Mini-B Spot

05/2023

OPERATING MODE

Mini-B Spot has one single operating mode that takes 18 DMX channels.

DMX PROTOCOL

DMX Parameter number	*FUNCTION*
1	COLOR WHEEL
2	STROBE
3	DIMMER
4	DIMMER FINE
5	GOBO INSERTION
6	GOBO ROTATION
7	GOBO ROTATION FINE
8	PRISM INSERTION
9	PRISM ROTATION
10	FROST
11	FOCUS
12	ZOOM
13	PAN
14	PAN FINE
15	TILT
16	TILT FINE
17	RESET
18	FUNCTION

FUNCTIONS DETAILS

1		**COLOR WHEEL**
	000 – 004	Empty position
	005 – 009	White + Dark Red
	010 – 014	Dark Red
	015 – 019	Dark Red + Brilliant Blue
	020 – 024	Brilliant Blue
	025 – 029	Brilliant Blue + Green
	030 – 034	Green
	035 – 039	Green + CTO
	040 – 044	CTO
	045 – 049	CTO + Light Orange
	050 – 054	Light Orange
	055 – 059	Light Orange + Dark Orange
	060 – 064	Dark Orange
	065 – 069	Dark Orange + Navy Blue
	070 – 074	Navy Blue
	075 – 079	Navy Blue + White
	080 – 127	CW rotation from slow to fast
	128 – 255	Linear color insertion
2		**STROBE**
	000 – 003	Closed
	004 – 103	Linear Strobe slow (1 flash/sec) to fast (25 flashes/sec)
	104 – 107	Open
	108 – 207	Linear Pulse slow to fast
	208 – 212	Open
	213 – 225	Random Strobe low frequency
	226 – 238	Random Strobe medium frequency
	239 – 251	Random Strobe high frequency
	252 – 255	Open
3		**DIMMER**
	000 – 255	Linear 0-100%.
4	**000 – 255**	**DIMMER FINE (16 bit)**

DMX Parameter	Bit Values	Function	
5		**GOBO INSERTION**	
	000 – 008	Empty position	
	009 – 017	Gobo 1	
	018 – 026	Gobo 2	
	027 – 035	Gobo 3	
	036 – 044	Gobo 4	
	045 – 053	Gobo 5	
	054 – 062	Gobo 6	
	063 – 071	Gobo 7	
	072 – 113	Linear CCW fast to slow	
	114 – 117	Stop	
	118 – 159	Linear CW slow to fast	
	160 – 173	Gobo 1 shakes slow to fast	
	174 – 187	Gobo 2 shakes slow to fast	
	188 – 200	Gobo 3 shakes slow to fast	
	201 – 214	Gobo 4 shakes slow to fast	
	215 – 227	Gobo 5 shakes slow to fast	
	228 – 241	Gobo 6 shakes slow to fast	
	242 - 255	Gobo 7 shakes slow to fast	
6		**GOBO ROTATION**	
	000 – 127	Gobo indexing: 0° to 540° range	
	128 – 190	Linear CW fast to slow	
	191 – 192	Stop	
	193 – 255	Linear CCW slow to fast	

DMX Parameter	Bit Values	Function
7		**FINE GOBO ROTATION**
	000 – 255	Fine CCW Gobo Indexing
8		**4 FACET PRISM**
	000 – 127	Prism Out
	128 – 255	4 facet Prism IN
9		**4 FACET PRISM ROTATION**
	000 – 127	Prism indexing: 0° to 540° range
	128 – 190	CW linearly fast to slow
	191 – 192	Stop
	193 – 255	CCW linearly slow to fast
10	**000 – 255**	**FROST**
		Linear Frost
11	**000 – 255**	**FOCUS**
		Linear Focus
12	**000 – 255**	**ZOOM**
		Linear Zoom min 000 max 255 beam angle 128 (**Default)**
13	**000 – 255**	**PAN**
		Pan CCW 0° to 540° **(default setting)**
14	**000 – 255**	**PAN FINE**
		Fine CCW Pan
15	**000 – 255**	**TILT**
		Tilt CW 0° to 270° **(default setting)**
16	**000 – 255**	**TILT FINE**
		Fine CW Tilt

DMX Parameter	Bit Values	Function	
17		**RESET**	
		The reset sequence is activated staying in the range for 5 seconds	
	000 – 025	Unused range	
	026 – 076	Effects reset	
	077 – 127	Pan / Tilt reset	
	128 – 255	Complete fixture reset	
18		**FUNCTION**	
	000 – 001	Unused range	
	002 – 003	Fan mode Auto **(Default)**	
	004 – 005	Fan mode SLN	
	006 – 007	Fan mode Constant	
	008 – 009	Fan mode Theatre	
	010 – 017	Unused range	
	018 – 024	Pan/Tilt Fast speed **(Default)**	
	025 – 037	Pan/Tilt Normal speed	
	038 – 042	Dimmer curve 1 **(Default)**	**Details at page 8**
	043 – 047	Dimmer curve 2	
	048 – 052	Dimmer curve 3	
	053 – 055	Dimmer curve 4	
	056 – 058	Standard colour mode **(Default)**	
	059 – 061	Boost colour mode	
	062 – 167	Unused range	
	168 – 188	PWM Frequency 600Hz	
	189 – 199	PWM Frequency 1200Hz	
	200 – 210	PWM Frequency 2000Hz **(Default)**	
	211 – 221	PWM Frequency 4000Hz	
	222 – 232	PWM Frequency 6000Hz	
	233 – 241	PWM Frequency 25000Hz	
	242 – 243	Display OFF **(Default)**	
	244 – 245	Display ON	
	246 – 247	Gobo Standard **(Default)**	
	248 – 249	Gobo MIB	
	250 – 253	Unused range	
	254 – 255	Recall Default function	
		IMPORTANT: The functions are activated/selected staying in the necessary range for 3 seconds	

IMPORTANT NOTE
To ensure reliable operation of the effects, it is suggested to keep the light source of the projector switch-on for few minutes before moving the effects. Claypaky use a high-performance lubricant that is designed to work within the high temperature environment in Claypaky's modern moving light fixtures. In cold environments, it may take few minutes for the lubricant to reach optimum fluidity and all functions to reach optimum performance.
To preserve the LED engine, it is suggested to set the Dimmer channel @ 0bit few minutes before turning off the power of the fixture.
To prevent accidental breakage of the effects, which could collide with each other's during transport, before switching the fixture OFF, check that all the DMX parameters have been excluded (DMX level @0 bit).