

# NANLITE

## *FC-300B* DMX REFERENCE GUIDE

This DMX reference guide has been compiled according to the rigorous testing of Nanlite product. Product designs are subject to change without prior notice. The latest version of the DMX reference guide for this product is downloadable at [www.nanlite.com](http://www.nanlite.com).

CCT 8bit

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	<b>DIMMER</b> 0% to 100%	
2	0-255	0-100	<b>CCT</b> 2700K - 6500K	

When "DMX Reduced Channels" is ON, the following channels are reduced in all DMX modes except ULTIMATE DMX MODE.

CHANNEL	VALUE	%	FUNCTION	NOTES
3	0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	SMART FULL SPEED LOW SPEED FAN OFF	
4	0 - 3 4 5 6 7-255	0 - 1.2 1.6 2.0 2.4 2.7 - 100	<b>STROBE</b> OFF Random Fast Random Medium Random Slow Variable Strobe(0.4Hz --> 25Hz)	
5 - 6			RESERVED	

ULTIMATE DMX 8bit - CCT MODE

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	<b>DIMMER</b> 0% to 100%	
2	0-63 64-127 128-255	0-25 26-50 51-100	<b>MODE</b> CCT EFFECT RESERVED	0 ≤ value ≤ 63
3	0-255	0-100	<b>CCT</b> 2700K - 6500K	
4-10			N/A	
11	0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	SMART FULL SPEED LOW SPEED FAN OFF	

ULTIMATE DMX 8bit - EFFECT MODE

CHANNEL	VALUE	%	FUNCTION	NOTES
1	0-255	0-100	<b>DIMMER</b> 0% to 100%	
2	0-63 64-127 128-255	0-25 26-50 51-100	<b>MODE</b> CCT EFFECT RESERVED	64 ≤ value ≤ 127
3	0-18 19-36 37-54 55-72 73-90 91-108 109-126 127-144 145-162 163-180 181-198 199-216 217-255	0-7 8-14 15-21 22-28 29-35 36-42 43-50 51-57 58-64 65-71 72-78 79-85 86-100	<b>EFFECT MODE</b> CCT LOOP INT LOOP FLASH PULSE STORM TV PAPARAZZI CANDLE/FIRE BAD BULB FIREWORK EXPLOSION WELDING RESERVED	
4	0-255	0-100	DMX EFFECTS PARAMETER #1	See DMX Effects chart
5	0-255	0-100	DMX EFFECTS PARAMETER #2	See DMX Effects chart
6	0-255	0-100	DMX EFFECTS PARAMETER #3	See DMX Effects chart
7	0-255	0-100	DMX EFFECTS PARAMETER #4	See DMX Effects chart

ULTIMATE DMX 8bit - EFFECT MODE

CHANNEL	VALUE	%	FUNCTION	NOTES
8	0-255	0-100	DMX EFFECTS PARAMETER #5	See DMX Effects chart
9	0-255	0-100	DMX EFFECTS PARAMETER #6	See DMX Effects chart
10	0-255	0-100	DMX EFFECTS PARAMETER #7	See DMX Effects chart
11	0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	SMART FULL SPEED LOW SPEED FAN OFF	

**DMX EFFECT CHART**

EFFECT	CCT LOOP 0 ≤ value ≤ 18			
CH4/PARAMETER #1	CCT HIGH			
CH5/PARAMETER #2	CCT LOW			
CH6/PARAMETER #3	SPEED			
CH7/PARAMETER #4	CYCLE:ONE WAY = 0-85(0%-33%) CYCLE:TWO WAY = 86-170(34%-66%) CYCLE:REVERSE = 171-255(67%-100%)			
CH8/PARAMETER #5	ADD-ON:OFF = 0-63(0%-25%)	ADD-ON:FLASH = 64-127(26%-50%)	ADD-ON:RANDOM FLASH = 128-191(51%-75%)	ADD-ON:PULSE = 192-255(76%-100%)
CH9/PARAMETER #6	N/A	INTERVALS	SPEED	PULSES/MIN
CH10/PARAMETER #7	N/A	FLASH RATIO	N/A	N/A

**DMX EFFECT CHART**

EFFECT	INT LOOP 19 ≤ value ≤ 36			
CH4/PARAMETER #1	DIM LOW			
CH5/PARAMETER #2	CCT			
CH6/PARAMETER #3	SPEED			
CH7/PARAMETER #4	CYCLE:ONE WAY = 0-85(0%-33%) CYCLE:TWO WAY = 86-170(34%-66%) CYCLE:REVERSE = 171-255(67%-100%)			
CH8/PARAMETER #5	ADD-ON:OFF = 0-63(0%-25%)	ADD-ON:FLASH = 64-127(26%-50%)	ADD-ON:RANDOM FLASH = 128-191(51%-75%)	ADD-ON:PULSE = 192-255(76%-100%)
CH9/PARAMETER #6	N/A	INTERVALS	SPEED	PULSES/MIN
CH10/PARAMETER #7	N/A	FLASH RATIO	N/A	N/A

