	71	255	0
96	63	255	0
97	55	255	0
98	47	255	0
99	39	255	0
100	31	255	0
101	23	255	0
102	15	255	0
103	7	255	0
104	0	255	0

105	0	255	7
106	0	255	14
107	0	255	21
108	0	255	28
109	0	255	35
110	0	255	42
111	0	255	49
112	0	255	56
113	0	255	63
114	0	255	70
115	0	255	77
116	0	255	84
117	0	255	91
118	0	255	98
119	0	255	105
120	0	255	112
121	0	255	119
122	0	255	126
123	0	255	133
124	0	255	140
125	0	255	147
126	0	255	154
127	0	255	161
128	0	255	168
129	0	255	175
130	0	255	182
131	0	255	189
132	0	255	196
133	0	255	203
134	0	255	210
135	0	255	217
136	0	255	224
137	0	255	231
138	0	255	238
139	0	255	245
140	0	255	252
141	0	255	255
142	0	247	255
143	0	239	255
144	0	231	255
145	0	223	255
146	0	215	255
147	0	207	255
148	0	199	255
149	0	191	255
150	0	183	255
151	0	175	255
152	0	167	255
153	0	159	255

154	0	151	255
155	0	143	255
156	0	135	255
157	0	127	255
158	0	119	255
159	0	111	255
160	0	103	255
161	0	95	255
162	0	87	255
163	0	79	255
164	0	71	255
165	0	63	255
166	0	55	255
167	0	47	255
168	0	39	255
169	0	31	255
170	0	23	255
171	0	15	255
172	0	7	255
173	0	0	255
174	8	0	255
175	16	0	255
176	24	0	255
177	32	0	255
178	40	0	255
179	48	0	255
180	56	0	255
181	64	0	255
182	72	0	255
183	80	0	255
184	88	0	255
185	96	0	255
186	104	0	255
187	112	0	255
188	120	0	255
189	128	0	255
190	136	0	255
191	144	0	255
192	152	0	255
193	160	0	255
194	168	0	255
195	176	0	255
196	184	0	255
197	192	0	255
198	200	0	255
199	208	0	255
200	216	0	255
201	224	0	255
202	232	0	255



203	240	0	255	
204	248	0	255	
205	255	0	255	
206	255	0	247	
207	255	0	239	
208	255	0	231	
209	255	0	223	
210	255	0	215	
211	255	0	207	
212	255	0	199	
213	255	0	191	
214	255	0	183	
215	255	0	175	
216	255	0	167	
217	255	0	159	
218	255	0	151	
219	255	0	143	
220	255	0	135	
221	255	0	127	
222	255	0	119	
223	255	0	111	
224	255	0	103	
225	255	0	95	
226	255	0	87	
227	255	0	79	
228	255	0	71	
229	255	0	63	
230	255	0	55	
231	255	0	47	
232	255	0	39	
233	255	0	31	
234	255	0	23	
235	255	0	15	
236	255	0	7	
237	255	0	0	
238 - 254	Colour wheel scroll with increasing speed			linear
255	Colour wheel open - doesn't affect lighting output			constant

Tungsten Emulation

DMX	CCT of main source (K)
0	0
1	1600K
2	1600K
3	1600K

4	1600K
5	1600K
6	1600K
7	1600K
8	1600K
9	1600K
10	1600K
11	1600K
12	1600K
13	1600K
14	1602K
15	1604K
16	1606K
17	1608K
18	1610K
19	1612K
20	1614K
21	1616K
22	1618K
23	1620K
24	1622K
25	1624K
26	1626K
27	1628K
28	1630K
29	1632K
30	1634K
31	1636K
32	1638K
33	1640K

34	1642K
35	1644K
36	1646K
37	1648K
38	1650K
39	1652K
40	1654K
41	1658K
42	1662K
43	1666K
44	1670K
45	1674K
46	1678K
47	1682K
48	1686K
49	1690K
50	1694K
51	1698K
52	1702K
53	1706K
54	1710K
55	1714K
56	1718K
57	1722K
58	1726K
59	1730K
60	1734K
61	1738K
62	1742K
63	1746K

64	1750K
65	1754K
66	1758K
67	1794K
68	1795K
69	1796K
70	1799K
71	1801K
72	1803K
73	1833K
74	1846K
75	1858K
76	1870K
77	1873K
78	1876K
79	1880K
80	1883K
81	1885K
82	1887K
83	1891K
84	1905K
85	1917K
86	1922K
87	1932K
88	1944K
89	1949K
90	1964K
91	1970K
92	1973K
93	1986K

94	1994K
95	2000K
96	2010K
97	2018K
98	2031K
99	2039K
100	2042K
101	2054K
102	2060K
103	2068K
104	2085K
105	2089K
106	2100K
107	2117K
108	2118K
109	2125K
110	2130K
111	2137K
112	2143K
113	2151K
114	2160K
115	2166K
116	2174K
117	2180K
118	2193K
119	2202K
120	2210K
121	2232K
122	2232K
123	2234K

124	2238K
125	2241K
126	2255K
127	2262K
128	2271K
129	2282K
130	2294K
131	2297K
132	2318K
133	2320K
134	2323K
135	2330K
136	2332K
137	2338K
138	2348K
139	2360K
140	2374K
141	2380K
142	2380K
143	2391K
144	2395K
145	2402K
146	2411K
147	2418K
148	2433K
149	2436K
150	2440K
151	2449K
152	2450K
153	2462K

154	2471K
155	2482K
156	2485K
157	2493K
158	2499K
159	2509K
160	2516K
161	2523K
162	2529K
163	2536K
164	2557K
165	2558K
166	2561K
167	2563K
168	2571K
169	2581K
170	2591K
171	2603K
172	2612K
173	2618K
174	2619K
175	2632K
176	2636K
177	2640K
178	2649K
179	2654K
180	2663K
181	2670K
182	2674K
183	2680K

184	2694K
185	2701K
186	2704K
187	2710K
188	2720K
189	2730K
190	2731K
191	2744K
192	2747K
193	2757K
194	2768K
195	2770K
196	2773K
197	2785K
198	2790K
199	2798K
200	2805K
201	2815K
202	2823K
203	2826K
204	2833K
205	2842K
206	2843K
207	2845K
208	2851K
209	2859K
210	2865K
211	2873K
212	2881K
213	2891K

214	2897K
215	2908K
216	2912K
217	2919K
218	2927K
219	2932K
220	2942K
221	2947K
222	2954K
223	2964K
224	2970K
225	2975K
226	2986K
227	2996K
228	3001K
229	3007K
230	3012K
231	3019K
232	3024K
233	3035K
234	3042K
235	3044K
236	3055K
237	3062K
238	3070K
239	3073K
240	3082K
241	3090K
242	3102K
243	3116K

244	3123K
245	3132K
246	3140K
247	3148K
248	3155K
249	3160K
250	3164K
251	3179K
252	3185K
253	3191K
254	3195K
255	3200K

Control Channel

NOTE: To change settings via control channel you should set the desire value and keep it for at least 5 seconds.

RDM data

Manufacturer ID	01CC
Model ID	0012
Device model description	OMNIRAY
Manufacturer Label	Portman Lights
Device label	OMNIRAY 1

Parameters supported:

Parameter ID
Software version ID
Sensor count

Sensor value
Sensor definition
Factory defaults
DMX start address
DMX personality
Colour Feedback System (ON/OFF)
Dimmer curve
Dimmer fade
Auto Key lock