

DMX TRAITS

Standard	Extended	Value	Function	Snap	Default Value	
1	1	0-255	Pan		127	
			Left → Right			
2	2	0-255	Pan Fine		127	
			Fine Position			
3	3	0-255	Tilt		127	
			Forward → Backward			
4	4	0-255	Tilt Fine		127	
			Fine Position			
5	5	0 - 2	Pan Rotate		0	
			Disabled			
			3 - 126			Rotating Clockwise Fast → Slow
			127 - 129			No rotation (Fixture stops at its current position)
			130 - 253			Rotating Counter-Clockwise Fast → Slow
			254 - 255			No rotation (Fixture stops at its current position)
6	6	0-255	Cyan		0	
			0 → 100%			
	7	0-255	Cyan Fine		0	
			Fine Saturation			
7	8	0-255	Magenta		0	
			0 → 100%			
	9	0-255	Magenta Fine		0	
			Fine Saturation			
8	10	0-255	Yellow		0	
			0 → 100%			
	11	0-255	Yellow Fine		0	
			Fine Saturation			
9	12	0-255	CTO		0	
			Cold → Warm			
	13	0-255	CTO Fine		0	
			Fine Saturation			

DMX TRAITS

Standard	Extended	Value	Function	Snap	Default Value
10	14		Color	X	0
		0-15	Open		
		16-17	White/Red Split		
		18-19	Red		
		20-21	Red/Green Split		
		22-23	Green		
		24-25	Green/Yellow Split		
		26-27	Yellow		
		28-29	Yellow/Purple Split		
		30-31	Purple		
		32-33	Purple/Cyan Split		
		34-35	Cyan		
		36-37	Cyan/Orange Split		
		38-39	Orange		
		40-41	Orange/Magenta Split		
		42-43	Magenta		
		44-45	Magenta/Light Green Split		
		46-47	Light Green		
		48-49	Light Green/Pink Split		
		50-51	Pink		
		52-53	Pink/UV Split		
		54-55	UV		
		56-57	UV/CTB Split		
		58-59	CTB		
		60-61	CTB/CTO Split		
		62-63	CTO		
		64-65	CTO/HighCRI Split		
		66-67	HighCRI		
		68-69	HighCRI/Dark Amber Split		
		70-71	Dark Amber		
		72-73	Dark Amber/Deep Red Split		
		74-75	Deep Red		
		76-77	Deep Red/Blue Split		
78-79	Blue				
80-81	Blue/White Split				
82-127	Open				
	Scroll				
128-189	Clockwise Fast → Slow				
190-193	Stop				
194-255	Counter-clockwise Slow → Fast				
	15	0-255	Color Fine Position	X	0

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Standard	Extended	Value	Function	Snap	Default Value
11	16		Rotating Gobo		0
		0-10	Beam Open		
		11-21	Spot Open		
		22-31	Rotating Gobo 1		
		32-41	Rotating Gobo 2		
		42-51	Rotating Gobo 3		
		52-61	Rotating Gobo 4		
		62-71	Rotating Gobo 5		
		72-81	Rotating Gobo 6		
		82-91	Rotating Gobo 7		
		92-101	Rotating Gobo 8		
		102-112	Gobo 1 Shake Slow → Fast		
		113-123	Gobo 2 Shake Slow → Fast		
		124-134	Gobo 3 Shake Slow → Fast		
		135-145	Gobo 4 Shake Slow → Fast		
		146-156	Gobo 5 Shake Slow → Fast		
		157-167	Gobo 6 Shake Slow → Fast		
		168-178	Gobo 7 Shake Slow → Fast		
		179-189	Gobo 8 Shake Slow → Fast		
			Scroll		
190-221	Clockwise Fast → Slow				
222-223	Stop				
224-255	Counter-clockwise Slow → Fast				
12	17		Rotating Gobo Index/ Rotation		0
		0-127	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
194-255	Counter-clockwise Slow → Fast				
13	18	0-255	Rotating Gobo Index/ Rotation Fine		0
			Index Position		

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Standard	Extended	Value	Function	Snap	Default Value
14	19		Fixed Gobo	X	0
		0-13	Open		
		14-18	Gobo 1		
		19-23	Gobo 2		
		24-28	Gobo 3		
		29-33	Gobo 4		
		34-38	Gobo 5		
		39-43	Gobo 6		
		44-48	Gobo 7		
		49-53	Gobo 8		
		54-58	Gobo 9		
		59-63	Gobo 10		
		64-68	Gobo 11		
		69-73	Gobo 12		
		74-78	Gobo 13		
		79-83	Gobo 14		
		84-88	Gobo 15		
		89-93	Gobo 16		
		94-99	Gobo 1 shake slow to fast		
		100-105	Gobo 2 shake slow to fast		
		106-111	Gobo 3 shake slow to fast		
		112-117	Gobo 4 shake slow to fast		
		118-123	Gobo 5 shake slow to fast		
		124-129	Gobo 6 shake slow to fast		
		130-135	Gobo 7 shake slow to fast		
		136-141	Gobo 8 shake slow to fast		
		142-147	Gobo 9 shake slow to fast		
		148-153	Gobo 10 shake slow to fast		
		154-159	Gobo 11 shake slow to fast		
		160-165	Gobo 12 shake slow to fast		
		166-171	Gobo 13 shake slow to fast		
		172-177	Gobo 14 shake slow to fast		
178-183	Gobo 15 shake slow to fast				
184-189	Gobo 16 shake slow to fast				
	Scroll				
190-221	Clockwise Fast → Slow				
222-223	Stop				
224-255	Counter-clockwise Slow → Fast				
	20	0-255	Fixed Gobo Fine Position	X	0

