

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

ELATION PROTEUS RAYZOR 1960 DMX Channel Traits						
Supports Software Versions: 2.0.0						
Features subject to change without notice. Rotation direction (clockwise/counter-clockwise) and control of effects depends on head orientation and pan/tilt settings.						
CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
1	1	1	000 - 255	Pan Movement	Fade	127
2	2	2	000 - 255	Pan Fine Movement	Fade	127
3	3	3	000 - 255	Tilt Movement	Fade	127
4	4	4	000 - 255	Tilt Fine Movement	Fade	127
5	5	5		Pan Rotate	Fade	0
			000 - 002	Disabled		
			003 - 126	Clockwise Rotation, fast to slow		
			127 - 129	No Rotation (fixture stops at current position)		
			130 - 253	Counter-Clockwise Rotation, slow to fast		
	254 - 255	No Rotation (fixture stops at current position)				
6	6	6		Tilt Rotate	Fade	0
			000 - 002	Disabled		
			003 - 126	Clockwise Rotation, fast to slow		
			127 - 129	No Rotation (fixture stops at current position)		
			130 - 253	Counter-Clockwise Rotation, slow to fast		
	254 - 255	No Rotation (fixture stops at current position)				
7	7	7		CTC	Fade	0
			000 - 010	Disabled		
			011 - 171	Color Temperature, 100K steps from 2000K to 10,000K (see CTC Table section of this manual)		
	172 - 255	10,000K				
8	8	8		Color Wheel	Snap	0
			000 - 009	Open		
			010 - 014	Red		
			015 - 019	Red Orange		
			020 - 024	Light Amber		
			025 - 029	Yellow Amber		
			030 - 034	Greenish Yellow		
			035 - 039	Light Yellow Green		
			040 - 044	Dark Yellow Green		
045 - 049	Green					

CONTINUED ON NEXT PAGE

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
8	8	8		Color Wheel (continued)	Snap	0
			050 - 054	Teal		
			055 - 059	Cyan		
			060 - 064	Light Blue		
			065 - 069	Aqua		
			070 - 074	Dark Aqua		
			075 - 079	Green Blue		
			080 - 084	Light Lavender		
			085 - 089	Dark Purple		
			090 - 094	Medium Purple		
			095 - 099	Mid Rose		
			100 - 104	Mauve		
			105 - 109	Nice Magenta		
			110 - 114	Warm Magenta		
			115 - 119	Light Red		
			120 - 124	Straw		
			125 - 129	Dark CTB		
			130 - 134	Light Green		
			135 - 139	Purple		
			140 - 144	Lighter Purple		
			145 - 149	Pink		
			150 - 154	Rose		
			155 - 159	White		
			164 - 174	No Function		
			175 - 179	Open		
				Color Scroll		
			180 - 201	Clockwise Scroll, fast to slow		
			202 - 207	Stop		
			208 - 229	Counter-Clockwise Scroll, slow to fast		
			230 - 234	Open		
	Random Slots					
235 - 239	Fast					
240 - 244	Medium					
245 - 249	Slow					
250 - 255	Open					

CONTINUED ON NEXT PAGE

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
9	9	9		Strobe	Snap	50
			000 - 031	Shutter Closed		
			032 - 063	Shutter Open		
			064 - 095	Strobe, slow to fast		
			096 - 127	Fast Close, Slow Open		
			128 - 159	Fast Open, Slow Close		
			160 - 191	Pulse Effects		
			192 - 223	Random Strobe, slow to fast		
		224 - 255	Shutter Open			
10	10	10	000 - 255	Dimmer , 0% to 100%	Fade	0
11	11	11	000 - 255	Dimmer Fine	Fade	0
12	12	12		Dim Modes	Snap	0
			000 - 020	Standard		
			021 - 040	Stage		
			041 - 060	TV		
			061 - 080	Architectural		
			081 - 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	10.0s					
		142 - 255	Idle			

