



DMX Mode Specification V5.0

LIGHTING - TECHNICAL INFORMATION

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Revision History

Date	L-Number	Page	Changes	Sign
26.08.2020	-	-	First Release	PM-SW
15.09.2020	L03616	13 - 22 26 - 27 43	Gels: 16 Bit Values added Sources: 16 Bit Values added Ultimate: 16 Bit Values at Color Mode Parameters " Gel Selection" and "Source Matching" added	PM-SW
20.04.2021	L03936	12 13 - 22 25	Gel Selection Modes: 16 Bit - Channel 05/06/07/08 - Correction 16 Bit Value "-" Gels table: 8 Bit values changed, 16 Bit values for Ultimate Mode corrected Source Matching Modes: 16 Bit - Channel 03/04 - Correction 16 Bit Value "-"	PM-SW
21.06.2021		all	Change of parameter names: "Frequency" --> "Speed"; "Speed" --> "Sequence" --> "Sync" --> "Trigger"	
25.05.2022		all all all all all all all	General change of mode numbers Beam control (Zoom / Focus / Reserved) channels added to each mode Renaming of "Reduced Channels" to "Operation" Operation Channel extended about "Color Sensor" and "Sync" Possibility to activate/deactivate Operation Channel More Gels available Integration of CCT & RGBACL Mode (previously mode 1 and 6) in RGBACL Mode	

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Revision History	2
Table of Content	3
Green / Magenta Point & Favorite Channel	4
Parameter Allocation	5
 DMX Protocol Specification	
CCT Modes 1 & 2	6
HSI Modes 3 & 4	8
x, y Coordinates Modes 5 & 6	10
Gel Selection Modes 7 & 8	12
Source Matching Modes 9 & 10	25
Lighting Effects Modes 11 & 12	29
RGBACL Modes 13 & 14.....	36
CCT & HSI Modes 15 & 16	39
Ultimate Modes 17 & 18	41
 Equations for Conversion	 47



Green / Magenta Point - Average Equivalents

Setting	Rosco #
Full -Green	3308
1/2 -Green	3313
1/4 -Green	3314
1/8 -Green	3318
Full +Green	3304
1/2 +Green	3315
1/4 +Green	3316
1/8 +Green	3317

Favorite Channel - DMX Value Allocation

DMX Channel	Parameter Name	Function	Value 8 Bit		% 8 Bit		% 8 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
Depending on DMX Mode	Favorites	No Effect	0	9	-	-	1*	-	-	-
	User Defined Favorites	Favorite 01	10	-	-	-	-	-	-	-
		Favorite 02	11	-	-	-	-	-	-	-
		Favorite 03	12	-	-	-	-	-	-	-
		Favorite 04	13	-	-	-	-	-	-	-
		Favorite 05	14	-	-	-	-	-	-	-
		Favorite 06	15	-	-	-	-	-	-	-
		...	...	-	-	-	-	-	-	-
		Favorite 246	255	-	-	-	-	-	-	-

* Providing a percentage less than "1" is not possible



Extended Color Control (ECC)

Parameter	Channel Layout		
	8 Bit	16 Bit	
		Hi	Lo
Warmer / Cooler	I + 1	I + 1	I + 2
Saturate / Desaturate	I + 2	I + 3	I + 4
+ Red / - Red	I + 3	I + 5	I + 6
+ Green / - Green	I + 4	I + 7	I + 8
+ Blue / - Blue	I + 5	I + 9	I + 10
+ Cyan / - Cyan	I + 6	I + 11	I + 12
+ Magenta / - Magenta	I + 7	I + 13	I + 14
+ Yellow / - Yellow	I + 8	I + 15	I + 16

I = Highest channel number of selected mode

Operation

Parameter	Channel Layout		
	8 Bit	16 Bit	
		Hi	Lo
Fan Control	ECC OFF: I + 1	-	-
	ECC ON: I + 8 + 1	-	-
Favorites	ECC OFF: I + 2	-	-
	ECC ON: I + 8 + 2	-	-
Light Strobe ²	ECC OFF: I + 3	-	-
	ECC ON: I + 8 + 3	-	-
Color Sensor	ECC OFF: I + 4	-	-
	ECC ON: I + 8 + 4	-	-
Sync	ECC OFF: I + 5	-	-
	ECC ON: I + 8 + 5	-	-

I = Highest channel number of selected mode

² Not available in DMX Effect Mode

DMX Value Allocation

Parameter	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
		Start	End	Start	End	Start	End	Start	End
Any	Neutral	0	19	0%	7%	0	4883	0%	7%
	- 1.000 → 0.000 (Neutral)	20	127	8%	50%	4884	32767	8%	50%
	Neutral	128	147	51%	57%	32768	37779	51%	57%
	0.000 (Neutral) → + 1.000	148	255	58%	100%	37780	65535	58%	100%



Product Line: **Orbiter**
Mode Version: **5.0**

Mode 1: 8 Bit
Mode 2: 16 Bit

Fixed Channels

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
01	01/02		Dimmer	Closed → Open	0	255	0%	100%	0	65535	0%	100%
02	03/04		Color Temperature CCT	2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
03	05/06		Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
				Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
				-99 % → -1 %	21	119	9%	47%	9831	30145	16%	46%
				Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
				1 % → 99 %	146	244	58%	96%	39977	60292	62%	92%
04	07		Zoom	Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
				No Effect	0	19	0%	7%	-	-	-	-
				Linear Spot - Flood (e.g. 20 [15°] ... 255 [30°])	20	255	8%	100%	-	-	-	-
05	08		Focus	No Effect	0	19	0%	7%	-	-	-	-
				Linear Focus	20	255	8%	100%	-	-	-	-
06	09		Reserved	-	0	255	0%	100%	-	-	-	-

Variable Channels

Extended Color Control (ECC)

If the DMX setting "ECC" is "OFF", the following channels shall be automatically eliminated from all DMX modes

8 Bit	16 Bit		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
	HI	LO			Start	End	Start	End	Start	End	Start	End
07	10	11	Warmer / Cooler	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Cool (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Warm (+1.000)	148	255	58%	100%	37780	65535	58%	100%
08	12	13	Saturate / Desaturate	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Desaturate (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Saturate (+1.000)	148	255	58%	100%	37780	65535	58%	100%
09	14	15	+ Red / - Red	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Red (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Red (+1.000)	148	255	58%	100%	37780	65535	58%	100%
10	16	17	+ Green / - Green	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Green (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Green (+1.000)	148	255	58%	100%	37780	65535	58%	100%
11	18	19	+ Blue / - Blue	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Blue (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Blue (+1.000)	148	255	58%	100%	37780	65535	58%	100%
12	20	21	+ Cyan / - Cyan	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Cyan (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Cyan (+1.000)	148	255	58%	100%	37780	65535	58%	100%
13	22	23	+ Magenta / - Magenta	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Magenta (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Magenta (+1.000)	148	255	58%	100%	37780	65535	58%	100%
14	24	25	+ Yellow / - Yellow	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Yellow (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Yellow (+1.000)	148	255	58%	100%	37780	65535	58%	100%

Operation

If the DMX setting "Operation" is "OFF", the following channels shall be automatically eliminated from all DMX modes

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
ECC	ECC		Fan Control	Use Fan Mode Setting of Fixture Menu	0	9	0%	3%	-	-	-	-
OFF	OFF		<i>Note: Fan Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Quiet, Fan Speed Fixed	10	57	4%	22%	-	-	-	-
07	10			Variable, Fan Speed Variable	58	105	23%	41%	-	-	-	-
				High Temp, Fan Speed Fixed	106	153	42%	60%	-	-	-	-
ECC	ECC			Reserved	154	201	61%	78%	-	-	-	-
ON	ON			Fan at Full Speed	202	249	79%	98%	-	-	-	-
15	26			Fan Off	250	255	99%	100%	-	-	-	-
ECC	ECC		Favorites	No Effect	0	9	1*	-	-	-	-	-
OFF	OFF		User Defined Favorites	Favorite 01	10	-	-	-	-	-	-	-
08	11			Favorite 02	11	-	-	-	-	-	-	-
				Favorite 03	12	-	-	-	-	-	-	-
ECC	ECC			Favorite 04	13	-	-	-	-	-	-	-
ON	ON			Favorite 05	14	-	-	-	-	-	-	-
16	27			Favorite 06	15	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
				Favorite 246	255	-	-	-	-	-	-	-
ECC	ECC		Light Strobe ²	No Effect	0	19	0%	7%	-	-	-	-
OFF	OFF			1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
09	12											
ECC	ECC											
ON	ON											
17	28											
ECC	ECC		Color Sensor	Off	0	19	0%	7%	-	-	-	-
OFF	OFF		<i>Note: Color Sensor Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Continuous	20	127	8%	50%	-	-	-	-
10	13			Momentary - Once Activated	128	255	51%	100%	-	-	-	-
ECC	ECC											
ON	ON											
18	29											
ECC	ECC		Sync	No Effect / Reverts to internal setting	0	19	0%	7%	-	-	-	-
OFF	OFF		<i>Note: Sync Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Sync Mode OFF	20	39	8%	15%	-	-	-	-
11	14			Sync Mode ON	40	59	16%	23%	-	-	-	-
				Reserved	60	255	24%	100%	-	-	-	-
ECC	ECC			(No Effect / Reverts to internal setting)								
ON	ON											
19	30											

* Providing a percentage less than "1" is not possible

² Not available in DMX Effect Mode

[See page 5 for more information.](#)



Product Line: **Orbiter**
Mode Version: **5.0**

Mode 3: 8 Bit
Mode 4: 16 Bit

Fixed Channels

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
01	01/02		Dimmer	Closed → Open	0	255	0%	100%	0	65535	0%	100%
02	03/04		Hue	0 ° → 360°	0	255	0%	100%	0	65535	0%	100%
03	05/06		Saturation	0 → Full Saturation	0	255	0%	100%	0	65535	0%	100%
04	07		Zoom	No Effect	0	19	0%	7%	-	-	-	-
				Linear Spot - Flood (e.g. 20 [15°] ... 255 [30°])	20	255	8%	100%	-	-	-	-
05	08		Focus	No Effect	0	19	0%	7%	-	-	-	-
				Linear Focus	20	255	8%	100%	-	-	-	-
06	09		Reserved	-	0	255	0%	100%	-	-	-	-

Variable Channels

Extended Color Control (ECC)

If the DMX setting "ECC" is "OFF", the following channels shall be automatically eliminated from all DMX modes

8 Bit	16 Bit		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
	HI	LO			Start	End	Start	End	Start	End	Start	End
07	10	11	Warmer / Cooler	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Cool (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Warm (+1.000)	148	255	58%	100%	37780	65535	58%	100%
08	12	13	Saturate / Desaturate	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Desaturate (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Saturate (+1.000)	148	255	58%	100%	37780	65535	58%	100%
09	14	15	+ Red / - Red	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Red (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Red (+1.000)	148	255	58%	100%	37780	65535	58%	100%
10	16	17	+ Green / - Green	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Green (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Green (+1.000)	148	255	58%	100%	37780	65535	58%	100%
11	18	19	+ Blue / - Blue	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Blue (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Blue (+1.000)	148	255	58%	100%	37780	65535	58%	100%
12	20	21	+ Cyan / - Cyan	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Cyan (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Cyan (+1.000)	148	255	58%	100%	37780	65535	58%	100%
13	22	23	+ Magenta / - Magenta	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Magenta (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Magenta (+1.000)	148	255	58%	100%	37780	65535	58%	100%
14	24	25	+ Yellow / - Yellow	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Yellow (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Yellow (+1.000)	148	255	58%	100%	37780	65535	58%	100%

Operation

If the DMX setting "Operation" is "OFF", the following channels shall be automatically eliminated from all DMX modes

