



Electro Storm CS15

DMX Profile Specification

Controller Firmware V1.0

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Mode 1: CCT & RGB 8-bit

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		-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	CCT ↔ RGB	Crossfade to Color
5	0 - 255	0 - 100	Red	0 - 100%
6	0 - 255	0 - 100	Green	0 - 100%
7	0 - 255	0 - 100	Blue	0 - 100%
8	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
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° - 360°
11	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
Function Configuration (Defaults to OFF)				
12	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent

13	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 2: CCT 8-bit

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		-99% - -1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
4	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
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° - 360°
7	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
Function Configuration (Defaults to OFF)				
8	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium

	192 - 255	76 - 100		Silent
9	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 3: CCT & HSI 8-bit

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
Motorized Accessories (Defaults to ON)				
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° - 360°
11	0 - 19	0 - 7	Tilt	NO Effect

	20 - 255	8 - 100		-135° - 135°
Function Configuration (Defaults to OFF)				
12	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
13	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 4: RGB 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	Red	0 - 100%
3	0 - 255	0 - 100	Green	0 - 100%
4	0 - 255	0 - 100	Blue	0 - 100%
5	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
6	0 - 19	0 - 7	Zoom	NO Effect
	20 - 255	8 - 100		18° - 50°
7	0 - 19	0 - 7	Pan	NO Effect
	20 - 255	8 - 100		0° - 360°
8	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
Function Configuration (Defaults to OFF)				
9	0 - 63	0 - 25	Fan Mode	Smart

	64 - 127 128 - 191 192 - 255	26 - 50 51 - 75 76 - 100		High Medium Silent
10	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Dimming Curve	Linear S - curve Exp Log

Mode 5: Adv.HSI 8-bit

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
Motorized Accessories (Defaults to ON)				
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° - 360°
8	0 - 19 20 - 255	0 - 7 8 - 100	Tilt	NO Effect -135° - 135°
Function Configuration (Defaults to OFF)				
9	0 - 63 64 - 127 128 - 191	0 - 25 26 - 50 51 - 75	Fan Mode	Smart High Medium

	192 - 255	76 - 100		Silent
10	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 6: Gel 8-bit

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
Motorized Accessories (Defaults to ON)				
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° - 360°

9	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
Function Configuration (Defaults to OFF)				
10	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
11	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

GEL Category 1: Rosco – Color Correction			
Channel	Value	Gel Name	Number
5	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 Plusgreen	3304
	36-37	1/2 Plusgreen	3315
	38-39	1/4 Plusgreen	3316
	40-41	1/8 Plusgreen	3317
	42-43	Full Minusgreen	3308
	44-45	3/4 Minusgreen	3309
	46-47	1/2 Minusgreen	3313
	48-49	1/4 Minusgreen	3314
	50-51	1/8 Minusgreen	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	

GEL Category 2: Rosco – CalColor			
Channel	Value	Gel Name	Number
5	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	

GEL Category 3: Rosco – Storaro Selection

Channel	Value	Gel Name	Number
5	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	

GEL Category 4: Rosco – Cinelux			
Channel	Value	Gel Name	Number
5	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	

GEL Category 1: LEE – Color Correction			
Channel	Value	Gel Name	Number
5	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
	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	

GEL Category 2: LEE – Color Filters			
Channel	Value	Gel Name	Number
5	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
	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
	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	

GEL Category 3: LEE – 600 Series			
Channel	Value	Gel Name	Number

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	

GEL Category 4: LEE – Cosmetic Filters			
Channel	Value	Gel Name	Number
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	

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

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
Motorized Accessories (Defaults to ON)				

