

**Orbiter**®

**DMX Mode Specification V4.5**

**LIGHTING - TECHNICAL INFORMATION**

L5.0037960  
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L03616

## Revision History

Date	L-Number	Page	Changes	Sign
26.08.2020	-	-	First Release	PM-SW
15.09.2020	L03616	13 - 20 23 - 24 32	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

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**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



**Parameter Allocation** (see example on Mode 1 & 6, CCT & RGBACL)

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

**DMX Value Allocation** (see example on Mode 1 & 6, CCT & RGBACL)

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: **4.5**

**Mode 1:** 8 Bit  
**Mode 6:** 16 Bit

**Fixed Channels**

DMX Channel		Icon	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 → RGBACL Color	0	255	0%	100%	0	65535	0%	100%
05	09/10		Intensity Red	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
06	11/12		Intensity Green	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
07	13/14		Intensity Blue	0 % → 100 %	0	255	0%	100%	0	65535	0%	100%
08	15/16		Intensity Amber	0 % → 100 % (Only used when Calibration is "Off" in RGBW mode)	0	255	0%	100%	0	65535	0%	100%
09	17/18		Intensity Cyan	0 % → 100 % (Only used when Calibration is "Off" in RGBW mode)	0	255	0%	100%	0	65535	0%	100%
10	19/20		Intensity Lime	0 % → 100 % (Only used when Calibration is "Off" in RGBW mode)	0	255	0%	100%	0	65535	0%	100%
11	21/22		Intensity White	0 % → 100 % (Only used when Calibration is "On" in RGBW mode)	0	255	0%	100%	0	65535	0%	100%
12	23/24		CCT Value	for Calibrated RGBW White Point (Only used when Calibration is "On")	0	255	0%	100%	0	65535	0%	100%
13	25/26		Green - Magenta Value	for Calibrated RGBW White Point (Only used when Calibration is "On")	0	10	0%	4%	0	4587	0%	7%
					11	20	5%	8%	4588	9830	8%	15%
					21	119	9%	47%	9831	30145	16%	46%
					120	145	48%	57%	30146	39976	47%	61%
					146	244	58%	96%	39977	60292	62%	92%
					245	255	97%	100%	60293	65535	93%	100%

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

DMX Channel		Icon	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
14	27		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-
15	28		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	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
Favorite 246	255	-	-	-	-	-	-	-				
16	29		Light Strobe	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
17	30		Reserved for Future Use	-	-	-	-	-	-	-	-	

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



Product Line: **Orbiter**  
 Mode Version: **4.5**

**Mode 1:** 8 Bit  
**Mode 6:** 16 Bit

**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

16 Bit		8 Bit	Parameter Name	Function	Value 8 Bit		% 8 Bit		Value 16 Bit		% 16 Bit	
HI	LO				Start	End	Start	End	Start	End	Start	End
31	32	18	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%
33	34	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%
35	36	20	+ 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%
37	38	21	+ 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%
39	40	22	+ 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%
41	42	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%
43	44	24	+ 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%
45	46	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%



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 Mode Version: **4.5**

**Mode 2:** 8 Bit  
**Mode 7:** 16 Bit

**Fixed Channels**

DMX Channel		Icon	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%

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

DMX Channel		Icon	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
04	07		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-
05	08		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	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
Favorite 246	255	-	-	-	-	-	-	-				
06	09		Light Strobe	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
07	10		Reserved for Future Use	-	-	-	-	-	-	-	-	

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

**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

[See page 5 for more information. An example can be found on page 7.](#)





Product Line: **Orbiter**  
 Mode Version: **4.5**

**Mode 3:** 8 Bit  
**Mode 8:** 16 Bit

DMX Channel		Icon	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	07/08		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%

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

DMX Channel		Icon	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
07	13		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-	
08	14		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	-	-	-	-	-	-		
09	15		Light Strobe	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
10	16		Reserved for Future Use	-	-	-	-	-	-	-	-	

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**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)  
[See page 5 for more information. An example can be found on page 7.](#)



Product Line: **Orbiter**  
 Mode Version: **4.5**

**Mode 4:** 8 Bit  
**Mode 9:** 16 Bit

DMX Channel		Icon	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%

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

DMX Channel		Icon	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	
11	21		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-	
12	22		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	-	-	-	-	-	-	-					
13	23		Light Strobe	No Effect	0	19	0%	7%	-	-	-	-	
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-	
14	24		Reserved for Future Use	-	-	-	-	-	-	-	-		

