

DMX TRAITS

Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value
1	1	1	1	0-255	Pan		127
					Left → Right		
2	2	2	2	0-255	Pan Fine		127
					Fine Position		
3	3	3	3	0-255	Tilt		127
					Forward → Backward		
4	4	4	4	0-255	Tilt Fine		127
					Fine Position		
5	5	5	5	0-255	Cyan		0
					0 → 100%		
		6	6	0-255	Cyan Fine		0
					Fine Saturation		
6	6	7	7	0-255	Magenta		0
					0 → 100%		
		8	8	0-255	Magenta Fine		0
					Fine Saturation		
7	7	9	9	0-255	Yellow		0
					0 → 100%		
		10	10	0-255	Yellow Fine		0
					Fine Saturation		
8	8	11	11	0-255	CTO		0
					Cold → Warm		
		12	12	0-255	CTO Fine		0
					Fine Saturation		
	9		13		CRI		127
				0-126	CRI 73 - 80		
				127	CRI 80 (Highest Output)		
				128-255	CRI 80 - 93		
9	10	13	14		Color	X	0
				0-7	Open		
				8-31	Red		
				32-55	Green		
				56-79	UV		
				80-103	Orange		
				104-127	Medium Blue		
					Scroll		
				128-189	Clockwise Fast → Slow		
				190-193	Stop		
194-255	Counter-clockwise Slow → Fast						
		14	15	0-255	Color Fine	X	0
					Position		

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Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value
10	11	15	16		Rotating Gobo 1	X	0
				0-9	Open		
				10-19	Gobo 1		
				20-29	Gobo 2		
				30-39	Gobo 3		
				40-49	Gobo 4		
				50-59	Gobo 5		
				60-69	Gobo 6		
				70-89	Gobo 1 shake slow to fast		
				90-109	Gobo 2 shake slow to fast		
				110-129	Gobo 3 shake slow to fast		
				130-149	Gobo 4 shake slow to fast		
				150-169	Gobo 5 shake slow to fast		
				170-189	Gobo 6 shake slow to fast		
					Scroll		
				190-221	Clockwise Fast → Slow		
				222-223	Stop		
224-255	Counter-clockwise Slow → Fast						
11	12	16	17		Rotating Gobo 1 Index/ Rotation		0
				0-127	Index Position		
					Rotate		
				128-189	Clockwise Fast → Slow		
				190-193	Stop		
194-255	Counter-clockwise Slow → Fast						
12	13	17	18	0-255	Rotating Gobo Index/ Rotation Fine Index Position		0
13	14	18	19		Rotating Gobo 2	X	0
				0-9	Open		
				10-19	Gobo 1		
				20-29	Gobo 2		
				30-39	Gobo 3		
				40-49	Gobo 4		
				50-59	Gobo 5		
				60-69	Gobo 6		
				70-77	Gobo 7		
				78-93	Gobo 1 shake slow to fast		
				94-109	Gobo 2 shake slow to fast		
				110-125	Gobo 3 shake slow to fast		
				126-141	Gobo 4 shake slow to fast		
				142-157	Gobo 5 shake slow to fast		
				158-173	Gobo 6 shake slow to fast		
				174-189	Gobo 7 shake slow to fast		
					Scroll		
190-221	Clockwise Fast → Slow						
222-223	Stop						
224-255	Counter-clockwise Slow → Fast						
14	15	19	20		Rotating Gobo 2 Index/ Rotation		0
				0-127	Index Position		
					Rotate		
				128-189	Clockwise Fast → Slow		
				190-193	Stop		
194-255	Counter-clockwise Slow → Fast						
15	16	20	21	0-255	Rotating Gobo 2 Index/ Rotation Fine Index Position		0

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Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value
16	17	21	22		Fixed Gobo	X	0
				0-9	Open		
				10-19	Gobo 1		
				20-29	Gobo 2		
				30-39	Gobo 3		
				40-49	Gobo 4		
				50-59	Gobo 5		
				60-69	Gobo 6		
				70-77	Gobo 7		
				78-93	Gobo 1 shake slow to fast		
				94-109	Gobo 2 shake slow to fast		
				110-125	Gobo 3 shake slow to fast		
				126-141	Gobo 4 shake slow to fast		
				142-157	Gobo 5 shake slow to fast		
				158-173	Gobo 6 shake slow to fast		
				174-189	Gobo 7 shake slow to fast		
					Scroll		
				190-221	Clockwise Fast → Slow		
222-223	Stop						
224-255	Counter-clockwise Slow → Fast						
		22	23	0-255	Fixed Gobo Fine Position		0
17	18	23	24		Rotating Prism 1	X	0
				0-63	Open		
				64-255	4-Facet		
18	19	24	25		Rotating Prism 1 Index/Rotation		0
				0-127	Index Position		
					Rotate		
				128-189	Clockwise Fast → Slow		
				190-193	Stop		
194-255	Counter-clockwise Slow → Fast						
		25	26	0-255	Rotating Prism 1 Index/Rotation Fine Position		0
19	20	26	27		Rotating Prism 2	X	0
				0-63	Open		
				64-255	4-Facet		
20	21	27	28		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						
		28	29	0-255	Rotating Prism 2 Index/Rotation Fine Position		0
21	22	29	30	0-255	Focus		127
					Infinity → Near		
22	23	30	31	0-255	Focus Fine		127
					Fine Adjustment		
23	24	31	32	0-255	Zoom		127
					Narrow → Wide		
24	25	32	33	0-255	Zoom Fine		127
					Fine Adjustment		