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° - 360°
7	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
Function Configuration (Defaults to OFF)				
8	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
9	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 8: Source 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 2	0 - 1	Source	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 - 113 114 - 116 117 - 119 120 - 122 123 - 125 126 - 128 129 - 131 132 - 134 135 - 137 138 - 255	74 - 75 76 - 77 78 - 79 80 - 81 82 - 83 84 - 85 86 - 87 88 - 89 90 - 91 92 - 100		Green Traffic Light Yellow Traffic Light Red Traffic Light Blue Glow Stick Green Glow Stick Red Glow Stick Yellow Glow Stick Pink Glow Stick Violet Glow Stick Reserved
3	0 - 127 128 - 255	0 - 50 51 - 100	X Coordinate	0.0000 - +0.0050 0.0000 - -0.0050
4	0 - 127 128 - 255	0 - 50 51 - 100	Y Coordinate	0.0000 - +0.0050 0.0000 - -0.0050
5	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	NO Effect 1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
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° - 360°
8	0 - 19 20 - 255	0 - 7 8 - 100	Tilt	NO Effect -135° - 135°
Function Configuration (Defaults to OFF)				
9	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Fan Mode	Smart High Medium Silent

10	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 9: FX 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 9	0 - 4	Lightning	Loop
	10 - 69	5 - 27		Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27	Explosion	Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27	Other Effects	Loop
70 - 255	28 - 100	Stop		
3	0 - 9	0 - 4	Effect Selection	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 - 139 140 - 149 150 - 255	53 - 56 57 - 60 61 - 100		Party Lights Fireworks Reserved
4 - X	See FX Parameter Tables in Following Pages			
Motorized Accessories (Defaults to ON)				
NA	0 - 19 20 - 255	0 - 7 8 - 100	Zoom	NO Effect 18° - 50°
NA	0 - 19 20 - 255	0 - 7 8 - 100	Pan	NO Effect 0° - 360°
NA	0 - 19 20 - 255	0 - 7 8 - 100	Tilt	NO Effect -135° - 135°
Function Configuration (Defaults to OFF)				
NA	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Fan Mode	Smart High Medium Silent
NA	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Dimming Curve	Linear S - curve Exp Log

FX Parameter: Club Lights				
Channel	Value	Percent	Function	
4	0 - 9	0 - 4	No. of Colors	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
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 - 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
	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: Fire				
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
	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: Strobe				
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	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
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Speed	1 - 10 - Random
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	Speed	1 - 10 - Random
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	Speed	1 - 10 - Random
Source				
5	0 - 255	0 - 100	Source	Refer to Mode: Source
6	0 - 255	0 - 100	Speed	1 - 10 - Random
RGB				

5	0 - 255	0 - 100	Red	0 - 100%
6	0 - 255	0 - 100	Green	0 - 100%
7	0 - 255	0 - 100	Blue	0 - 100%
8	0 - 255	0 - 100	Speed	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		Reserved
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				
5	0 - 255	0 - 100	Source	Refer to Mode: Source
6	0 - 255	0 - 100	Decay	1 - 10
RGB				
5	0 - 255	0 - 100	Red	0 - 100%
6	0 - 255	0 - 100	Green	0 - 100%
7	0 - 255	0 - 100	Blue	0 - 100%
8	0 - 255	0 - 100	Decay	1 - 10

FX Parameter: Faulty Bulb			
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	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
8	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 - 255	41 - 100		Reserved
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	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	Frequency	1 - 10 - Random
10	0 - 255	0 - 100	Speed	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	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
Source				

5			Source	Refer to Mode: Source
6	0 - 255	0 - 100	Frequency	1 - 10 - Random
7	0 - 255	0 - 100	Speed	1 - 10
RGB				
5	0 - 255	0 - 100	Red	0 - 100%
6	0 - 255	0 - 100	Green	0 - 100%
7	0 - 255	0 - 100	Blue	0 - 100%
8	0 - 255	0 - 100	Frequency	1 - 10 - Random
9	0 - 255	0 - 100	Speed	1 - 10

FX Parameter: Pulsing				
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 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10

HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	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	Frequency	1 - 10 - Random
10	0 - 255	0 - 100	Speed	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	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
Source				
5	0 - 255	0 - 100	Source	Refer to Mode: Source
6	0 - 255	0 - 100	Frequency	1 - 10 - Random
7	0 - 255	0 - 100	Speed	1 - 10
RGB				
5	0 - 255	0 - 100	Red	0 - 100%
6	0 - 255	0 - 100	Green	0 - 100%
7	0 - 255	0 - 100	Blue	0 - 100%
8	0 - 255	0 - 100	Frequency	1 - 10 - Random
9	0 - 255	0 - 100	Speed	1 - 10

FX Parameter: Welding				
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 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Min Brightness	0 - 75%
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Min Brightness	0 - 75%
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	Frequency	1 - 10 - Random
10	0 - 255	0 - 100	Min Brightness	0 - 75%
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	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Min Brightness	0 - 75%
Source				
5	0 - 255	0 - 100	Source	Refer to Mode: Source
6	0 - 255	0 - 100	Frequency	1 - 10 - Random
7	0 - 255	0 - 100	Min Brightness	0 - 75%
RGB				
5	0 - 255	0 - 100	Red	0 - 100%
6	0 - 255	0 - 100	Green	0 - 100%
7	0 - 255	0 - 100	Blue	0 - 100%
8	0 - 255	0 - 100	Frequency	1 - 10 - Random
9	0 - 255	0 - 100	Min Brightness	0 - 75%

FX Parameter: Cop Car				
Channel	Value	Percent	Function	
4	0 - 9	0 - 4	Color Combinations	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
5	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: Color Chase				
Channel	Value	Percent	Function	
4	0 - 255	0 - 100	Saturation	0 - 100%
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 - 255	41 - 100		Reserved

FX Parameter: Party Lights				
Channel	Value	Percent	Function	
4	0 - 255	0 - 100	Saturation	0 - 100%
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 - 255	41 - 100		Reserved

FX Parameter: Fireworks				
Channel	Value	Percent	Function	
4	0 - 9	0 - 4	Color Combinations	CCT
	10 - 19	5 - 8		HUE
	20 - 29	9 - 12		CCT+HUE
	30 - 255	13 - 100		Reserved
5	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

Mode 10: WWRGB 8-bit

Mode 10 : WWRGB 8-bit				
Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Warm White	0 - 100%
2	0 - 255	0 - 100	Cool White	0 - 100%
3	0 - 255	0 - 100	Red	0 - 100%
4	0 - 255	0 - 100	Green	0 - 100%
5	0 - 255	0 - 100	Blue	0 - 100%
6	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
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° - 360°
9	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
Function Configuration (Defaults to OFF)				
10	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
11	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 11: Ultimate 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 9	0 - 4	Lighting Mode Selection	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 16-bit

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 ↔ RGB	Crossfade to Color

9 - 10	0 - 65535	0 - 100	Red	0 - 100%
11 - 12	0 - 65535	0 - 100	Green	0 - 100%
13 - 14	0 - 65535	0 - 100	Blue	0 - 100%
15	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
16	0 - 19	0 - 7	Zoom-rough	NO Effect
	20 - 255	8 - 100		18° - 50°
17	0 - 255	0 - 100	Zoom-fine	0° - 1.5°
18	0 - 19	0 - 7	Pan-rough	NO Effect
	20 - 255	8 - 100		0° - 360°
19	0 - 255	0 - 100	Pan-fine	0° - 3°
20	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
21	0 - 255	0 - 100	Tilt-fine	0° - 3°
Function Configuration (Defaults to OFF)				
22	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
23	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 13: CCT 16-bit

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	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
8	0 - 19	0 - 7	Zoom-rough	NO Effect
	20 - 255	8 - 100		18° - 50°
9	0 - 255	0 - 100	Zoom-fine	0° - 1.5°
10	0 - 19	0 - 7	Pan-rough	NO Effect
	20 - 255	8 - 100		0° - 360°
11	0 - 255	0 - 100	Pan-fine	0° - 3°
12	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
13	0 - 255	0 - 100	Tilt-fine	0° - 3°
Function Configuration (Defaults to OFF)				
14	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
15	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp

	192 - 255	76 - 100		Log
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Mode 14: CCT & HSI 16-bit

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
Motorized Accessories (Defaults to ON)				
16	0 - 19	0 - 7	Zoom-rough	NO Effect
	20 - 255	8 - 100		18° - 50°
17	0 - 255	0 - 100	Zoom-fine	0° - 1.5°
18	0 - 19	0 - 7	Pan-rough	NO Effect
	20 - 255	8 - 100		0° - 360°
19	0 - 255	0 - 100	Pan-fine	0° - 3°
20	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
21	0 - 255	0 - 100	Tilt-fine	0° - 3°

Function Configuration (Defaults to OFF)				
22	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
23	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 15: RGB 16-bit

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	0 - 19	0 - 7	Zoom-rough	NO Effect
	20 - 255	8 - 100		18° - 50°
11	0 - 255	0 - 100	Zoom-fine	0° - 1.5°
12	0 - 19	0 - 7	Pan-rough	NO Effect
	20 - 255	8 - 100		0° - 360°
13	0 - 255	0 - 100	Pan-fine	0° - 3°
14	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
15	0 - 255	0 - 100	Tilt-fine	0° - 3°

Function Configuration (Defaults to OFF)				
16	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
17	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 16: Adv.HSI 16-bit

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	0 - 4	HSI Base CCT	6500 K
	2296 - 65536	5 - 100		2000K- 10000K
9	0 - 19	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
10	0 - 19	0 - 7	Zoom-rough	NO Effect
	20 - 255	8 - 100		18° - 50°
11	0 - 255	0 - 100	Zoom-fine	0° - 1.5°
12	0 - 19	0 - 7	Pan-rough	NO Effect
	20 - 255	8 - 100		0° - 360°
13	0 - 255	0 - 100	Pan-fine	0° - 3°
14	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°

15	0 - 255	0 - 100	Tilt-fine	0° - 3°
Function Configuration (Defaults to OFF)				
16	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
17	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 17: Gel 16-bit

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	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
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	0 - 19	0 - 7	Zoom-rough	NO Effect
	20 - 255	8 - 100		18° - 50°
9	0 - 255	0 - 100	Zoom-fine	0° - 1.5°
10	0 - 19	0 - 7	Pan-rough	NO Effect
	20 - 255	8 - 100		0° - 360°
11	0 - 255	0 - 100	Pan-fine	0° - 3°
12	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
13	0 - 255	0 - 100	Tilt-fine	0° - 3°
Function Configuration (Defaults to OFF)				
14	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
15	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 18: X Y 16-bit

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	0 - 19	0 - 7	Zoom-rough	NO Effect
	20 - 255	8 - 100		18° - 50°
9	0 - 255	0 - 100	Zoom-fine	0° - 1.5°
10	0 - 19	0 - 7	Pan-rough	NO Effect
	20 - 255	8 - 100		0° - 360°
11	0 - 255	0 - 100	Pan-fine	0° - 3°
12	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
13	0 - 255	0 - 100	Tilt-fine	0° - 3°
Function Configuration (Defaults to OFF)				
14	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
15	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 19: Source 16-bit