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
ECC	ECC		Fan Control	Use Fan Mode Setting of Fixture Menu	0	9	0%	3%	-	-	-	-
OFF	OFF		<i>Note: Fan Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Quiet, Fan Speed Fixed	10	57	4%	22%	-	-	-	-
07	10			Variable, Fan Speed Variable	58	105	23%	41%	-	-	-	-
				High Temp, Fan Speed Fixed	106	153	42%	60%	-	-	-	-
ECC	ECC			Reserved	154	201	61%	78%	-	-	-	-
ON	ON			Fan at Full Speed	202	249	79%	98%	-	-	-	-
15	26			Fan Off	250	255	99%	100%	-	-	-	-
ECC	ECC		Favorites	No Effect	0	9	1*	-	-	-	-	-
OFF	OFF		User Defined Favorites	Favorite 01	10	-	-	-	-	-	-	-
08	11			Favorite 02	11	-	-	-	-	-	-	-
				Favorite 03	12	-	-	-	-	-	-	-
ECC	ECC			Favorite 04	13	-	-	-	-	-	-	-
ON	ON			Favorite 05	14	-	-	-	-	-	-	-
16	27			Favorite 06	15	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
				Favorite 246	255	-	-	-	-	-	-	-
ECC	ECC		Light Strobe ²	No Effect	0	19	0%	7%	-	-	-	-
OFF	OFF			1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
09	12											
ECC	ECC		Color Sensor	Off	0	19	0%	7%	-	-	-	-
OFF	OFF			Continuous	20	127	8%	50%	-	-	-	-
10	13			Momentary - Once Activated	128	255	51%	100%	-	-	-	-
ECC	ECC											
ON	ON											
18	29											
ECC	ECC		Sync	No Effect / Reverts to internal setting	0	19	0%	7%	-	-	-	-
OFF	OFF			Sync Mode OFF	20	39	8%	15%	-	-	-	-
11	14			Sync Mode ON	40	59	16%	23%	-	-	-	-
				Reserved	60	255	24%	100%	-	-	-	-
ECC	ECC			(No Effect / Reverts to internal setting)								
ON	ON											
19	30											

* Providing a percentage less than "1" is not possible

² Not available in DMX Effect Mode

[See page 5 for more information.](#)



Product Line: **Orbiter**
Mode Version: **5.0**

Mode 5: 8 Bit
Mode 6: 16 Bit

Fixed Channels

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
01	01/02		Dimmer	Closed → Open	0	255	0%	100%	0	65535	0%	100%
02	03/04		X Coordinate	0.0 - 0.8	0	255	0%	100%	0	65535	0%	100%
03	05/06		Y Coordinate	0.0 - 0.8	0	255	0%	100%	0	65535	0%	100%
04	07		Zoom	No Effect	0	19	0%	7%	-	-	-	-
				Linear Spot - Flood (e.g. 20 [15°] ... 255 [30°])	20	255	8%	100%	-	-	-	-
05	08		Focus	No Effect	0	19	0%	7%	-	-	-	-
				Linear Focus	20	255	8%	100%	-	-	-	-
06	09		Reserved	-	0	255	0%	100%	-	-	-	-

Variable Channels

Extended Color Control (ECC)

If the DMX setting "ECC" is "OFF", the following channels shall be automatically eliminated from all DMX modes

8 Bit	16 Bit		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
	HI	LO			Start	End	Start	End	Start	End	Start	End
07	10	11	Warmer / Cooler	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Cool (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Warm (+1.000)	148	255	58%	100%	37780	65535	58%	100%
08	12	13	Saturate / Desaturate	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Desaturate (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Saturate (+1.000)	148	255	58%	100%	37780	65535	58%	100%
09	14	15	+ Red / - Red	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Red (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Red (+1.000)	148	255	58%	100%	37780	65535	58%	100%
10	16	17	+ Green / - Green	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Green (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Green (+1.000)	148	255	58%	100%	37780	65535	58%	100%
11	18	19	+ Blue / - Blue	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Blue (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Blue (+1.000)	148	255	58%	100%	37780	65535	58%	100%
12	20	21	+ Cyan / - Cyan	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Cyan (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Cyan (+1.000)	148	255	58%	100%	37780	65535	58%	100%
13	22	23	+ Magenta / - Magenta	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Magenta (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Magenta (+1.000)	148	255	58%	100%	37780	65535	58%	100%
14	24	25	+ Yellow / - Yellow	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Yellow (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Yellow (+1.000)	148	255	58%	100%	37780	65535	58%	100%

Operation

If the DMX setting "Operation" is "OFF", the following channels shall be automatically eliminated from all DMX modes

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
ECC OFF 07	ECC OFF 10		Fan Control <i>Note: Fan Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Use Fan Mode Setting of Fixture Menu	0	9	0%	3%	-	-	-	-
				Quiet, Fan Speed Fixed	10	57	4%	22%	-	-	-	-
				Variable, Fan Speed Variable	58	105	23%	41%	-	-	-	-
				High Temp, Fan Speed Fixed	106	153	42%	60%	-	-	-	-
				Reserved	154	201	61%	78%	-	-	-	-
				Fan at Full Speed	202	249	79%	98%	-	-	-	-
				Fan Off	250	255	99%	100%	-	-	-	-
ECC ON 15	ECC ON 26											
ECC OFF 08	ECC OFF 11		Favorites User Defined Favorites	No Effect	0	9	1*	-	-	-	-	-
				Favorite 01	10	-	-	-	-	-	-	-
				Favorite 02	11	-	-	-	-	-	-	-
				Favorite 03	12	-	-	-	-	-	-	-
				Favorite 04	13	-	-	-	-	-	-	-
				Favorite 05	14	-	-	-	-	-	-	-
				Favorite 06	15	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
ECC ON 16	ECC ON 27			Favorite 246	255	-	-	-	-	-	-	-
ECC OFF 09	ECC OFF 12		Light Strobe ²	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
ECC ON 17	ECC ON 28											
ECC OFF 10	ECC OFF 13		Color Sensor <i>Note: Color Sensor Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Off	0	19	0%	7%	-	-	-	-
				Continuous	20	127	8%	50%	-	-	-	-
				Momentary - Once Activated	128	255	51%	100%	-	-	-	-
ECC ON 18	ECC ON 29											
ECC OFF 11	ECC OFF 14		Sync <i>Note: Sync Mode reverts to fixture menu setting, when DMX signal is lost.</i>	No Effect / Reverts to internal setting	0	19	0%	7%	-	-	-	-
				Sync Mode OFF	20	39	8%	15%	-	-	-	-
				Sync Mode ON	40	59	16%	23%	-	-	-	-
				Reserved (No Effect / Reverts to internal setting)	60	255	24%	100%	-	-	-	-
ECC ON 19	ECC ON 30											

* Providing a percentage less than "1" is not possible

² Not available in DMX Effect Mode

[See page 5 for more information.](#)



Product Line: **Orbiter**
Mode Version: **5.0**

Mode 7: 8 Bit
Mode 8: 16 Bit

Fixed Channels

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
01	01/02		Dimmer	Closed → Open	0	255	0%	100%	0	65535	0%	100%
02	03/04	GEL	Gel, CCT Selection	2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
03	05	GEL	Gel, Color Matching Selection	Best Color <i>Note: Color Quality Optimized</i>	0	84	0%	33%	-	-	-	-
				Brightest <i>Note: Color Brightness Optimized</i>	85	170	34%	66%	-	-	-	-
				No Color Gel	171	255	67%	100%	-	-	-	-
04	06	GEL	Gel, Brand	Choose Category on Channel 5, Gel on Channel 6								
				Rosco	0	127	0%	50%	-	-	-	-
				LEE Filters	128	255	51%	100%	-	-	-	-
05	07	GEL	Gel, Category (Brand Dependent)	Choose Gel Manufacturer on Channel 4								
				Category 1 Rosco: Color Correction LEE: Color Correction	0	50	0%	20%	-	-	-	-
				Category 2 Rosco: CalColor LEE: Color Filters	51	101	21%	39%	-	-	-	-
				Category 3 Rosco: Storaro Selection LEE: 600 Series	102	152	40%	60%	-	-	-	-
				Category 4 Rosco: Roscolux LEE: Cosmetic Filters	153	203	61%	80%	-	-	-	-
				Category 5 LEE: 700 Series	204	255	81%	100%	-	-	-	-
06	08	GEL	Gel	See "Gels" Table	0	255	0%	100%	-	-	-	-
07	09		Zoom	No Effect	0	19	0%	7%	-	-	-	-
				Linear Spot - Flood (e.g. 20 [15°] ... 255 [30°])	20	255	8%	100%	-	-	-	-
08	10		Focus	No Effect	0	19	0%	7%	-	-	-	-
				Linear Focus	20	255	8%	100%	-	-	-	-
09	11		Reserved	-	0	255	0%	100%	-	-	-	-

Category 1 | Rosco: Color Correction

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Full CTB	3202	0	-	256	-
		3/4 CTB	3203	1	-	512	-
		1/2 CTB	3204	2	-	768	-
		1/3 CTB	3206	3	-	1024	-
		1/4 CTB	3208	4	-	1280	-
		1/8 CTB	3216	5	-	1536	-
		Double CTB	3220	6	-	1792	-
		Full CTO	3407	7	-	2048	-
		3/4 CTO	3411	8	-	2304	-
		1/2 CTO	3408	9	-	2560	-
		1/4 CTO	3409	10	-	2816	-
		1/8 CTO	3410	11	-	3072	-
		Double CTO	3420	12	-	3328	-
		Full CTS	3441	13	-	3584	-
		1/2 CTS	3442	14	-	3840	-
		1/4 CTS	3443	15	-	4096	-
		1/8 CTS	3444	16	-	4352	-
		Full Plusgreen	3304	17	-	4608	-
		1/2 Plusgreen	3315	18	-	4864	-
		1/4 Plusgreen	3316	19	-	5120	-
		1/8 Plusgreen	3317	20	-	5376	-
		Full Minusgreen	3308	21	-	5632	-
		3/4 Minusgreen	3309	22	-	5888	-
		1/2 Minusgreen	3313	23	-	6144	-
		1/4 Minusgreen	3314	24	-	6400	-
		1/8 Minusgreen	3318	25	-	6656	-
		Fluorofilter	3310	26	-	6912	-
		Industrial Vapor	3150	27	-	7168	-
		Urban Vapor	3152	28	-	7424	-
		Tough Y-1	3107	29	-	7680	-
		Tough MT 54	3134	30	-	7936	-
		Tough MTY	3106	31	-	8192	-
		Tough MT2	3102	32	-	8448	-
		Reserved for Future Use	-	33 - 255	-	8449 - 65535	-

Category 2 | Rosco: CalColor

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		15 Blue	4215	0	-	256	-
		30 Blue	4230	1	-	512	-
		60 Blue	4260	2	-	768	-
		90 Blue	4290	3	-	1024	-
		7 Cyan	4307	4	-	1280	-
		15 Cyan	4315	5	-	1536	-
		30 Cyan	4330	6	-	1792	-
		60 Cyan	4360	7	-	2048	-
		90 Cyan	4390	8	-	2304	-
		15 Green	4415	9	-	2560	-
		30 Green	4430	10	-	2816	-
		60 Green	4460	11	-	3072	-
		90 Green	4490	12	-	3328	-
		15 Yellow	4515	13	-	3584	-
		30 Yellow	4530	14	-	3840	-
		60 Yellow	4560	15	-	4096	-
		90 Yellow	4590	16	-	4352	-
		15 Red	4615	17	-	4608	-
		30 Red	4630	18	-	4864	-
		60 Red	4660	19	-	5120	-
		90 Red	4690	20	-	5376	-
		15 Magenta	4715	21	-	5632	-
		30 Magenta	4730	22	-	5888	-
		60 Magenta	4760	23	-	6144	-
		90 Magenta	4790	24	-	6400	-
		15 Pink	4815	25	-	6656	-
		30 Pink	4830	26	-	6912	-
		60 Pink	4860	27	-	7168	-
		90 Pink	4890	28	-	7424	-
		15 Lavender	4915	29	-	7680	-
		30 Lavender	4930	30	-	7936	-
		60 Lavender	4960	31	-	8192	-
		90 Lavender	4990	32	-	8448	-
		Reserved for Future Use	-	33 - 255	-	8449 - 65535	-

Category 3 | Rosco: Storaro Selection

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		VS Red	2001	0	-	256	-
		VS Orange	2002	1	-	512	-
		VS Yellow	2003	2	-	768	-
		VS Green	2004	3	-	1024	-
		VS Cyan	2005	4	-	1280	-
		VS Azure	2006	5	-	1536	-
		VS Blue	2007	6	-	1792	-
		VS Indigo	2008	7	-	2048	-
		VS Violet	2009	8	-	2304	-
		VS Magenta	2010	9	-	2560	-
		Reserved for Future Use	-	10 - 255	-	2561 - 65535	-