CONTINUED ON NEXT PAGE

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
13	13	13		Zoom	Fade	0
			000 - 245	Zoom, wide to narrow		
			246 - 255	Overdrive, minimum to maximum		
	14	14	000 - 255	Zoom Fine	Fade	0
	15	15		Pan/Tilt Speed	Snap	0
			000 - 225	Speed, maximum to minimum		
			226 - 235	Blackout when pan/tilt moves		
			236 - 245	Blackout when all wheels change		
			246 - 255	No function		
14	16	16		Control	Snap	0
			000 - 010	Idle		
			011 - 012	Pan/Tilt Shortest Path		
			013 - 014	Pan/Tilt Continue Path (default)		
			015 - 016	Pan Range 540 (default)		
			017 - 018	Pan Range 360		
			019 - 020	Tilt Range 270 (default)		
			021 - 022	Tilt Range 360		
			023 - 039	Idle		
			040 - 044	Fan Mode Mute		
			045 - 049	Fan Mode Studio		
			050 - 059	Fan Mode Silent		
			060 - 069	Fan Mode High		
			070 - 079	Fan Mode Auto (default)		
			080 - 084	Reset All		
			085 - 087	Reset Movement		
			088 - 091	Reset Zoom		
			092 - 099	Idle		
				Refresh Rate (Hz)		
			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					

CONTINUED ON NEXT PAGE

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
14	16	16		Refresh (Hz) (continued)	Snap	0
			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		
			131	1210		
			132	1220		
			133	1230		
			134	1240		
			135	1250		
			136	1260		
			137	1270		
			138	1280		
			139	1290		
			140	1300		
			141	1310		
			142	1320		
			143	1330		
			144	1340		
			145	1350		
146	1360					
147	1370					
148	1380					
149	1390					
150	1400					
151	1410					
152	1420					

CONTINUED ON NEXT PAGE

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
14	16	16		Refresh (Hz) (continued)	Snap	0
			153	1430		
			154	1440		
			155	1450		
			156	1460		
			157	1470		
			158	1480		
			159	1490		
			160	1500		
			161	2500		
			162	4000		
			163	5000		
			164	6000		
			165	10000		
			166	15000		
			167	20000		
			168	25000		
			169 - 192	Idle		
			193 - 194	Hibernate Off		
			195 - 196	Hibernate On		
			197 - 198	Sun Protection On		
			199 - 200	Sun Protection Off		
			201 - 210	Dimmer Curve Linear (default)		
			211 - 220	Dimmer Curve Square		
			221 - 230	Dimmer Curve Inverse Square		
			231 - 240	Dimmer Curve S-Curve		
			241 - 242	Zoom Speed - Slow		
			243 - 244	Zoom Speed - Fast (default)		
245 - 249	Idle					
250 - 251	Display Off					
252 - 253	Display On					
254 - 255	Idle					
15	17	17	000 - 255	RGBW FX (see RGBW Pixel FX Table section of this manual)	Snap	0
16	18	18		RGBW FX Speed	Fade	160
			000 - 126	Reverse, fast to slow		
			127 - 128	Stop		
			129 - 255	Forward, slow to fast		
17	19	19	000 - 255	Spark LED FX (see Spark LED FX Table section of this manual)	Snap	0

CONTINUED ON NEXT PAGE

RELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
18	20	20		Spark LED FX Speed	Fade	160
			000 - 126	Reverse, fast to slow		
			127 - 128	Stop		
			129 - 255	Forward, slow to fast		
19	21	21		FX Offset	Snap	0
			000	Idle		
			001 - 035	Fixture Offset, 10 degrees to 350 degrees		
			036	Synchronized		
			037 - 100	No Function		
			101 - 120	Random Fixture Offset		
			121 - 140	Random Pixel Order		
			141 - 255	Random Steps		
20	22	22	000 - 255	Red , 0% to 100%	Fade	255
21	23	23	000 - 255	Green , 0% to 100%	Fade	255
22	24	24	000 - 255	Blue , 0% to 100%	Fade	255
23	25	25	000 - 255	White , 0% to 100%	Fade	255
	26	26	000 - 255	Red 2 , 0% to 100%	Fade	255
	27	27	000 - 255	Green 2 , 0% to 100%	Fade	255
	28	28	000 - 255	Blue 2 , 0% to 100%	Fade	255
	29	29	000 - 255	White 2 , 0% to 100%	Fade	255
	30	30	000 - 255	Red 3 , 0% to 100%	Fade	255
	31	31	000 - 255	Green 3 , 0% to 100%	Fade	255
	32	32	000 - 255	Blue 3 , 0% to 100%	Fade	255
	33	33	000 - 255	White 3 , 0% to 100%	Fade	255
	34	34	000 - 255	Red 4 , 0% to 100%	Fade	255
	35	35	000 - 255	Green 4 , 0% to 100%	Fade	255
	36	36	000 - 255	Blue 4 , 0% to 100%	Fade	255
	37	37	000 - 255	White 4 , 0% to 100%	Fade	255
	38	38	000 - 255	Red 5 , 0% to 100%	Fade	255
	39	39	000 - 255	Green 5 , 0% to 100%	Fade	255
	40	40	000 - 255	Blue 5 , 0% to 100%	Fade	255
	41	41	000 - 255	White 5 , 0% to 100%	Fade	255
	42	42	000 - 255	Red 6 , 0% to 100%	Fade	255
	43	43	000 - 255	Green 6 , 0% to 100%	Fade	255
	44	44	000 - 255	Blue 6 , 0% to 100%	Fade	255
	45	45	000 - 255	White 6 , 0% to 100%	Fade	255
	46	46	000 - 255	Red 7 , 0% to 100%	Fade	255
	47	47	000 - 255	Green 7 , 0% to 100%	Fade	255
	48	48	000 - 255	Blue 7 , 0% to 100%	Fade	255
	49	49	000 - 255	White 7 , 0% to 100%	Fade	255

