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MixPanel 60/MixPanel 150 DMX REFERENCE GUIDE

This DMX reference guide has been compiled according to the rigorous testing of our company's product. You are subject to design change in product without prior notice if there is any later. You can download the latest version of the DMX reference guide from www.nanlite.com.

CCT & RGBW 8bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	DIMMER 0% to 100%	
2	0-255	0-100	CCT(2700K-7500K)	
3	0-10 11-20 21-119 120-145 146-244 245-255	0-4 5-8 9-47 48-57 58-96 97-100	GREEN/MAGENTA Neutral/No Effect -50 Green -49 to -1 Green Neutral/No Effect +1 to +49 Green +50 Green	
4	0-255	0-100	CROSSFADE CCT to RGBW	
5	0-255	0-100	Red Intensity	
6	0-255	0-100	Green Intensity	
7	0-255	0-100	Blue Intensity	
8	0-255	0-100	White Intensity	
9	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
10	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
11-12			RESERVED	

CCT & RGBW 16bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1-2	0-65535	0-100	DIMMER 0% to 100%	
3-4	0-65535	0-100	CCT(2700K-7500K)	
5-6	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-4 5-8 9-47 48-57 58-96 97-100	GREEN/MAGENTA Neutral/No Effect -50 Green -49 to -1 Green Neutral/No Effect +1 to +49 Green +50 Green	
7-8	0-65535	0-100	CROSSFADE CCT to RGBW	
9-10	0-65535	0-100	Red Intensity	
11-12	0-65535	0-100	Green Intensity	
13-14	0-65535	0-100	Blue Intensity	
15-16	0-65535	0-100	White Intensity	
17	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
18	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
19-22			RESERVED	

CCT & HSI 8bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	DIMMER 0% to 100%	
2	0-255	0-100	CCT(2700K-7500K)	
3	0-10 11-20 21-119 120-145 146-244 245-255	0-4 5-8 9-47 48-57 58-96 97-100	GREEN/MAGENTA Neutral/No Effect -50 Green -49 to -1 Green Neutral/No Effect +1 to +49 Green +50 Green	
4	0-255	0-100	CROSSFADE CCT to HSI	
5	0-255	0-100	HUE 0 to 360 Degrees	
6	0-255	0-100	SAT 0 to Full Saturation	
7	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
8	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
9-10			RESERVED	

CCT & HSI 16bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1-2	0-65535	0-100	DIMMER 0% to 100%	
3-4	0-65535	0-100	CCT(2700K-7500K)	
5-6	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-4 5-8 9-47 48-57 58-96 97-100	GREEN/MAGENTA Neutral/No Effect -50 Green -49 to -1 Green Neutral/No Effect +1 to +49 Green +50 Green	
7-8	0-65535	0-100	CROSSFADE CCT to HSI	
9-10	0-65535	0-100	HUE 0 to 360 Degrees	
11-12	0-65535	0-100	SAT 0 to Full Saturation	
13	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
14	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
15-18			RESERVED	

CCT 8bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	DIMMER 0% to 100%	
2	0-255	0-100	CCT(2700K-7500K)	
3	0-10 11-20 21-119 120-145 146-244 245-255	0-4 5-8 9-47 48-57 58-96 97-100	GREEN/MAGENTA Neutral/No Effect -50 Green -49 to -1 Green Neutral/No Effect +1 to +49 Green +50 Green	
4	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
5	0-85 86-170 171-255	0-33 34-67 68-100	CCT SOURCE MODE Use CCT source mode setting of fixture menu SOFT HARD	
6	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
7-8			RESERVED	

CCT 16bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1-2	0-65535	0-100	DIMMER 0% to 100%	
3-4	0-65535	0-100	CCT(2700K-7500K)	
5-6	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-4 5-8 9-47 48-57 58-96 97-100	GREEN/MAGENTA Neutral/No Effect -50 Green -49 to -1 Green Neutral/No Effect +1 to +49 Green +50 Green	
7	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
8	0-85 86-170 171-255	0-33 34-67 68-100	CCT SOURCE MODE Use CCT source mode setting of fixture menu SOFT HARD	
9	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
10-13			RESERVED	

