



# **Electro Storm CS15**

DMX Profile Specification 1.0

Controller Firmware V1.2

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## Mode 1: CCT & RGB 8-bit (8-13 channels)

Channel	Value	Percent	Function		
1	0 - 255	0 - 100	<b>Intensity</b>	0 - 100%	
2	0 - 255	0 - 100	<b>CCT</b>	2000K- 10000K	
3	0 - 10	0 - 4	<b>Green / Magenta</b>	Neutral / No Effect	
	11-20	5 - 8		Full Minus Green	
	21 - 119	9 - 47		-99% - -1%	
	120 - 145	48 - 57		Neutral / No Effect	
	146 - 244	58 - 96		1% - 99%	
	245 - 255	97 - 100		Full Plus Green	
4	0 - 255	0 - 100	<b>CCT ↔RGB</b>	Crossfade to Color	
5	0 - 255	0 - 100	<b>Red</b>	0 - 100%	
6	0 - 255	0 - 100	<b>Green</b>	0 - 100%	
7	0 - 255	0 - 100	<b>Blue</b>	0 - 100%	
8	0 - 19	0 - 7	<b>Strobe</b>	NO Effect	
	20 - 255	8 - 100		1Hz - 25Hz	
<b>Motorized Accessories (Defaults to ON)</b>					
9	0 - 19	0 - 7	<b>Zoom</b>	NO Effect	
	20 - 255	8 - 100		18° - 50°	
10	0 - 19	0 - 7	<b>Pan</b>	NO Effect	
	20 - 255	8 - 100		0° - 359°	
11	0 - 19	0 - 7	<b>Tilt</b>	NO Effect	
	20 - 255	8 - 100		-135° - 135°	
<b>Function Configuration (Defaults to ON)</b>					
12	9	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
13	10	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 2: CCT 8-bit (4-9 channels)

Channel	Value	Percent	Function		
1	0 - 255	0 - 100	<b>Intensity</b>	0 - 100%	
2	0 - 255	0 - 100	<b>CCT</b>	2000K- 10000K	
3	0 - 10	0 - 4	<b>Green / Magenta</b>	Neutral / No Effect	
	11-20	5 - 8		Full Minus Green	
	21 - 119	9 - 47		-99% - -1%	
	120 - 145	48 - 57		Neutral / No Effect	
	146 - 244	58 - 96		1% - 99%	
4	0 - 19	0 - 7		<b>Strobe</b> NO Effect	
	20 - 255	8 - 100			1Hz - 25Hz
<b>Motorized Accessories (Defaults to ON)</b>					
5	0 - 19	0 - 7	<b>Zoom</b>	NO Effect	
	20 - 255	8 - 100		18° - 50°	
6	0 - 19	0 - 7	<b>Pan</b>	NO Effect	
	20 - 255	8 - 100		0° - 359°	
7	0 - 19	0 - 7	<b>Tilt</b>	NO Effect	
	20 - 255	8 - 100		-135° - 135°	
<b>Function Configuration (Defaults to ON)</b>					
8	5	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
9	6	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

### Mode 3: CCT & HSI 8-bit (8-13 channels)

Channel	Value	Percent	Function		
1	0 - 255	0 - 100	Intensity	0 - 100%	
2	0 - 255	0 - 100	CCT	2000K- 10000K	
3	0 - 10	0 - 4	Green / Magenta	Neutral / No Effect	
	11-20	5 - 8		Full Minus Green	
	21 - 119	9 - 47		-0.98	
	120 - 145	48 - 57		Neutral / No Effect	
	146 - 244	58 - 96		1% - 99%	
	245 - 255	97 - 100		Full Plus Green	
4	0 - 255	0 - 100	CCT ↔ HSI	Crossfade to Color	
5	0 - 255	0 - 100	Hue	1 - 360°	
6	0 - 255	0 - 100	Saturation	0 - 100%	
7	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000 K	
8	0 - 19	0 - 7	Strobe	NO Effect	
	20 - 255	8 - 100		1Hz - 25Hz	
<b>Motorized Accessories (Defaults to ON)</b>					
9	0 - 19	0 - 7	Zoom	NO Effect	
	20 - 255	8 - 100		18° - 50°	
10	0 - 19	0 - 7	Pan	NO Effect	
	20 - 255	8 - 100		0° - 359°	
11	0 - 19	0 - 7	Tilt	NO Effect	
	20 - 255	8 - 100		-135° - 135°	
<b>Function Configuration (Defaults to ON)</b>					
12	9	0 - 63	0 - 25	Fan Mode	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
13	10	0 - 63	0 - 25	Dimming Curve	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 4: RGB 8-bit (5-10 channels)

Channel	Value	Percent	Function		
1	0 - 255	0 - 100	<b>Intensity</b>	0 - 100%	
2	0 - 255	0 - 100	<b>Red</b>	0 - 100%	
3	0 - 255	0 - 100	<b>Green</b>	0 - 100%	
4	0 - 255	0 - 100	<b>Blue</b>	0 - 100%	
5	0 - 19	0 - 7	<b>Strobe</b>	NO Effect	
	20 - 255	8 - 100		1Hz - 25Hz	
<b>Motorized Accessories (Defaults to ON)</b>					
6	0 - 19	0 - 7	<b>Zoom</b>	NO Effect	
	20 - 255	8 - 100		18° - 50°	
7	0 - 19	0 - 7	<b>Pan</b>	NO Effect	
	20 - 255	8 - 100		0° - 359°	
8	0 - 19	0 - 7	<b>Tilt</b>	NO Effect	
	20 - 255	8 - 100		-135° - 135°	
<b>Function Configuration (Defaults to ON)</b>					
9	6	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
10	7	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 5: Adv.HSI 8-bit (5-10 channels)

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	Hue	1° - 360°
3	0 - 255	0 - 100	Saturation	0 - 100%
4	0 - 9 10 - 255	0 - 4 5 - 100	HSI Base CCT	6500 K 2000K- 10000K
5	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	NO Effect 1Hz - 25Hz
<b>Motorized Accessories (Defaults to ON)</b>				
6	0 - 19 20 - 255	0 - 7 8 - 100	Zoom	NO Effect 18° - 50°
7	0 - 19 20 - 255	0 - 7 8 - 100	Pan	NO Effect 0° - 359°
8	0 - 19 20 - 255	0 - 7 8 - 100	Tilt	NO Effect -135° - 135°
<b>Function Configuration (Defaults to ON)</b>				
9	6	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Fan Mode Smart High Medium Silent
10	7	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Dimming Curve Linear S - curve Exp Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 6: Gel 8-bit (6-11 channels)

Channel	Value	Percent	Function		
1	0 - 255	0 - 100	Intensity	0 - 100%	
2	0 - 127	0 - 50	CCT	3200K	
	128 - 255	51 - 100		5600K	
3	0 - 29	0 - 12	Rosco / Lee	Rosco	
	30 - 59	13 - 24		Lee	
	60 - 255	25 - 100		Reserved	
4	0 - 9	0 - 4	Series	R-Col.corr / L-Col.corr	
	10-19	5 - 8		R-Cal color / L-Cal.Filter	
	20 - 29	45181		R-Storaro / L-600 Series	
	30 - 39	13 - 16		R-Cinelux / L-Cosmetic	
	40 - 49	17 - 20		R-reserved / L-700 Series	
	50 - 255	21 - 100		Reserved	
5	0 - 255	0 - 100	Category	See GEL Category Tables In Following Pages	
6	0 - 19	0 - 7	Strobe	NO Effect	
	20 - 255	8 - 100		1Hz - 25Hz	
<b>Motorized Accessories (Defaults to ON)</b>					
7	0 - 19	0 - 7	Zoom	NO Effect	
	20 - 255	8 - 100		18° - 50°	
8	0 - 19	0 - 7	Pan	NO Effect	
	20 - 255	8 - 100		0° - 359°	
9	0 - 19	0 - 7	Tilt	NO Effect	
	20 - 255	8 - 100		-135° - 135°	
<b>Function Configuration (Defaults to ON)</b>					
10	7	0 - 63	0 - 25	Fan Mode	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
11	8	0 - 63	0 - 25	Dimming Curve	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**



<b>GEL Category 1: Rosco – Color Correction</b>			
<b>Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Number</b>
<b>5</b>	0-1	Full CTB	3202
	2-3	3/4 CTB	3203
	4-5	1/2 CTB	3204
	6-7	1/3 CTB	3206
	8-9	1/4 CTB	3208
	10-11	1/8 CTB	3216
	12-13	Double CTB	3220
	14-15	Full CTO	3407
	16-17	3/4 CTO	3411
	18-19	1/2 CTO	3408
	20-21	1/4 CTO	3409
	22-23	1/8 CTO	3410
	24-25	Double CTO	3420
	26-27	Full CTS	3441
	28-29	1/2 CTS	3442
	30-31	1/4 CTS	3443
	32-33	1/8 CTS	3444
	34-35	Full Plus Green	3304
	36-37	1/2 Plus Green	3315
	38-39	1/4 Plus Green	3316
	40-41	1/8 Plus Green	3317
	42-43	Full Minus Green	3308
	44-45	3/4 Minus Green	3309
	46-47	1/2 Minus Green	3313
	48-49	1/4 Minus Green	3314
	50-51	1/8 Minus Green	3318
	52-53	Fluorofilter	3310
	54-55	Industrial Vapor	3150
	56-57	Urban Vapor	3152
	58-59	Tough Y1	3107
	60-61	Tough MT 54	3134
	62-63	Tough MTY	3106
64-65	Tough MT2	3102	
66-255	Reserved		