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Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value
					Auto Focus		
				0-4	Auto Focus Off		
				5-9	5.0m		
				10-14	5.2m		
				15-19	5.4m		
				20-24	5.6m		
				25-29	5.8m		
				30-34	6.0m		
				35-39	6.3m		
				40-44	6.5m		
				45-49	6.8m		
				50-54	7.0m		
				55-59	7.3m		
				60-64	7.5m		
				65-69	7.7m		
				70-74	8.0m		
				75-79	8.3m		
				80-84	8.5m		
				85-89	8.7m		
				90-94	9.0m		
				95-99	9.3m		
		33	34	100-104	9.5m		
				105-109	9.8m		
				110-114	10.0m		
				115-119	10.5m		
				120-124	11.0m		
				125-129	11.5m		
				130-134	12.0m		
				135-139	12.5m		
				140-144	13.0m		
				145-149	13.5m		
				150-154	14.0m		
				155-159	14.5m		
				160-164	15.0m		
				165-169	15.5m		
				170-174	16.0m		
				175-179	16.5m		
				180-184	17.0m		
				185-189	17.5m		
				190-194	18.0m		
				195-199	18.5m		
				200-204	19.0m		
				205-209	19.5m		
				210-214	20.0m		
				215-255	Idle		

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Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value
		34	35	0-255	AutoFocus Fine Fine Adjustment		0
25	26	35	36		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		
26	27	36	37	0-255	Dimmer Intensity 0 → 100%		0
27	28	37	38	0-255	Dimmer Fine Fine Adjustment		0
28	29	38	39		Dim Modes	X	0
				0-20	Standard		
				21-40	Stage		
				41-60	TV		
				61-80	Architectural		
				81-100	Theatre		
				101-120	Stage 2		
					Dimmer Delay Time		
				121	0s		
				122	0.1s		
				123	0.2s		
				124	0.3s		
				125	0.4s		
				126	0.5s		
				127	0.6s		
				128	0.7s		
				129	0.8s		
				130	0.9s		
				131	1.0s		
				132	1.5s		
				133	2.0s		
				134	3.0s		
				135	4.0s		
				136	5.0s		
				137	6.0s		
				138	7.0s		
				139	8.0s		
				140	9.0s		
				141	10s		
				142-255	Idle		
29	30	39	40		Iris		0
				0-191	Open → Close		
				192-223	Pulse Closing fast → slow		
				224-255	Pulse Opening slow → fast		
		40	41	0-255	Iris Fine Fine Adjustment		0
30	31	41	42	0-255	Frost 1 (Soft) Open → Max		0
31	32	42	43	0-255	Frost 2 (Wash) Open → Max		0

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Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value
32	33	43	44		Animation Wheel		0
				0-7	Open		
				8-255	Animation Min → Max		
33	34	44	45		Animation Index		64
				0-127	Position		
					Scroll		
				128-189	Clockwise Fast → Slow		
				190-193	Stop		
	194-255	Counter-clockwise Slow → Fast					
		45	46	0-255	Color Macro Speed		0
					Max → Min Speed		
		46	47		Color Macros	X	0
				0-31	OFF		
				32-39	Macro1		
				40-47	Macro2		
				48-55	Macro3		
				56-63	Macro4		
				64-71	Macro5		
				72-79	Macro6		
				80-87	Macro7		
				88-95	Macro8		
				96-103	Macro9		
				104-111	Macro10		
				112-119	Macro11		
				120-127	Macro12		
				128-135	Macro13		
				136-143	Macro14		
				144-151	Macro15		
				152-159	Macro16		
				160-167	Macro17		
				168-175	Macro18		
				176-183	Macro19		
				184-191	Macro20		
				192-199	Macro21		
				200-207	Macro22		
				208-215	Macro23		
				216-223	Macro24		
				224-231	Macro25		
				232-239	Macro26		
		240-247	Macro27				
		248-255	Random CMY				