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

**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

[See page 5 for more information. An example can be found on page 7.](#)



Product Line: **Orbiter**  
 Mode Version: **4.5**

**Mode 5:** 8 Bit  
**Mode 10:** 16 Bit

DMX Channel		Icon	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%

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

DMX Channel		Icon	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
04	07		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-	
05	08		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	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
			Favorite 246	255	-	-	-	-	-	-		
06	09		Light Strobe	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
07	10		Reserved for Future Use	-	-	-	-	-	-	-	-	

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

**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)  
[See page 5 for more information. An example can be found on page 7.](#)

## Gel Selection Modes



Product Line: **Orbiter**  
Mode Version: **4.5**

**Mode 11:** 8 Bit  
**Mode 12:** 16 Bit

DMX Channel		Icon	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	<b>GEL</b>	Gel, CCT Selection	2.000 K → 20.000 K	0	255	0%	100%	0	65535	0%	100%
03	05	<b>GEL</b>	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%	66%	21760	43775	34%	67%
				No Color Gel	171	255	67%	100%	43776	65535	68%	100%
04	06	<b>GEL</b>	Gel, Brand	Choose Category on Channel 5, Gel on Channel 6								
				Rosco	0	127	0%	50%	0	32767	0%	50%
				LEE Filters	128	255	51%	100%	32768	65535	51%	100%
05	07	<b>GEL</b>	Gel, Category (Brand Dependent)	Choose Gel Manufacturer on Channel 4								
				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 LEE: Cosmetic Filters	153	203	61%	80%	39168	52223	61%	80%
				Category 5 LEE: 700 Series	204	255	81%	100%	52224	65535	81%	100%
06	08	<b>GEL</b>	Gel	See "Gels" Table	0	255	0%	100%	0	65535	0%	100%

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

DMX Channel		Icon	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
07	09		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-
08	10	★	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	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
Favorite 246	255	-	-	-	-	-	-	-				
09	11	⚡	Light Strobe	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
10	12		Reserved for Future Use	-	-	-	-	-	-	-	-	

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

**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)  
[See page 5 for more information. An example can be found on page 7.](#)

Category 1 | Rosco: Color Correction

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		Full CTB	3202	0	1	-	-	0	511	-	-
		3/4 CTB	3203	2	3	-	-	512	1023	-	-
		1/2 CTB	3204	4	5	-	-	1024	1535	-	-
		1/3 CTB	3206	6	7	-	-	1536	2047	-	-
		1/4 CTB	3208	8	9	-	-	2048	2559	-	-
		1/8 CTB	3216	10	11	-	-	2560	3071	-	-
		Double CTB	3220	12	13	-	-	3072	3583	-	-
		Full CTO	3407	14	15	-	-	3584	4095	-	-
		3/4 CTO	3411	16	17	-	-	4096	4607	-	-
		1/2 CTO	3408	18	19	-	-	4608	5119	-	-
		1/4 CTO	3409	20	21	-	-	5120	5631	-	-
		1/8 CTO	3410	22	23	-	-	5632	6143	-	-
		Double CTO	3420	24	25	-	-	6144	6655	-	-
		Full CTS	3441	26	27	-	-	6656	7167	-	-
		1/2 CTS	3442	28	29	-	-	7168	7679	-	-
		1/4 CTS	3443	30	31	-	-	7680	8191	-	-
		1/8 CTS	3444	32	33	-	-	8192	8703	-	-
		Full Plusgreen	3304	34	35	-	-	8704	9215	-	-
		1/2 Plusgreen	3315	36	37	-	-	9216	9727	-	-
		1/4 Plusgreen	3316	38	39	-	-	9728	10239	-	-
		1/8 Plusgreen	3317	40	41	-	-	10240	10751	-	-
		Full Minusgreen	3308	42	43	-	-	10752	11263	-	-
		3/4 Minusgreen	3309	44	45	-	-	11264	11775	-	-
		1/2 Minusgreen	3313	46	47	-	-	11776	12287	-	-
		1/4 Minusgreen	3314	48	49	-	-	12288	12799	-	-
		1/8 Minusgreen	3318	50	51	-	-	12800	13311	-	-
		Fluorofilter	3310	52	53	-	-	13312	13823	-	-
		Industrial Vapor	3150	54	55	-	-	13824	14335	-	-
		Urban Vapor	3152	56	57	-	-	14336	14847	-	-
		Tough Y-1	3107	58	59	-	-	14848	15359	-	-
	Tough MT 54	3134	60	61	-	-	15360	15871	-	-	
	Tough MTY	3106	62	63	-	-	15872	16383	-	-	
	Tough MT2	3102	64	65	-	-	16384	16895	-	-	
	Reserved for Future Use	-	-	66	255	-	-	16896	65535	-	-