<b>GEL Category 2: Rosco – CalColor</b>			
<b>Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Number</b>
<b>5</b>	0-1	15 Blue	4215
	2-3	30 Blue	4230
	4-5	60 Blue	4260
	6-7	90 Blue	4290
	8-9	7 Cyan	4307
	10-11	15 Cyan	4315
	12-13	30 Cyan	4330
	14-15	60 Cyan	4360
	16-17	90 Cyan	4390
	18-19	15 Green	4415
	20-21	30 Green	4430
	22-23	60 Green	4460
	24-25	90 Green	4490
	26-27	15 Yellow	4515
	28-29	30 Yellow	4530
	30-31	60 Yellow	4560
	32-33	90 Yellow	4590
	34-35	15 Red	4615
	36-37	30 Red	4630
	38-39	60 Red	4660
	40-41	90 Red	4690
	42-43	15 Magenta	4715
	44-45	30 Magenta	4730
	46-47	60 Magenta	4760
	48-49	90 Magenta	4790
	50-51	15 Pink	4815
	52-53	30 Pink	4830
	54-55	60 Pink	4860
	56-57	90 Pink	4890
	58-59	15 Lavender	4915
60-61	30 Lavender	4930	
62-63	60 Lavender	4960	
64-65	90 Lavender	4990	
66-255	Reserved		

<b>GEL Category 3: Rosco – Storaro Selection</b>			
<b>Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Number</b>
<b>5</b>	0-1	VS Red	2001
	2-3	VS Orange	2002
	4-5	VS Yellow	2003
	6-7	VS Green	2004
	8-9	VS Cyan	2005
	10-11	VS Azure	2006
	12-13	VS Blue	2007
	14-15	VS Indigo	2008
	16-17	VS Violet	2009
	18-19	VS Magenta	2010
	20-255	Reserved	

<b>GEL Category 4: Rosco – Cinelux</b>			
<b>Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Number</b>
<b>5</b>	0-1	Bastard Amber	02
	2-3	Pale Bastard Amber	302
	4-5	No Color Straw	06
	6-7	Pale Gold	08
	8-9	Daffodil	310
	10-11	Straw	12
	12-13	Light Amber	16
	14-15	Gallo Gold	316
	16-17	Light Flame	17
	18-19	Flame	18
	20-21	Mayan Sun	318
	22-23	Golden Amber	21
	24-25	Soft Golden Amber	321
	26-27	Orange	23
	28-29	Henna Sky	325
	30-31	Light Red	26
	32-33	No Color Pink	33
	34-35	Blush Pink	333
	36-37	Flesh Pink	34
	38-39	Pale Rose Pink	37
40-41	Salmon	41	
42-43	Deep Salmon	42	
44-45	Middle Rose	44	

46-47	Light Rose Purple	47
48-49	Surprise Pink	51
50-51	No Color Blue	60
52-53	Clearwater	360
54-55	Booster Blue	62
56-57	Tipton Blue	362
58-59	Blue Bell	364
60-61	Daylight Blue	65
62-63	Tharon Delft Blue	365
64-65	Cerulean Blue	375
66-67	Bermuda Blue	376
68-69	Green Blue	77
70-71	Alice Blue	378
72-73	Primary Blue	80
74-75	Baldassari Blue	381
76-77	Medium Blue	83
78-79	Pale Yellow Green	87
80-81	Light Green	88
82-83	Moss Green	89
84-85	Primary Green	91
86-87	Turquoise	92
88-89	Blue Green	93
90-91	Chocolate	99
92-255	Reserved	

<b>GEL Category 1: LEE – Color Correction</b>			
<b>Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Number</b>
<b>5</b>	0-1	Double CTB	200
	2-3	Full CTB	201
	4-5	3/4 CTB	281
	6-7	1/2 CTB	202
	8-9	1/4 CTB	203
	10-11	1/8 CTB	218
	12-13	Double CTO	287
	14-15	Full CTO	204
	16-17	3/4 CTO	285
	18-19	1/2 CTO	205
	20-21	1/4 CTO	206
	22-23	1/8 CTO	223
	24-25	1 1/2 CTB	283

	26-27	1 1/2 CTO	286
	28-29	Full CTS	441
	30-31	1/2 CTS	442
	32-33	1/4 CTS	443
	34-35	1/8 CTS	444
	36-37	Full CTO + .3 ND	207
<b>5</b>	38-39	Full CTO + .6 ND	208
	40-41	L.C.T. Yellow (Y1)	212
	42-43	White Flame Green	213
	44-45	LEE Fluorescent Green	219
	46-47	Super Correction L.C.T. Yellow	230
	48-49	Super Correction W.F. Green	232
	50-51	H.M.I. (to Tungsten)	236
	52-53	C.I.D. (to Tungsten)	237
	54-55	C.S.I. (to Tungsten)	238
	56-57	LEE Fluorescent 5700 Kelvin	241
	58-59	LEE Fluorescent 4300 Kelvin	242
	60-61	LEE Fluorescent 3600 Kelvin	243
	62-63	LEE Plus Green	244
	64-65	1/2 Plus Green	245
	66-67	1/4 Plus Green	246
	68-69	1/8 Plus Green	278
	70-71	LEE Minus Green	247
	72-73	1/2 Minus Green	248
	74-75	1/4 Minus Green	249
	76-77	1/8 Minus Green	279
	78-255	Reserved	

<b>GEL Category 2: LEE – Color Filters</b>			
<b>Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Number</b>
<b>5</b>	2-3	Lavender Tint	003
	4-5	Medium Bastard Amber	004
	6-7	Pale Yellow	007
	8-9	Dark Salmon	008
	10-11	Pale Amber Gold	009
	12-13	Medium Yellow	010
	14-15	Straw Tint	013
	16-17	Surprise Peach	017
	18-19	Fire	019
	20-21	Medium Amber	020

	22-23	Gold Amber	021
	24-25	Dark Amber	022
	26-27	Scarlet	024
	28-29	Sunset Red	025
	30-31	Bright Red	026
	32-33	Light Pink	035
<b>5</b>	34-35	Medium Pink	036
	36-37	Dark Magenta	046
	38-39	Rose Purple	048
	40-41	Light Lavender	052
	42-43	Paler Lavender	053
	44-45	Lavender	058
	46-47	Mist Blue	061
	48-49	Pale Blue	063
	50-51	Sky Blue	068
	52-53	Evening Blue	075
	54-55	Just Blue	079
	56-57	Deeper Blue	085
	58-59	Lime Green	088
	60-61	Moss Green	089
	62-63	Dark Yellow Green	090
	64-65	Spring Yellow	100
	66-67	Yellow	101
	68-69	Light Amber	102
	70-71	Straw	103
	72-73	Deep Amber	104
	74-75	Primary Red	106
	76-77	Light Rose	107
	78-79	English Rose	108
	80-81	Light Salmon	109
	82-83	Middle Rose	110
	84-85	Dark Pink	111
	86-87	Magenta	113
	88-89	Peacock Blue	115
	90-91	Steel Blue	117
	92-93	Light Blue	118
	94-95	Deep Blue	120
	96-97	LEE Green	121
	98-99	Fern Green	122
100-101	Dark Green	124	

	102-103	Smokey Pink	127
	104-105	Bright Pink	128
	106-107	Marine Blue	131
	108-109	Golden Amber	134
	110-111	Deep Golden Amber	135
	112-113	Pale Lavender	136
<b>5</b>	114-115	Special Lavender	137
	116-117	Pale Green	138
	118-119	Summer Blue	140
	120-121	Pale Violet	142
	122-123	Pale Navy Blue	143
	124-125	No Color Blue	144
	126-127	Apricot	147
	128-129	Bright Rose	148
	130-131	Gold Tint	151
	132-133	Pale Gold	152
	134-135	Pale Salmon	153
	136-137	Pale Rose	154
	138-139	Chocolate	156
	140-141	Pink	157
	142-143	No Color Straw	159
	144-145	Slate Blue	161
	146-147	Bastard Amber	162
	148-149	Flame Red	164
	150-151	Daylight Blue	165
	152-153	Lilac Tint	169
	154-155	Deep Lavender	170
	156-157	Dark Steel Blue	174
	158-159	Loving Amber	176
	160-161	Dark Lavender	180
	162-163	Light Red	182
	164-165	Flesh Pink	192
	166-167	Surprise Pink	194
	168-169	Zenith Blue	195
	170-171	True Blue	196
	172-173	Alice Blue	197
	174-175	Palace Blue	198
	176-177	Regal Blue	199
	178-255	Reserved	