DMX TRAITS

Standard	Extended	Value	Function	Snap	Default Value
15	21		Animation Wheel		0
		0	Open		
		1-127	Open → Dots		
		128-255	Dots → Lines		
16	22		Animation Index		64
		0-127	Position		
			Scroll		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
194-255	Counter-clockwise Slow → Fast				
17	23		Animation Wheel 2		0
		0-127	Open		
		128-255	Waves		
18	24		Animation Index		0
		0-127	Position		
			Scroll		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
194-255	Counter-clockwise Slow → Fast				
19	25		Rotating Prism 1	X	0
		0-63	Open		
		64-95	8 Facet		
		96-127	6 Facet Linear		
128-255	Open				
20	26		Rotating Prism 1 Index/Rotation		0
		0-255	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
194-255	Counter-clockwise Slow → Fast				
	27	0-255	Rotating Prism 1 Index/Rotation Fine Position		
21	28		Rotating Prism 2	X	0
		0-63	Open		
		64-95	16 Facet		
		96-127	4 Facet Linear		
128-255	Open				
22	29		Rotating Prism 2 Index/Rotation		0
		0-255	Index Position		
			Rotate		
		128-189	Clockwise Fast → Slow		
		190-193	Stop		
194-255	Counter-clockwise Slow → Fast				
	30	0-255	Rotating Prism 2 Index/Rotation Fine Position		0

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Standard	Extended	Value	Function	Snap	Default Value
23	31	0-255	Focus		127
			Infinity → Near		
24	32	0-255	Focus Fine		127
			Fine Adjustment		
25	33	0-255	Zoom		127
			Narrow → Wide		
26	34	0-255	Zoom Fine		127
			Fine Adjustment		
	35		Auto Focus		0
		0-50	Auto Focus Off		
		51-100	5-15m		
		101-150	15-150m		
		151-255	Idle		
	36	0-255	AutoFocus Fine		0
			Fine Adjustment		
27	37		Shutter/Strobe	X	50
		0-31	Closed		
		32-63	Open		
		64-95	Strobe Slow → Fast		
		96-127	Open		
		128-159	Pulse-effect		
		160-191	Open		
		192-223	Random strobe Slow → Fast		
224-255	Open				
28	38	0-255	Dimmer		0
			Intensity 0 → 100%		
29	39	0-255	Dimmer Fine		0
			Fine Adjustment		
30	40		Iris		
		0-191	Open → Close		
		192-223	Pulse Closing fast → slow		
		224-255	Pulse Opening slow → fast		
31	41	0-255	Frost		
			Open → Max		
	42		Pan / Tilt Speed	X	0
		0-225	Max → Min Speed		
		226-235	Blackout by movement		
		236-245	Blackout by wheel changes		
		246-255	No function		

RELATION PROTUES HYBRID MAX - DMX TRAITS

Standard	Extended	Value	Function	Snap	Default Value
32	43		Control (hold 5s)	X	0
		0-10	Idle		
		11-12	Pan Tilt Shortest Path		
		13-14	Pan Tilt Continue Path		
		15-16	Pan Range 540		
		17-18	Pan Range 360		
		19-20	Pan Range 360 Short		
		21-39	Idle		
			Lamp Control		
		40-49	On		
		50-59	Off		
		60-66	Power 370W		
		67-73	Power 430W		
		74-79	Power 560W		
			Reset		
		80-84	Fixture		
		85-87	Pan Tilt		
		88-90	Color		
		91-93	Gobo		
		94-96	Dimmer		
		97-99	Other Features		
		100-164	Idle		
		165-166	CMY Smooth		
		167-168	CMY Fast		
		169-170	Vent Cleaning On		
		171-172	Vent Cleaning Off		
		173-174	Hibernation Off		
		175-176	Hibernation		
		177-178	Sun Protection On		
		179-180	Sun Protection Off		
		181-190	Pan Tilt Smooth		
		191-200	Pan Tilt Fast		
			Dimmer Curve		
201-210	Linear				
211-220	Square				
221-230	Inverse Square				
231-240	S-Curve				
241-249	Idle				
250-251	Display Off				
252-253	Display On				
254-255	Idle				