Category 2 | Rosco: CalColor

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		15 Blue	4215	0	1	-	-	0	511	-	-
		30 Blue	4230	2	3	-	-	512	1023	-	-
		60 Blue	4260	4	5	-	-	1024	1535	-	-
		90 Blue	4290	6	7	-	-	1536	2047	-	-
		7 Cyan	4307	8	9	-	-	2048	2559	-	-
		15 Cyan	4315	10	11	-	-	2560	3071	-	-
		30 Cyan	4330	12	13	-	-	3072	3583	-	-
		60 Cyan	4360	14	15	-	-	3584	4095	-	-
		90 Cyan	4390	16	17	-	-	4096	4607	-	-
		15 Green	4415	18	19	-	-	4608	5119	-	-
		30 Green	4430	20	21	-	-	5120	5631	-	-
		60 Green	4460	22	23	-	-	5632	6143	-	-
		90 Green	4490	24	25	-	-	6144	6655	-	-
		15 Yellow	4515	26	27	-	-	6656	7167	-	-
		30 Yellow	4530	28	29	-	-	7168	7679	-	-
		60 Yellow	4560	30	31	-	-	7680	8191	-	-
		90 Yellow	4590	32	33	-	-	8192	8703	-	-
		15 Red	4615	34	35	-	-	8704	9215	-	-
		30 Red	4630	36	37	-	-	9216	9727	-	-
		60 Red	4660	38	39	-	-	9728	10239	-	-
		90 Red	4690	40	41	-	-	10240	10751	-	-
		15 Magenta	4715	42	43	-	-	10752	11263	-	-
		30 Magenta	4730	44	45	-	-	11264	11775	-	-
		60 Magenta	4760	46	47	-	-	11776	12287	-	-
		90 Magenta	4790	48	49	-	-	12288	12799	-	-
		15 Pink	4815	50	51	-	-	12800	13311	-	-
		30 Pink	4830	52	53	-	-	13312	13823	-	-
		60 Pink	4860	54	55	-	-	13824	14335	-	-
	90 Pink	4890	56	57	-	-	14336	14847	-	-	
	15 Lavender	4915	58	59	-	-	14848	15359	-	-	
	30 Lavender	4930	60	61	-	-	15360	15871	-	-	
	60 Lavender	4960	62	63	-	-	15872	16383	-	-	
	90 Lavender	4990	64	65	-	-	16384	16895	-	-	
	Reserved for Future Use	-	-	66	255	-	-	16896	65535	-	-

Category 3 | Rosco: Storaro Selection

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		VS Red	2001	0	1	-	-	0	511	-	-
		VS Orange	2202	2	3	-	-	512	1023	-	-
		VS Yellow	2003	4	5	-	-	1024	1535	-	-
		VS Green	2004	6	7	-	-	1536	2047	-	-
		VS Cyan	2005	8	9	-	-	2048	2559	-	-
		VS Azure	2006	10	11	-	-	2560	3071	-	-
		VS Blue	2007	12	13	-	-	3072	3583	-	-
		VS Indigo	2008	14	15	-	-	3584	4095	-	-
		VS Violet	2009	16	17	-	-	4096	4607	-	-
		VS Magenta	2010	18	19	-	-	4608	5119	-	-
	Reserved for Future Use	-	-	20	255	-	-	5120	65535	-	-