<b>GEL Category 3: LEE – 600 Series</b>			
<b>Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Number</b>
5	0-1	Arctic White	600
	2-3	Silver	601
	4-5	Platinum	602
	6-7	Moonlight White	603
	8-9	Full CT 85	604
	10-11	Industry Sodium	650
	12-13	HI Sodium	651
	14-15	Urban Sodium	652
	16-17	LO Sodium	653
	18-255	Reserved	

<b>GEL Category 4: LEE – Cosmetic Filters</b>			
<b>Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Number</b>
5	0-1	Cosmetic Peach	184
	2-3	Cosmetic Silver Rose	186
	4-5	Cosmetic Rouge	187
	6-7	Cosmetic Highlight	188
	8-9	Cosmetic Silver Moss	189
	10-11	Cosmetic Aqua Blue	191
	12-13	Lily Frost	705
	14-15	Shanklin Frost	717
	16-17	Half Shanklin Frost	718
	18-19	Durham Daylight Frost	720
	20-21	Hampshire Rose	749
	22-23	Durham Frost	750
	24-25	Soft Amber Key 1	774
	26-27	Soft Amber Key 2	775
	28-29	Moroccan Frost	791
	30-31	Blue Diffusion	217
	32-33	Blue Frost	221
	34-35	Daylight Blue Frost	224
36-255	Reserved		

<b>GEL Category 5: LEE – 700 Series</b>			
<b>Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Number</b>
	0-1	Perfect Lavender	700
	2-3	Provence	701



5	4-5	Special Pale Lavender	702
	6-7	Cold Lavender	703
	8-9	Lily	704
	10-11	King Fals Lavender	706
	12-13	Cool Lavender	708
	14-15	Electric Lilac	709
5	16-17	Spir Special Blue	710
	18-19	Cold Blue	711
	20-21	Bedford Blue	712
	22-23	Elysian Blue	714
	24-25	Cabana Blue	715
	26-27	Mikkel Blue	716
	28-29	Colour Wash Blue	719
	30-31	Berry Blue	721
	32-33	Virgin Blue	723
	34-35	Ocean Blue	724
	36-37	Old Steel Blue	725
	38-39	Steel Green	728
	40-41	Liberty Green	730
	42-43	Dirty Ice	731
	44-45	Damp Squib	733
	46-47	JAS Green	738
	48-49	Bram Brown	742
	50-51	Dirty White	744
	52-53	Brown	746
	54-55	Easy White	747
	56-57	Seedy Pink	748
	58-59	Wheat	763
	60-61	Sun Colour Straw	764
	62-63	LEE Yellow	765
	64-65	Cardbox Amber	773
	66-67	Nectarine	776
	68-69	Millenium Gold	778
	70-71	Bastard Pink	779
72-73	Terry Red	781	
74-75	Blood Red	789	
76-77	Moroccan Pink	790	
78-79	Pretty n'Pink	794	
80-81	Magical Magenta	795	
82-255	Reserved		

## Mode 7: x y 8-bit (4-9 channels)

Channel	Value	Percent	Function		
1	0 - 255	0 - 100	Intensity	0 - 100%	
2	0 - 255	0 - 100	x Coordinate	0 - 0.8	
3	0 - 255	0 - 100	y Coordinate	0 - 0.8	
4	0 - 19	0 - 7	Strobe	NO Effect	
	20 - 255	8 - 100		1Hz - 25Hz	
<b>Motorized Accessories (Defaults to ON)</b>					
5	0 - 19	0 - 7	Zoom	NO Effect	
	20 - 255	8 - 100		18° - 50°	
6	0 - 19	0 - 7	Pan	NO Effect	
	20 - 255	8 - 100		0° - 359°	
7	0 - 19	0 - 7	Tilt	NO Effect	
	20 - 255	8 - 100		-135° - 135°	
<b>Function Configuration (Defaults to ON)</b>					
8	5	0 - 63	0 - 25	Fan Mode	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
9	6	0 - 63	0 - 25	Dimming Curve	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 8: Source 8-bit (5-10 channels)

Channel	Value	Percent	Function	
<b>1</b>	0 - 255	0 - 100	<b>Intensity</b>	0 - 100%
<b>2</b>	0 - 2	0 - 1	<b>Source</b>	Tungsten Bulb
	3 - 5	2 - 3		Incandescent
	6 - 8	4 - 5		Halogen
	9 - 11	6 - 7		Antique Bulb
	12 - 14	8 - 9		Warm Antique Bulb
	15 - 17	10 - 11		Christmas Lights
	18 - 20	12 - 13		Night Light
	21 - 23	14 - 15		Infrared Heat Lamp
	24 - 26	16 - 17		Grow Light
	27 - 29	18 - 19		CFL Soft White
	30 - 32	20 - 21		CFL Bright White
	33 - 35	22 - 23		CFL Cool White
	36 - 38	24 - 25		CFL Daylight
	39 - 41	26 - 27		Cool White 1
	42 - 44	28 - 29		Cool White 2
	45 - 47	30 - 31		Cool White 3
	48 - 50	32 - 33		Warm White
	51 - 53	34 - 35		CFL Blacklight
	54 - 56	36 - 37		HMI
	57 - 59	38 - 39		High Pressure Sodium
	60 - 62	40 - 41		Low Pressure Sodium
	63 - 65	42 - 43		Mercury Vapor
	66 - 68	44 - 45		Metal Halide
	69 - 71	46 - 47		Ceramic
	72 - 74	48 - 49		Carbon Arc
	75 - 77	50 - 51	Xenon	
	78 - 80	52 - 53	Candle	
	81 - 83	54 - 55	Gas Fire	
	84 - 86	56 - 57	Sun Direct	
	87 - 89	58 - 59	Sun Overcast	
	90 - 92	60 - 61	Sun Blue Hour	
	93 - 95	62 - 63	Mobile Phone	
	96 - 98	64 - 65	Computer Monitor	
	99 - 101	66 - 67	Electroluminescence	
	102 - 104	68 - 69	Blow Torch	
	105 - 107	70 - 71	Road Flare	
	108 - 110	72 - 73	Amber Caution	
	111 - 113	74 - 75	Green Traffic Light	

<b>2</b>	114 - 116	76 - 77		Yellow Traffic Light	
	117 - 119	78 - 79		Red Traffic Light	
	120 - 122	80 - 81		Blue Glow Stick	
	123 - 125	82 - 83		Green Glow Stick	
	126 - 128	84 - 85		Red Glow Stick	
	129 - 131	86 - 87		Yellow Glow Stick	
	132 - 134	88 - 89		Pink Glow Stick	
	135 - 137	90 - 91		Violet Glow Stick	
	138 - 255	92 - 100		Reserved	
	<b>3</b>	0 - 127		0 - 50	<b>x Coordinate</b>
128 - 255		51 - 100	0.0000 - -0.0050		
<b>4</b>	0 - 127	0 - 50	<b>y Coordinate</b>	0.0000 - +0.0050	
	128 - 255	51 - 100		0.0000 - -0.0050	
<b>5</b>	0 - 19	0 - 7	<b>Strobe</b>	NO Effect	
	20 - 255	8 - 100		1Hz - 25Hz	
<b>Motorized Accessories (Defaults to ON)</b>					
<b>6</b>	0 - 19	0 - 7	<b>Zoom</b>	NO Effect	
	20 - 255	8 - 100		18° - 50°	
<b>7</b>	0 - 19	0 - 7	<b>Pan</b>	NO Effect	
	20 - 255	8 - 100		0° - 359°	
<b>8</b>	0 - 19	0 - 7	<b>Tilt</b>	NO Effect	
	20 - 255	8 - 100		-135° - 135°	
<b>Function Configuration (Defaults to ON)</b>					
<b>9</b>	<b>6</b>	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
<b>10</b>	<b>7</b>	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 9: FX 8-bit (10-15 channels)

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	<b>Intensity</b>	0 - 100%
2	0 - 9	0 - 4	<b>Lightning</b>	Loop
	10 - 69	5 - 27		Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27	<b>Explosion</b>	Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27		<b>Other Effects</b>
70 - 255	28 - 100	Stop		
3	0 - 9	0 - 4	<b>Effect Selection</b>	
	10 - 19	5 - 8		Paparazzi
	20 - 29	9 - 12		Lightning
	30 - 39	13 - 16		TV
	40 - 49	17 - 20		Candle
	50 - 59	21 - 24		Fire
	60 - 69	25 - 28		Strobe
	70 - 79	29 - 32		Explosion
	80 - 89	33 - 36		Faulty Bulb
	90 - 99	37 - 40		Pulsing
	100 - 109	41 - 44		Welding
	110 - 119	45 - 48		Cop Car
	120 - 129	49 - 52		Color Chase
	130 - 139	53 - 56		Party Lights
	140 - 149	57 - 60		Fireworks
150 - 255	61 - 100	Reserved		
4 - X	See FX Parameter Tables in Following Pages			
<b>Motorized Accessories (Defaults to ON)</b>				
varies	0 - 19	0 - 7	<b>Zoom</b>	NO Effect
	20 - 255	8 - 100		18° - 50°
varies	0 - 19	0 - 7	<b>Pan</b>	NO Effect
	20 - 255	8 - 100		0° - 359°
varies	0 - 19	0 - 7	<b>Tilt</b>	NO Effect
	20 - 255	8 - 100		-135° - 135°
<b>Function Configuration (Defaults to ON)</b>				
varies	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent

<b>varies</b>	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

<b>FX Parameter: Club Lights</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 9	0 - 4	<b>No. of Colors</b>	3
	10 - 19	5 - 8		6
	20 - 29	9 - 12		9
	30 - 39	13 - 16		12
	40 - 49	17 - 20		15
	50 - 59	21 - 24		18
	60 - 69	25 - 28		24
	70 - 79	29 - 32		36
	80 - 255	33 - 100		Reserved
<b>5</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

FX Parameter: Paparazzi				
Channel	Value	Percent	Function	
4	0 - 255	0 - 100	CCT	2000K - 10000K
5	0 - 10	0 - 4	Green / Magenta	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		-99% - -1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
6	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

FX Parameter: Lightning				
Channel	Value	Percent	Function	
4	0 - 255	0 - 100	CCT	2000K - 10000K
5	0 - 10	0 - 4	Green / Magenta	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		-99% - -1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
6	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
110 - 255	45 - 100	Reserved		

7	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved

FX Parameter: TV				
Channel	Value	Percent	Function	
4	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Natural
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 100		Reserved
5	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved

FX Parameter: Candle				
Channel	Value	Percent	Function	
4	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Natural
	20 - 29	9 - 12		Cooler
	30 - 255	12 - 100		Reserved
5	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4



<b>5</b>	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

<b>FX Parameter: Fire</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 9	0 - 4	<b>CCT Range</b>	Warmer
	10 - 19	5 - 8		Natural
	20 - 29	9 - 12		Cooler
	30 - 255	12 - 100		Reserved
<b>5</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
100 - 255	41 - 100	Reserved		

<b>FX Parameter: Strobe</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 9	0 - 4	<b>Mode Select</b>	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
<b>CCT</b>				
<b>5</b>	0 - 255	0 - 100	<b>CCT</b>	2000K - 10000K
<b>6</b>	0 - 10	0 - 4	<b>Green / Magenta</b>	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		-99% - -1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%

<b>6</b>	245 - 255	97 - 100		Full Plus Green
<b>7</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
110 - 255	45 - 100	Reserved		
HSI				
<b>5</b>	0 - 255	0 - 100	<b>HUE</b>	1° - 360°
<b>6</b>	0 - 255	0 - 100	<b>Saturation</b>	0 - 100%
<b>7</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random
GEL				
<b>5</b>	0 - 255	0 - 100	<b>CCT</b>	Refer to Mode: GEL
<b>6</b>	0 - 255	0 - 100	<b>Rosco / LEE</b>	Refer to Mode: GEL
<b>7</b>	0 - 255	0 - 100	<b>Series</b>	Refer to Mode: GEL
<b>8</b>	0 - 255	0 - 100	<b>Category</b>	Refer to Mode: GEL
<b>9</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random
XY				
<b>5</b>	0 - 255	0 - 100	<b>X coordinate</b>	0 - 0.8
<b>6</b>	0 - 255	0 - 100	<b>Y coordinate</b>	0 - 0.8
<b>7</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random
Source				
<b>5</b>	0 - 255	0 - 100	<b>Source</b>	Refer to Mode: Source
<b>6</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random
RGB				
<b>5</b>	0 - 255	0 - 100	<b>Red</b>	0 - 100%
<b>6</b>	0 - 255	0 - 100	<b>Green</b>	0 - 100%
<b>7</b>	0 - 255	0 - 100	<b>Blue</b>	0 - 100%
<b>8</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random

FX Parameter: Explosion				
Channel	Value	Percent	Function	
4	0 - 9	0 - 4	Mode Select	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
CCT				
5	0 - 255	0 - 100	CCT	2000K - 10000K
6	0 - 10	0 - 4	Green / Magenta	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		-99% - -1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
7	0 - 9	0 - 4	Decay	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
		100 - 255		41 - 100
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Decay	1 - 10
GEL				
5	0 - 255	0 - 100	CCT	Refer to Mode: GEL
6	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
7	0 - 255	0 - 100	Series	Refer to Mode: GEL
8	0 - 255	0 - 100	Category	Refer to Mode: GEL
9	0 - 255	0 - 100	Decay	1 - 10
XY				
5	0 - 255	0 - 100	X coordinate	0 - 0.8
6	0 - 255	0 - 100	Y coordinate	0 - 0.8
7	0 - 255	0 - 100	Decay	1 - 10
Source				

<b>5</b>	0 - 255	0 - 100	<b>Source</b>	Refer to Mode: Source
<b>6</b>	0 - 255	0 - 100	<b>Decay</b>	1 - 10
<b>RGB</b>				
<b>5</b>	0 - 255	0 - 100	<b>Red</b>	0 - 100%
<b>6</b>	0 - 255	0 - 100	<b>Green</b>	0 - 100%
<b>7</b>	0 - 255	0 - 100	<b>Blue</b>	0 - 100%
<b>8</b>	0 - 255	0 - 100	<b>Decay</b>	1 - 10

<b>FX Parameter: Faulty Bulb</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 9	0 - 4	<b>Mode Select</b>	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
<b>CCT</b>				
<b>5</b>	0 - 255	0 - 100	<b>CCT</b>	2000K - 10000K
<b>6</b>	0 - 10	0 - 4	<b>Green / Magenta</b>	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		-99% - -1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
<b>7</b>	0 - 9	0 - 4	<b>Frequency</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
<b>8</b>	0 - 9	0 - 4		1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5

<b>8</b>	50 - 59	21 - 24	<b>Speed</b>	6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
<b>HSI</b>				
<b>5</b>	0 - 255	0 - 100	<b>HUE</b>	1° - 360°
<b>6</b>	0 - 255	0 - 100	<b>Saturation</b>	0 - 100%
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>GEL</b>				
<b>5</b>	0 - 255	0 - 100	<b>CCT</b>	Refer to Mode: GEL
<b>6</b>	0 - 255	0 - 100	<b>Rosco / LEE</b>	Refer to Mode: GEL
<b>7</b>	0 - 255	0 - 100	<b>Series</b>	Refer to Mode: GEL
<b>8</b>	0 - 255	0 - 100	<b>Category</b>	Refer to Mode: GEL
<b>9</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>10</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>XY</b>				
<b>5</b>	0 - 255	0 - 100	<b>X coordinate</b>	0 - 0.8
<b>6</b>	0 - 255	0 - 100	<b>Y coordinate</b>	0 - 0.8
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>Source</b>				
<b>5</b>			<b>Source</b>	Refer to Mode: Source
<b>6</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>7</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>RGB</b>				
<b>5</b>	0 - 255	0 - 100	<b>Red</b>	0 - 100%
<b>6</b>	0 - 255	0 - 100	<b>Green</b>	0 - 100%
<b>7</b>	0 - 255	0 - 100	<b>Blue</b>	0 - 100%
<b>8</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>9</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10

<b>FX Parameter: Pulsing</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 9	0 - 4	<b>Mode Select</b>	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source

<b>4</b>	50 - 59 60 - 255	21 - 24 25 - 100		RGB Reserved
<b>CCT</b>				
<b>5</b>	0 - 255	0 - 100	<b>CCT</b>	2000K - 10000K
<b>6</b>	0 - 10	0 - 4	<b>Green / Magenta</b>	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		-99% - -1%
	120 - 145 146 - 244 245 - 255	48 - 57 58 - 96 97 - 100		Neutral / No Effect 1% - 99% Full Plus Green
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>HSI</b>				
<b>5</b>	0 - 255	0 - 100	<b>HUE</b>	1° - 360°
<b>6</b>	0 - 255	0 - 100	<b>Saturation</b>	0 - 100%
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>GEL</b>				
<b>5</b>	0 - 255	0 - 100	<b>CCT</b>	Refer to Mode: GEL
<b>6</b>	0 - 255	0 - 100	<b>Rosco / LEE</b>	Refer to Mode: GEL
<b>7</b>	0 - 255	0 - 100	<b>Series</b>	Refer to Mode: GEL
<b>8</b>	0 - 255	0 - 100	<b>Category</b>	Refer to Mode: GEL
<b>9</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>10</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>x y</b>				
<b>5</b>	0 - 255	0 - 100	<b>x coordinate</b>	0 - 0.8
<b>6</b>	0 - 255	0 - 100	<b>y coordinate</b>	0 - 0.8
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>Source</b>				
<b>5</b>	0 - 255	0 - 100	<b>Source</b>	Refer to Mode: Source
<b>6</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>7</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>RGB</b>				
<b>5</b>	0 - 255	0 - 100	<b>Red</b>	0 - 100%
<b>6</b>	0 - 255	0 - 100	<b>Green</b>	0 - 100%
<b>7</b>	0 - 255	0 - 100	<b>Blue</b>	0 - 100%
<b>8</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>9</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10