Category 4 | Rosco: Roscolux

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Light Bastard Amber	1	0	-	256	-
		Bastard Amber	2	1	-	512	-
		Pale Bastard Amber	302	2	-	768	-
		Dark Bastard Amber	3	3	-	1024	-
		Warm Peach	303	4	-	1280	-
		Medium Bastard Amber	4	5	-	1536	-
		Pale Apricot	304	6	-	1792	-
		Rose Tint	5	7	-	2048	-
		Rose Gold	305	8	-	2304	-
		No Color Straw	6	9	-	2560	-
		Pale Yellow	7	10	-	2816	-
		Pale Gold	8	11	-	3072	-
		Pale Amber Gold	9	12	-	3328	-
		Medium Yellow	10	13	-	3584	-
		Daffodil	310	14	-	3840	-
		Light Straw	11	15	-	4096	-
		Straw	12	16	-	4352	-
		Canary	312	17	-	4608	-
		Straw Tint	13	18	-	4864	-
		Light Relief Yellow	313	19	-	5120	-
		Medium Straw	14	20	-	5376	-
		Deep Straw	15	21	-	5632	-
		Light Amber	16	22	-	5888	-
		Gallo Gold	316	23	-	6144	-
		Light Flame	17	24	-	6400	-
		Apricot	317	25	-	6656	-
		Flame	18	26	-	6912	-
		Mayan Sun	318	27	-	7168	-
		Fire	19	28	-	7424	-
		Medium Amber	20	29	-	7680	-
		Golden Amber	21	30	-	7936	-
		Soft Golden Amber	321	31	-	8192	-
		Deep Amber	22	32	-	8448	-
		Orange	23	33	-	8704	-
		Henna Sky	325	34	-	8960	-
		Scarlet	24	35	-	9216	-
		Gypsy Red	324	36	-	9472	-
		Orange Red	25	37	-	9728	-
		Light Red	26	38	-	9984	-
		Medium Red	27	39	-	10240	-
		Light Salmon Pink	30	40	-	10496	-
		Salmon Pink	31	41	-	10752	-
		Shell Pink	331	42	-	11008	-
		Medium Salmon Pink	32	43	-	11264	-
		Cherry Rose	332	44	-	11520	-
		No Color Pink	33	45	-	11776	-
		Blush Pink	333	46	-	12032	-
		Flesh Pink	34	47	-	12288	-
		Light Pink	35	48	-	12544	-
		Medium Pink	36	49	-	12800	-
		Billinton Pink	336	50	-	13056	-
		Pale Rose Pink	37	51	-	13312	-
		True Pink	337	52	-	13568	-
		Light Rose	38	53	-	13824	-
		Skelton Exotic Sangria	39	54	-	14080	-
		Broadway Pink	339	55	-	14336	-
		Light Salmon	40	56	-	14592	-
		Salmon	41	57	-	14848	-
		Deep Salmon	42	58	-	15104	-
		Rose Pink	342	59	-	15360	-

Category 4 | Rosco: Roscolux (continued)

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Deep Pink	43	60	-	15616	-
		Neon Pink	343	61	-	15872	-
		Middle Rose	44	62	-	16128	-
		Follies Pink	344	63	-	16384	-
		Rose	45	64	-	16640	-
		Magenta	46	65	-	16896	-
		Tropical Magenta	346	66	-	17152	-
		Light Rose Purple	47	67	-	17408	-
		Belladonna Rose	347	68	-	17664	-
		Rose Purple	48	69	-	17920	-
		Purple Jazz	348	70	-	18176	-
		Medium Purple	49	71	-	18432	-
		Fisher Fuchsia	349	72	-	18688	-
		Mauve	50	73	-	18944	-
		Surprise Pink	51	74	-	19200	-
		Lavender Mist	351	75	-	19456	-
		Light Lavender	52	76	-	19712	-
		Pale Lavender	53	77	-	19968	-
		Lilly Lavender	353	78	-	20224	-
		Special Lavender	54	79	-	20480	-
		Lilac	55	80	-	20736	-
		Pale Violet	355	81	-	20992	-
		Gypsy Lavender	56	82	-	21248	-
		Middle Lavender	356	83	-	21504	-
		Lavender	57	84	-	21760	-
		Royal Lavender	357	85	-	22016	-
		Deep Lavender	58	86	-	22272	-
		Rose Indigo	358	87	-	22528	-
		Indigo	59	88	-	22784	-
		Medium Violet	359	89	-	23040	-
		No Color Blue	60	90	-	23296	-
		Clearwater	360	91	-	23552	-
		Mist Blue	61	92	-	23808	-
		Hemsley Blue	361	93	-	24064	-
		Booster Blue	62	94	-	24320	-
		Tipton Blue	362	95	-	24576	-
		Pale Blue	63	96	-	24832	-
		Aquamarine	363	97	-	25088	-
		Light Steel Blue	64	98	-	25344	-
		Blue Bell	364	99	-	25600	-
		Daylight Blue	65	100	-	25856	-
		Tharon Delft Blue	365	101	-	26112	-
		Cool Blue	66	102	-	26368	-
		Jordan Blue	366	103	-	26624	-
		Light Sky Blue	67	104	-	26880	-
		Slate Blue	367	105	-	27136	-
		Parry Sky Blue	68	106	-	27392	-
		Winkler Blue	368	107	-	27648	-
		Brilliant Blue	69	108	-	27904	-
		Tahitian Blue	369	109	-	28160	-
		Nile Blue	70	110	-	28416	-
		Italian Blue	370	111	-	28672	-
		Sea Blue	71	112	-	28928	-
		Azure Blue	72	113	-	29184	-
		Peacock Blue	73	114	-	29440	-
		Night Blue	74	115	-	29696	-
		Sea Green	374	116	-	29952	-
		Twilight Blue	75	117	-	30208	-
		Cerulean Blue	375	118	-	30464	-
		Light Green Blue	76	119	-	30720	-

Category 4 | Rosco: Roscolux (continued)

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Bermuda Blue	376	120	-	30976	-
		Green Blue	77	121	-	31232	-
		Iris Purple	377	122	-	31488	-
		Trudy Blue	78	123	-	31744	-
		Alice Blue	378	124	-	32000	-
		Bright Blue	79	125	-	32256	-
		Primary Blue	80	126	-	32512	-
		Urban Blue	81	127	-	32768	-
		Baldassari Blue	381	128	-	33024	-
		Surprise Blue	82	129	-	33280	-
		Congo Blue	382	130	-	33536	-
		Medium Blue	83	131	-	33792	-
		Sapphire Blue	383	132	-	34048	-
		Zephyr Blue	84	133	-	34304	-
		Midnight Blue	384	134	-	34560	-
		Deep Blue	85	135	-	34816	-
		Royal Blue	385	136	-	35072	-
		Pea Green	86	137	-	35328	-
		Leaf Green	386	138	-	35584	-
		Pale Yellow Green	87	139	-	35840	-
		Light Green	88	140	-	36096	-
		Gaslight Green	388	141	-	36352	-
		Moss Green	89	142	-	36608	-
		Chroma Green	389	143	-	36864	-
		Primary Green	91	144	-	37120	-
		Pacific Green	392	145	-	37376	-
		Turquoise	92	146	-	37632	-
		Blue Green	93	147	-	37888	-
		Emerald Green	393	148	-	38144	-
		Teal Green	395	149	-	38400	-
		Lime	96	150	-	38656	-
		Pale Grey	397	151	-	38912	-
		Neutral Grey	398	152	-	39168	-
		Chocolate	99	153	-	39424	-
		Reserved for Future Use	-	154 - 255	-	39425 - 65535	-

Category 1 | Lee: Color Correction

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Double CTB	200	0	-	256	-
		Full CTB	201	1	-	512	-
		3/4 CTB	281	2	-	768	-
		1/2 CTB	202	3	-	1024	-
		1/4 CTB	203	4	-	1280	-
		1/8 CTB	218	5	-	1536	-
		Double CTO	287	6	-	1792	-
		Full CTO	204	7	-	2048	-
		3/4 CTO	285	8	-	2304	-
		1/2 CTO	205	9	-	2560	-
		1/4 CTO	206	10	-	2816	-
		1/8 CTO	223	11	-	3072	-
		1 1/2 CTB	283	12	-	3328	-
		1 1/2 CTO	286	13	-	3584	-
		Full CTS	441	14	-	3840	-
		1/2 CTS	442	15	-	4096	-
		1/4 CTS	443	16	-	4352	-
		1/8 CTS	444	17	-	4608	-
		Full CTO + .3 ND	207	18	-	4864	-
		Full CTO + .6 ND	208	19	-	5120	-
		L.C.T. Yellow (Y1)	212	20	-	5376	-
		White Flame Green	213	21	-	5632	-
		LEE Fluorescent Green	219	22	-	5888	-
		Super Correction L.C.T. Yellow	230	23	-	6144	-
		Super Correction W.F. Green	232	24	-	6400	-
		H.M.I. (to Tungsten)	236	25	-	6656	-
		C.I.D. (to Tungsten)	237	26	-	6912	-
		C.S.I. (to Tungsten)	238	27	-	7168	-
		LEE Fluorescent 5700 Kelvin	241	28	-	7424	-
		LEE Fluorescent 4300 Kelvin	242	29	-	7680	-
		LEE Fluorescent 3600 Kelvin	243	30	-	7936	-
		LEE Plus Green	244	31	-	8192	-
		1/2 Plus Green	245	32	-	8448	-
		1/4 Plus Green	246	33	-	8704	-
		1/8 Plus Green	278	34	-	8960	-
		Lee Minus Green	247	35	-	9216	-
		1/2 Minus Green	248	36	-	9472	-
		1/4 Minus Green	249	37	-	9728	-
		1/8 Minus Green	279	38	-	9984	-
		Reserved for Future Use	-	39 - 255	-	9985 - 65535	-

Category 2 | Lee: Color Filters

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Rose Pink	002	0	-	256	-
		Lavender Tint	003	1	-	512	-
		Medium Bastard Amber	004	2	-	768	-
		Pale Yellow	007	3	-	1024	-
		Dark Salmon	008	4	-	1280	-
		Pale Amber Gold	009	5	-	1536	-
		Medium Yellow	010	6	-	1792	-
		Straw Tint	013	7	-	2048	-
		Deep Straw	015	8	-	2304	-
		Surprise Peach	017	9	-	2560	-
		Fire	019	10	-	2816	-
		Medium Amber	020	11	-	3072	-
		Gold Amber	021	12	-	3328	-
		Dark Amber	022	13	-	3584	-
		Scarlet	024	14	-	3840	-
		Sunset Red	025	15	-	4096	-
		Bright Red	026	16	-	4352	-
		Medium Red	027	17	-	4608	-
		PLASA Red	029	18	-	4864	-
		Light Pink	035	19	-	5120	-
		Medium Pink	036	20	-	5376	-
		Dark Magenta	046	21	-	5632	-
		Rose Purple	048	22	-	5888	-
		Medium Purple	049	23	-	6144	-
		Light Lavender	052	24	-	6400	-
		Paler Lavender	053	25	-	6656	-
		Lavender	058	26	-	6912	-
		Mist Blue	061	27	-	7168	-
		Pale Blue	063	28	-	7424	-
		Sky Blue	068	29	-	7680	-
		Tokyo Blue	071	30	-	7936	-
		Evening Blue	075	31	-	8192	-
		Just Blue	079	32	-	8448	-
		Deeper Blue	085	33	-	8704	-
		Lime Green	088	34	-	8960	-
		Moss Green	089	35	-	9216	-
		Dark Yellow Green	090	36	-	9472	-
		Spring Yellow	100	37	-	9728	-
		Yellow	101	38	-	9984	-
		Light Amber	102	39	-	10240	-
		Straw	103	40	-	10496	-
		Deep Amber	104	41	-	10752	-
		Orange	105	42	-	11008	-
		Primary Red	106	43	-	11264	-
		Light Rose	107	44	-	11520	-
		English Rose	108	45	-	11776	-
		Light Salmon	109	46	-	12032	-
		Middle Rose	110	47	-	12288	-
		Dark Pink	111	48	-	12544	-
		Magenta	113	49	-	12800	-
		Peacock Blue	115	50	-	13056	-
		Medium Blue-Green	116	51	-	13312	-
		Steel Blue	117	52	-	13568	-
		Light Blue	118	53	-	13824	-
		Dark Blue	119	54	-	14080	-
		Deep Blue	120	55	-	14336	-
		LEE Green	121	56	-	14592	-
		Fern Green	122	57	-	14848	-
		Dark Green	124	58	-	15104	-
		Mauve	126	59	-	15360	-