Category 4 | Rosco: Cinelux

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		Bastard Amber	2	0	1	-	-	0	511	-	-
		Pale Bastard Amber	302	2	3	-	-	512	1023	-	-
		No Color Straw	6	4	5	-	-	1024	1535	-	-
		Pale Gold	8	6	7	-	-	1536	2047	-	-
		Daffodil	310	8	9	-	-	2048	2559	-	-
		Straw	12	10	11	-	-	2560	3071	-	-
		Light Amber	16	12	13	-	-	3072	3583	-	-
		Gallo Gold	316	14	15	-	-	3584	4095	-	-
		Light Flame	17	16	17	-	-	4096	4607	-	-
		Flame	18	18	19	-	-	4608	5119	-	-
		Mayan Sun	318	20	21	-	-	5120	5631	-	-
		Golden Amber	21	22	23	-	-	5632	6143	-	-
		Soft Golden Amber	321	24	25	-	-	6144	6655	-	-
		Orange	23	26	27	-	-	6656	7167	-	-
		Henny Sky	325	28	29	-	-	7168	7679	-	-
		Light Red	26	30	31	-	-	7680	8191	-	-
		No Color Pink	33	32	33	-	-	8192	8703	-	-
		Blush Pink	333	34	35	-	-	8704	9215	-	-
		Flesh Pink	34	36	37	-	-	9216	9727	-	-
		Pale Rose Pink	37	38	39	-	-	9728	10239	-	-
		Salmon	41	40	41	-	-	10240	10751	-	-
		Deep Salmon	42	42	43	-	-	10752	11263	-	-
		Middle Rose	44	44	45	-	-	11264	11775	-	-
		Light Rose Purple	47	46	47	-	-	11776	12287	-	-
		Surprise Pink	51	48	49	-	-	12288	12799	-	-
		No Color Blue	60	50	51	-	-	12800	13311	-	-
		Clearwater	360	52	53	-	-	13312	13823	-	-
		Booster Blue	62	54	55	-	-	13824	14335	-	-
		Tipton Blue	362	56	57	-	-	14336	14847	-	-
		Blue Bell	364	58	59	-	-	14848	15359	-	-
		Daylight Blue	65	60	61	-	-	15360	15871	-	-
		Tharon Delft Blue	365	62	63	-	-	15872	16383	-	-
		Cerulean Blue	375	64	65	-	-	16384	16895	-	-
		Bermuda Blue	376	66	67	-	-	16896	17407	-	-
	Green Blue	77	68	69	-	-	17408	17919	-	-	
	Alice Blue	378	70	71	-	-	17920	18431	-	-	
	Primary Blue	80	72	73	-	-	18432	18943	-	-	
	Baldassari Blue	381	74	75	-	-	18944	19455	-	-	
	Medium Blue	83	76	77	-	-	19456	19967	-	-	
	Pale Yellow Green	87	78	79	-	-	19968	20479	-	-	
	Light Green	88	80	81	-	-	20480	20991	-	-	
	Moss Green	89	82	83	-	-	20992	21503	-	-	
	Primary Green	91	84	85	-	-	21504	22015	-	-	
	Turquoise	92	86	87	-	-	22016	22527	-	-	
	Blue Green	93	88	89	-	-	22528	23039	-	-	
	Chocolate	99	90	91	-	-	23040	23551	-	-	
	Reserved for Future Use	-	92	255	-	-	23552	65535	-	-	

