



DMX Manual

MAIN MENU

> DMX User Manual for FW v.B0 -----	3
> CCT -----	4
> Gel -----	5
> CIE 1931 -----	6
> HSI -----	7
> RGBDT -----	8
> Ext. Kelvin -----	9
> Party -----	10
> Candle -----	10
> Fire -----	11
> Club -----	12
> Cop Car -----	13
> Fireworks -----	14
> Light Strobe -----	15
> Lightning -----	16
> Paparazzi -----	17
> Television -----	18
> Clouds -----	18
> ColorChase -----	19
> FluoreScent -----	21
> Plusing -----	22
> Welding -----	23
> White Light (Single Pixel Control) -----	24
> CIE 1931 (Single Pixel Control) -----	24
> HSI (Single Pixel Control) -----	25

DMX MANUAL FOR FW B0

Function	Mode Value		Channel Number	
Mode	8bit	16bit	8bit	16bit
White Light	0~3	128~131	5	7
Gel	4~7	132~135	7	8
CIE 1931	8~11	136~139	5	8
HSI	12~15	140~143	5	7
RGBDT	16~19	144~147	7	8
Ext. Kelvin	24~27	152~155	5	7
Party Effect	28~31	156~159	5	6
Candle	32~35	160~163	5	7
Club Effect	36~39	164~167	6	7
Cop Car Effect	40~43	168~171	6	7
Fire Effect	44~47	172~179	5	7
Fireworks Effect	48~51	180~183	5	6
Light Strobe Effect	52~55	184~187	7	9
Lightning Effect	56~59	188~191	7	9
Paparazzi Effect	60~63	192~195	6	8
Television Effect	64~67	196~199	5	7
Clouds	68~71	200~203	5	6
ColorChase	72~75	204~207	12	16
FluoreScent	76~79	208~211	6	8
Pulsing	80~83	212~215	7	9
Welding	84~87	224~227	7	9
White Light (Single Pixel Control)	96~99	224~227	4	7
CIE 1931 (Single Pixel Control)	100~103	228~231	4	7
HSI (Single Pixel Control)	104~107	232~235	4	7
Ext. Kelvin (Single Pixel Control)	108~111	236~239	4	7

CCT

CCT		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	0~3		1	128~131
Dim Curve						
Linear	0		0~63			0~63
Exponential	1	2	64~127		2	64~127
Logarithmic	2		128~195			128~195
S-Curve	3		196~255			196~255
Intensity	0.0%-100.0%	3	0~255	3	4	0~65,535
Color Temperature	2400K-13000K	4	0~255	5	6	0~65,535
Manufacturer						
	0	5	0~63		6	0~127
	1		64~127			128~255
Reserved			128~255			128~255
Green~Magenta						
Minus green	- 1.00 -> - 0.00	5	0~127		7	0~127
Plus green	+ 0.00 -> + 1.00		128~255			128~255

GEL

GEL		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	4~7		1	132~135
Dim Curve						
Linear	0		0~63			0~63
Exponential	1	2	64~127		2	64~127
Logarithmic	2		128~195			128~195
S-Curve	3		196~255			196~255
Intensity	0.0%-100.0%	3	0~255	3	4	0~65,535
CCT						
3200K	0		0~127			0~127
5600K	1	4	128~255		5	128~255
Manufacturer						
1	0		0~63			0~63
2	1	5	64~127		6	64~127
Reserved			128~255			128~255
Series Name						
1: Correction-0 (33) 2: Correction-1 (52)	0		0~31			0~31
1: Color (33) 2: Cosmetic (7)	1		32~63			32~63
1: Selected (10) 2: Frost (12)	2	6	64~95		7	64~95
1: Cine (48) 2: Filters-1 (107)	3		96~127			96~127
2: Filters-2 (88)	4		128~159			128~159
Reserved			160~255			160~255
Gel Name		7	0~255		8	0~255

CIE 1931

CIE 1931		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	8~11		1	136~139
Dim Curve						
Linear	0		0~63			0~63
Exponential	1	2	64~127		2	64~127
Logarithmic	2		128~195			128~195
S-Curve	3		196~255			196~255
Intensity	0.0%-100.0%	3	0~255	3	4	0~65,535
x Coordinate	0.000-0.8000	4	0~255	5	6	0~65,535
y Coordinate	0.000-0.8000	5	0~255	7	8	0~65,535

HSI

HSI		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	12-15		1	140-143
Dim Curve						
Linear	0		0-63			0-63
Exponential	1	2	64-127		2	64-127
Logarithmic	2		128-195			128-195
S-Curve	3		196-255			196-255
Intensity	0.0%-100.0%	3	0-255	3	4	0-65,535
Hue	0° - 360°	4	0-255	5	6	0-65,535
Saturation	0%-100%	5	0-255		7	0-255