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Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value	
34	35	47	48	0-255	Blade 1 A		0	
					Open → Closed			
		48	49	0-255	Blade 1 A Fine		0	
					Fine Adjustment			
35	36	49	50	0-255	Blade 1 B		0	
					Open → Closed			
		50	51	0-255	Blade 1 B Fine		0	
					Fine Adjustment			
36	37	51	52	0-255	Blade 2 A		0	
					Open → Closed			
		52	53	0-255	Blade 2 A Fine		0	
					Fine Adjustment			
37	38	53	54	0-255	Blade 2 B		0	
					Open → Closed			
		54	55	0-255	Blade 2 B Fine		0	
					Fine Adjustment			
38	39	55	56	0-255	Blade 3 A		0	
					Open → Closed			
		56	57	0-255	Blade 3 A Fine		0	
					Fine Adjustment			
39	40	57	58	0-255	Blade 3 B		0	
					Open → Closed			
		58	59	0-255	Blade 3 B Fine		0	
					Fine Adjustment			
40	41	59	60	0-255	Blade 4 A		0	
					Open → Closed			
		60	61	0-255	Blade 4 A Fine		0	
					Fine Adjustment			
41	42	61	62	0-255	Blade 4 B		0	
					Open → Closed			
		62	63	0-255	Blade 4 B Fine		0	
					Fine Adjustment			
42	43	63	64		Framing Rotation		127	
					0-126			Min (-45°)
					127-128			Parallel (0°)
					129-255			Max (+45°)
		64	65	0-255	Framing Rotation Fine		0	
					Fine Adjustment			
		65	66	0-255	Framing Macro Speed		0	
					Max → Min Speed			

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Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value
					Framing Macro		
				0-7	OFF		
				8-15	Macro1		
				16-23	Macro2		
				24-31	Macro3		
				32-39	Macro4		
				40-47	Macro5		
				48-55	Macro6		
				56-63	Macro7		
				64-71	Macro8		
				72-79	Macro9		
				80-87	Macro10		
				88-95	Macro11		
				96-103	Macro12		
				104-111	Macro13		
				112-119	Macro14		
		66	67	120-127	Macro15	X	0
				128-135	Macro16		
				136-143	Macro17		
				144-151	Macro18		
				152-159	Macro19		
				160-167	Macro20		
				168-175	Macro21		
				176-183	Macro22		
				184-191	Macro23		
				192-199	Macro24		
				200-207	Macro25		
				208-215	Macro26		
				216-223	Macro27		
				224-231	Macro28		
				232-239	Macro29		
				240-247	Macro30		
				248-255	Macro31		
					Pan / Tilt Speed		
				0-225	Max → Min Speed		
		67	68	226-235	Blackout by movement	X	0
				236-245	Blackout by wheel changes		
				246-255	No function		
					Control		
				0-19	Wheel Snap		
				20-29	Color Wheel Fade		
				30-39	Color/Gobo Wheel Fade		
					Fan Mode		
				40-44	Mute		
				45-49	Studio		
				50-59	Low		
43	44	68	69	60-69	High		
				70-79	Auto (default)		
					Reset		
				80-84	Fixture		
				85-87	Pan Tilt		
				88-90	Color		
				91-93	Gobo		
				94-96	Focus Zoom		
				97-99	Other Features		

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Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value
43	44	68	69		Refresh Rate (Hz)	X	0
				100	900		
				101	910		
				102	920		
				103	930		
				104	940		
				105	950		
				106	960		
				107	970		
				108	980		
				109	990		
				110	1000		
				111	1010		
				112	1020		
				113	1030		
				114	1040		
				115	1050		
				116	1060		
				117	1070		
				118	1080		
				119	1090		
				120	1100		
				121	1110		
				122	1120		
				123	1130		
				124	1140		
				125	1150		
				126	1160		
				127	1170		
				128	1180		
				129	1190		
				130	1200 (default)		
131	1210						
132	1220						
133	1230						
134	1240						
135	1250						
136	1260						
137	1270						
138	1280						
139	1290						
140	1300						
141	1310						

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Std. CRI 80	Std. Flex CRI	Ext. CRI 80	Ext. Flex CRI	Value	Function	Snap	Default Value
				142	1320		
				143	1330		
				144	1340		
				145	1350		
				146	1360		
				147	1370		
				148	1380		
				149	1390		
				150	1400		
				151	1410		
				152	1420		
				153	1430		
				154	1440		
				155	1450		
				156	1460		
				157	1470		
				158	1480		
				159	1490		
				160	1500		
				161	2500		
				162	4000		
		68	69	163	5000	X	0
				164	6000		
				165	10000		
				166	15000		
				167	20000		
				168	25000		
				169-170	Cmy Smooth		
				171-172	Cmy Fast		
				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		