Category 1 | Lee: Color Correction

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		Double CTB	200	0	1	-	-	0	511	-	-
		Full CTB	201	2	3	-	-	512	1023	-	-
		3/4 CTB	281	4	5	-	-	1024	1535	-	-
		1/2 CTB	202	6	7	-	-	1536	2047	-	-
		1/4 CTB	203	8	9	-	-	2048	2559	-	-
		1/8 CTB	218	10	11	-	-	2560	3071	-	-
		Double CTO	287	12	13	-	-	3072	3583	-	-
		Full CTO	204	14	15	-	-	3584	4095	-	-
		3/4 CTO	285	16	17	-	-	4096	4607	-	-
		1/2 CTO	205	18	19	-	-	4608	5119	-	-
		1/4 CTO	206	20	21	-	-	5120	5631	-	-
		1/8 CTO	223	22	23	-	-	5632	6143	-	-
		1 1/2 CTB	283	24	25	-	-	6144	6655	-	-
		1 1/2 CTO	286	26	27	-	-	6656	7167	-	-
		Full CTS	441	28	29	-	-	7168	7679	-	-
		1/2 CTS	442	30	31	-	-	7680	8191	-	-
		1/4 CTS	443	32	33	-	-	8192	8703	-	-
		1/8 CTS	444	34	35	-	-	8704	9215	-	-
		Full CTO + .3 ND	207	36	37	-	-	9216	9727	-	-
		Full CTO + .6 ND	208	38	39	-	-	9728	10239	-	-
		L.C.T. Yellow (Y1)	212	40	41	-	-	10240	10751	-	-
		White Flame Green	213	42	43	-	-	10752	11263	-	-
		LEE Fluorescent Green	219	44	45	-	-	11264	11775	-	-
		Super Correction L.C.T. Yellow	230	46	47	-	-	11776	12287	-	-
		Super Correction W.F. Green	232	48	49	-	-	12288	12799	-	-
		H.M.I. (to Tungsten)	236	50	51	-	-	12800	13311	-	-
		C.I.D. (to Tungsten)	237	52	53	-	-	13312	13823	-	-
		C.S.I. (to Tungsten)	238	54	55	-	-	13824	14335	-	-
		LEE Fluorescent 5700 Kelvin	241	56	57	-	-	14336	14847	-	-
		LEE Fluorescent 4300 Kelvin	242	58	59	-	-	14848	15359	-	-
		LEE Fluorescent 3600 Kelvin	243	60	61	-	-	15360	15871	-	-
		LEE Plus Green	244	62	63	-	-	15872	16383	-	-
		1/2 Plus Green	245	64	65	-	-	16384	16895	-	-
		1/4 Plus Green	246	66	67	-	-	16896	17407	-	-
	1/8 Plus Green	278	68	69	-	-	17408	17919	-	-	
	Lee Minus Green	247	70	71	-	-	17920	18431	-	-	
	1/2 Minus Green	248	72	73	-	-	18432	18943	-	-	
	1/4 Minus Green	249	74	75	-	-	18944	19455	-	-	
	1/8 Minus Green	279	76	77	-	-	19456	19967	-	-	
	Reserved for Future Use	-	78	255	-	-	19968	65535	-	-	



Category 2 | Lee: Color Filters

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		Rose Pink	002	0	1	-	-	0	511	-	-
		Lavender Tint	003	2	3	-	-	512	1023	-	-
		Medium Bastard Amber	004	4	5	-	-	1024	1535	-	-
		Pale Yellow	007	6	7	-	-	1536	2047	-	-
		Dark Salmon	008	8	9	-	-	2048	2559	-	-
		Pale Amber Gold	009	10	11	-	-	2560	3071	-	-
		Medium Yellow	010	12	13	-	-	3072	3583	-	-
		Straw Tint	013	14	15	-	-	3584	4095	-	-
		Surprise Peach	017	16	17	-	-	4096	4607	-	-
		Fire	019	18	19	-	-	4608	5119	-	-
		Medium Amber	020	20	21	-	-	5120	5631	-	-
		Gold Amber	021	22	23	-	-	5632	6143	-	-
		Dark Amber	022	24	25	-	-	6144	6655	-	-
		Scarlet	024	26	27	-	-	6656	7167	-	-
		Sunset Red	025	28	29	-	-	7168	7679	-	-
		Bright Red	026	30	31	-	-	7680	8191	-	-
		Light Pink	035	32	33	-	-	8192	8703	-	-
		Medium Pink	036	34	35	-	-	8704	9215	-	-
		Dark Magenta	046	36	37	-	-	9216	9727	-	-
		Rose Purple	048	38	39	-	-	9728	10239	-	-
		Light Lavender	052	40	41	-	-	10240	10751	-	-
		Paler Lavender	053	42	43	-	-	10752	11263	-	-
		Lavender	058	44	45	-	-	11264	11775	-	-
		Mist Blue	061	46	47	-	-	11776	12287	-	-
		Pale Blue	063	48	49	-	-	12288	12799	-	-
		Sky Blue	068	50	51	-	-	12800	13311	-	-
		Evening Blue	075	52	53	-	-	13312	13823	-	-
		Just Blue	079	54	55	-	-	13824	14335	-	-
		Deeper Blue	085	56	57	-	-	14336	14847	-	-
		Lime Green	088	58	59	-	-	14848	15359	-	-
		Moss Green	089	60	61	-	-	15360	15871	-	-
		Dark Yellow Green	090	62	63	-	-	15872	16383	-	-
		Spring Yellow	100	64	65	-	-	16384	16895	-	-
		Yellow	101	66	67	-	-	16896	17407	-	-
		Light Amber	102	68	69	-	-	17408	17919	-	-
		Straw	103	70	71	-	-	17920	18431	-	-
		Deep Amber	104	72	73	-	-	18432	18943	-	-
		Primary Red	106	74	75	-	-	18944	19455	-	-
	Light Rose	107	76	77	-	-	19456	19967	-	-	
	English Rose	108	78	79	-	-	19968	20479	-	-	
	Light Salmon	109	80	81	-	-	20480	20991	-	-	
	Middle Rose	110	82	83	-	-	20992	21503	-	-	
	Dark Pink	111	84	85	-	-	21504	22015	-	-	
	Magenta	113	86	87	-	-	22016	22527	-	-	
	Peacock Blue	115	88	89	-	-	22528	23039	-	-	
	Steel Blue	117	90	91	-	-	23040	23551	-	-	
	Light Blue	118	92	93	-	-	23552	24063	-	-	
	Deep Blue	120	94	95	-	-	24064	24575	-	-	
	LEE Green	121	96	97	-	-	24576	25087	-	-	
	Fern Green	122	98	99	-	-	25088	25599	-	-	
	Dark Green	124	100	101	-	-	25600	26111	-	-	
	Smokey Pink	127	102	103	-	-	26112	26623	-	-	
	Bright Pink	128	104	105	-	-	26624	27135	-	-	
	Marine Blue	131	106	107	-	-	27136	27647	-	-	
	Golden Amber	134	108	109	-	-	27648	28159	-	-	
	Deep Golden Amber	135	110	111	-	-	28160	28671	-	-	
	Pale Lavender	136	112	113	-	-	28672	29183	-	-	
	Special Lavender	137	114	115	-	-	29184	29695	-	-	
	Pale Green	138	116	117	-	-	29696	30207	-	-	