Category 2 | Lee: Color Filters (continued)

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Smokey Pink	127	60	-	15616	-
		Bright Pink	128	61	-	15872	-
		Marine Blue	131	62	-	16128	-
		Medium Blue	132	63	-	16384	-
		Golden Amber	134	64	-	16640	-
		Deep Golden Amber	135	65	-	16896	-
		Pale Lavender	136	66	-	17152	-
		Special Lavender	137	67	-	17408	-
		Pale Green	138	68	-	17664	-
		Primary Green	139	69	-	17920	-
		Summer Blue	140	70	-	18176	-
		Bright Blue	141	71	-	18432	-
		Pale Violet	142	72	-	18688	-
		Pale Navy Blue	143	73	-	18944	-
		No Color Blue	144	74	-	19200	-
		Apricot	147	75	-	19456	-
		Bright Rose	148	76	-	19712	-
		Gold Tint	151	77	-	19968	-
		Pale Gold	152	78	-	20224	-
		Pale Salmon	153	79	-	20480	-
		Pale Rose	154	80	-	20736	-
		Chocolate	156	81	-	20992	-
		Pink	157	82	-	21248	-
		Deep Orange	158	83	-	21504	-
		No Color Straw	159	84	-	21760	-
		Slate Blue	161	85	-	22016	-
		Bastard Amber	162	86	-	22272	-
		Flame Red	164	87	-	22528	-
		Daylight Blue	165	88	-	22784	-
		Lilac Tint	169	89	-	23040	-
		Deep Lavender	170	90	-	23296	-
		Lagoon Blue	172	91	-	23552	-
		Dark Steel Blue	174	92	-	23808	-
		Loving Amber	176	93	-	24064	-
		Chrome Orange	179	94	-	24320	-
		Dark Lavender	180	95	-	24576	-
		Congo Blue	181	96	-	24832	-
		Light Red	182	97	-	25088	-
		Moonlight Blue	183	98	-	25344	-
		Flesh Pink	192	99	-	25600	-
		Surprise Pink	194	100	-	25856	-
		Zenith Blue	195	101	-	26112	-
		True Blue	196	102	-	26368	-
		Alice Blue	197	103	-	26624	-
		Palace Blue	198	104	-	26880	-
		Regal Blue	199	105	-	27136	-
		Soft Green	322	106	-	27392	-
		Jade	323	107	-	27648	-
		Forest Green	327	108	-	27904	-
		Follies Pink	328	109	-	28160	-
		Special Rose Pink	332	110	-	28416	-
		Special Med Lavender	343	111	-	28672	-
		Fuchsia Pink	345	112	-	28928	-
		Glacier Blue	352	113	-	29184	-
		Lighter Blue	353	114	-	29440	-
		Special Steel Blue	354	115	-	29696	-
		Special Medium Blue	363	116	-	29952	-
		Cornflower	366	117	-	30208	-
		Double New Colour Blue	500	118	-	30464	-
		New Colour Robertson	501	119	-	30720	-

Category 2 | Lee: Color Filters (continued)

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Half New Colour Blue	502	120	-	30976	-
		Quarter New Colour Blue	503	121	-	31232	-
		Waterfront Green	504	122	-	31488	-
		Sally Green	505	123	-	31744	-
		Marlene	506	124	-	32000	-
		Madge	507	125	-	32256	-
		Midnight Maya	508	126	-	32512	-
		Bacon Brown	511	127	-	32768	-
		Amber Delight	512	128	-	33024	-
		Ice & a Slice	513	129	-	33280	-
		Double G & T	514	130	-	33536	-
		Argent Blue	525	131	-	33792	-
		ALD Gold	550	132	-	34048	-
		Reserved for Future Use	-	133 - 255	-	34049 - 65535	-

Category 3 | Lee: 600 Series

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Arctic White	600	0	-	256	-
		Silver	601	1	-	512	-
		Platinum	602	2	-	768	-
		Moonlight White	603	3	-	1024	-
		Full CT 85	604	4	-	1280	-
		Half Mustard Yellow	642	5	-	1536	-
		Quarter Mustard Yellow	643	6	-	1792	-
		Industry Sodium	650	7	-	2048	-
		HI Sodium	651	8	-	2304	-
		Urban Sodium	652	9	-	2560	-
		LO Sodium	653	10	-	2816	-
		Reserved for Future Use	-	11 - 255	-	2817 - 65535	-

Category 4 | Lee: Cosmetic Filters

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Cosmetic Peach	184	0	-	256	-
		Cosmetic Silver Rose	186	1	-	512	-
		Cosmetic Rouge	187	2	-	768	-
		Cosmetic Highlight	188	3	-	1024	-
		Cosmetic Silver Moss	189	4	-	1280	-
		Cosmetic Aqua Blue	191	5	-	1536	-
		Lily Frost	705	6	-	1792	-
		Shanklin Frost	717	7	-	2048	-
		Half Shanklin Frost	718	8	-	2304	-
		Durham Daylight Frost	720	9	-	2560	-
		Hampshire Rose	749	10	-	2816	-
		Durham Frost	750	11	-	3072	-
		Soft Amber Key 1	774	12	-	3328	-
		Soft Amber Key 2	775	13	-	3584	-
		Moroccan Frost	791	14	-	3840	-
		Blue Diffusion	217	15	-	4096	-
		Blue Frost	221	16	-	4352	-
		Daylight Blue Frost	224	17	-	4608	-
		Reserved for Future Use	-	18 - 255	-	4609 - 65535	-

Category 5 | Lee: 700 Series

*16 Bit Ultimate Mode only

DMX Channel		Gel Name	Gel Number	Value 8 Bit	% 8 Bit	Value 16 Bit*	% 16 Bit
8 Bit	16 Bit						
Dependent on Mode		Perfect Lavender	700	0	-	256	-
		Provence	701	1	-	512	-
		Special Pale Lavender	702	2	-	768	-
		Cold Lavender	703	3	-	1024	-
		Lily	704	4	-	1280	-
		King Fals Lavender	706	5	-	1536	-
		Cool Lavender	708	6	-	1792	-
		Electric Lilac	709	7	-	2048	-
		Spir Special Blue	710	8	-	2304	-
		Cold Blue	711	9	-	2560	-
		Bedford Blue	712	10	-	2816	-
		J Winter Blue	713	11	-	3072	-
		Elysian Blue	714	12	-	3328	-
		Cabana Blue	715	13	-	3584	-
		Mikkel Blue	716	14	-	3840	-
		Colour Wash Blue	719	15	-	4096	-
		Berry Blue	721	16	-	4352	-
		Bray Blue	722	17	-	4608	-
		Virgin Blue	723	18	-	4864	-
		Ocean Blue	724	19	-	5120	-
		Old Steel Blue	725	20	-	5376	-
		QFD Blue	727	21	-	5632	-
		Steel Green	728	22	-	5888	-
		Scuba Blue	729	23	-	6144	-
		Liberty Green	730	24	-	6400	-
		Dirty Ice	731	25	-	6656	-
		Damp Squib	733	26	-	6912	-
		Velvet Green	735	27	-	7168	-
		Twickenham Green	736	28	-	7424	-
		JAS Green	738	29	-	7680	-
		Aurora Borealis Green	740	30	-	7936	-
		Mustard Yellow	741	31	-	8192	-
		Bram Brown	742	32	-	8448	-
		Dirty White	744	33	-	8704	-
		Brown	746	34	-	8960	-
		Easy White	747	35	-	9216	-
		Seedy Pink	748	36	-	9472	-
		Wheat	763	37	-	9728	-
		Sun Colour Straw	764	38	-	9984	-
		LEE Yellow	765	39	-	10240	-
		Oklahoma Yellow	767	40	-	10496	-
		Egg Yolk Yellow	768	41	-	10752	-
		Burnt Yellow	770	42	-	11008	-
		Cardbox Amber	773	43	-	11264	-
		Nectarine	776	44	-	11520	-
		Rust	777	45	-	11776	-
		Millenium Gold	778	46	-	12032	-
		Bastard Pink	779	47	-	12288	-
		AS Golden Amber	780	48	-	12544	-
		Terry Red	781	49	-	12800	-
		Marius Red	787	50	-	13056	-
		Blood Red	789	51	-	13312	-
		Moroccan Pink	790	52	-	13568	-
		Vanity Fair	793	53	-	13824	-
		Pretty n'Pink	794	54	-	14080	-
		Magical Magenta	795	55	-	14336	-
		Deep Purple	797	56	-	14592	-
		Chrysalis Pink	798	57	-	14848	-
		Special KH Lavender	799	58	-	15104	-
		Reserved for Future Use	-	59 - 255	-	15105 - 65535	-

Variable Channels

Extended Color Control (ECC)

If the DMX setting "ECC" is "OFF", the following channels shall be automatically eliminated from all DMX modes

8 Bit	16 Bit		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
	HI	LO			Start	End	Start	End	Start	End	Start	End
10	12	13	Warmer / Cooler	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Cool (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Warm (+1.000)	148	255	58%	100%	37780	65535	58%	100%
11	14	15	Saturate / Desaturate	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Desaturate (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Saturate (+1.000)	148	255	58%	100%	37780	65535	58%	100%
12	16	17	+ Red / - Red	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Red (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Red (+1.000)	148	255	58%	100%	37780	65535	58%	100%
13	18	19	+ Green / - Green	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Green (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Green (+1.000)	148	255	58%	100%	37780	65535	58%	100%
14	20	21	+ Blue / - Blue	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Blue (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Blue (+1.000)	148	255	58%	100%	37780	65535	58%	100%
15	22	23	+ Cyan / - Cyan	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Cyan (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Cyan (+1.000)	148	255	58%	100%	37780	65535	58%	100%
16	24	25	+ Magenta / - Magenta	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Magenta (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Magenta (+1.000)	148	255	58%	100%	37780	65535	58%	100%
17	26	27	+ Yellow / - Yellow	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Yellow (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Yellow (+1.000)	148	255	58%	100%	37780	65535	58%	100%

Operation

If the DMX setting "Operation" is "OFF", the following channels shall be automatically eliminated from all DMX modes

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
ECC	ECC		Fan Control <i>Note: Fan Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Use Fan Mode Setting of Fixture Menu	0	9	0%	3%	-	-	-	-
OFF	OFF			Quiet, Fan Speed Fixed	10	57	4%	22%	-	-	-	-
10	12			Variable, Fan Speed Variable	58	105	23%	41%	-	-	-	-
				High Temp, Fan Speed Fixed	106	153	42%	60%	-	-	-	-
ECC	ECC			Reserved	154	201	61%	78%	-	-	-	-
ON	ON			Fan at Full Speed	202	249	79%	98%	-	-	-	-
18	28			Fan Off	250	255	99%	100%	-	-	-	-
ECC	ECC		Favorites	No Effect	0	9	1*	-	-	-	-	-
OFF	OFF		User Defined Favorites	Favorite 01	10	-	-	-	-	-	-	-
11	13			Favorite 02	11	-	-	-	-	-	-	-
				Favorite 03	12	-	-	-	-	-	-	-
ECC	ECC			Favorite 04	13	-	-	-	-	-	-	-
ON	ON			Favorite 05	14	-	-	-	-	-	-	-
19	29			Favorite 06	15	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
				Favorite 246	255	-	-	-	-	-	-	-
ECC	ECC		Light Strobe ²	No Effect	0	19	0%	7%	-	-	-	-
OFF	OFF			1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
12	14											
ECC	ECC											
ON	ON											
20	30											
ECC	ECC		Color Sensor <i>Note: Color Sensor Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Off	0	19	0%	7%	-	-	-	-
OFF	OFF			Continuous	20	127	8%	50%	-	-	-	-
13	15			Momentary - Once Activated	128	255	51%	100%	-	-	-	-
ECC	ECC											
ON	ON											
21	31											
ECC	ECC		Sync <i>Note: Sync Mode reverts to fixture menu setting, when DMX signal is lost.</i>	No Effect / Reverts to internal setting	0	19	0%	7%	-	-	-	-
OFF	OFF			Sync Mode OFF	20	39	8%	15%	-	-	-	-
14	16			Sync Mode ON	40	59	16%	23%	-	-	-	-
				Reserved (No Effect / Reverts to internal setting)	60	255	24%	100%	-	-	-	-
ECC	ECC											
ON	ON											
22	32											