**DMX EFFECT CHART**

EFFECT	FLASH 37 ≤ value ≤ 54	
CH4/PARAMETER #1	CCT	
CH5/PARAMETER #2	INTERVALS	
CH6/PARAMETER #3	FLASH RATIO	
CH7/PARAMETER #4	PAUSE: OFF = 0-127(0%-50%)	PAUSE: ON = 128-255(51%-100%)
CH8/PARAMETER #5	N/A	
CH9/PARAMETER #6	N/A	
CH10/PARAMETER #7	N/A	

DMX EFFECT CHART

EFFECT	PULSE 55 ≤ value ≤ 72
CH4/PARAMETER #1	CCT
CH5/PARAMETER #2	PULSES/MIN
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

DMX EFFECT CHART

EFFECT	STORM 73 ≤ value ≤ 90		
CH4/PARAMETER #1	CCT		
CH5/PARAMETER #2	FLASH TIMES HIGH		
CH6/PARAMETER #3	FLASH TIMES LOW		
CH7/PARAMETER #4	TRIGGER: AUTO = 0-127(0%-50%)	TRIGGER: MANUAL = 128-255(51%-100%)	
CH8/PARAMETER #5	INTERVAL HIGH	Trigger: OFF = 0-127(0%-50%)	Trigger: ON = 128-255(51%-100%)
CH9/PARAMETER #6	INTERVAL LOW	N/A	
CH10/PARAMETER #7	PAUSE: OFF = 0-127(0%-50%)	PAUSE: ON = 128-255(51%-100%)	N/A

DMX EFFECT CHART

EFFECT	TV 91 ≤ value ≤ 108
CH4/PARAMETER #1	DIM LOW
CH5/PARAMETER #2	CCT
CH6/PARAMETER #3	CCT SHIFT
CH7/PARAMETER #4	SPEED
CH8/PARAMETER #5	N/A
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A

**DMX EFFECT CHART**

EFFECT	<b>PAPARAZZI</b> 109 ≤ value ≤ 126
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

**DMX EFFECT CHART**

EFFECT	<b>CANDLE/FIRE</b> 127 ≤ value ≤ 144
CH4/PARAMETER #1	DIM LOW
CH5/PARAMETER #2	CCT
CH6/PARAMETER #3	CCT SHIFT
CH7/PARAMETER #4	SPEED
CH8/PARAMETER #5	FLICKER: OFF = 0-127(0%-50%) FLICKER: ON = 128-255(51%-100%)
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A

**DMX EFFECT CHART**

EFFECT	<b>BAD BULB</b> 145 ≤ value ≤ 162
CH4/PARAMETER #1	CCT
CH5/PARAMETER #2	INTENSITY
CH6/PARAMETER #3	SPEED
CH7/PARAMETER #4	N/A
CH8/PARAMETER #5	N/A
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A

DMX EFFECT CHART

EFFECT	FIREWORK 163 ≤ value ≤ 180
CH4/PARAMETER #1	CCT
CH5/PARAMETER #2	CCT SHIFT
CH6/PARAMETER #3	SPEED
CH7/PARAMETER #4	DECAY
CH8/PARAMETER #5	N/A
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A

DMX EFFECT CHART

EFFECT	EXPLOSION 181 ≤ value ≤ 198
CH4/PARAMETER #1	CCT
CH5/PARAMETER #2	DECAY
CH6/PARAMETER #3	TRIGGER: AUTO = 0-127(0%-50%) TRIGGER: MANUAL = 128-255(51%-100%)
CH7/PARAMETER #4	SPEED Trigger: OFF = 0-127(0%-50%) Trigger: ON = 128-255(51%-100%)
CH8/PARAMETER #5	N/A
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A

DMX EFFECT CHART

EFFECT	WELDING 199 ≤ value ≤ 216
CH4/PARAMETER #1	DIM LOW
CH5/PARAMETER #2	CCT
CH6/PARAMETER #3	SPEED
CH7/PARAMETER #4	PAUSE: OFF = 0-127(0%-50%) PAUSE: ON = 128-255(51%-100%)
CH8/PARAMETER #5	N/A
CH9/PARAMETER #6	N/A
CH10/PARAMETER #7	N/A

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