
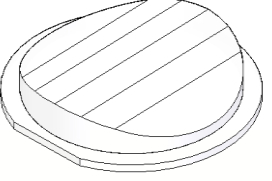
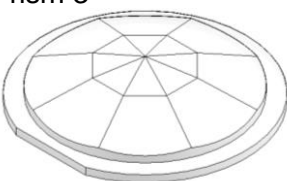


DMX PROTOCOL

Number	CHANNEL
1	RED
2	RED FINE
3	GREEN
4	GREEN FINE
5	BLUE
6	BLUE FINE
7	CTO
8	SHOW-SETUP
9	DIMMER
10	DIMMER FINE
11	STOPPER / STROBE
12	PRISMS WHEEL CHANGE
13	PRISMS WHEEL ROTATION
14	ZOOM
15	SMART FADING
16	BAZ FADING
17	FOCUS
18	FOCUS FINE
19	PAN
20	PAN FINE
21	PAN ROTATION
22	TILT
23	TILT FINE
24	FUNCTION
25	RESET
26	FUNCTION 2
27	FREQUENCY

Number	DMX Value	Function
1		RED
	000 – 255	Linear 0 – 100%
2		RED FINE
	000 – 255	Fine Red (16bit)
3		GREEN
	000 – 255	Linear 0 – 100%
4		GREEN FINE
	000 – 255	Fine Green (16bit)
5		BLUE
	000 – 255	Linear 0 – 100%
6		BLUE FINE
	000 – 255	Fine Blue (16bit)
7		CTO
	000	Raw mode
	001 – 255	Linear CTO from 9000K to 3000K
8		SHOW-SETUP
	000 – 011	Unused range
	012 – 016	Limited Output On
	017 – 021	Limited Output Off
	022 – 042	Free
	043 – 047	Check Start
	048 – 052	Check Stop
	053 – 057	BAZ - Symmetric
	058 – 062	BAZ - Pan_180
	063 – 067	BAZ - Custom – Tilt 1
	068 – 072	BAZ - Custom - Pan 1
	073 – 078	BAZ - Custom - Pan 2
	079 – 083	BAZ – Custom – Tilt 2
	084 – 093	Free
	094 – 099	BAZ – Invert Off
	100 – 104	BAZ – Invert On
	105 – 108	BAZ - Reset
	109 – 165	Free
	166 – 169	Complete channel Reset
170 – 255	Free	
		All functions are activated/selected passing through the unused levels range and staying in the necessary range for 5 seconds
9		DIMMER
	000 – 255	Linear 0 – 100%
10		DIMMER FINE
	000 – 255	Fine Dimmer (16bit)

Number	DMX Value	Function	
11		STOPPER / STROBE	
	000 – 003	Light OFF	
	004 – 103	Strobe linear from slow (1 flash/sec) to fast (25 flashes/sec)	
	104 – 107	Light ON	
	108 – 207	Pulsation linear from slow to fast	
	208 – 212	Light ON	
	213 – 225	Random Strobe at low frequency	
	226 – 238	Random Strobe at medium frequency	
	239 – 251	Random Strobe at high frequency	
	252 – 255	Light ON	
12		PRISMS WHEEL CHANGE	
	000 – 032	Prisms / Frost OUT	
	033 – 064	Frost 	
	065 – 097	Prism 2 	
	098 – 129	Prism 3 	
	130 – 171	Frost shakes from slow to fast	
	172 – 214	Prism 2 shakes from slow to fast	
	215 – 255	Prism 3 shakes slow to fast	
	13		PRISMS WHEEL ROTATION
		000 – 021	Prisms/Frost indexing: 0° to 90° range
022 – 042		Prisms/Frost indexing: 91° to 180° range	
043 – 063		Prisms/Frost indexing: 181° to 270° range	
064 – 084		Prisms/Frost indexing: 271° to 360° range	
085 – 105		Prisms/Frost indexing: 361° to 450° range	
106 – 127		Prisms/Frost indexing: 451° to 540° range	
128 – 190		Linear CCW rotation from fast (170 rpm) to slow (2.2 rph)	
191 – 192		Stop rotation	
193 – 255	Linear CW rotation from slow (2.2 rph) to fast (170 rpm)		