* Providing a percentage less than "1" is not possible

² Not available in DMX Effect Mode

[See page 5 for more information.](#)



Product Line: **Orbiter**
 Mode Version: **5.0**

Mode 9: 8 Bit
Mode 10: 16 Bit

Fixed Channels

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
01	01/02		Dimmer	Closed → Open	0	255	0%	100%	0	65535	0%	100%
02	03		Category	Incandescent	0	50	0%	20%	-	-	-	-
				Fluorescent	51	101	21%	39%	-	-	-	-
				Discharge	102	152	40%	59%	-	-	-	-
				Other	153	203	60%	79%	-	-	-	-
				Reserved for Future Use	204	255	80%	100%	-	-	-	-
03	04		Source	See "Source" Table	0	255	0%	100%	-	-	-	-
04	05		Zoom	No Effect	0	19	0%	7%	-	-	-	-
				Linear Spot - Flood (e.g. 20 [15°] ... 255 [30°])	20	255	8%	100%	-	-	-	-
05	06		Focus	No Effect	0	19	0%	7%	-	-	-	-
				Linear Focus	20	255	8%	100%	-	-	-	-
06	07		Reserved	-	0	255	0%	100%	-	-	-	-

Incandescent

*Ultimate Mode only

DMX Channel		Category	Name	Value 8 Bit		% 8 Bit		Value 16 Bit*		% 16 Bit	
8 Bit	16 Bit			Start	End	Start	End	Start	End	Start	End
Dependent on Mode	Incandescent		Tungsten Bulb	0	2	-	-	0	767	-	-
			Incandescent	3	5	-	-	768	1535	-	-
			Halogen	6	8	-	-	1536	2303	-	-
			Antique Bulb	9	11	-	-	2304	3071	-	-
			Warm Antique Bulb	12	14	-	-	3072	3839	-	-
			Christmas Light	15	17	-	-	3840	4607	-	-
			Night Light	18	20	-	-	4608	5375	-	-
			Infrared Heat Lamp	21	23	-	-	5376	6143	-	-
			Grow Light	24	26	-	-	6144	6911	-	-
			Reserved for Future Use	27	255	-	-	6912	65535	-	-

Fluorescent

*Ultimate Mode only

DMX Channel		Category	Name	Value 8 Bit		% 8 Bit		Value 16 Bit*		% 16 Bit	
8 Bit	16 Bit			Start	End	Start	End	Start	End	Start	End
Dependent on Mode	Fluorescent		CFL Soft White	0	2	-	-	0	767	-	-
			CFL Bright White	3	5	-	-	768	1535	-	-
			CFL Cool White	6	8	-	-	1536	2303	-	-
			CFL Daylight	9	11	-	-	2304	3071	-	-
			Cool White 1	12	14	-	-	3072	3839	-	-
			Cool White 2	15	17	-	-	3840	4607	-	-
			Cool White 3	18	20	-	-	4608	5375	-	-
			Warm White	21	23	-	-	5376	6143	-	-
			CFL Blacklight	24	26	-	-	6144	6911	-	-
			Reserved for Future Use	27	255	-	-	6912	65535	-	-

Discharge

*Ultimate Mode only

DMX Channel		Category	Name	Value 8 Bit		% 8 Bit		Value 16 Bit*		% 16 Bit	
8 Bit	16 Bit			Start	End	Start	End	Start	End	Start	End
Dependent on Mode	Discharge		HMI	0	2	-	-	0	767	-	-
			High Pressure Sodium	3	5	-	-	768	1535	-	-
			Low Pressure Sodium	6	8	-	-	1536	2303	-	-
			Mercury Vapor	9	11	-	-	2304	3071	-	-
			Metal Halide	12	14	-	-	3072	3839	-	-
			Ceramic	15	17	-	-	3840	4607	-	-
			Carbon Arc	18	20	-	-	4608	5375	-	-
			Xenon	21	23	-	-	5376	6143	-	-
			Reserved for Future Use	24	255	-	-	6144	65535	-	-

Other

*Ultimate Mode only

DMX Channel		Category	Name	Value 8 Bit		% 8 Bit		Value 16 Bit*		% 16 Bit	
8 Bit	16 Bit			Start	End	Start	End	Start	End	Start	End
Dependent on Mode	Other		Candle	0	2	-	-	0	767	-	-
			Gas Fire	3	5	-	-	768	1535	-	-
			Sun Direct	6	8	-	-	1536	2303	-	-
			Sun Overcast	9	11	-	-	2304	3071	-	-
			Sun Blue Hour	12	14	-	-	3072	3839	-	-
			Mobile Phone	15	17	-	-	3840	4607	-	-
			Computer Monitor	18	20	-	-	4608	5375	-	-
			Electroluminescence	21	23	-	-	5376	6143	-	-
			Blow Torch	24	26	-	-	6144	6911	-	-
			Road Flare	27	29	-	-	6912	7679	-	-
			Amber Caution	30	32	-	-	7680	8447	-	-
			Green Traffic Light	33	35	-	-	8448	9215	-	-
			Yellow Traffic Light	36	38	-	-	9216	9983	-	-
			Red Traffic Light	39	41	-	-	9984	10751	-	-
			Blue Glow Stick	42	44	-	-	10752	11519	-	-
			Green Glow Stick	45	47	-	-	11520	12287	-	-
			Red Glow Stick	48	50	-	-	12288	13055	-	-
			Yellow Glow Stick	51	53	-	-	13056	13823	-	-
			Pink Glow Stick	54	56	-	-	13824	14591	-	-
			Violet Glow Stick	57	59	-	-	14592	15359	-	-
			Reserved for Future Use	60	255	-	-	15360	65535	-	-

Variable Channels

Extended Color Control (ECC)

If the DMX setting "ECC" is "OFF", the following channels shall be automatically eliminated from all DMX modes

8 Bit	16 Bit		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
	HI	LO			Start	End	Start	End	Start	End	Start	End
07	08	09	Warmer / Cooler	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Cool (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Warm (+1.000)	148	255	58%	100%	37780	65535	58%	100%
08	10	11	Saturate / Desaturate	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Desaturate (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Saturate (+1.000)	148	255	58%	100%	37780	65535	58%	100%
09	12	13	+ Red / - Red	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Red (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Red (+1.000)	148	255	58%	100%	37780	65535	58%	100%
10	14	15	+ Green / - Green	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Green (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Green (+1.000)	148	255	58%	100%	37780	65535	58%	100%
11	16	17	+ Blue / - Blue	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Blue (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Blue (+1.000)	148	255	58%	100%	37780	65535	58%	100%
12	18	19	+ Cyan / - Cyan	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Cyan (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Cyan (+1.000)	148	255	58%	100%	37780	65535	58%	100%
13	20	21	+ Magenta / - Magenta	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Magenta (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Magenta (+1.000)	148	255	58%	100%	37780	65535	58%	100%
14	22	23	+ Yellow / - Yellow	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Yellow (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Yellow (+1.000)	148	255	58%	100%	37780	65535	58%	100%

Operation

If the DMX setting "Operation" is "OFF", the following channels shall be automatically eliminated from all DMX modes

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
ECC OFF 07	ECC OFF 08		Fan Control <i>Note: Fan Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Use Fan Mode Setting of Fixture Menu	0	9	0%	3%	-	-	-	-
				Quiet, Fan Speed Fixed	10	57	4%	22%	-	-	-	-
				Variable, Fan Speed Variable	58	105	23%	41%	-	-	-	-
				High Temp, Fan Speed Fixed	106	153	42%	60%	-	-	-	-
ECC ON 15	ECC ON 24			Reserved	154	201	61%	78%	-	-	-	-
				Fan at Full Speed	202	249	79%	98%	-	-	-	-
				Fan Off	250	255	99%	100%	-	-	-	-
ECC OFF 08	ECC OFF 09		Favorites	No Effect	0	9	1*	-	-	-	-	-
			User Defined Favorites	Favorite 01	10	-	-	-	-	-	-	-
				Favorite 02	11	-	-	-	-	-	-	-
				Favorite 03	12	-	-	-	-	-	-	-
ECC ON 16	ECC ON 25			Favorite 04	13	-	-	-	-	-	-	-
				Favorite 05	14	-	-	-	-	-	-	-
				Favorite 06	15	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
				Favorite 246	255	-	-	-	-	-	-	-
ECC OFF 09	ECC OFF 10		Light Strobe ²	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
ECC ON 17	ECC ON 26											
ECC OFF 10	ECC OFF 11		Color Sensor <i>Note: Color Sensor Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Off	0	19	0%	7%	-	-	-	-
				Continuous	20	127	8%	50%	-	-	-	-
ECC ON 18	ECC ON 27			Momentary - Once Activated	128	255	51%	100%	-	-	-	-
ECC OFF 11	ECC OFF 12		Sync <i>Note: Sync Mode reverts to fixture menu setting, when DMX signal is lost.</i>	No Effect / Reverts to internal setting	0	19	0%	7%	-	-	-	-
				Sync Mode OFF	20	39	8%	15%	-	-	-	-
				Sync Mode ON	40	59	16%	23%	-	-	-	-
ECC ON 19	ECC ON 28			Reserved (No Effect / Reverts to internal setting)	60	255	24%	100%	-	-	-	-

* Providing a percentage less than "1" is not possible

² Not available in DMX Effect Mode

[See page 5 for more information.](#)



Product Line: **Orbiter**
Mode Version: **5.0**

Mode 11: 8 Bit
Mode 12: 16 Bit

Fixed Channels

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
01	01/02		Dimmer	Closed → Open	0	255	0%	100%	0	65535	0%	100%
02	03		Effect Selection	No Effect	0	9	0%	4%	-	-	-	-
				Party Effect	10	19	5%	7%	-	-	-	-
				Candle	20	29	8%	11%	-	-	-	-
				Clouds Passing	30	39	12%	15%	-	-	-	-
				Club Lights	40	49	16%	19%	-	-	-	-
				Cop Car	50	59	20%	23%	-	-	-	-
				Fire	60	69	24%	27%	-	-	-	-
				Fireworks	70	79	28%	31%	-	-	-	-
				Light Strobe	80	89	32%	35%	-	-	-	-
				Lightning	90	99	36%	39%	-	-	-	-
				Paparazzi	100	109	40%	43%	-	-	-	-
				Pulsing	110	119	44%	47%	-	-	-	-
				Television	120	129	48%	51%	-	-	-	-
				Explosion	130	139	52%	55%	-	-	-	-
				Fluorescent Flicker	140	149	56%	58%	-	-	-	-
				Welding	150	159	59%	62%	-	-	-	-
				Reserved for Future Use	160	255	63%	100%	-	-	-	-
03	04/05		Effect Parameter 1	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
04	06/07		Effect Parameter 2	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
05	08/09		Effect Parameter 3	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
06	10/11		Effect Parameter 4	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
07	12/13		Effect Parameter 5	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
08	14/15		Effect Parameter 6	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
09	16/17		Effect Parameter 7	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
10	18/19		Effect Parameter 8	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
11	20		Zoom	No Effect	0	19	0%	7%	-	-	-	-
				Linear Spot - Flood (e.g. 20 [15°] ... 255 [30°])	20	255	8%	100%	-	-	-	-
12	21		Focus	No Effect	0	19	0%	7%	-	-	-	-
				Linear Focus	20	255	8%	100%	-	-	-	-
13	22		Reserved	-	0	255	0%	100%	-	-	-	-

Party Effect

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Saturation	CCT 2.000 K → 20.000 K	0	0	0%	0%	0	0	0%	0%
		0 → 100 % Saturation	1	255	1%	100%	1	65535	1%	100%
2	Sequence	Loop 60 s → 1 s	0	255	0%	100%	0	65535	0%	100%

Candle

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	CCT Range <i>Not continuous, set range for random generation</i>	1.400 K → 1.700 K	0	84	0%	32%	0	21759	0%	32%
		1.700 K → 2.000 K	85	170	33%	66%	21760	43775	33%	66%
		2.000 K → 2.300 K	171	255	67%	100%	43776	65535	67%	100%
2	Sequence	1 → 120 Changes / Min	0	255	0%	100%	0	65535	0%	100%

Clouds Passing

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Offset	Offset Number 0 - 50 (Every 5 DMX values is a new Offset)	0	255	0%	100%	0	65535	0%	100%
2	Sequence	2 x Slower → Default Speed	0	127	0%	49%	0	32767	0%	49%
		Default Speed → 2 x Faster	128	255	50%	100%	32768	65535	50%	100%
3	Trigger	If bumped to 255 (100%), the loop will start at zero (or depending on the offset value)	0	255	0%	100%	0	65535	0%	100%