CONTINUED ON NEXT PAGE

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
	50	50	000 - 255	Red 8 , 0% to 100%	Fade	255
	51	51	000 - 255	Green 8 , 0% to 100%	Fade	255
	52	52	000 - 255	Blue 8 , 0% to 100%	Fade	255
	53	53	000 - 255	White 8 , 0% to 100%	Fade	255
	54	54	000 - 255	Red 9 , 0% to 100%	Fade	255
	55	55	000 - 255	Green 9 , 0% to 100%	Fade	255
	56	56	000 - 255	Blue 9 , 0% to 100%	Fade	255
	57	57	000 - 255	White 9 , 0% to 100%	Fade	255
	58	58	000 - 255	Red 10 , 0% to 100%	Fade	255
	59	59	000 - 255	Green 10 , 0% to 100%	Fade	255
	60	60	000 - 255	Blue 10 , 0% to 100%	Fade	255
	61	61	000 - 255	White 10 , 0% to 100%	Fade	255
	62	62	000 - 255	Red 11 , 0% to 100%	Fade	255
	63	63	000 - 255	Green 11 , 0% to 100%	Fade	255
	64	64	000 - 255	Blue 11 , 0% to 100%	Fade	255
	65	65	000 - 255	White 11 , 0% to 100%	Fade	255
	66	66	000 - 255	Red 12 , 0% to 100%	Fade	255
	67	67	000 - 255	Green 12 , 0% to 100%	Fade	255
	68	68	000 - 255	Blue 12 , 0% to 100%	Fade	255
	69	69	000 - 255	White 12 , 0% to 100%	Fade	255
	70	70	000 - 255	Red 13 , 0% to 100%	Fade	255
	71	71	000 - 255	Green 13 , 0% to 100%	Fade	255
	72	72	000 - 255	Blue 13 , 0% to 100%	Fade	255
	73	73	000 - 255	White 13 , 0% to 100%	Fade	255
	74	74	000 - 255	Red 14 , 0% to 100%	Fade	255
	75	75	000 - 255	Green 14 , 0% to 100%	Fade	255
	76	76	000 - 255	Blue 14 , 0% to 100%	Fade	255
	77	77	000 - 255	White 14 , 0% to 100%	Fade	255
	78	78	000 - 255	Red 15 , 0% to 100%	Fade	255
	79	79	000 - 255	Green 15 , 0% to 100%	Fade	255
	80	80	000 - 255	Blue 15 , 0% to 100%	Fade	255
	81	81	000 - 255	White 15 , 0% to 100%	Fade	255
	82	82	000 - 255	Red 16 , 0% to 100%	Fade	255
	83	83	000 - 255	Green 16 , 0% to 100%	Fade	255
	84	84	000 - 255	Blue 16 , 0% to 100%	Fade	255
	85	85	000 - 255	White 16 , 0% to 100%	Fade	255
	86	86	000 - 255	Red 17 , 0% to 100%	Fade	255
	87	87	000 - 255	Green 17 , 0% to 100%	Fade	255
	88	88	000 - 255	Blue 17 , 0% to 100%	Fade	255
	89	89	000 - 255	White 17 , 0% to 100%	Fade	255
	90	90	000 - 255	Red 18 , 0% to 100%	Fade	255