RGBDT

RGBDT		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	16~19		1	144~147
Dim Curve						
Linear	0		0~63			0~63
Exponential	1	2	64~127		2	64~127
Logarithmic	2		128~195			128~195
S-Curve	3		196~255			196~255
Intensity	0.0%-100.0%	3	0~255	3	4	0~65,535
Red	0.0%-100.0%	4	0~255		5	0~255
Green	0.0%-100.0%	5	0~255		6	0~255
Blue	0.0%-100.0%	6	0~255		7	0~255
Tungsten	0.0%-100.0%	7	0~255		8	0~255

EXT. KELVIN

Ext. Kelvin		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	24~27		1	152~155
Dim Curve						
Linear	0		0~63			0~63
Exponential	1	2	64~127		2	64~127
Logarithmic	2		128~195			128~195
S-Curve	3		196~255			196~255
Intensity	0.0%-100.0%	3	0~255	3	4	0~65,535
Color Temperature	1500K-30000K	4	0~255	5	6	0~65,535
Green~Magenta						
Minus green	- 1.00 -> - 0.00	5	0~127		7	0~127
Plus green	+ 0.00 -> + 1.00		128~255			128~255

PARTY

Party		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	28-31		1	156-159
Status						
Start	0	2	0-127		2	0-127
Stop	1		128-255			128-255
Speed	1%-100%	3	0-255		3	0-255
Intensity	0.0%-100.0%	4	0-255	4	5	0-65,535
Saturation	0%-100%	5	0-255		6	0-255

CANDLE

Candle		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	32-35		1	160-163
Status						
Start	0	2	0-127		2	0-127
Stop	1		128-255			128-255
Speed	1%-100%	3	0-255		3	0-255
Intensity	0.0%-100.0%	4	0-255	4	5	0-65,535
CCT	1500K-2400K	5	0-255	6	7	0-65,535

FIRE

Fire		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	44~47		1	172~175
Status						
Start	0	2	0~127		2	0~127
Stop	1		128~255			128~255
Speed	1%-100%	3	0~255		3	0~255
Intensity	0.0%-100.0%	4	0~255	4	5	0~65,535
CCT	2400K-25000K	5	0~255	6	7	0~65,535

CLUB EFFECT

Club Effect		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	36~39		1	164~167
Status						
Start	0	2	0~127		2	0~127
Stop	1		128~255			128~255
Speed	1%-100%	3	0~255		3	0~255
Intensity	0.0%-100.0%	4	0~255	4	5	0~65,535
Color variety						
1 Color	1	5	1 ~ 15		5	1 ~ 15
2 Colors	2		16 ~ 31			16 ~ 31
3 Colors	3		32 ~ 47			32 ~ 47
4 Colors	4		48 ~ 63			48 ~ 63
5 Colors	5		64 ~ 79			64 ~ 79
6 Color	6		80 ~ 95			80 ~ 95
8 Colors	8		96 ~ 111			96 ~ 111
9 Colors	9		112 ~ 127			112 ~ 127
10 Colors	10		128 ~ 143			128 ~ 143
12 Colors	12		144 ~ 159			144 ~ 159
15 Colors	15		160 ~ 175			160 ~ 175
18 Colors	18		176 ~ 191			176 ~ 191
20 Colors	20		192 ~ 207			192 ~ 207
24 Colors	24		208 ~ 223			208 ~ 223
30 Colors	30		224 ~ 239			224 ~ 239
36 Colors	36		240 ~ 255			240 ~ 255
Switch Mode						
Fade	0	6	0 ~ 84		7	0 ~ 84
Plus	1		85 - 169			85 - 169
Flash	2		170 - 255			170 - 255

COP CAR EFFECT

Cop Car Effect		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	40~43		1	168~171
Status						
Start	0	2	0~127		2	0~127
Stop	1		128~255			128~255
Speed	1%-100%	3	0~255		3	0~255
Intensity	0.0%-100.0%	4	0~255	4	5	0~65,535
Combination						
R+B	0	5	0 ~ 28		5	0 ~ 28
B	1		29 ~ 57			29 ~ 57
R	2		58 ~ 86			58 ~ 86
A	3		87 ~ 115			87 ~ 115
A+B	4		116 ~ 144			116 ~ 144
R+A+B	5		145 ~ 173			145 ~ 173
B+W	6		174 ~ 202			174 ~ 202
R+B+W	7		203 ~ 231			203 ~ 231
R+A	8	232 ~ 255		232 ~ 255		
Flash Mode						
Single	0	6	0 ~ 63		7	0 ~ 63
Double	1		64 ~ 127			64 ~ 127
Triple	2		128 ~ 192			128 ~ 192
Cycle	3		192 ~ 255			192 ~ 255