Club Lights

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Color Variety	3 Colors	0	31	0%	12%	0	8191	0%	12%
		6 Colors	32	63	13%	24%	8192	16383	13%	24%
		9 Colors	64	95	25%	37%	16384	24575	25%	37%
		12 Colors	96	127	38%	49%	24576	32767	38%	49%
		15 Colors	128	159	50%	62%	32768	40959	50%	62%
		18 Colors	160	191	63%	74%	40960	49151	63%	74%
		21 Colors	192	223	75%	87%	49152	57343	75%	87%
2	Sequence	24 Colors	224	255	88%	100%	57344	65535	88%	100%
		1 → 120 Changes / Min	0	255	0%	100%	0	65535	0%	100%

Cop Car

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Color Combinations	Just Blue	0	27	0%	11%	0	7167	0%	11%
		Blue and Red	28	55	12%	21%	7168	14335	12%	21%
		Blue and White	56	83	22%	32%	14336	21503	22%	32%
		Blue, Red and White	84	111	33%	43%	21504	28671	33%	43%
		Blue and Amber	112	139	44%	54%	28672	35839	44%	54%
		Blue, Red and Amber	140	167	55%	65%	35840	43007	55%	65%
		Red and Amber	168	195	66%	76%	43008	50175	66%	76%
		Amber	196	223	77%	87%	50176	57343	77%	87%
		Red	224	255	88%	100%	57344	65535	88%	100%
2	Flash Pattern	Single Flash	0	31	0%	12%	0	8191	0%	12%
		Double Flash	32	63	13%	24%	8192	16383	13%	24%
		Quint All Flash	64	95	25%	37%	16384	24575	25%	37%
		Quint Flash	96	127	38%	49%	24576	32767	38%	49%
		Quad Flash	128	159	50%	62%	32768	40959	50%	62%
		Cycle All	160	191	63%	74%	40960	49151	63%	74%
		Reserved for Future Use	192	255	75%	100%	49152	65535	75%	100%

Fire

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	CCT Range <i>Not continuous, set range for random generation</i>	1.800 K → 2.200 K	0	84	0%	32%	0	21759	0%	32%
		2.200 K → 2.600 K	85	170	33%	66%	21760	43775	33%	66%
		2.600 K → 3.000 K	171	255	67%	100%	43776	65535	67%	100%
2	Sequence	1 → 180 Changes / Min	0	255	0%	100%	0	65535	0%	100%

Fireworks

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Color Combinations	Colors	0	63	0%	24%	0	16383	0%	24%
		White	64	127	25%	49%	16384	32767	25%	49%
		Colors and White	128	191	50%	74%	32768	49151	50%	74%
		Reserved for Future Use	192	255	75%	100%	49152	65535	75%	100%
2	Sequence	10 → 0,5 s Between Fireworks	0	255	0%	100%	0	65535	0%	100%

Light Strobe

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Sequence	1 → 25 Flashes / Second	0	255	0%	100%	0	65535	0%	100%
2	Color Temperature	CCT 2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
3	Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
		Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
		-99 % → -1%	21	119	9%	47%	9831	30145	16%	46%
		Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
		1% → 99 %	146	244	58%	96%	39977	60292	62%	92%
		Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
4	Cross Fade to Color	White → Color	0	255	0%	100%	0	65535	0%	100%
5	Hue	0 → 360°	0	255	0%	100%	0	65535	0%	100%
6	Saturation	0 → 100 % Saturation	0	255	0%	100%	0	65535	0%	100%

Lightning

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Speed	2 → 14 Lightning Strikes Set	0	254	0%	99%	0	65534	0%	99%
		Random	255		100%		65535		100%	
2	Sequence	1 → 10 Flashes / Second	0	254	0%	99%	0	65534	0%	99%
		Random	255		100%		65535		100%	
3	Color Temperature	CCT 2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
4	Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
		Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
		-99 % → -1%	21	119	9%	47%	9831	30145	16%	46%
		Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
		1% → 99 %	146	244	58%	96%	39977	60292	62%	92%
		Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
5	Cross Fade to Color	White → Color	0	255	0%	100%	0	65535	0%	100%
6	Hue	0 → 360°	0	255	0%	100%	0	65535	0%	100%
7	Saturation	0 → 100 % Saturation	0	255	0%	100%	0	65535	0%	100%
8	Trigger	If bumped to 255 (100%), the loop will start at zero (or depending on the offset value)	0	255	0%	100%	0	65535	0%	100%

Paparazzi

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Speed	6 → 120 Flashes / Min	0	255	0%	100%	0	65535	0%	100%
2	Flash Type	Flash Bulb	0	127	0%	49%	0	32767	0%	49%
		Modern Flash	128	255	50%	100%	32768	65535	50%	100%
3	Color Temperature	CCT 2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
4	Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
		Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
		-99 % → -1%	21	119	9%	47%	9831	30145	16%	46%
		Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
		1% → 99 %	146	244	58%	96%	39977	60292	62%	92%
		Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
5	Cross Fade to Color	White → Color	0	255	0%	100%	0	65535	0%	100%
6	Hue	0 → 360°	0	255	0%	100%	0	65535	0%	100%
7	Saturation	0 → 100 % Saturation	0	255	0%	100%	0	65535	0%	100%

Pulsing

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Speed	5 → 90 Pulses / Min	0	255	0%	100%	0	65535	0%	100%
2	Pulse Duration	4 → 0.25 Seconds	0	255	0%	100%	0	65535	0%	100%
3	Color Temperature	CCT 2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
4	Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
		Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
		-99 % → -1%	21	119	9%	47%	9831	30145	16%	46%
		Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
		1% → 99 %	146	244	58%	96%	39977	60292	62%	92%
		Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
5	Cross Fade to Color	White → Color	0	255	0%	100%	0	65535	0%	100%
6	Hue	0 → 360°	0	255	0%	100%	0	65535	0%	100%
7	Saturation	0 → 100 % Saturation	0	255	0%	100%	0	65535	0%	100%

Television

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	CCT Range <i>Not continuous, set range for random generation</i>	2.800 K → 4.700 K	0	84	0%	32%	0	21759	0%	32%
		4.700 K → 6.500 K	85	170	33%	66%	21760	43775	33%	66%
		6.500 K → 10.000 K	171	255	67%	100%	43776	65535	67%	100%
2	Sequence	4 → 24 Changes / Min	0	255	0%	100%	0	65535	0%	100%

Explosion

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Decay	Decay 4 → 0.5 Seconds	0	255	0%	100%	0	65535	0%	100%
2	Trigger	Manual (bump intensity to explode)	250	255	98%	100%	64224	65535	98%	100%
3	Color Temperature	CCT 2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
4	Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
		Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
		-99 % → -1%	21	119	9%	47%	9831	30145	16%	46%
		Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
		1% → 99 %	146	244	58%	96%	39977	60292	62%	92%
		Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
5	Cross Fade to Color	White → Color	0	255	0%	100%	0	65535	0%	100%
6	Hue	0 → 360°	0	255	0%	100%	0	65535	0%	100%
7	Saturation	0 → 100 % Saturation	0	255	0%	100%	0	65535	0%	100%

Fluorescent Flicker

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Sequence	2 → 6 Seconds of Still	0	255	0%	100%	0	65535	0%	100%
2	Speed	3 → 10 Flickers per Second	0	255	0%	100%	0	65535	0%	100%
3	Color Temperature	CCT 2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
4	Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
		Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
		-99 % → -1%	21	119	9%	47%	9831	30145	16%	46%
		Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
		1% → 99 %	146	244	58%	96%	39977	60292	62%	92%
		Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
5	Cross Fade to Color	White → Color	0	255	0%	100%	0	65535	0%	100%
6	Hue	0 → 360°	0	255	0%	100%	0	65535	0%	100%
7	Saturation	0 → 100 % Saturation	0	255	0%	100%	0	65535	0%	100%

Welding

Parameter	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
			Start	End	Start	End	Start	End	Start	End
1	Sequence	Slow → Fast	0	255	0%	100%	0	65535	0%	100%
2	Min Intensity Level	0 % → 75 % Minimum Intensity Level	0	255	0%	100%	0	65535	0%	100%
3	Color Temperature	CCT 2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
4	Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
		Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
		-99 % → -1%	21	119	9%	47%	9831	30145	16%	46%
		Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
		1% → 99 %	146	244	58%	96%	39977	60292	62%	92%
		Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
5	Cross Fade to Color	White → Color	0	255	0%	100%	0	65535	0%	100%
6	Hue	0 → 360°	0	255	0%	100%	0	65535	0%	100%
7	Saturation	0 → 100 % Saturation	0	255	0%	100%	0	65535	0%	100%

Variable Channels

Extended Color Control (ECC)

If the DMX setting "ECC" is "OFF", the following channels shall be automatically eliminated from all DMX modes

8 Bit	16 Bit		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
	HI	LO			Start	End	Start	End	Start	End	Start	End
14	23	24	Warmer / Cooler	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Cool (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Warm (+1.000)	148	255	58%	100%	37780	65535	58%	100%
15	25	26	Saturate / Desaturate	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Desaturate (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Saturate (+1.000)	148	255	58%	100%	37780	65535	58%	100%
16	27	28	+ Red / - Red	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Red (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Red (+1.000)	148	255	58%	100%	37780	65535	58%	100%
17	29	30	+ Green / - Green	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Green (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Green (+1.000)	148	255	58%	100%	37780	65535	58%	100%
18	31	32	+ Blue / - Blue	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Blue (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Blue (+1.000)	148	255	58%	100%	37780	65535	58%	100%
19	33	34	+ Cyan / - Cyan	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Cyan (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Cyan (+1.000)	148	255	58%	100%	37780	65535	58%	100%
20	35	36	+ Magenta / - Magenta	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Magenta (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Magenta (+1.000)	148	255	58%	100%	37780	65535	58%	100%
21	37	38	+ Yellow / - Yellow	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Yellow (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Yellow (+1.000)	148	255	58%	100%	37780	65535	58%	100%

Operation

If the DMX setting "Operation" is "OFF", the following channels shall be automatically eliminated from all DMX modes

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
ECC	ECC		Fan Control <i>Note: Fan Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Use Fan Mode Setting of Fixture Menu	0	9	0%	3%	-	-	-	-
OFF	OFF			Quiet, Fan Speed Fixed	10	57	4%	22%	-	-	-	-
14	23			Variable, Fan Speed Variable	58	105	23%	41%	-	-	-	-
				High Temp, Fan Speed Fixed	106	153	42%	60%	-	-	-	-
ECC	ECC			Reserved	154	201	61%	78%	-	-	-	-
ON	ON			Fan at Full Speed	202	249	79%	98%	-	-	-	-
22	39			Fan Off	250	255	99%	100%	-	-	-	-
ECC	ECC		Favorites	No Effect	0	9	1*	-	-	-	-	-
OFF	OFF		User Defined Favorites	Favorite 01	10	-	-	-	-	-	-	-
15	24			Favorite 02	11	-	-	-	-	-	-	-
				Favorite 03	12	-	-	-	-	-	-	-
ECC	ECC			Favorite 04	13	-	-	-	-	-	-	-
ON	ON			Favorite 05	14	-	-	-	-	-	-	-
23	40			Favorite 06	15	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
				Favorite 246	255	-	-	-	-	-	-	-
ECC	ECC		Light Strobe ²	No Effect	0	19	0%	7%	-	-	-	-
OFF	OFF			1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
16	25											
ECC	ECC											
ON	ON											
24	41											
ECC	ECC		Color Sensor <i>Note: Color Sensor Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Off	0	19	0%	7%	-	-	-	-
OFF	OFF			Continuous	20	127	8%	50%	-	-	-	-
17	26			Momentary - Once Activated	128	255	51%	100%	-	-	-	-
ECC	ECC											
ON	ON											
25	42											
ECC	ECC		Sync <i>Note: Sync Mode reverts to fixture menu setting, when DMX signal is lost.</i>	No Effect / Reverts to internal setting	0	19	0%	7%	-	-	-	-
OFF	OFF			Sync Mode OFF	20	39	8%	15%	-	-	-	-
18	27			Sync Mode ON	40	59	16%	23%	-	-	-	-
				Reserved (No Effect / Reverts to internal setting)	60	255	24%	100%	-	-	-	-
ECC	ECC											
ON	ON											
26	43											