Number	DMX Value	Function
14		ZOOM
	000 – 255	Zoom linear from narrow 000 to wide 255 it work combined with prism wheel inserted
15		SMART FADING
	001 – 255	NOT USED
16		BAZ FADING
	000	No fade
	001 – 255	Linear fading (BAZ only)
17		FOCUS
	000 – 255	Focus linear from far to near position
18		FOCUS FINE
	000 – 255	Fine Focus positioning
19		PAN
	000 – 255	Pan CCW positioning from 0° to 540° (default setting)
20		PAN FINE
	000 – 255	Fine Pan positioning
21		PAN ROTATION
	000	Direct Pan positioning
	001 – 127	Pan CCW rotation from Fast (80 rpm) to Slow (5 rph)
	128	Stop Pan rotation
22	129 - 255	Pan CW rotation from Slow (5 rph) to Fast (80 rpm)
		TILT
23	000 – 255	Tilt CCW positioning from 0° to 265° (default setting)
		TILT FINE
24	000 – 255	Fine Tilt positioning
		FUNCTION
	000 – 011	Unused range
	012 – 024	Fast Pan/Tilt speed
	025 – 037	Normal Pan/Tilt speed
	038 – 050	Fast Pan Continuous speed
	051 - 062	Slow Pan Continuous speed
	063 - 075	Boost Mode Off
	076 - 088	Boost Mode On
	089 – 101	Display Off
	102 – 113	Display On
114 - 255	Free	
25		The functions are activated/selected passing through the unused levels range and staying in the necessary range for 5 seconds
		RESET
	000 – 025	Unused range
	026 – 076	Effects Reset sequence is activated passing through the unused levels range and staying in this range for 5 seconds
	077 – 127	Pan/Tilt Reset sequence passing through the unused levels range and staying in this range for 5 seconds.
128 – 255	All-effects Reset sequence passing through the unused levels range and staying in this range for 5 seconds.	

Number	DMX Value	Function			
26		FUNCTION 2			
	000 – 011	Unused range			
	012	Base Frequency= 4700 Hz			
	013	Base Frequency= 6000 Hz			
	014	Base Frequency= 7300 Hz			
	015	Base Frequency= 8600 Hz			
	016	Base Frequency= 10000 Hz			
	017	Base Frequency= 12000 Hz			
	018	Base Frequency= 15000 Hz			
	019	Base Frequency= 17578 Hz			
	020	Base Frequency= 20000 Hz			
	021	Base Frequency= 22000 Hz			
		The functions are activated/selected passing through the unused levels range and staying in the necessary range for 5 seconds			
27	000 – 255	FREQUENCY			
		Base Frequency (see Function 2)	Min Freq. @ 0 bit	Frequency @ 128 bit	Max Freq. @ 255 bit
		4700 Hz	4060 Hz	4700 Hz	5335 Hz
		6000 Hz	5360 Hz	6000 Hz	6635 Hz
		7300 Hz	6660 Hz	7300 Hz	7935 Hz
		8600 Hz	7960 Hz	8600 Hz	9235 Hz
		10000 Hz	9360 Hz	10000 Hz	10635 Hz
		12000 Hz	10720 Hz	12000 Hz	13270 Hz
		15000 Hz	13336 Hz	15000 Hz	16651 Hz
		17578 Hz	16682 Hz	17578 Hz	18467 Hz
		20000 Hz	18720 Hz	20000 Hz	21270 Hz
		22000 Hz	21360 Hz	22000 Hz	22635 Hz

IMPORTANT NOTE

To prevent accidental breakage of the effects, which could collide with each other's during transport, before switching the projector OFF check that all the projector Channels have been excluded (DMX level = 0 bit.).

To preserve the Light engine, it is suggested to set the Dimmer @ 0bit a few minutes before turning off the fixture.

To ensure reliable operation of the effects, it is suggested to keep the Light of the fixture 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.