HSI 8bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	DIMMER 0% to 100%	
2	0-255	0-100	HUE 0 to 360 Degrees	
3	0-255	0-100	SAT 0 to Full Saturation	
4	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
5	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
6			RESERVED	

HSI 16bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1-2	0-65535	0-100	DIMMER 0% to 100%	
3-4	0-65535	0-100	HUE 0 to 360 Degrees	
5-6	0-65535	0-100	SAT 0 to Full Saturation	
7	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
8	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
9-12			RESERVED	

RGBW 8bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	Red Intensity	
2	0-255	0-100	Green Intensity	
3	0-255	0-100	Blue Intensity	
4	0-255	0-100	White Intensity	
5	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
6	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
7-8			RESERVED	

RGBW 16bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1-2	0-65535	0-100	Red Intensity	
3-4	0-65535	0-100	Green Intensity	
5-6	0-65535	0-100	Blue Intensity	
7-8	0-65535	0-100	White Intensity	
9	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	
10	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	STROBE OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
11-14			RESERVED	

ULTIMATE DMX 8bit - CCT MODE

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	DIMMER 0% to 100%	
2	0-51 52-102 103-153 154-204 205-255	0-20 21-40 41-60 61-80 81-100	MODE CCT HSI RGBW GEL EFFECT	0 ≤ value ≤ 51
3	0-255	0-100	CCT (2700K-7500K)	
4	0-255	0-100	G/M (-50)-(+50)	
5	0-127 128-255	0 - 50 51-100	MODE HARD SOFT	
6-11			N/A	
12	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	

ULTIMATE DMX 8bit - HSI MODE

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	DIMMER 0% to 100%	
2	0-51 52-102 103-153 154-204 205-255	0-20 21-40 41-60 61-80 81-100	MODE CCT HSI RGBW GEL EFFECT	52 ≤ value ≤ 102
3	0-255	0-100	HUE 0 to 360 Degrees	
4	0-255	0-100	SAT 0 to Full Saturation	
5-11			N/A	
12	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	

ULTIMATE DMX 8bit - RGBW MODE

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	DIMMER 0% to 100%	
2	0-51 52-102 103-153 154-204 205-255	0-20 21-40 41-60 61-80 81-100	MODE CCT HSI RGBW GEL EFFECT	103 ≤ value ≤ 153
3	0-255	0-100	Red Intensity	
4	0-255	0-100	Green Intensity	
5	0-255	0-100	Blue Intensity	
6	0-255	0-100	White Intensity	
7-11	0-255	0-100	N/A	
12	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	

ULTIMATE DMX 8bit - GEL MODE

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	DIMMER 0% to 100%	
2	0-51 52-102 103-153 154-204 205-255	0-20 21-40 41-60 61-80 81-100	MODE CCT HSI RGBW GEL EFFECT	154 ≤ value ≤ 204
3	0-127 128-255	0-50 51-100	GEL CCT 3200K 5600K	
4	0-255	0-100	GEL NO. See Gel number chart	
5-11			N/A	
12	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	

GEL NUMBER CHART

VALUE	%	GEL NAME
0 - 5	0-1	DOUBLE CTB
6 - 11	2-4	FULL CTB
12 - 17	4-6	1/2 CTB
18 - 23	7-9	1/4 CTB
24 - 29	9-11	1/8 CTB
30 - 35	11-13	DOUBLE CTO
36 - 41	14-16	FULL CTO
42 - 47	16-18	1/2 CTO
48 - 53	18-20	1/4 CTO
54 - 59	21-23	1/8 CTO
60 - 65	23-25	Blue 15
66 - 71	25-27	Blue 30
72 - 77	28-30	Blue 60
78 - 83	30-32	Blue 90
84 - 88	32-34	Cyan 07
89 - 95	34-37	Cyan 15
96 - 101	37-39	Cyan 30
102 - 107	40-41	Cyan 60
108 - 113	42-44	Cyan 90
114 - 119	44-46	Green 15
120 - 125	47-49	Green 30
126 - 131	49-51	Green 60