<b>FX Parameter: Welding</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 9	0 - 4	<b>Mode Select</b>	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
CCT				
<b>5</b>	0 - 255	0 - 100	<b>CCT</b>	2000K - 10000K
<b>6</b>	0 - 10	0 - 4	<b>Green / Magenta</b>	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		-99% - -1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
HSI				
<b>5</b>	0 - 255	0 - 100	<b>HUE</b>	1° - 360°
<b>6</b>	0 - 255	0 - 100	<b>Saturation</b>	0 - 100%
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
GEL				
<b>5</b>	0 - 255	0 - 100	<b>CCT</b>	Refer to Mode: GEL
<b>6</b>	0 - 255	0 - 100	<b>Rosco / LEE</b>	Refer to Mode: GEL
<b>7</b>	0 - 255	0 - 100	<b>Series</b>	Refer to Mode: GEL
<b>8</b>	0 - 255	0 - 100	<b>Category</b>	Refer to Mode: GEL
<b>9</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>10</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
XY				
<b>5</b>	0 - 255	0 - 100	<b>X coordinate</b>	0 - 0.8
<b>6</b>	0 - 255	0 - 100	<b>Y coordinate</b>	0 - 0.8
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
Source				
<b>5</b>	0 - 255	0 - 100	<b>Source</b>	Refer to Mode: Source

<b>6</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>7</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
<b>RGB</b>				
<b>5</b>	0 - 255	0 - 100	<b>Red</b>	0 - 100%
<b>6</b>	0 - 255	0 - 100	<b>Green</b>	0 - 100%
<b>7</b>	0 - 255	0 - 100	<b>Blue</b>	0 - 100%
<b>8</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>9</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%

<b>FX Parameter: Cop Car</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 9	0 - 4	<b>Color Combinations</b>	Red
	10 - 19	5 - 8		Blue
	20 - 29	9 - 12		Red+Blue
	30 - 39	13 - 16		Blue+White
	40 - 49	17 - 20		Red+Blue+White
	50 - 255	21 - 100		Reserved
<b>5</b>	0 - 9	0 - 4	<b>Frequency</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

<b>FX Parameter: Color Chase</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 255	0 - 100	<b>Saturation</b>	0 - 100%
<b>5</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8



<b>5</b>	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

<b>FX Parameter: Party Lights</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 255	0 - 100	<b>Saturation</b>	0 - 100%
<b>5</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

<b>FX Parameter: Fireworks</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>4</b>	0 - 9	0 - 4	<b>Color Combinations</b>	CCT
	10 - 19	5 - 8		HUE
	20 - 29	9 - 12		CCT+HUE
	30 - 255	13 - 100		Reserved
<b>5</b>	0 - 9	0 - 4	<b>Frequency</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
110 - 255	45 - 100	Reserved		

## Mode 10: WWRGB 8-bit (6-11 channels)

Channel	Value	Percent	Function		
1	0 - 255	0 - 100	<b>Warm White</b>	0 - 100%	
2	0 - 255	0 - 100	<b>Cool White</b>	0 - 100%	
3	0 - 255	0 - 100	<b>Red</b>	0 - 100%	
4	0 - 255	0 - 100	<b>Green</b>	0 - 100%	
5	0 - 255	0 - 100	<b>Blue</b>	0 - 100%	
6	0 - 19	0 - 7	<b>Strobe</b>	NO Effect	
	20 - 255	8 - 100		1Hz - 25Hz	
<b>Motorized Accessories (Defaults to ON)</b>					
7	0 - 19	0 - 7	<b>Zoom</b>	NO Effect	
	20 - 255	8 - 100		18° - 50°	
8	0 - 19	0 - 7	<b>Pan</b>	NO Effect	
	20 - 255	8 - 100		0° - 359°	
9	0 - 19	0 - 7	<b>Tilt</b>	NO Effect	
	20 - 255	8 - 100		-135° - 135°	
<b>Function Configuration (Defaults to ON)</b>					
<b>10</b>	<b>7</b>	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
<b>11</b>	<b>8</b>	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 11: Ultimate 8-bit ( channels)

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	<b>Intensity</b>	0 - 100%
2	0 - 9	0 - 4	<b>Lighting Mode Selection</b>	CCT & RGB
	10 - 19	5 - 8		CCT
	20 - 29	9 - 12		CCT & HSI
	30 - 39	13 - 16		RGB
	40 - 49	17 - 20		HSI
	50 - 59	21 - 24		Gel
	60 - 69	25 - 28		X Y
	70 - 79	29 - 32		Source
	80 - 89	33 - 36		FX
	90-99	37-40		WWRGB
	100 - 255	41 - 100		Reserved
	See Lighting Mode Parameter Tables Above			

## Mode 12: CCT & RGB 16-bit (15-23 channels)

Channel		Value	Percent	Function	
1 - 2		0 - 65535	0 - 100	<b>Intensity</b>	0 - 100%
3 - 4		0 - 65535	0 - 100	<b>CCT</b>	2000K- 10000K
5 - 6		0 - 4587	0 - 7	<b>Green / Magenta</b>	Neutral / No Effect
		4588 - 9830	8 - 15		Full Minus Green
		9831 - 30145	16 - 46		-99% - -1%
		30146 - 39976	47 - 61		Neutral / No Effect
		39977 - 60292	62 - 92		1% - 99%
		60293 - 65535	93 - 100		Full Plus Green
7 - 8		0 - 65535	0 - 100	<b>CCT ↔RGB</b>	Crossfade to Color
9 - 10		0 - 65535	0 - 100	<b>Red</b>	0 - 100%
11 - 12		0 - 65535	0 - 100	<b>Green</b>	0 - 100%
13 - 14		0 - 65535	0 - 100	<b>Blue</b>	0 - 100%
15		0 - 19	0 - 7	<b>Strobe</b>	NO Effect
		20 - 255	8 - 100		1Hz - 25Hz
<b>Motorized Accessories (Defaults to ON)</b>					
16 - 17		0 - 4587	0 - 7	<b>Zoom</b>	NO Effect
		4588 - 65535	8 - 100		18° - 50°
18 - 19		0 - 4587	0 - 7	<b>Pan</b>	NO Effect
		4588 - 65535	8 - 100		0° - 359°
20 - 21		0 - 4587	0 - 7	<b>Tilt</b>	NO Effect
		4588 - 65535	8 - 100		-135° - 135°
<b>Function Configuration (Defaults to ON)</b>					
22	16	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
23	17	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 13: CCT 16-bit (7-15 channels)

Channel		Value	Percent	Function	
1 - 2		0 - 65535	0 - 100	<b>Intensity</b>	0 - 100%
3 - 4		0 - 65535	0 - 100	<b>CCT</b>	2000K- 10000K
5 - 6		0 - 4587	0 - 7	<b>Green / Magenta</b>	Neutral / No Effect
		4588 - 9830	8 - 15		Full Minus Green
		9831 - 30145	16 - 46		-99% - -1%
		30146 - 39976	47 - 61		Neutral / No Effect
		39977 - 60292	62 - 92		1% - 99%
7		0 - 19 20 - 255	0 - 7 8 - 100	<b>Strobe</b>	NO Effect 1Hz - 25Hz
<b>Motorized Accessories (Defaults to ON)</b>					
8 - 9		0 - 4587 4588 - 65535	0 - 7 8 - 100	<b>Zoom</b>	NO Effect 18° - 50°
10 - 11		0 - 4587 4588 - 65535	0 - 7 8 - 100	<b>Pan</b>	NO Effect 0° - 359°
12 - 13		0 - 4587 4588 - 65535	0 - 7 8 - 100	<b>Tilt</b>	NO Effect -135° - 135°
<b>Function Configuration (Defaults to ON)</b>					
14	8	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
15	9	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 14: CCT & HSI 16-bit (15-23 channels)

Channel		Value	Percent	Function	
1 - 2		0 - 65535	0 - 100	Intensity	0 - 100%
3 - 4		0 - 65535	0 - 100	CCT	2000K- 10000K
5 - 6		0 - 4587	0 - 7	Green / Magenta	Neutral / No Effect
		4588 - 9830	8 - 15		Full Minus Green
		9831 - 30145	16 - 46		-99% - -1%
		30146 - 39976	47 - 61		Neutral / No Effect
		39977 - 60292	62 - 92		1% - 99%
60293 - 65535		93 - 100	Full Plus Green		
7 - 8		0 - 65535	0 - 100	CCT ↔ HSI	Crossfade to Color
9 - 10		0 - 65535	0 - 100	Hue	0.1 - 360°
11 - 12		0 - 65535	0 - 100	Saturation	0 - 100%
13-14		0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000 K
15		0 - 19	0 - 7	Strobe	NO Effect
		20 - 255	8 - 100		1Hz - 25Hz
<b>Motorized Accessories (Defaults to ON)</b>					
16 - 17		0 - 4587	0 - 7	Zoom	NO Effect
		4588 - 65535	8 - 100		18° - 50°
18 - 19		0 - 4587	0 - 7	Pan	NO Effect
		4588 - 65535	8 - 100		0° - 359°
20 - 21		0 - 4587	0 - 7	Tilt	NO Effect
		4588 - 65535	8 - 100		-135° - 135°
<b>Function Configuration (Defaults to ON)</b>					
22	16	0 - 63	0 - 25	Fan Mode	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
23	17	0 - 63	0 - 25	Dimming Curve	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 15: RGB 16-bit (9-17 channels)