FIREWORKS EFFECT

Fireworks Effect		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	48-51		1	176-179
Status						
Start	0	2	0-127		2	0-127
Stop	1		128-255			128-255
Speed	1%-100%	3	0-255		3	0-255
Intensity	0.0%-100.0%	4	0-255	4	5	0-65,535
Mode						
Color	0	5	0 - 84		6	0 - 84
White	1		85 - 169			85 - 169
Random	2		170 - 255			170 - 255

LIGHT STROBE EFFECT

Light Strobe Effect		8bit		16bit			
Function	Value	Channel	Value	Channel		Value	
				HI	LO		
Mode		1	52-55		1	180-183	
Status							
Start	0	2	0-127		2	0-127	
Stop	1		128-255			128-255	
Speed	1% - 100%	3	0-255		3	0-255	
Intensity	0.0%-100.0%	4	0-255	4	5	0-65,535	
Hue or CCT							
Hue	0°-359°	5	0 - 72	6	7	0-5,744	
Reserved			73 - 83			5,745-8,533	
CCT	1500K-30000K		84 - 255			8,534-66,535	
Saturation When using Hue							
Saturation	0%-100%	6	0-255		8	0-255	
Green-Magenta When using CCT							
Minus green	- 1.00 -> - 0.00		0-127			0-127	
Plus green	+ 0.00 -> + 1.00	128-255		128-255			
PulseWidth	0.0%-100.0%	7	0-255		9	0-65,535	

LIGHTNING EFFECT

Lightning Effect		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	56-59		1	184~187
Status						
Start	0	2	0~127		2	0~127
Stop	1		128~255			128~255
Frequency	1%-100%	3	0~255		3	0~255
Intensity	0.0%-100.0%	4	0~255	4	5	0~65,535
CCT	2400K-9900K	5	105 - 255	6	7	5,535-66,535
Green~Magenta						
Minus green	- 1.00 -> - 0.00	6	0~127		8	0~127
Plus green	+ 0.00 -> + 1.00		128~255			128~255
Flash Strong	Random	7	0 -25		9	0 -25
	1		26 - 50			26 - 50
	2		51 - 76			51 - 76
	3		77 - 101			77 - 101
	4		102 - 127			102 - 127
	5		128 - 152			128 - 152
	6		153 - 178			153 - 178
	7		179 - 203			179 - 203
	8		204 - 229			204 - 229
	9		230 - 254			230 - 254
	10		255 - 255			255 - 255

PAPARAZZI EFFECT

Paparazzi Effect		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	60~63		1	198~191
Status						
Start	0	2	0~127		2	0~127
Stop	1		128~255			128~255
Frequency	1%-100%	3	0~255		3	0~255
Intensity	0.0%-100.0%	4	0~255	4	5	0~65,535
CCT	2400K-9900K	5	105 - 255	6	7	5,535-66,535
Mode						
FlashBulb	0	6	0~127		8	0~127
Modern	1		128~255			128~255

TELEVISION EFFECT

Television Effect		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	64~67		1	192~195
Status						
Start	0	2	0~127		2	0~127
Stop	1		128~255			128~255
Speed	1%-100%	3	0~255		3	0~255
Intensity	0.0%-100.0%	4	0~255	4	5	0~65,535
CCT	3200K-7500K	5	0~255	6	7	0~65,535

CLOUDS

Clouds		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	68~71		1	196~199
Status						
Start	0	2	0~127		2	0~127
Stop	1		128~255			128~255
Speed	1%-100%	3	0~255		3	0~255
Intensity	0.0%-100.0%	4	0~255	4	5	0~65,535
Offset	0%-100%	5	0~255		6	0~255

COLORCHASE

ColorChase		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	72~75		1	200~203
Status						
Start	0	2	0~127		2	0~127
Stop	1		128~255			128~255
Speed	1% ->100%	3	0~255		3	0~255
Intensity	0.0%-100.0%	4	0~255	4	5	0~65,535
ColorMode						
Single	0	5	0~127		6	0~127
Multi	1		128~255			128~255
Hue or CCT When using Signle						
Hue	0° -> 359°		0 - 72			0-5,744
Reserved			73 - 83			5,745-8,533
CCT	1500K-30000K		84 - 255			8,534-66,535
When using Multi						
2	0		0~7			0~7
3	1		8~15			8~15
4	2	6	16~23	7	8	16~23
5	3		24~31			24~31
6	4		32~39			32~39
8	5		40~47			40~47
9	6		48~55			48~55
10	7		56~63			56~63
12	8		64~71			64~71