GEL NUMBER CHART

VALUE	%	GEL NAME
132 - 137	51-53	Green 90
138 - 143	54-56	Yellow 15
144 - 149	56-58	Yellow 30
150 - 155	58-60	Yellow 60
156 - 161	61-63	Yellow 90
162 - 167	63-65	Red 15
168 - 173	65-67	Red 30
174 - 179	67-70	Red 60
180 - 185	70-72	Red 90
186 - 191	72-74	Magenta 15
192 - 197	75-77	Magenta 30
198 - 203	77-79	Magenta 60
204 - 209	80-81	Magenta 90
210 - 215	82-84	Pink 15
216 - 221	84-86	Pink 30
222 - 227	87-89	Pink 60
228 - 233	89-91	Pink 90
234 - 239	91-93	Lavender 15
240 - 245	94-96	Lavender 30
246 - 251	96-98	Lavender 60
252 - 255	98-100	Lavender 90

ULTIMATE DMX 8bit - EFFECT MODE

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	DIMMER 0% to 100%	
2	0-51 52-102 103-153 154-204 205-255	0-20 21-40 41-60 61-80 81-100	MODE CCT HSI RGBW GEL EFFECT	205 ≤ value ≤ 255
3	0-17 18-34 35-51 52-68 69-85 86-102 103-119 120-136 137-153 154-170 171-255	0-7 8-14 15-20 21-27 28-34 35-40 41-47 48-54 55-60 61-66 67-100	EFFECT MODE HUE-LOOP CCT-LOOP FLASH PULSE STORM POLICE CAR TV PAPARAZZI CANDLE-FIRE DISCO RESERVED	
4	0-255	0-100	DMX EFFECTSPARAMETER #1	See DMX Effects chart
5	0-255	0-100	DMX EFFECTSPARAMETER #2	See DMX Effects chart
6	0-255	0-100	DMX EFFECTSPARAMETER #3	See DMX Effects chart
7	0-255	0-100	DMX EFFECTSPARAMETER #4	See DMX Effects chart
8	0-255	0-100	DMX EFFECTSPARAMETER #5	See DMX Effects chart
9	0-255	0-100	DMX EFFECTSPARAMETER #6	See DMX Effects chart
10	0-255	0-100	DMX EFFECTSPARAMETER #7	See DMX Effects chart
11	0-255	0-100	DMX EFFECTSPARAMETER #8	See DMX Effects chart
12	0-85 86-170 171-255	0-33 34-67 68-100	LIGHTING MODE SILENT MODE NORMAL MODE BOOST MODE	

DMX EFFECT CHART

EFFECT	HUE-LOOP 0 ≤ VALUE ≤ 17		
CH4/PARAMETER #1	HUE1		
CH5/PARAMETER #2	HUE2		
CH6/PARAMETER #3	SAT		
CH7/PARAMETER #4	SPEED		
CH8/PARAMETER #5	MODE: ONE-WAY = 0-127(0%-50%) TOW-WAY = 128-255(51%-100%)		
CH9/PARAMETER #6	ADD-ON: OFF = 0-85(0%-33%)	ADD-ON: FLASH = 86-170(34%-66%)	ADD-ON: PULSE = 171-255(67%-100%)
CH10/PARAMETER #7	N/A	INTERVALS	PULSES/MIN
CH11/PARAMETER #8	N/A	RATIO	N/A

DMX EFFECT CHART

EFFECT	CCT-LOOP 18 ≤ VALUE ≤ 34		
CH4/PARAMETER #1	CCT1		
CH5/PARAMETER #2	CCT2		
CH6/PARAMETER #3	SPEED		
CH7/PARAMETER #4	MODE: ONE-WAY = 0-127(0%-50%) TOW-WAY = 128-255(51%-100%)		
CH8/PARAMETER #5	ADD-ON: OFF = 0-85(0%-33%)	ADD-ON: FLASH = 86-170(34%-66%)	ADD-ON: PULSE = 171-255(67%-100%)
CH9/PARAMETER #6	N/A	INTERVALS	PULSES/MIN
CH10/PARAMETER #7	N/A	RATIO	N/A
CH11/PARAMETER #8	N/A		

DMX EFFECT CHART

EFFECT	FLASH 35 ≤ VALUE ≤ 51	
	CH4/PARAMETER #1	CCT = 0-127(0%-50%)
CH5/PARAMETER #2	CCT	HUE
CH6/PARAMETER #3	GM	SAT
CH7/PARAMETER #4	INTERVALS	
CH8/PARAMETER #5	RATIO	
CH9/PARAMETER #6	PAUSE: ON = 0-127(0%-50%)	PAUSE: OFF = 128-255(51%-100%)
CH10/PARAMETER #7	N/A	
CH11/PARAMETER #8	N/A	