Category 2 | Lee: Color Filters (continued)

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		Summer Blue	140	118	119	-	-	30208	30719	-	-
		Pale Violet	142	120	121	-	-	30720	31231	-	-
		Pale Navy Blue	143	122	123	-	-	31232	31743	-	-
		No Color Blue	144	124	125	-	-	31744	32255	-	-
		Apricot	147	126	127	-	-	32256	32767	-	-
		Bright Rose	148	128	129	-	-	32768	33279	-	-
		Gold Tint	151	130	131	-	-	33280	33791	-	-
		Pale Gold	152	132	133	-	-	33792	34303	-	-
		Pale Salmon	153	134	135	-	-	34304	34815	-	-
		Pale Rose	154	136	137	-	-	34816	35327	-	-
		Chocolate	156	138	139	-	-	35328	35839	-	-
		Pink	157	140	141	-	-	35840	36351	-	-
		No Color Straw	159	142	143	-	-	36352	36863	-	-
		Slate Blue	161	144	145	-	-	36864	37375	-	-
		Bastard Amber	162	146	147	-	-	37376	37887	-	-
		Flame Red	164	148	149	-	-	37888	38399	-	-
		Daylight Blue	165	150	151	-	-	38400	38911	-	-
		Lilac Tint	169	152	153	-	-	38912	39423	-	-
		Deep Lavender	170	154	155	-	-	39424	39935	-	-
		Dark Steel Blue	174	156	157	-	-	39936	40447	-	-
		Loving Amber	176	158	159	-	-	40448	40959	-	-
		Dark Lavender	180	160	161	-	-	40960	41471	-	-
		Light Red	182	162	163	-	-	41472	41983	-	-
		Flesh Pink	192	164	165	-	-	41984	42495	-	-
		Surprise Pink	194	166	167	-	-	42496	43007	-	-
		Zenith Blue	195	168	169	-	-	43008	43519	-	-
	True Blue	196	170	171	-	-	43520	44031	-	-	
	Alice Blue	197	172	173	-	-	44032	44543	-	-	
	Palace Blue	198	174	175	-	-	44544	45055	-	-	
	Regal Blue	199	176	177	-	-	45056	45567	-	-	
	Reserved for Future Use	-	178	255	-	-	45568	65535	-	-	

Category 3 | Lee: 600 Series

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		Arctic White	600	0	1	-	-	0	511	-	-
		Silver	601	2	3	-	-	512	1023	-	-
		Platinum	602	4	5	-	-	1024	1535	-	-
		Moonlight White	603	6	7	-	-	1536	2047	-	-
		Full CT 85	604	8	9	-	-	2048	2559	-	-
		Industry Sodium	650	10	11	-	-	2560	3071	-	-
		HI Sodium	651	12	13	-	-	3072	3583	-	-
		Urban Sodium	652	14	15	-	-	3584	4095	-	-
		LO Sodium	653	16	17	-	-	4096	4607	-	-
	Reserved for Future Use	-	18	255	-	-	4608	65535	-	-	