Channel	Value	Percent	Function	
1 - 2	0 - 65535	0 - 100	Intensity	0 - 100%
3 - 4	0 - 65535	0 - 100	Red	0 - 100%
5 - 6	0 - 65535	0 - 100	Green	0 - 100%
7 - 8	0 - 65535	0 - 100	Blue	0 - 100%
9	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz

Motorized Accessories (Defaults to ON)					
10 - 11	0 - 4587		0 - 7	Zoom	NO Effect 18° - 50°
	4588 - 65535		8 - 100		
12 - 13	0 - 4587		0 - 7	Pan	NO Effect 0° - 359°
	4588 - 65535		8 - 100		
14 - 15	0 - 4587		0 - 7	Tilt	NO Effect -135° - 135°
	4588 - 65535		8 - 100		
Function Configuration (Defaults to ON)					
16	10	0 - 63	0 - 25	Fan Mode	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
17	11	0 - 63	0 - 25	Dimming Curve	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 16: Adv.HSI 16-bit (9-17 channels)

Channel	Value	Percent	Function	
1 - 2	0 - 65535	0 - 100	Intensity	0 - 100%
3 - 4	0 - 65535	0 - 100	Hue	0.1° - 360°
5 - 6	0 - 65535	0 - 100	Saturation	0 - 100%
7 - 8	0 - 2295 2296 - 65536	0 - 4 5 - 100	HSI Base CCT	6500 K 2000K- 10000K
9	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	NO Effect 1Hz - 25Hz

Motorized Accessories (Defaults to ON)				
10 - 11	0 - 4587 4588 - 65535	0 - 7 8 - 100	Zoom	NO Effect 18° - 50°
12 - 13	0 - 4587 4588 - 65535	0 - 7 8 - 100	Pan	NO Effect 0° - 359°
14 - 15	0 - 4587 4588 - 65535	0 - 7 8 - 100	Tilt	NO Effect -135° - 135°
Function Configuration (Defaults to ON)				
16	10	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Fan Mode Smart High Medium Silent
17	11	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Dimming Curve Linear S - curve Exp Log

**Motorized Accessories ON**

**Motorized Accessories OFF**



## Mode 17: Gel 16-bit (7-15 channels)

Channel	Value	Percent	Function	
1-2	0 - 65535	0 - 100	Intensity	0 - 100%
3	0 - 127	0 - 50	CCT	3200K
	128 - 255	51 - 100		5600K
4	0 - 29	0 - 12	Rosco / Lee	Rosco
	30 - 59	13 - 24		Lee
	60 - 255	25 - 100		Reserved
5	0 - 9	0 - 4	Series	R-Col.corr / L-Col.corr
	10 - 19	5 - 8		R-Cal color / L-Cal.Filter
	20 - 29	9 - 12		R-Storaro / L-600 Series
	30 - 39	13 - 16		R-Cinelux / L-Cosmetic
	40 - 49	17 - 20		R-reserved / L-700 Series
	50 - 255	21 - 100		Reserved
6	0 - 255	0 - 100	Category	See GEL Category Tables Mode 6: Gel
7	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz

Motorized Accessories (Defaults to ON)					
8 - 9	0 - 4587	0 - 7	Zoom	NO Effect	
	4588 - 65535	8 - 100		18° - 50°	
10 - 11	0 - 4587	0 - 7	Pan	NO Effect	
	4588 - 65535	8 - 100		0° - 359°	
12 - 13	0 - 4587	0 - 7	Tilt	NO Effect	
	4588 - 65535	8 - 100		-135° - 135°	
Function Configuration (Defaults to ON)					
14	8	0 - 63	0 - 25	Fan Mode	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
15	9	0 - 63	0 - 25	Dimming Curve	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 18: x y 16-bit (7-15 channels)

Channel	Value	Percent	Function	
1 - 2	0 - 65535	0 - 100	Intensity	0 - 100%
3 - 4	0 - 65535	0 - 100	x Coordinate	0 - 0.8
5 - 6	0 - 65535	0 - 100	y Coordinate	0 - 0.8
7	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz

Motorized Accessories (Defaults to ON)				
8 - 9	0 - 4587 4588 - 65535	0 - 7 8 - 100	Zoom	NO Effect 18° - 50°
10 - 11	0 - 4587 4588 - 65535	0 - 7 8 - 100	Pan	NO Effect 0° - 359°
12 - 13	0 - 4587 4588 - 65535	0 - 7 8 - 100	Tilt	NO Effect -135° - 135°
Function Configuration (Defaults to ON)				
14	8	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Fan Mode Smart High Medium Silent
15	9	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Dimming Curve Linear S - curve Exp Log

**Motorized Accessories ON**    **Motorized Accessories OFF**

## Mode 19: Source 16-bit (6-14 channels)

Channel	Value	Percent	Function	
1-2	0 - 65535	0 - 100	<b>Intensity</b>	0 - 100%
3	0 - 2	0 - 1	<b>Source</b>	Tungsten Bulb
	3 - 5	2 - 3		Incandescent
	6 - 8	4 - 5		Halogen
	9 - 11	6 - 7		Antique Bulb
	12 - 14	8 - 9		Warm Antique Bulb
	15 - 17	10 - 11		Christmas Lights
	18 - 20	12 - 13		Night Light
	21 - 23	14 - 15		Infrared Heat Lamp
	24 - 26	16 - 17		Grow Light
	27 - 29	18 - 19		CFL Soft White
	30 - 32	20 - 21		CFL Bright White
	33 - 35	22 - 23		CFL Cool White
	36 - 38	24 - 25		CFL Daylight
	39 - 41	26 - 27		Cool White 1
	42 - 44	28 - 29		Cool White 2
	45 - 47	30 - 31		Cool White 3
	48 - 50	32 - 33		Warm White
	51 - 53	34 - 35		CFL Blacklight
	54 - 56	36 - 37		HMI
	57 - 59	38 - 39		High Pressure Sodium
	60 - 62	40 - 41		Low Pressure Sodium
	63 - 65	42 - 43		Mercury Vapor
	66 - 68	44 - 45		Metal Halide
	69 - 71	46 - 47		Ceramic
	72 - 74	48 - 49		Carbon Arc
	75 - 77	50 - 51		Xenon
	78 - 80	52 - 53		Candle
	81 - 83	54 - 55		Gas Fire
	84 - 86	56 - 57		Sun Direct
	87 - 89	58 - 59		Sun Overcast
	90 - 92	60 - 61		Sun Blue Hour
93 - 95	62 - 63	Mobile Phone		
96 - 98	64 - 65	Computer Monitor		
99 - 101	66 - 67	Electroluminescence		
102 - 104	68 - 69	Blow Torch		
105 - 107	70 - 71	Road Flare		

	108 - 110	72 - 73		Amber Caution
	111 - 113	74 - 75		Green Traffic Light
	114 - 116	76 - 77		Yellow Traffic Light
	117 - 119	78 - 79		Red Traffic Light
	120 - 122	80 - 81		Blue Glow Stick
	123 - 125	82 - 83		Green Glow Stick
	126 - 128	84 - 85		Red Glow Stick
	129 - 131	86 - 87		Yellow Glow Stick
	132 - 134	88 - 89		Pink Glow Stick
	135 - 137	90 - 91		Violet Glow Stick
	138 - 255	92 - 100		Reserved
<b>4</b>	0 - 127	0 - 50	<b>x Coordinate</b>	0.0000 - +0.0050
	128 - 255	51 - 100		0.0000 - -0.0050
<b>5</b>	0 - 127	0 - 50	<b>y Coordinate</b>	0.0000 - +0.0050
	128 - 255	51 - 100		0.0000 - -0.0050
<b>6</b>	0 - 19	0 - 7	<b>Strobe</b>	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz

Motorized Accessories (Defaults to ON)					
<b>7 - 8</b>	0 - 4587	0 - 7	<b>Zoom</b>	NO Effect	
	4588 - 65535	8 - 100		18° - 50°	
<b>9 - 10</b>	0 - 4587	0 - 7	<b>Pan</b>	NO Effect	
	4588 - 65535	8 - 100		0° - 359°	
<b>11 - 12</b>	0 - 4587	0 - 7	<b>Tilt</b>	NO Effect	
	4588 - 65535	8 - 100		-135° - 135°	
Function Configuration (Defaults to ON)					
<b>13</b>	<b>7</b>	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
		64 - 127	26 - 50		High
		128 - 191	51 - 75		Medium
		192 - 255	76 - 100		Silent
<b>14</b>	<b>8</b>	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
		64 - 127	26 - 50		S - curve
		128 - 191	51 - 75		Exp
		192 - 255	76 - 100		Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 20: FX 16-bit (13-21 channels)

