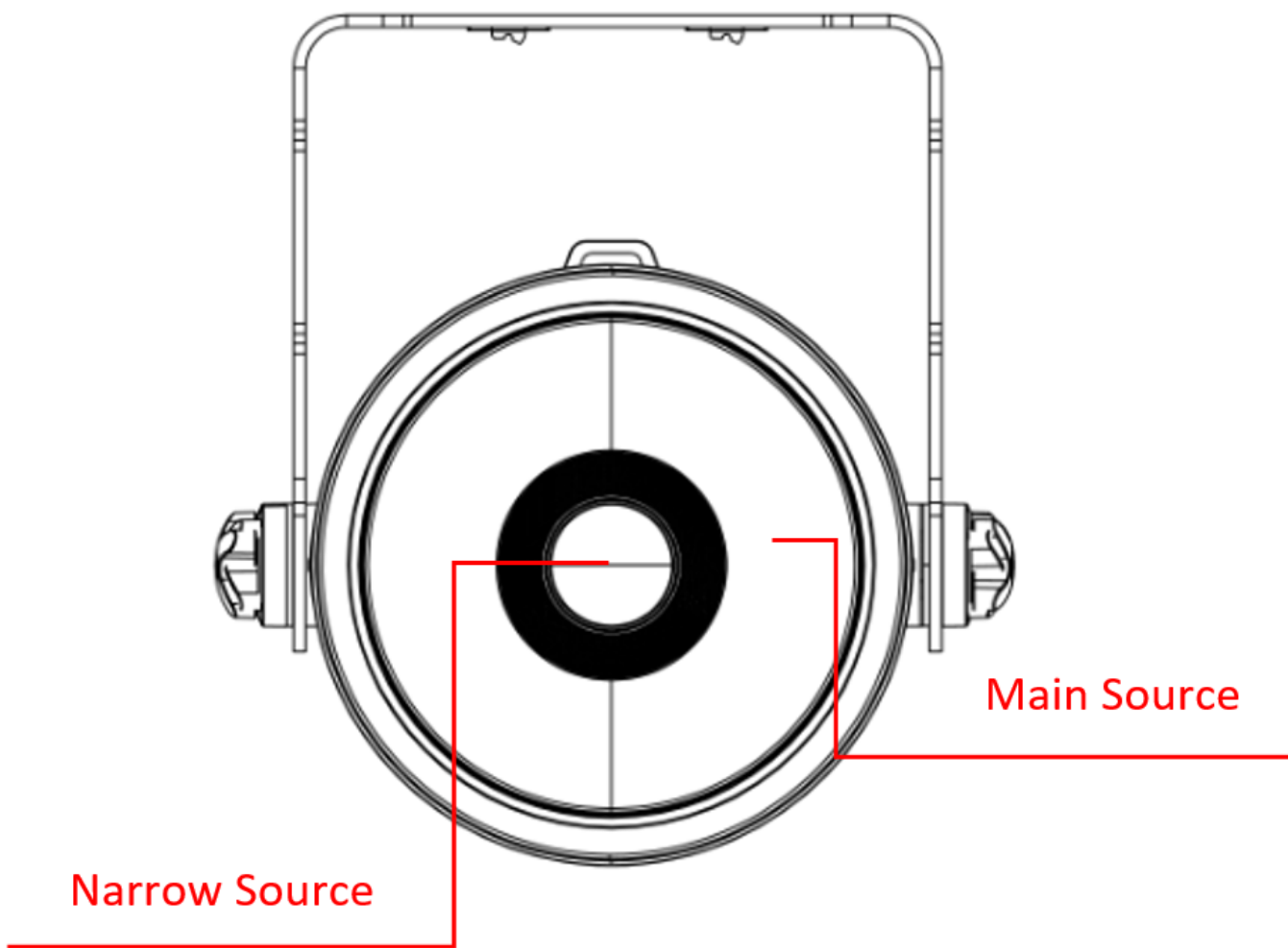


DMX CHART [OMNIRAY]

Source: Portman Lights support portal, <https://support.portmanlights.com/portal/en/kb/articles/dmx-chart-omniray> · article last updated 2025-04-25 · saved 2026-10-14

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 purposes	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

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.		0 - 255	COLOUR WHEEL DESCRIBED in separated tab		

	Colour wheel Main source				
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 expontential	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
			Main source random strobe with increasing frequency		linear

		130 - 245		0,5 Hz - 40 Hz	
		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 porposes	none	constant

Mode CCT 16B

DMX Chann el	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 Chann el	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
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
			Strobe open - light output of narrow beam source on	open	constant

		122 - 129			
		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 I	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
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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	

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