Category 4 | Lee: Cosmetic Filters

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		Cosmetic Peach	184	0	1	-	-	0	511	-	-
		Cosmetic Silver Rose	186	2	3	-	-	512	1023	-	-
		Cosmetic Rouge	187	4	5	-	-	1024	1535	-	-
		Cosmetic Highlight	188	6	7	-	-	1536	2047	-	-
		Cosmetic Silver Moss	189	8	9	-	-	2048	2559	-	-
		Cosmetic Aqua Blue	191	10	11	-	-	2560	3071	-	-
		Lily Frost	705	12	13	-	-	3072	3583	-	-
		Shanklin Frost	717	14	15	-	-	3584	4095	-	-
		Half Shanklin Frost	718	16	17	-	-	4096	4607	-	-
		Durham Daylight Frost	720	18	19	-	-	4608	5119	-	-
		Hampshire Rose	749	20	21	-	-	5120	5631	-	-
		Durham Frost	750	22	23	-	-	5632	6143	-	-
		Soft Amber Key 1	774	24	25	-	-	6144	6655	-	-
		Soft Amber Key 2	775	26	27	-	-	6656	7167	-	-
		Moroccan Frost	791	28	29	-	-	7168	7679	-	-
		Blue Diffusion	217	30	31	-	-	7680	8191	-	-
		Blue Frost	221	32	33	-	-	8192	8703	-	-
		Daylight Blue Frost	224	34	35	-	-	8704	9215	-	-
	Reserved for Future Use	-	36	255	-	-	9216	65535	-	-	

Category 5 | Lee: 700 Series

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		Perfect Lavender	700	0	1	-	-	0	511	-	-
		Provence	701	2	3	-	-	512	1023	-	-
		Special Pale Lavender	702	4	5	-	-	1024	1535	-	-
		Cold Lavender	703	6	7	-	-	1536	2047	-	-
		Lily	704	8	9	-	-	2048	2559	-	-
		King Fals Lavender	706	10	11	-	-	2560	3071	-	-
		Cool Lavender	708	12	13	-	-	3072	3583	-	-
		Electric Lilac	709	14	15	-	-	3584	4095	-	-
		Spir Special Blue	710	16	17	-	-	4096	4607	-	-
		Cold Blue	711	18	19	-	-	4608	5119	-	-
		Bedford Blue	712	20	21	-	-	5120	5631	-	-
		Elysian Blue	714	22	23	-	-	5632	6143	-	-
		Cabana Blue	715	24	25	-	-	6144	6655	-	-
		Mikkel Blue	716	26	27	-	-	6656	7167	-	-
		Colour Wash Blue	719	28	29	-	-	7168	7679	-	-
		Berry Blue	721	30	31	-	-	7680	8191	-	-
		Virgin Blue	723	32	33	-	-	8192	8703	-	-
		Ocean Blue	724	34	35	-	-	8704	9215	-	-
		Old Steel Blue	725	36	37	-	-	9216	9727	-	-
		Steel Green	728	38	39	-	-	9728	10239	-	-
		Liberty Green	730	40	41	-	-	10240	10751	-	-
		Dirty Ice	731	42	43	-	-	10752	11263	-	-
		Damp Squib	733	44	45	-	-	11264	11775	-	-
		JAS Green	738	46	47	-	-	11776	12287	-	-
		Bram Brown	742	48	49	-	-	12288	12799	-	-
		Dirty White	744	50	51	-	-	12800	13311	-	-
		Brown	746	52	53	-	-	13312	13823	-	-
		Easy White	747	54	55	-	-	13824	14335	-	-
		Seedy Pink	748	56	57	-	-	14336	14847	-	-
		Wheat	763	58	59	-	-	14848	15359	-	-
		Sun Colour Straw	764	60	61	-	-	15360	15871	-	-
		LEE Yellow	765	62	63	-	-	15872	16383	-	-
		Cardbox Amber	773	64	65	-	-	16384	16895	-	-
		Nectarine	776	66	67	-	-	16896	17407	-	-

Category 5 | Lee: 700 Series (continued)