CONTINUED ON NEXT PAGE

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
	91	91	000 - 255	Green 18 , 0% to 100%	Fade	255
	92	92	000 - 255	Blue 18 , 0% to 100%	Fade	255
	93	93	000 - 255	White 18 , 0% to 100%	Fade	255
	94	94	000 - 255	Red 19 , 0% to 100%	Fade	255
	95	95	000 - 255	Green 19 , 0% to 100%	Fade	255
	96	96	000 - 255	Blue 19 , 0% to 100%	Fade	255
	97	97	000 - 255	White 19 , 0% to 100%	Fade	255
24	98	98		Spark LED Strobe	Snap	50
			000 - 031	Shutter Closed		
			032 - 063	Shutter Open		
			064 - 095	Strobe, slow to fast		
			096 - 127	Fast Close, Slow Open		
			128 - 159	Fast Open, Slow Close		
			160 - 191	Pulse Effects		
			192 - 222	Random Strobe All, slow to fast		
			223 - 254	Random Strobe Pixels, slow to fast		
255	Sync Dim and Strobe with Main					
25	99	99	000 - 255	Spark LED Dimmer , 0% to 100%	Fade	0
	100	100	000 - 255	Spark LED Dimmer Fine	Fade	0
		101	000 - 255	Spark LED Dimmer 1 , 0% to 100%	Fade	255
		102	000 - 255	Spark LED Dimmer 2 , 0% to 100%	Fade	255
		103	000 - 255	Spark LED Dimmer 3 , 0% to 100%	Fade	255
		104	000 - 255	Spark LED Dimmer 4 , 0% to 100%	Fade	255
		105	000 - 255	Spark LED Dimmer 5 , 0% to 100%	Fade	255
		106	000 - 255	Spark LED Dimmer 6 , 0% to 100%	Fade	255
		107	000 - 255	Spark LED Dimmer 7 , 0% to 100%	Fade	255
		108	000 - 255	Spark LED Dimmer 8 , 0% to 100%	Fade	255
		109	000 - 255	Spark LED Dimmer 9 , 0% to 100%	Fade	255
		110	000 - 255	Spark LED Dimmer 10 , 0% to 100%	Fade	255
		111	000 - 255	Spark LED Dimmer 11 , 0% to 100%	Fade	255
		112	000 - 255	Spark LED Dimmer 12 , 0% to 100%	Fade	255
		113	000 - 255	Spark LED Dimmer 13 , 0% to 100%	Fade	255
		114	000 - 255	Spark LED Dimmer 14 , 0% to 100%	Fade	255
		115	000 - 255	Spark LED Dimmer 15 , 0% to 100%	Fade	255
		116	000 - 255	Spark LED Dimmer 16 , 0% to 100%	Fade	255
		117	000 - 255	Spark LED Dimmer 17 , 0% to 100%	Fade	255
		118	000 - 255	Spark LED Dimmer 18 , 0% to 100%	Fade	255
		119	000 - 255	Spark LED Dimmer 19 , 0% to 100%	Fade	255
		120	000 - 255	Spark LED Dimmer 20 , 0% to 100%	Fade	255
		121	000 - 255	Spark LED Dimmer 21 , 0% to 100%	Fade	255
		122	000 - 255	Spark LED Dimmer 22 , 0% to 100%	Fade	255