* Providing a percentage less than "1" is not possible

² Not available in DMX Effect Mode

[See page 5 for more information.](#)



Product Line: **Orbiter**
Mode Version: **5.0**

Mode 13: 8 Bit
Mode 14: 16 Bit

Fixed Channels

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
01	01/02		Dimmer	Closed → Open	0	255	0%	100%	0	65535	0%	100%
02	03/04		Intensity Red	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
03	05/06		Intensity Green	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
04	07/08		Intensity Blue	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
05	09/10		Intensity Amber	0 % → 100 % (Only used when Calibration is "Off" in RGBACL mode)	0	255	0%	100%	0	65535	0%	100%
06	11/12		Intensity Cyan	0 % → 100 % (Only used when Calibration is "Off" in RGBACL mode)	0	255	0%	100%	0	65535	0%	100%
07	13/14		Intensity Lime	0 % → 100 % (Only used when Calibration is "Off" in RGBACL mode)	0	255	0%	100%	0	65535	0%	100%
08	15/16		Intensity White	0 % → 100 % (Only used when Calibration is "On" in RGBACL mode)	0	255	0%	100%	0	65535	0%	100%
09	17/18		CCT value for calibrated RGBW white point	(Only used when Calibration is "On" in RGBACL mode)	-	-	0%	100%	-	-	0%	100%
10	19/20		G/M value for calibrated RGBW white point	(Only used when Calibration is "On" in RGBACL mode)	-	-	0%	100%	-	-	0%	100%
11	21		Zoom	No Effect	0	19	0%	7%	-	-	-	-
				Linear Spot - Flood (e.g. 20 [15°] ... 255 [30°])	20	255	8%	100%	-	-	-	-
12	22		Focus	No Effect	0	19	0%	7%	-	-	-	-
				Linear Focus	20	255	8%	100%	-	-	-	-
13	23		Reserved	-	0	255	0%	100%	-	-	-	-

Variable Channels

Extended Color Control (ECC)

If the DMX setting "ECC" is "OFF", the following channels shall be automatically eliminated from all DMX modes

8 Bit	16 Bit		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
	HI	LO			Start	End	Start	End	Start	End	Start	End
14	24	25	Warmer / Cooler	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Cool (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Warm (+1.000)	148	255	58%	100%	37780	65535	58%	100%
15	26	27	Saturate / Desaturate	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Desaturate (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Saturate (+1.000)	148	255	58%	100%	37780	65535	58%	100%
16	28	29	+ Red / - Red	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Red (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Red (+1.000)	148	255	58%	100%	37780	65535	58%	100%
17	30	31	+ Green / - Green	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Green (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Green (+1.000)	148	255	58%	100%	37780	65535	58%	100%
18	32	33	+ Blue / - Blue	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Blue (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Blue (+1.000)	148	255	58%	100%	37780	65535	58%	100%
19	34	35	+ Cyan / - Cyan	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Cyan (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Cyan (+1.000)	148	255	58%	100%	37780	65535	58%	100%
20	36	37	+ Magenta / - Magenta	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Magenta (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Magenta (+1.000)	148	255	58%	100%	37780	65535	58%	100%
21	38	39	+ Yellow / - Yellow	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Yellow (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Yellow (+1.000)	148	255	58%	100%	37780	65535	58%	100%

Operation

If the DMX setting "Operation" is "OFF", the following channels shall be automatically eliminated from all DMX modes

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
ECC	ECC		Fan Control	Use Fan Mode Setting of Fixture Menu	0	9	0%	3%	-	-	-	-
OFF	OFF		<i>Note: Fan Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Quiet, Fan Speed Fixed	10	57	4%	22%	-	-	-	-
14	24			Variable, Fan Speed Variable	58	105	23%	41%	-	-	-	-
				High Temp, Fan Speed Fixed	106	153	42%	60%	-	-	-	-
ECC	ECC			Reserved	154	201	61%	78%	-	-	-	-
ON	ON			Fan at Full Speed	202	249	79%	98%	-	-	-	-
22	40			Fan Off	250	255	99%	100%	-	-	-	-
ECC	ECC		Favorites	No Effect	0	9	1*	-	-	-	-	-
OFF	OFF		User Defined Favorites	Favorite 01	10	-	-	-	-	-	-	-
15	25			Favorite 02	11	-	-	-	-	-	-	-
				Favorite 03	12	-	-	-	-	-	-	-
ECC	ECC			Favorite 04	13	-	-	-	-	-	-	-
ON	ON			Favorite 05	14	-	-	-	-	-	-	-
23	41			Favorite 06	15	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
				Favorite 246	255	-	-	-	-	-	-	-
ECC	ECC		Light Strobe ²	No Effect	0	19	0%	7%	-	-	-	-
OFF	OFF			1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
16	26											
ECC	ECC		Color Sensor	Off	0	19	0%	7%	-	-	-	-
OFF	OFF			Continuous	20	127	8%	50%	-	-	-	-
17	27			Momentary - Once Activated	128	255	51%	100%	-	-	-	-
ECC	ECC											
ON	ON		Sync	No Effect / Reverts to internal setting	0	19	0%	7%	-	-	-	-
25	43			Sync Mode OFF	20	39	8%	15%	-	-	-	-
				Sync Mode ON	40	59	16%	23%	-	-	-	-
ECC	ECC			Reserved	60	255	24%	100%	-	-	-	-
ON	ON			(No Effect / Reverts to internal setting)								
26	44											

* Providing a percentage less than "1" is not possible

² Not available in DMX Effect Mode

[See page 5 for more information.](#)



Product Line: **Orbiter**
Mode Version: **5.0**

Mode 15: 8 Bit
Mode 16: 16 Bit

Fixed Channels

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
01	01/02		Dimmer	Closed → Open	0	255	0%	100%	0	65535	0%	100%
02	03/04		Color Temperature CCT	2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
03	05/06		Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
				Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
				-99 % → -1 %	21	119	9%	47%	9831	30145	16%	46%
				Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
				1 % → 99 %	146	244	58%	96%	39977	60292	62%	92%
				Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
04	07/08		Cross Fade to Color	White → HSI Color	0	255	0%	100%	0	65535	0%	100%
05	09/10		Hue	0° → 360°	0	255	0%	100%	0	65535	0%	100%
06	11/12		Saturation	0 → Full Saturation	0	255	0%	100%	0	65535	0%	100%
07	13		Zoom	No Effect	0	19	0%	7%	-	-	-	-
				Linear Spot - Flood (e.g. 20 [15°] ... 255 [30°])	20	255	8%	100%	-	-	-	-
08	14		Focus	No Effect	0	19	0%	7%	-	-	-	-
				Linear Focus	20	255	8%	100%	-	-	-	-
09	15		Reserved	-	0	255	0%	100%	-	-	-	-

Variable Channels

Extended Color Control (ECC)

If the DMX setting "ECC" is "OFF", the following channels shall be automatically eliminated from all DMX modes

8 Bit	16 Bit		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
	HI	LO			Start	End	Start	End	Start	End	Start	End
10	16	17	Warmer / Cooler	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Cool (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Warm (+1.000)	148	255	58%	100%	37780	65535	58%	100%
11	18	19	Saturate / Desaturate	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Desaturate (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Saturate (+1.000)	148	255	58%	100%	37780	65535	58%	100%
12	20	21	+ Red / - Red	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Red (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Red (+1.000)	148	255	58%	100%	37780	65535	58%	100%
13	22	23	+ Green / - Green	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Green (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Green (+1.000)	148	255	58%	100%	37780	65535	58%	100%
14	24	25	+ Blue / - Blue	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Blue (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Blue (+1.000)	148	255	58%	100%	37780	65535	58%	100%
15	26	27	+ Cyan / - Cyan	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Cyan (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Cyan (+1.000)	148	255	58%	100%	37780	65535	58%	100%
16	28	29	+ Magenta / - Magenta	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Magenta (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Magenta (+1.000)	148	255	58%	100%	37780	65535	58%	100%
17	30	31	+ Yellow / - Yellow	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Yellow (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Yellow (+1.000)	148	255	58%	100%	37780	65535	58%	100%

Operation

If the DMX setting "Operation" is "OFF", the following channels shall be automatically eliminated from all DMX modes

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
ECC	ECC		Fan Control	Use Fan Mode Setting of Fixture Menu	0	9	0%	3%	-	-	-	-
OFF	OFF		<i>Note: Fan Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Quiet, Fan Speed Fixed	10	57	4%	22%	-	-	-	-
10	16			Variable, Fan Speed Variable	58	105	23%	41%	-	-	-	-
				High Temp, Fan Speed Fixed	106	153	42%	60%	-	-	-	-
ECC	ECC			Reserved	154	201	61%	78%	-	-	-	-
ON	ON			Fan at Full Speed	202	249	79%	98%	-	-	-	-
18	32			Fan Off	250	255	99%	100%	-	-	-	-
ECC	ECC		Favorites	No Effect	0	9	1*	-	-	-	-	-
OFF	OFF		User Defined Favorites	Favorite 01	10	-	-	-	-	-	-	-
11	17			Favorite 02	11	-	-	-	-	-	-	-
				Favorite 03	12	-	-	-	-	-	-	-
ECC	ECC			Favorite 04	13	-	-	-	-	-	-	-
ON	ON			Favorite 05	14	-	-	-	-	-	-	-
19	33			Favorite 06	15	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
				Favorite 246	255	-	-	-	-	-	-	-
ECC	ECC		Light Strobe ²	No Effect	0	19	0%	7%	-	-	-	-
OFF	OFF			1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
12	18											
ECC	ECC		Color Sensor	Off	0	19	0%	7%	-	-	-	-
OFF	OFF			Continuous	20	127	8%	50%	-	-	-	-
13	19			Momentary - Once Activated	128	255	51%	100%	-	-	-	-
ECC	ECC											
21	35		Sync	No Effect / Reverts to internal setting	0	19	0%	7%	-	-	-	-
OFF	OFF			Sync Mode OFF	20	39	8%	15%	-	-	-	-
14	20			Sync Mode ON	40	59	16%	23%	-	-	-	-
ECC	ECC			Reserved	60	255	24%	100%	-	-	-	-
22	36			(No Effect / Reverts to internal setting)								

* Providing a percentage less than "1" is not possible

² Not available in DMX Effect Mode

[See page 5 for more information.](#)



Product Line: **Orbiter**
Mode Version: **5.0**

Mode 17: 8 Bit
Mode 18: 16 Bit

Fixed Channels

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
01	01/02		Dimmer	Closed → Open	0	255	0%	100%	0	65535	0%	100%
02	03		Color Mode Selection	CCT & Green - Magenta Point	0	9	0%	4%	-	-	-	-
				HSI	10	19	5%	7%	-	-	-	-
				Calibrated RGBW / Direct RGBACL	20	29	8%	11%	-	-	-	-
				Gel Selection	30	39	12%	16%	-	-	-	-
				Source Matching	40	49	17%	19%	-	-	-	-
				x, y Coordinates	50	59	20%	23%	-	-	-	-
				Effects	60	69	24%	27%	-	-	-	-
				Reserved	70	255	28%	100%	-	-	-	-
03	04/05		Color Parameter 1	See Table Below	-	-	-	-	-	-	-	-
04	06/07		Color Parameter 2	See Table Below	-	-	-	-	-	-	-	-
05	08/09		Color Parameter 3	See Table Below	-	-	-	-	-	-	-	-
06	10/11		Color Parameter 4	See Table Below	-	-	-	-	-	-	-	-
07	12/13		Color Parameter 5	See Table Below	-	-	-	-	-	-	-	-
08	14/15		Color Parameter 6	See Table Below	-	-	-	-	-	-	-	-
09	16/17		Color Parameter 7	See Table Below	-	-	-	-	-	-	-	-
10	18/19		Color Parameter 8	See Table Below	-	-	-	-	-	-	-	-
11	20/21		Color Parameter 9	See Table Below	-	-	-	-	-	-	-	-
12	22/23		Cross Fade to Mode 2	Mode 1 → Mode 2	0	255	-	-	0	65535	-	-
13	24		Color Mode Selection	CCT & Green - Magenta Point	0	9	0%	4%	-	-	-	-
				HSI	10	19	5%	7%	-	-	-	-
				Calibrated RGBW / Direct RGBACL	20	29	8%	11%	-	-	-	-
				Gel Selection	30	39	12%	16%	-	-	-	-
				Source Matching	40	49	17%	19%	-	-	-	-
				x, y Coordinates	50	59	20%	23%	-	-	-	-
				Effects	60	69	24%	27%	-	-	-	-
				Reserved	70	255	28%	100%	-	-	-	-
14	25/26		Color Parameter 1	See Table Below	-	-	-	-	-	-	-	-
15	27/28		Color Parameter 2	See Table Below	-	-	-	-	-	-	-	-
16	29/30		Color Parameter 3	See Table Below	-	-	-	-	-	-	-	-
17	31/32		Color Parameter 4	See Table Below	-	-	-	-	-	-	-	-
18	33/34		Color Parameter 5	See Table Below	-	-	-	-	-	-	-	-
19	35/36		Color Parameter 6	See Table Below	-	-	-	-	-	-	-	-
20	37/38		Color Parameter 7	See Table Below	-	-	-	-	-	-	-	-
21	39/40		Color Parameter 8	See Table Below	-	-	-	-	-	-	-	-
22	41/42		Color Parameter 9	See Table Below	-	-	-	-	-	-	-	-
23	43		Zoom	No Effect	0	19	0%	7%	-	-	-	-
				Linear Spot - Flood (e.g. 20 [15°] ... 255 [30°])	20	255	8%	100%	-	-	-	-
24	44		Focus	No Effect	0	19	0%	7%	-	-	-	-
				Linear Focus	20	255	8%	100%	-	-	-	-
25	45		Reserved	-	0	255	0%	100%	-	-	-	-