ColorChase		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
When using Multi						
15	9		72~79			72~79
18	10	6	80~87	7	8	80~87
20	11		88~95			88~95
24	12		96~103			96~103
30	13		104~111			104~111
Mode						
Fade	0	7	0 - 127		9	0 - 127
Pulsing	1		128 - 255	128 - 255		
Total Pixel	2 ~ 1024	8	0~255	10	11	0~65,535
Moving Pixel	1 ~ 1023	9	0~255	12	13	0~65,535
Moving Pixel	1 ~ 1024	10	0~255	14	15	0~65,535
Direction						
Left	0	11	0 - 127		16	0 - 127
Right	1		128 - 255	128 - 255		
Offset	0% - 100%	12	0~255		17	0~255

FLUORESCENT EFFECT

Fluorescent Effect		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	76-79		1	204-207
Status						
Start	0	2	0-127		2	0-127
Stop	1		128-255			128-255
Speed	1 S - 25 S	3	0-255		3	0-255
Intensity	0.0%-100.0%	4	0-255	4	5	0-65,535
Hue or CCT						
Hue	0°-359°	5	0 - 72	6	7	0-5,744
Reserved			73 - 83			5,745-8,533
CCT	1500K-30000K		84 - 255			8,534-66,535
Saturation When using Hue						
Saturation	0% ->100%	6	0-255		8	0-255
Green-Magenta When using CCT						
Minus green	- 1.00 -> - 0.00		0-127			0-127
Plus green	+ 0.00 -> + 1.00	128-255	128-255			

PULSING EFFECT

Pulsing Effect		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	80-83		1	208-211
Status						
Start	0	2	0-127		2	0-127
Stop	1		128-255			128-255
Speed	1 S - 25 S	3	0-255		3	0-255
Intensity	0.0%-100.0%	4	0-255	4	5	0-65,535
Hue or CCT						
Hue	0°-359°	5	0 - 72	6	7	0-5,744
Reserved	1		73 - 83			5,745-8,533
CCT	1500K-30000K		84 - 255			8,534-66,535
Saturation When using Hue						
Saturation	0% - 100%	6	0-255		8	0-255
Green-Magenta When using CCT						
Minus green	- 1.00 -> - 0.00		0-127	0-127		
Plus green	+ 0.00 -> + 1.00	128-255	128-255			
PulseWidth	0.0%-100.0%	7	0-255		9	0-65,535

WELDING EFFECT

Welding Effect		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	84-87		1	212-215
Status						
Start	0	2	0-127		2	0-127
Stop	1		128-255			128-255
Speed	1 - 25 Times/S	3	0-255		3	0-255
Intensity	0.0%-100.0%	4	0-255	4	5	0-65,535
Hue or CCT						
Hue	0°-359°	5	0 - 90	6	7	0 - 2,880
Reserved	1		91 - 104			2,881 - 5,534
CCT	2400K-9900K		105 - 255			5,535 - 66,535
Saturation When using Hue						
Saturation	0%-100%	6	0-255		8	0-255
Green-Magenta When using CCT						
Minus green	- 1.00 -> - 0.00		0-127	0-127		
Plus green	+ 0.00 -> + 1.00	128-255	128-255			
Ambient Dim	0%-100.0%	7	0-255		9	0-255

WHITE LIGHT (SINGLE PIXEL CONTROL)

White Light (Single Pixel Control)		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	96-99		1	224-227
Intensity	0.0% - 100.0%	2	0-255	2	3	0-65,535
Color Temperature	2400K - 13000K	3	0-255	4	5	0-65,535
Green-Magenta						
Minus green	- 1.00 -> - 0.00	4	0-127		6	0-32,767
Plus green	+ 0.00 -> + 1.00		128-255			32,768-65,535
Reserved					7	

CIE 1931 (SINGLE PIXEL CONTROL)

CIE 1931 (Single Pixel Control)		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	100-103		1	228-231
Intensity	0.0% - 100.0%	2	0-255	2	3	0-65,535
x Coordinate	0.0000 - 0.8000	3	0-255	4	5	0-65,535
y Coordinate	0.0000 - 0.8000	4	0-255	6	7	0-65,535

HSI (SINGLE PIXEL CONTROL)

HSI (Single Pixel Control)		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	104~107		1	232~235
Intensity	0.0% - 100.0%	2	0~255	2	3	0~65,535
Hue	0° - 360°	3	0~255	4	5	0~65,535
Saturation	0% - 100%	4	0~255		6	0~65,535
Reserved					7	

WHITE LIGHT (SINGLE PIXEL CONTROL)

White Light (Single Pixel Control)		8bit		16bit		
Function	Value	Channel	Value	Channel		Value
				HI	LO	
Mode		1	108~111		1	226~239
Intensity	0.0% - 100.0%	2	0~255	2	3	0~65,535
Color Temperature	2400K - 13000K	3	0~255	4	5	0~65,535
Green-Magenta						
Minus green	- 1.00 -> - 0.00	4	0~127		6	0~32,767
Plus green	+ 0.00 -> + 1.00		128~255			32,768~65,535
Reserved					7	