Channel	Value	Percent	Function	
<b>1-2</b>	0 - 65535	0 - 100	<b>Intensity</b>	0 - 100%
<b>3</b>	0 - 9	0 - 4	<b>Lightning</b>	Loop
	10 - 69	5 - 27		Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27	<b>Explosion</b>	Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27	<b>Other Effects</b>	Loop
	70 - 255	28 - 100		Stop
<b>4</b>	0 - 9	0 - 4	<b>Effect Selection</b>	Club Lights
	10 - 19	5 - 8		Paparazzi
	20 - 29	9 - 12		Lightning
	30 - 39	13 - 16		TV
	40 - 49	17 - 20		Candle
	50 - 59	21 - 24		Fire
	60 - 69	25 - 28		Strobe
	70 - 79	29 - 32		Explosion
	80 - 89	33 - 36		Faulty Bulb
	90 - 99	37 - 40		Pulsing
	100 - 109	41 - 44		Welding
	110 - 119	45 - 48		Cop Car
	120 - 129	49 - 52		Color Chase
	130 - 139	53 - 56		Party Lights
	140 - 149	57 - 60		Fireworks
	150 - 255	61 - 100		Reserved
<b>5- X</b>	See FX Parameter Tables in Following Pages			
<b>Motorized Accessories (Defaults to ON)</b>				
<b>NA</b>	0 - 19	0 - 7	<b>Zoom</b>	NO Effect
	20 - 255	8 - 100		18° - 50°
<b>NA</b>	0 - 255	0 - 100		0° - 1.5°
<b>NA</b>	0 - 19	0 - 7	<b>Pan</b>	NO Effect
	20 - 255	8 - 100		0° - 359°
<b>NA</b>	0 - 255	0 - 100		0° - 3°
<b>NA</b>	0 - 19	0 - 7	<b>Tilt</b>	NO Effect
	20 - 255	8 - 100		-135° - 135°

<b>NA</b>	0 - 255	0 - 100		0° - 3°
<b>Function Configuration (Defaults to ON)</b>				
<b>NA</b>	0 - 63	0 - 25	<b>Fan Mode</b>	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
<b>NA</b>	0 - 63	0 - 25	<b>Dimming Curve</b>	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

FX Parameter:Club Lights				
Channel	Value	Percent	Function	
<b>5</b>	0 - 9	0 - 4	<b>No. of Colors</b>	3
	10 - 19	5 - 8		6
	20 - 29	9 - 12		9
	30 - 39	13 - 16		12
	40 - 49	17 - 20		15
	50 - 59	21 - 24		18
	60 - 69	25 - 28		24
	70 - 79	29 - 32		36
	80 - 255	33 - 100		Reserved
<b>6</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		

FX Parameter:Paparazzi				
Channel	Value	Percent	Function	
<b>5 - 6</b>	0 - 65535	0 - 100	<b>CCT</b>	2000K - 10000K
	0 - 4587	0 - 7		Neutral / No Effect
	4588 - 9830	8 - 15		Full Minus Green

<b>7 - 8</b>	9831 - 30145	16 - 46	<b>Green / Magenta</b>	-99% - -1%
	30146 - 39976	47 - 61		Neutral / No Effect
	39977 - 60292	62 - 92		1% - 99%
	60293 - 65535	93 - 100		Full Plus Green
<b>9</b>	0 - 9	0 - 4	<b>Frequency</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

<b>FX Parameter:Lightning</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>5 - 6</b>	0 - 65535	0 - 100	<b>CCT</b>	2000K - 10000K
<b>7 - 8</b>	0 - 4587	0 - 7	<b>Green / Magenta</b>	Neutral / No Effect
	4588 - 9830	8 - 15		Full Minus Green
	9831 - 30145	16 - 46		-99% - -1%
	30146 - 39976	47 - 61		Neutral / No Effect
	39977 - 60292	62 - 92		1% - 99%
	60293 - 65535	93 - 100		Full Plus Green
<b>9</b>	0 - 9	0 - 4	<b>Frequency</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10

	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
<b>10</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved

<b>FX Parameter:TV</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>5</b>	0 - 9	0 - 4	<b>CCT Range</b>	Warmer
	10 - 19	5 - 8		Neutral
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 100		Reserved
<b>6</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved

<b>FX Parameter:Candle</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>5</b>	0 - 9	0 - 4	<b>CCT Range</b>	Warmer
	10 - 19	5 - 8		Neutral
	20 - 29	9 - 12		Cooler
	30 - 255	12 - 100		Reserved



<b>6</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

<b>FX Parameter:Fire</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>5</b>	0 - 9	0 - 4	<b>CCT Range</b>	Warmer
	10 - 19	5 - 8		Neutral
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 100		Reserved
<b>6</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

<b>FX Parameter:Strobe</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>5</b>	0 - 9	0 - 4	<b>Mode Select</b>	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
	CCT			

<b>6 - 7</b>	0 - 65535	0 - 100	<b>CCT</b>	2000K - 10000K
<b>8 - 9</b>	0 - 4587	0 - 7	<b>Green / Magenta</b>	Neutral / No Effect
	4588 - 9830	8 - 15		Full Minus Green
	9831 - 30145	16 - 46		-99% - -1%
	30146 - 39976	47 - 61		Neutral / No Effect
	39977 - 60292	62 - 92		1% - 99%
	60293 - 65535	93 - 100		Full Plus Green
<b>10</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
HSI				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>HUE</b>	1° - 360°
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Saturation</b>	0 - 100%
<b>10</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random
GEL				
<b>6</b>	0 - 255	0 - 100	<b>CCT</b>	Refer to Mode: GEL
<b>7</b>	0 - 255	0 - 100	<b>Rosco / LEE</b>	Refer to Mode: GEL
<b>8</b>	0 - 255	0 - 100	<b>Series</b>	Refer to Mode: GEL
<b>9</b>	0 - 255	0 - 100	<b>Category</b>	Refer to Mode: GEL
<b>10</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random
x y				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>x coordinate</b>	0 - 0.8
<b>8 - 9</b>	0 - 65535	0 - 100	<b>y coordinate</b>	0 - 0.8
<b>10</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random
Source				
<b>6</b>	0 - 255	0 - 100	<b>Source Matchin g</b>	Refer to Mode: Source
<b>7</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random
RGB				

<b>6 - 7</b>	0 - 65535	0 - 100	<b>Red</b>	0 - 100%
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Green</b>	0 - 100%
<b>10 - 11</b>	0 - 65535	0 - 100	<b>Blue</b>	0 - 100%
<b>12</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10 - Random

<b>FX Parameter:Explosion</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>5</b>	0 - 9	0 - 4	<b>Mode Select</b>	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
CCT				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>CCT</b>	2000K - 10000K
<b>8 - 9</b>	0 - 4587	0 - 7	<b>Green / Magenta</b>	Neutral / No Effect
	4588 - 9830	8 - 15		Full Minus Green
	9831 - 30145	16 - 46		-99% - -1%
	30146 - 39976	47 - 61		Neutral / No Effect
	39977 - 60292	62 - 92		1% - 99%
	60293 - 65535	93 - 100		Full Plus Green
<b>10</b>	0 - 9	0 - 4	<b>Decay</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
		60 - 69		25 - 28
70 - 79		29 - 32	8	
80 - 89		33 - 36	9	
90 - 99		37 - 40	10	
100 - 255		41 - 100	Reserved	
HSI				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>HUE</b>	1° - 360°
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Saturation</b>	0 - 100%
<b>10</b>	0 - 255	0 - 100	<b>Decay</b>	1 月 10 日
GEL				

<b>6</b>	0 - 255	0 - 100	<b>CCT</b>	Refer to Mode: GEL
<b>7</b>	0 - 255	0 - 100	<b>Rosco / LEE</b>	Refer to Mode: GEL
<b>8</b>	0 - 255	0 - 100	<b>Series</b>	Refer to Mode: GEL
<b>9</b>	0 - 255	0 - 100	<b>Category</b>	Refer to Mode: GEL
<b>10</b>	0 - 255	0 - 100	<b>Decay</b>	1 - 10
XY				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>X coordinate</b>	0 - 0.8
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Y coordinate</b>	0 - 0.8
<b>10</b>	0 - 255	0 - 100	<b>Decay</b>	1 - 10
Source				
<b>6</b>	0 - 255	0 - 100	<b>Source Matchin g</b>	Refer to Mode: Source
<b>7</b>	0 - 255	0 - 100	<b>Decay</b>	1 - 10
RGB				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>Red</b>	0 - 100%
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Green</b>	0 - 100%
<b>10 - 11</b>	0 - 65535	0 - 100	<b>Blue</b>	0 - 100%
<b>12</b>	0 - 255	0 - 100	<b>Decay</b>	1 - 10