CCT & Green - Magenta Point

Parameter		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
				Start	End	Start	End	Start	End	Start	End
1		CCT Range	2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
2		Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
			Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
			-99 % → -1 %	21	119	9%	47%	9831	30145	16%	46%
			Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
			1 % → 99 %	146	244	58%	96%	39977	60292	62%	92%
			Full Plus Green	245	255	97%	100%	60293	65535	93%	100%

HSI

Parameter		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
				Start	End	Start	End	Start	End	Start	End
1		Hue	0 ° → 360°	0	255	0%	100%	0	65535	0%	100%
2		Saturation	0 → Full Saturation	0	255	0%	100%	0	65535	0%	100%

Calibrated RGBW

Parameter		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
				Start	End	Start	End	Start	End	Start	End
1		Intensity Red	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
2		Intensity Green	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
3		Intensity Blue	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
7		Intensity White	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
8		White Point CCT	2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
9		White Point - Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
			Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
			-99 % → -1 %	21	119	9%	47%	9831	30145	16%	46%
			Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
			1 % → 99 %	146	244	58%	96%	39977	60292	62%	92%
			Full Plus Green	245	255	97%	100%	60293	65535	93%	100%

Direct RGBACL

Parameter		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
				Start	End	Start	End	Start	End	Start	End
1		Intensity Red	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
2		Intensity Green	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
3		Intensity Blue	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
4		Intensity Amber	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
5		Intensity Cyan	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
6		Intensity Lime	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
7		Intensity White	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
8		White Point CCT	2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
9		White Point - Green - Magenta Point	Neutral / No Effect	0	10	0%	4%	0	4587	0%	7%
			Full Minus Green	11	20	5%	8%	4588	9830	8%	15%
			-99 % → -1 %	21	119	9%	47%	9831	30145	16%	46%
			Neutral / No Effect	120	145	48%	57%	30146	39976	47%	61%
			1 % → 99 %	146	244	58%	96%	39977	60292	62%	92%
			Full Plus Green	245	255	97%	100%	60293	65535	93%	100%

Gel Selection

Parameter		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
				Start	End	Start	End	Start	End	Start	End
1	GEL	Gel, CCT Selection	2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
2	GEL	Gel, Color Matching Selection	Best Color <i>Note: Color Quality Optimized</i>	0	84	0%	33%	0	21759	0%	33%
			Brightest <i>Note: Color Brightness Optimized</i>	85	170	34%	67%	21760	43775	34%	67%
			No Color Gel	171	255	68%	100%	43776	65535	68%	100%
3	GEL	Gel, Brand	Rosco	0	127	0%	50%	0	32767	0%	50%
			LEE Filters	128	255	51%	100%	32768	65535	51%	100%
4	GEL	Gel, Category (Brand Dependent)	Choose Gel Manufacturer on parameter 3								
			Category 1 Rosco: Color Correction LEE: Color Correction	0	50	0%	20%	0	13055	0%	20%
			Category 2 Rosco: CalColor LEE: Color Filters	51	101	21%	39%	13056	26111	21%	39%
			Category 3 Rosco: Storaro Selection LEE: 600 Series	102	152	40%	60%	26112	39167	40%	60%
			Category 4 Rosco: Cinelux --> Roscolux LEE: Cosmetic Filters	153	203	61%	80%	39168	52223	61%	80%
			Category 5 LEE: 700 Series	204	255	81%	100%	52224	65535	81%	100%
5	GEL	Gel	See "Gels" Table	0	255	0%	100%	0	65535	0%	100%

Source Matching

Parameter		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
				Start	End	Start	End	Start	End	Start	End
1		Category	Incandescent	0	50	0%	20%	0	13055	0%	20%
			Fluorescent	51	101	21%	39%	13056	26111	21%	39%
			Discharge	102	152	40%	59%	26112	39167	40%	59%
			Other	153	203	60%	79%	39168	52223	60%	79%
			Reserved for Future Use	204	255	80%	100%	52224	65535	80%	100%
2		Source	See "Source" Table	0	255	0%	100%	0	65535	0%	100%

x, y Coordinates

Parameter		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
				Start	End	Start	End	Start	End	Start	End
1	X	X Coordinate	0.0 - 0.8	0	255	0%	100%	0	65535	0%	100%
2	Y	Y Coordinate	0.0 - 0.8	0	255	0%	100%	0	65535	0%	100%

Effects

Parameter		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
				Start	End	Start	End	Start	End	Start	End
1		Effect Selection	No Effect	0	9	0%	4%	0	2304	0%	4%
			Party Effect	10	19	5%	7%	2305	4864	5%	7%
			Candle	20	29	8%	11%	4865	7424	8%	11%
			Clouds Passing	30	39	12%	15%	7425	9984	12%	15%
			Club Lights	40	49	16%	19%	9985	12544	16%	19%
			Cop Car	50	59	20%	23%	12545	15104	20%	23%
			Fire	60	69	24%	27%	15105	17664	24%	27%
			Fireworks	70	79	28%	31%	17665	20224	28%	31%
			Light Strobe	80	89	32%	35%	20225	22784	32%	35%
			Lightning	90	99	36%	39%	22785	25344	36%	39%
			Paparazzi	100	109	40%	43%	25345	27904	40%	43%
			Pulsing	110	119	44%	47%	27905	30464	44%	47%
			Television	120	129	48%	51%	30465	33024	48%	51%
			Explosion	130	139	52%	55%	33025	35584	52%	55%
			Fluorescent Flicker	140	149	56%	58%	35585	38144	56%	58%
			Welding	150	159	59%	62%	38145	40704	59%	62%
			Reserved for Future Use	160	255	63%	100%	40705	65535	63%	100%
2		Effect Parameter 1	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
3		Effect Parameter 2	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
4		Effect Parameter 3	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
5		Effect Parameter 4	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
6		Effect Parameter 5	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
7		Effect Parameter 6	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
8		Effect Parameter 7	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%
9		Effect Parameter 8	See "Effects" Table	0	255	0%	100%	0	65535	0%	100%

Variable Channels

Extended Color Control (ECC)

If the DMX setting "ECC" is "OFF", the following channels shall be automatically eliminated from all DMX modes

8 Bit	16 Bit		Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
	HI	LO			Start	End	Start	End	Start	End	Start	End
26	46	47	Warmer / Cooler	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Cool (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Warm (+1.000)	148	255	58%	100%	37780	65535	58%	100%
27	48	49	Saturate / Desaturate	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full Desaturate (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full Saturate (+1.000)	148	255	58%	100%	37780	65535	58%	100%
28	50	51	+ Red / - Red	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Red (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Red (+1.000)	148	255	58%	100%	37780	65535	58%	100%
29	52	53	+ Green / - Green	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Green (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Green (+1.000)	148	255	58%	100%	37780	65535	58%	100%
30	54	55	+ Blue / - Blue	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Blue (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Blue (+1.000)	148	255	58%	100%	37780	65535	58%	100%
31	56	57	+ Cyan / - Cyan	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Cyan (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Cyan (+1.000)	148	255	58%	100%	37780	65535	58%	100%
32	58	59	+ Magenta / - Magenta	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Magenta (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Magenta (+1.000)	148	255	58%	100%	37780	65535	58%	100%
33	60	61	+ Yellow / - Yellow	Neutral	0	19	0%	7%	0	4883	0%	7%
				Full -Yellow (-1.000) → Neutral (0.000)	20	127	8%	50%	4884	32767	8%	50%
				Neutral	128	147	51%	57%	32768	37779	51%	57%
				Neutral (0.000) → Full +Yellow (+1.000)	148	255	58%	100%	37780	65535	58%	100%

Operation

If the DMX setting "Operation" is "OFF", the following channels shall be automatically eliminated from all DMX modes

DMX Channel			Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
8 Bit	16 Bit				Start	End	Start	End	Start	End	Start	End
ECC OFF 26	ECC OFF 46		Fan Control <i>Note: Fan Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Use Fan Mode Setting of Fixture Menu	0	9	0%	3%	-	-	-	-
				Quiet, Fan Speed Fixed	10	57	4%	22%	-	-	-	-
				Variable, Fan Speed Variable	58	105	23%	41%	-	-	-	-
				High Temp, Fan Speed Fixed	106	153	42%	60%	-	-	-	-
				Reserved	154	201	61%	78%	-	-	-	-
ECC ON 34	ECC ON 62			Fan at Full Speed	202	249	79%	98%	-	-	-	-
				Fan Off	250	255	99%	100%	-	-	-	-
ECC OFF 27	ECC OFF 47		Favorites User Defined Favorites	No Effect	0	9	1*	-	-	-	-	-
				Favorite 01	10	-	-	-	-	-	-	-
				Favorite 02	11	-	-	-	-	-	-	-
				Favorite 03	12	-	-	-	-	-	-	-
				Favorite 04	13	-	-	-	-	-	-	-
				Favorite 05	14	-	-	-	-	-	-	-
				Favorite 06	15	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
ECC ON 35	ECC ON 63			Favorite 246	255	-	-	-	-	-	-	-
ECC OFF 28	ECC OFF 48		Light Strobe ²	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
ECC ON 36	ECC ON 64											
ECC OFF 29	ECC OFF 49		Color Sensor <i>Note: Color Sensor Mode reverts to fixture menu setting, when DMX signal is lost.</i>	Off	0	19	0%	7%	-	-	-	-
				Continuous	20	127	8%	50%	-	-	-	-
				Momentary - Once Activated	128	255	51%	100%	-	-	-	-
ECC ON 37	ECC ON 65											
ECC OFF 30	ECC OFF 50		Sync <i>Note: Sync Mode reverts to fixture menu setting, when DMX signal is lost.</i>	No Effect / Reverts to internal setting	0	19	0%	7%	-	-	-	-
				Sync Mode OFF	20	39	8%	15%	-	-	-	-
				Sync Mode ON	40	59	16%	23%	-	-	-	-
				Reserved	60	255	24%	100%	-	-	-	-
ECC ON 38	ECC ON 66			(No Effect / Reverts to internal setting)								

* Providing a percentage less than "1" is not possible

² Not available in DMX Effect Mode

[See page 5 for more information.](#)

**CCT Conversion**8 Bit

$$\text{DMX Value} = \frac{\text{Desired CCT} - 2000}{70.588}$$

$$\text{CCT} = (\text{DMX Value} * 70.588) + 2000$$

16 Bit

$$\text{DMX Value} = \frac{\text{Desired CCT} - 2000}{0.27466239}$$

$$\text{CCT} = (\text{DMX Value} * 0.27466239) + 2000$$

x, y Coordinate to DMX Value Conversion8 Bit

$$\text{DMX}_x = \frac{x_{\text{value}} * 255}{0.8}$$

$$\text{DMX}_y = \frac{y_{\text{value}} * 255}{0.8}$$

16 Bit

$$\text{DMX}_x = \frac{x_{\text{value}} * 65535}{0.8}$$

$$\text{DMX}_y = \frac{y_{\text{value}} * 65535}{0.8}$$

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