\*Ultimate Mode only

DMX Channel		Gel Name	Gel Number	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		Millenium Gold	778	68	69	-	-	17408	17919	-	-
		Bastard Pink	779	70	71	-	-	17920	18431	-	-
		Terry Red	781	72	73	-	-	18432	18943	-	-
		Blood Red	789	74	75	-	-	18944	19455	-	-
		Moroccan Pink	790	76	77	-	-	19456	19967	-	-
		Pretty n'Pink	794	78	79	-	-	19968	20479	-	-
		Magical Magenta	795	80	81	-	-	20480	20991	-	-
		Reserved for Future Use	-	82	255	-	-	20992	65535	-	-



Product Line: **Orbiter**  
 Mode Version: **4.5**

**Mode 13:** 8 Bit  
**Mode 14:** 16 Bit

DMX Channel		Icon	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	X Coordinate	0.0 - 0.8	0	255	0%	100%	0	65535	0%	100%
03	05/06	Y	Y Coordinate	0.0 - 0.8	0	255	0%	100%	0	65535	0%	100%

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

DMX Channel		Icon	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
04	07		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-
05	08	★	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	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
Favorite 246	255	-	-	-	-	-	-	-				
06	09	⚡	Light Strobe	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
07	10		Reserved for Future Use	-	-	-	-	-	-	-	-	

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

**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)  
[See page 5 for more information. An example can be found on page 7.](#)

## Source Matching Modes



Product Line: **Orbiter**  
Mode Version: **4.5**

**Mode 15:** 8 Bit  
**Mode 16:** 16 Bit

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%	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%
03	04		Source	See "Source" Table	0	255	0%	100%	0	65535	0%	100%

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", 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
04	05		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-
05	06		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	-	-	-	-	-	-	-				
06	07		Light Strobe	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
07	08		Reserved for Future Use	-	-	-	-	-	-	-	-	

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

**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)  
[See page 5 for more information. An example can be found on page 7.](#)

## 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	-	-		





Product Line: **Orbiter**  
 Mode Version: **4.5**

**Mode 17:** 8 Bit  
**Mode 18:** 16 Bit

DMX Channel		Icon	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%

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

DMX Channel		Icon	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
11	20		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-
12	21		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	-	-	-	-	-	-	-
				...	...	-	-	-	-	-	-	-
Favorite 246	255	-	-	-	-	-	-	-				
13-14	22-23		Reserved for Future Use	-	-	-	-	-	-	-	-	

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

**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)  
[See page 5 for more information. An example can be found on page 7.](#)

## 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	Speed	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	Speed	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	Speed	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	Sync	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%
24 Colors	224	255	88%	100%	57344	65535	88%	100%		
2	Speed	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%
2	Flash Pattern	Red	224	255	88%	100%	57344	65535	88%	100%
		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	Speed	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	Speed	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	Speed	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%
4	Cross Fade to Color	Full Plus Green	245	255	97%	100%	60293	65535	93%	100%
		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	Frequency	2 → 14 Lightning Strikes Set	0	254	0%	99%	0	65534	0%	99%
		Random	255		100%		65535		100%	
2	Speed	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	Sync	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	Frequency	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	Frequency	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	Speed	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	Speed	2 → 6 Seconds of Still	0	255	0%	100%	0	65535	0%	100%
2	Frequency	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	Speed	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%



Product Line: **Orbiter**  
 Mode Version: **4.5**

**Mode 19:** 8 Bit  
**Mode 20:** 16 Bit

DMX Channel		Icon	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	-	-	-	-	-	-	-	

**Reduced Channels** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)




DMX Channel		Icon	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
23	43		Fan Control <i>Note: Fan Mode reverts to fixture manu 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%	-	-	-	-				
24	44		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	-	-	-	-	-	-	-
...	...	-	-	-	-	-	-	-				
Favorite 246	255	-	-	-	-	-	-	-				
25	45		Light Strobe	No Effect	0	19	0%	7%	-	-	-	-
				1 Flash / s → 25 Flashes / s	20	255	8%	100%	-	-	-	-
26	46		Reserved for Future Use	-	-	-	-	-	-	-	-	

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




**Extended Color Control** (If the DMX setting "Reduce Channels" is "ON", the following channels shall be automatically eliminated from all DMX modes)

[See page 5 for more information. An example can be found on page 7.](#)








**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	0	84	0%	33%	0	21759	0%	33%
			<i>Note: Color Quality Optimized</i> Brightest	85	170	34%	67%	21760	43775	34%	67%
			<i>Note: Color Brightness Optimized</i> 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 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%

**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 Conversion**8 Bit

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

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

16 Bit

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

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

**ARRI** 