Channel	Value	Percent	Function	
<b>5</b>	0 - 9	0 - 4	<b>Mode Select</b>	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
	CCT			
<b>6 - 7</b>	0 - 65535	0 - 100	<b>CCT</b>	2000K - 10000K
<b>8 - 9</b>	0 - 4587	0 - 7	<b>Green / Magenta</b>	Neutral / No Effect
	4588 - 9830	8 - 15		Full Minus Green
	9831 - 30145	16 - 46		-99% - -1%
	30146 - 39976	47 - 61		Neutral / No Effect
	39977 - 60292	62 - 92		1% - 99%
	60293 - 65535	93 - 100		Full Plus Green
	0 - 9	0 - 4		1
	10 - 19	5 - 8		2

<b>10</b>	20 - 29	9 - 12	<b>Frequency</b>	3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
<b>11</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
100 - 255	41 - 100	Reserved		
<b>HSI</b>				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>HUE</b>	1° - 360°
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Saturation</b>	0 - 100%
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>GEL</b>				
<b>6</b>	0 - 255	0 - 100	<b>CCT</b>	Refer to Mode: GEL
<b>7</b>	0 - 255	0 - 100	<b>Rosco / LEE</b>	Refer to Mode: GEL
<b>8</b>	0 - 255	0 - 100	<b>Series</b>	Refer to Mode: GEL
<b>9</b>	0 - 255	0 - 100	<b>Category</b>	Refer to Mode: GEL
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>XY</b>				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>X coordinate</b>	0 - 0.8
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Y coordinate</b>	0 - 0.8
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>Source</b>				
<b>6</b>	0 - 255	0 - 100	<b>Source Matchin g</b>	Refer to Mode: Source

<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>RGB</b>				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>Red</b>	0 - 100%
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Green</b>	0 - 100%
<b>10 - 11</b>	0 - 65535	0 - 100	<b>Blue</b>	0 - 100%
<b>12</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>13</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10

<b>FX Parameter:Pulsing</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>5</b>	0 - 9	0 - 4	<b>Mode Select</b>	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
<b>CCT</b>				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>CCT</b>	2000K - 10000K
<b>8 - 9</b>	0 - 4587	0 - 7	<b>Green / Magenta</b>	Neutral / No Effect
	4588 - 9830	8 - 15		Full Minus Green
	9831 - 30145	16 - 46		-99% - -1%
	30146 - 39976	47 - 61		Neutral / No Effect
	39977 - 60292	62 - 92		1% - 99%
	60293 - 65535	93 - 100		Full Plus Green
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>HSI</b>				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>HUE</b>	1° - 360°
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Saturation</b>	0 - 100%
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
<b>GEL</b>				
<b>6</b>	0 - 255	0 - 100	<b>CCT</b>	Refer to Mode: GEL
<b>7</b>	0 - 255	0 - 100	<b>Rosco / LEE</b>	Refer to Mode: GEL
<b>8</b>	0 - 255	0 - 100	<b>Series</b>	Refer to Mode: GEL
<b>9</b>	0 - 255	0 - 100	<b>Category</b>	Refer to Mode: GEL

<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
XY				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>X coordinate</b>	0 - 0.8
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Y coordinate</b>	0 - 0.8
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
Source				
<b>6</b>	0 - 255	0 - 100	<b>Source Matchin g</b>	Refer to Mode: Source
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10
RGB				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>Red</b>	0 - 100%
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Green</b>	0 - 100%
<b>10 - 11</b>	0 - 65535	0 - 100	<b>Blue</b>	0 - 100%
<b>12</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>13</b>	0 - 255	0 - 100	<b>Speed</b>	1 - 10

FX Parameter:Welding				
Channel	Value	Percent	Function	
<b>5</b>	0 - 9	0 - 4	<b>Mode Select</b>	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
CCT				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>CCT</b>	2000K - 10000K
<b>8 - 9</b>	0 - 4587	0 - 7	<b>Green / Magenta</b>	Neutral / No Effect
	4588 - 9830	8 - 15		Full Minus Green
	9831 - 30145	16 - 46		-99% - -1%
	30146 - 39976	47 - 61		Neutral / No Effect
	39977 - 60292	62 - 92		1% - 99%
	60293 - 65535	93 - 100		Full Plus Green
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random

<b>11</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
HSI				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>HUE</b>	1° - 360°
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Saturation</b>	0 - 100%
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
GEL				
<b>6</b>	0 - 255	0 - 100	<b>CCT</b>	Refer to Mode: GEL
<b>7</b>	0 - 255	0 - 100	<b>Rosco / LEE</b>	Refer to Mode: GEL
<b>8</b>	0 - 255	0 - 100	<b>Series</b>	Refer to Mode: GEL
<b>9</b>	0 - 255	0 - 100	<b>Category</b>	Refer to Mode: GEL
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
XY				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>X coordinate</b>	0 - 0.8
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Y coordinate</b>	0 - 0.8
<b>10</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>11</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
Source				
<b>6</b>	0 - 255	0 - 100	<b>Source Matchin g</b>	Refer to Mode: Source
<b>7</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>8</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%
RGB				
<b>6 - 7</b>	0 - 65535	0 - 100	<b>Red</b>	0 - 100%
<b>8 - 9</b>	0 - 65535	0 - 100	<b>Green</b>	0 - 100%
<b>10 - 11</b>	0 - 65535	0 - 100	<b>Blue</b>	0 - 100%
<b>12</b>	0 - 255	0 - 100	<b>Frequency</b>	1 - 10 - Random
<b>13</b>	0 - 255	0 - 100	<b>Min Brightness</b>	0 - 75%

FX Parameter: Cop Car				
Channel	Value	Percent	Function	
<b>5</b>	0 - 9	0 - 4	<b>Colors</b>	Red
	10 - 19	5 - 8		Blue
	20 - 29	9 - 12		Red+Blue
	30 - 39	13 - 16		Blue+White
	40 - 49	17 - 20		Red+Blue+White
	50 - 255	21 - 100		Reserved
	0 - 9	0 - 4		1
10 - 19	5 - 8	2		



<b>6</b>	20 - 29	9 - 12	<b>Frequency</b>	3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

<b>FX Parameter:Color Chase</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>5</b>	0 - 255	0 - 100	<b>Saturation</b>	0 - 100%
<b>6</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

<b>FX Parameter:Party Lights</b>				
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>	
<b>5</b>	0 - 255	0 - 100	<b>Saturation</b>	0 - 100%
<b>6</b>	0 - 9	0 - 4	<b>Speed</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

FX Parameter:Fireworks				
Channel	Value	Percent	Function	
<b>5</b>	0 - 9	0 - 4	<b>Color Combinations</b>	CCT
	10 - 19	5 - 8		HUE
	20 - 29	9 - 12		CCT+HUE
	30 - 255	13 - 100		Reserved
<b>6</b>	0 - 9	0 - 4	<b>Frequency</b>	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved

## Mode 21: WWRGB 16-bit (11-19 channels)

Channel		Value	Percent	Function	
1 - 2		0 - 65535	0 - 100	Warm White	0 - 100%
3 - 4		0 - 65535	0 - 100	Cool White	0 - 100%
5 - 6		0 - 65535	0 - 100	Red	0 - 100%
7 - 8		0 - 65535	0 - 100	Green	0 - 100%
9 - 10		0 - 65535	0 - 100	Blue	0 - 100%
11		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	NO Effect 1Hz - 25Hz
<b>Motorized Accessories (Defaults to ON)</b>					
12 - 13		0 - 4587 4588 - 65535	0 - 7 8 - 100	Zoom	NO Effect 18° - 50°
14 - 15		0 - 4587 4588 - 65535	0 - 7 8 - 100	Pan	NO Effect 0° - 359°
16 - 17		0 - 4587 4588 - 65535	0 - 7 8 - 100	Tilt	NO Effect -135° - 135°
<b>Function Configuration (Defaults to ON)</b>					
18	12	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Fan Mode	Smart High Medium Silent
19	13	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Dimming Curve	Linear S - curve Exp Log

**Motorized Accessories ON**

**Motorized Accessories OFF**

## Mode 22: Ultimate 16-bit (8-24 channels)

Channel	Value	Percent	Function	
<b>1-2</b>	0 - 65535	0 - 100	<b>Intensity</b>	0 - 100%
<b>3</b>	0 - 9	0 - 4	<b>Lighting Mode Selection</b>	CCT & RGB
	10 - 19	5 - 8		CCT
	20 - 29	9 - 12		CCT & HSI
	30 - 39	13 - 16		RGB
	40 - 49	17 - 20		Adv.HSI
	50 - 59	21 - 24		Gel
	60 - 69	25 - 28		X Y
	70 - 79	29 - 32		Source
	80 - 89	33 - 36		FX
	90-99	37-40		WWRGB
	90 - 255	41 - 100		Reserved
	See Lighting Mode Parameter Tables Above			