Channel	Value	Percent	Function	
1-2	0 - 65535	0 - 100	Intensity	0 - 100%
3	0 - 2	0 - 1	Source	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 - 104 105 - 107 108 - 110 111 - 113 114 - 116 117 - 119 120 - 122 123 - 125 126 - 128 129 - 131 132 - 134 135 - 137 138 - 255	68 - 69 70 - 71 72 - 73 74 - 75 76 - 77 78 - 79 80 - 81 82 - 83 84 - 85 86 - 87 88 - 89 90 - 91 92 - 100		Blow Torch Road Flare Amber Caution Green Traffic Light Yellow Traffic Light Red Traffic Light Blue Glow Stick Green Glow Stick Red Glow Stick Yellow Glow Stick Pink Glow Stick Violet Glow Stick Reserved
4	0 - 127 128 - 255	0 - 50 51 - 100	x Coordinate	0.0000 - +0.0050 0.0000 - -0.0050
5	0 - 127 128 - 255	0 - 50 51 - 100	y Coordinate	0.0000 - +0.0050 0.0000 - -0.0050
6	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	NO Effect 1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
7	0 - 19 20 - 255	0 - 7 8 - 100	Zoom-rough	NO Effect 18° - 50°
8	0 - 255	0 - 100	Zoom-fine	0° - 1.5°
9	0 - 19 20 - 255	0 - 7 8 - 100	Pan-rough	NO Effect 0° - 360°
10	0 - 255	0 - 100	Pan-fine	0° - 3°
11	0 - 19 20 - 255	0 - 7 8 - 100	Tilt	NO Effect -135° - 135°

12	0 - 255	0 - 100	Tilt-fine	0° - 3°
Function Configuration (Defaults to OFF)				
13	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
14	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 20: FX 16-bit

Channel	Value	Percent	Function	
1-2	0 - 65535	0 - 100	Intensity	0 - 100%
3	0 - 9	0 - 4	Lightning	Loop
	10 - 69	5 - 27		Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27	Explosion	Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27	Other Effects	Loop
70 - 255	28 - 100	Stop		
4	0 - 9	0 - 4	Effect Selection	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
5- X	See FX Parameter Tables in Following Pages			
Motorized Accessories (Defaults to ON)				
NA	0 - 19	0 - 7	Zoom-rough	NO Effect
	20 - 255	8 - 100		18° - 50°
NA	0 - 255	0 - 100	Zoom-fine	0° - 1.5°
NA	0 - 19	0 - 7	Pan-rough	NO Effect
	20 - 255	8 - 100		0° - 360°
NA	0 - 255	0 - 100	Pan-fine	0° - 3°
NA	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
NA	0 - 255	0 - 100	Tilt-fine	0° - 3°
Function Configuration (Defaults to OFF)				
NA	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
NA	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp

	192 - 255	76 - 100		Log
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FX Parameter:Club Lights				
Channel	Value	Percent	Function	
5	0 - 9	0 - 4	No. of Colors	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
6	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 - 255	41 - 100		Reserved

FX Parameter:Paparazzi				
Channel	Value	Percent	Function	
5 - 6	0 - 65535	0 - 100	CCT	2000K - 10000K
7 - 8	0 - 4587	0 - 7	Green /	Neutral / No Effect

	4588 - 9830	8 - 15	Magenta	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
9	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	
5 - 6	0 - 65535	0 - 100	CCT	2000K - 10000K
7 - 8	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
9	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
10	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	
5	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Neutral
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 100		Reserved
6	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	
5	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Neutral
	20 - 29	9 - 12		Cooler
	30 - 255	12 - 100		Reserved
6	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 - 255	41 - 100		Reserved

FX Parameter:Fire				
Channel	Value	Percent	Function	
5	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Neutral
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 100		Reserved
6	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 - 255	41 - 100		Reserved

FX Parameter:Strobe				
Channel	Value	Percent	Function	
5	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				

6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	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
10	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		
HSI				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Speed	1 - 10 - Random
GEL				
6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
8	0 - 255	0 - 100	Series	Refer to Mode: GEL

9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Speed	1 - 10 - Random
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Speed	1 - 10 - Random
Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Speed	1 - 10 - Random
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%
10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Speed	1 - 10 - Random

FX Parameter:Explosion				
Channel	Value	Percent	Function	
5	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				
6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	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
10	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				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Decay	1 月 10 日
GEL				
6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
8	0 - 255	0 - 100	Series	Refer to Mode: GEL
9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Decay	1 - 10
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Decay	1 - 10

Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Decay	1 - 10
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%
10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Decay	1 - 10

FX Parameter: Faulty Bulb				
Channel	Value	Percent	Function	
5	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				
6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	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		
10	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
11	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 - 255	41 - 100		Reserved
HSI				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
GEL				

6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
8	0 - 255	0 - 100	Series	Refer to Mode: GEL
9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%
10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Frequency	1 - 10 - Random
13	0 - 255	0 - 100	Speed	1 - 10

FX Parameter:Pulsing				
Channel	Value	Percent	Function	
5	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 60 - 255	21 - 24 25 - 100		RGB Reserved
CCT				
6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	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
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
HSI				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
GEL				
6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
8	0 - 255	0 - 100	Series	Refer to Mode: GEL
9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Frequency	1 - 10 - Random

11	0 - 255	0 - 100	Speed	1 - 10
Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%
10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Frequency	1 - 10 - Random
13	0 - 255	0 - 100	Speed	1 - 10

FX Parameter:Welding				
Channel	Value	Percent	Function	
5	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				
6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	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
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Min Brightness	0 - 75%
HSI				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Min Brightness	0 - 75%
GEL				
6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
8	0 - 255	0 - 100	Series	Refer to Mode: GEL
9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Min Brightness	0 - 75%
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Min Brightness	0 - 75%
Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Min Brightness	0 - 75%
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%

10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Frequency	1 - 10 - Random
13	0 - 255	0 - 100	Min Brightness	0 - 75%

FX Parameter:Cop Car				
Channel	Value	Percent	Function	
5	0 - 9	0 - 4	Colors	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
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:Color Chase				
Channel	Value	Percent	Function	
5	0 - 255	0 - 100	Saturation	0 - 100%
6	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 - 255	41 - 100		Reserved

FX Parameter:Party Lights				
Channel	Value	Percent	Function	
5	0 - 255	0 - 100	Saturation	0 - 100%
6	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 - 255	41 - 100		Reserved

FX Parameter:Fireworks				
Channel	Value	Percent	Function	
5	0 - 9	0 - 4	Color Combinations	CCT
	10 - 19	5 - 8		HUE

	20 - 29	9 - 12		CCT+HUE
	30 - 255	13 - 100		Reserved
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

Mode 21: WWRGB 16-bit

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	0 - 7	Strobe	NO Effect
	20 - 255	8 - 100		1Hz - 25Hz
Motorized Accessories (Defaults to ON)				
12	0 - 19	0 - 7	Zoom-rough	NO Effect
	20 - 255	8 - 100		18° - 50°
13	0 - 255	0 - 100	Zoom-fine	0° - 1.5°

14	0 - 19	0 - 7	Pan-rough	NO Effect
	20 - 255	8 - 100		0° - 360°
15	0 - 255	0 - 100	Pan-fine	0° - 3°
16	0 - 19	0 - 7	Tilt	NO Effect
	20 - 255	8 - 100		-135° - 135°
17	0 - 255	0 - 100	Tilt-fine	0° - 3°
Function Configuration (Defaults to OFF)				
18	0 - 63	0 - 25	Fan Mode	Smart
	64 - 127	26 - 50		High
	128 - 191	51 - 75		Medium
	192 - 255	76 - 100		Silent
19	0 - 63	0 - 25	Dimming Curve	Linear
	64 - 127	26 - 50		S - curve
	128 - 191	51 - 75		Exp
	192 - 255	76 - 100		Log

Mode 22: Ultimate 16-bit

Channel	Value	Percent	Function	
1-2	0 - 65535	0 - 100	Intensity	0 - 100%
3	0 - 9	0 - 4	Lighting Mode Selection	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 90 - 255	37-40 41 - 100		WWRGB Reserved
See Lighting Mode Parameter Tables Above				