DMX EFFECT CHART

EFFECT	PULSE 52 ≤ VALUE ≤ 68	
	CH4/PARAMETER #1	CCT = 0-127(0%-50%)
CH5/PARAMETER #2	CCT	HUE
CH6/PARAMETER #3	GM	SAT
CH7/PARAMETER #4	PULSES/MIN	
CH8/PARAMETER #5	N/A	
CH9/PARAMETER #6	N/A	
CH10/PARAMETER #7	N/A	
CH11/PARAMETER #8	N/A	

DMX EFFECT CHART

EFFECT	STORM 69 ≤ VALUE ≤ 85		
	CH4/PARAMETER #1	CCT	
CH5/PARAMETER #2	MODE: RANDOM = 0-127(0%-50%)	MODE: MANUAL = 128-255(51%-100%)	
CH6/PARAMETER #3	FLASH-TIMES-L		
CH7/PARAMETER #4	FLASH-TIMES-H		
CH8/PARAMETER #5	FLASH-SPEED		
CH9/PARAMETER #6	INTERVAL-RANG-L	Trigger: OFF = 0-127(0%-50%)	Trigger: ON = 128-255(51%-100%)
CH10/PARAMETER #7	INTERVAL-RANG-H	N/A	
CH11/PARAMETER #8	PAUSE: ON = 0-127(0%-50%)	PAUSE: OFF = 128-255(51%-100%)	N/A

DMX EFFECT CHART

EFFECT	POLICE CAR 86 ≤ VALUE ≤ 102
CH4/PARAMETER #1	COLOR: B = 0-63(0%-25%) RB = 64-127(26%-50%) BW = 128-191(51%-75%) RBW = 192-255(76-100%)
CH5/PARAMETER #2	MODE: SINGLE = 0-63(0%-25%) DOUBLE = 64-127(26%-50%) TRIPLE = 128-191(51%-75%) QUAD = 192-255(76-100%)
CH6/PARAMETER #3	N/A
CH7/PARAMETER #4	N/A
CH8/PARAMETER #5	N/A
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A
CH11/PARAMETER #8	N/A

DMX EFFECT CHART

EFFECT	TV 103 ≤ VALUE ≤ 119
CH4/PARAMETER #1	CCT
CH5/PARAMETER #2	GM
CH6/PARAMETER #3	SPEED
CH7/PARAMETER #4	DIMMING-RANGE-L
CH8/PARAMETER #5	N/A
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A
CH11/PARAMETER #8	N/A

DMX EFFECT CHART

EFFECT	PAPARAZZI 120 ≤ VALUE ≤ 136
CH4/PARAMETER #1	CCT
CH5/PARAMETER #2	SPEED
CH6/PARAMETER #3	N/A
CH7/PARAMETER #4	N/A
CH8/PARAMETER #5	N/A
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A
CH11/PARAMETER #8	N/A

DMX EFFECT CHART

EFFECT	CANDLE-FIRE 137 ≤ VALUE ≤ 153
CH4/PARAMETER #1	ADD-RED
CH5/PARAMETER #2	SAT
CH6/PARAMETER #3	SPEED
CH7/PARAMETER #4	DIMMING-RANGE-L
CH8/PARAMETER #5	FLICKERS: ON= 0-127(0%-50%) FLICKERS: OFF = 128-255(51%-100%)
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A
CH11/PARAMETER #8	N/A

DMX EFFECT CHART

EFFECT	DISCO 154 ≤ VALUE ≤ 170
CH4/PARAMETER #1	SAT
CH5/PARAMETER #2	SPEED
CH6/PARAMETER #3	COLORS: 3 = 0-31(0%-12%) 6 = 32-63(13%-25%) 9 = 64-95(26%-37%) 12 = 96-127(38%-50%) 15 = 128-159(51%-62%) 18 = 160-191(63%-75%) 21 = 192-223(76%-87%) 24 = 224-255(88%-100%)
CH7/PARAMETER #4	N/A
CH8/PARAMETER #5	N/A
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A
CH11/PARAMETER #8	N/A

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