CONTINUED ON NEXT PAGE

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
		123	000 - 255	Spark LED Dimmer 23, 0% to 100%	Fade	255
		124	000 - 255	Spark LED Dimmer 24, 0% to 100%	Fade	255
		125	000 - 255	Spark LED Dimmer 25, 0% to 100%	Fade	255
		126	000 - 255	Spark LED Dimmer 26, 0% to 100%	Fade	255
		127	000 - 255	Spark LED Dimmer 27, 0% to 100%	Fade	255
		128	000 - 255	Spark LED Dimmer 28, 0% to 100%	Fade	255
		129	000 - 255	Spark LED Dimmer 29, 0% to 100%	Fade	255
		130	000 - 255	Spark LED Dimmer 30, 0% to 100%	Fade	255
		131	000 - 255	Spark LED Dimmer 31, 0% to 100%	Fade	255
		132	000 - 255	Spark LED Dimmer 32, 0% to 100%	Fade	255
		133	000 - 255	Spark LED Dimmer 33, 0% to 100%	Fade	255
		134	000 - 255	Spark LED Dimmer 34, 0% to 100%	Fade	255
		135	000 - 255	Spark LED Dimmer 35, 0% to 100%	Fade	255
		136	000 - 255	Spark LED Dimmer 36, 0% to 100%	Fade	255
		137	000 - 255	Spark LED Dimmer 37, 0% to 100%	Fade	255
		138	000 - 255	Spark LED Dimmer 38, 0% to 100%	Fade	255
		139	000 - 255	Spark LED Dimmer 39, 0% to 100%	Fade	255
		140	000 - 255	Spark LED Dimmer 40, 0% to 100%	Fade	255
		141	000 - 255	Spark LED Dimmer 41, 0% to 100%	Fade	255
		142	000 - 255	Spark LED Dimmer 42, 0% to 100%	Fade	255
		143	000 - 255	Spark LED Dimmer 43, 0% to 100%	Fade	255
		144	000 - 255	Spark LED Dimmer 44, 0% to 100%	Fade	255
		145	000 - 255	Spark LED Dimmer 45, 0% to 100%	Fade	255
		146	000 - 255	Spark LED Dimmer 46, 0% to 100%	Fade	255
		147	000 - 255	Spark LED Dimmer 47, 0% to 100%	Fade	255
		148	000 - 255	Spark LED Dimmer 48, 0% to 100%	Fade	255
		149	000 - 255	Spark LED Dimmer 49, 0% to 100%	Fade	255
		150	000 - 255	Spark LED Dimmer 50, 0% to 100%	Fade	255
		151	000 - 255	Spark LED Dimmer 51, 0% to 100%	Fade	255
		152	000 - 255	Spark LED Dimmer 52, 0% to 100%	Fade	255
		153	000 - 255	Spark LED Dimmer 53, 0% to 100%	Fade	255
		154	000 - 255	Spark LED Dimmer 54, 0% to 100%	Fade	255
		155	000 - 255	Spark LED Dimmer 55, 0% to 100%	Fade	255
		156	000 - 255	Spark LED Dimmer 56, 0% to 100%	Fade	255
		157	000 - 255	Spark LED Dimmer 57, 0% to 100%	Fade	255
		158	000 - 255	Spark LED Dimmer 58, 0% to 100%	Fade	255
		159	000 - 255	Spark LED Dimmer 59, 0% to 100%	Fade	255
		160	000 - 255	Spark LED Dimmer 60, 0% to 100%	Fade	255
		161	000 - 255	Spark LED Dimmer 61, 0% to 100%	Fade	255
		162	000 - 255	Spark LED Dimmer 62, 0% to 100%	Fade	255
		163	000 - 255	Spark LED Dimmer 63, 0% to 100%	Fade	255

CONTINUED ON NEXT PAGE

ELATION PROTEUS RAYZOR 1960 - DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	PIXELS	EXTENDED				
		164	000 - 255	Spark LED Dimmer 64 , 0% to 100%	Fade	255
		165	000 - 255	Spark LED Dimmer 65 , 0% to 100%	Fade	255
		166	000 - 255	Spark LED Dimmer 66 , 0% to 100%	Fade	255
		167	000 - 255	Spark LED Dimmer 67 , 0% to 100%	Fade	255
		168	000 - 255	Spark LED Dimmer 68 , 0% to 100%	Fade	255
		169	000 - 255	Spark LED Dimmer 69 , 0% to 100%	Fade	255
		170	000 - 255	Spark LED Dimmer 70 , 0% to 100%	Fade	255
		171	000 - 255	Spark LED Dimmer 71 , 0% to 100%	Fade	255
		172	000 - 255	Spark LED Dimmer 72 , 0% to 100%	Fade	255
		173	000 - 255	Spark LED Dimmer 73 , 0% to 100%	Fade	255
		174	000 - 255	Spark LED Dimmer 74 , 0% to 100%	Fade	255
		175	000 - 255	Spark LED Dimmer 75 , 0% to 100%	Fade	255
		176	000 - 255	Spark LED Dimmer 76 , 0% to 100%	Fade	255