

DMX CHANNEL FUNCTIONS AND VALUES

ELATION PROTEUS RAYZOR 760™

DMX Channel Values / Functions (80 Total DMX Channels)

Supports Software Versions: ≥ 1.1.1F

Features subject to change without notice.

*Rotation direction (Clockwise/Counterclockwise) and control of effects depends on head orientation and Pan/Tilt settings.

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value
Main Fixture Control							
1	1	1			PAN	Fade	127
				0-255	Movement		
2	2	2			PAN FINE	Fade	127
				0-255	Fine Movement		
3	3	3			TILT	Fade	127
				0-255	Movement		
4	4	4			TILT FINE	Fade	127
				0-255	Fine Movement		
5	5	5			PAN ROTATE	Fade	0
				0-2	Disabled		
				3-126	Rotating CW Fast to Slow		
				127-129	NO Rotation (Fixture stops at its current position)		
				130-253	Rotating CCW Slow to Fast		
6	6	6			PAN ROTATE	Fade	0
			0-2	Disabled			
			3-126	Rotating CW Fast to Slow			
			127-129	NO Rotation (Fixture stops at its current position)			
			130-253	Rotating CCW Slow to Fast			
7	7	7		TILT ROTATE	Fade	0	
			0-2	Disabled			
			3-126	Rotating CW Fast to Slow			
			127-129	NO Rotation (Fixture stops at its current position)			
				CTC	Fade	0	
			0-10	Disabled			
			11-171	Color Temperature (100K Steps) 2,000K to 10,000K (See CTC Table)			
				172-255	10,000K		

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value
8	8	8			COLOR WHEEL	Snap	0
				0-9	Open		
				10-14	Red		
				15-19	Red Orange		
				20-24	Light Amber		
				25-29	Yellow Amber		
				30-34	Greenish Yellow		
				35-39	Light Yellow Green		
				40-44	Dark Yellow Green		
				45-49	Green		
				50-54	Teal		
				55-59	Cyan		
				60-64	Light Blue		
				65-69	Aqua		
				70-74	Dark Aqua		
				75-79	Green Blue		
				80-84	Light Lavender		
				85-89	Dark Purple		
				90-94	Medium Purple		
				95-99	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		
				160-164	TBD		
165-169	TBD						
170-174	TBD						
175-179	Open						
	COLOR SCROLL						
180-201	CW Fast to Slow						
202-207	Stop						
208-229	CCW Slow to Fast						
230-234	Open						
	RANDOM SLOTS						
235-239	Fast						
240-244	Medium						
245-249	Slow						
250-255	Open						

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value
9	9	9			STROBE	Snap	50
				0-31	Shutter Closed		
				32-63	Shutter Open		
				64-95	Strobe Slow to Fast		
				96-127	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		DIMMER	Fade	0	
				0-255	0 → 100%		
11	11	11		DIMMER FINE	Fade	0	
				0-255	Fine Dimming		
12	12	12			DIM MODES	Snap	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						

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value
13	13	13			ZOOM	Fade	128
				0 -215	Zoom Wide to Narrow		
				216-255	Overdrive Min to Max		
13	13	13			UPDATED WITH SOFTWARE UPDATE VERSION 1.3	Fade	0
					ZOOM		
				0-245	Zoom Wide to Narrow		
				246-255	Overdrive Min to Max		
	14	14			ZOOM FINE	Fade	0
				0-255	Fine Zoom		
	15	15			PAN / TILT SPEED	Snap	0
				0-225	Max to Min Speed		
				226-235	Blackout When Pan / Tilt Moves		
				236-245	Blackout When All Wheels Change		
				246-255	No Function		

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value
14	16	16			CONTROL	Snap	0
				0-10	Idle		
				11-12	PanTilt Shortest Path		
				13-14	PanTilt Continue Path		
				15-16	Pan Range 540		
				17-18	Pan Range 360		
				19-20	Tilt Range 270		
				21-22	Tilt Range 360		
				23-39	Idle		
				40-59	Fan Mode Silent		
				60-79	Fan Mode Auto		
				80-84	Reset All		
				85-87	Reset Movement		
				88-91	Reset Zoom		
				92-100	Idle		
				100-168	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		
				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					

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value
14	16	16			CONTROL	Snap	0
				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		
				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						

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value
14	16	16		169-200	Idle	Snap	0
				ADDED WITH SOFTWARE UPDATE VERSION ≥1.1.1			
				169-192	Idle		
				193-194	Hibernate Off		
				195-196	Hibernate		
				197-198	Home Position Before Power Off		
				199-200	Home Position Off		
				UPDATED WITH SOFTWARE UPDATE VERSION 1.3			
				169-192	Idle		
				193-194	Hibernate Off		
				195-196	Hibernate		
				197-200	Idle		
				201-210	Dimmer Curve Linear (default)		
				211-220	Dimmer Curve Square		
				221-230	Dimmer Curve Inverse Square		
231-240	Dimmer Curve S-Curve						
241-255	Idle						
15	17	17		RGBW FX (See Table)		Snap	0
				0-255	FX Selection 1 -255		
16	18	18		RGBW FX SPEED		Fade	160
				0-126	Rev Fast to Slow		
				127-128	Stop		
17	19	19		SparkLED FX (See Table)		Snap	0
				0-255	FX Selection 1 -255		
				SparkLED FX SPEED			
18	20	20		0-126	Rev Fast to Slow	Fade	160
				127-128	Stop		
				129-255	Slow to Fast		
19	21	21		FX OFFSET		Snap	0
				0	NO Sync		
				1	Fixture Offset 10 Degree		
				2	Fixture Offset 20 Degree		
				3-34	Fixture Offset...		
				35	Fixture Offset 350 Degree		
				36	Synchronized		
				37-100	No Function		
				101-120	Random Fixtures		
121-140	Random Duration						
141-255	Random Pixels						

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value
RGBW Pixel Control							
20	22	22			Red	Fade	255
				0-255	0 → 100%		
21	23	23			Green	Fade	255
				0-255	0 → 100%		
22	24	24			Blue	Fade	255
				0-255	0 → 100%		
23	25	25			White	Fade	255
				0-255	0 → 100%		
	26	26			Red 2	Fade	255
				0-255	0 → 100%		
	27	27			Green 2	Fade	255
				0-255	0 → 100%		
	28	28			Blue 2	Fade	255
				0-255	0 → 100%		
	29	29			White 2	Fade	255
				0-255	0 → 100%		
	30	30			Red 3	Fade	255
				0-255	0 → 100%		
	31	31			Green 3	Fade	255
				0 - 255	0 → 100%		
	32	32			Blue 3	Fade	255
				0-255	0 → 100%		
	33	33			White 3	Fade	255
				0 - 255	0 → 100%		
	34	34			Red 4	Fade	255
				0-255	0 → 100%		
	35	35			Green 4	Fade	255
				0-255	0 → 100%		
	36	36			Blue 4	Fade	255
				0-255	0 → 100%		
	37	37			White 4	Fade	255
				0-255	0 → 100%		

Standard	Pixels	Extended		Value	Function	Fade Status	Default Value
RGBW Pixel Control							
	38	38			Red 5	Fade	255
				0-255	0 → 100%		
	39	39			Green 5	Fade	255
				0-255	0 → 100%		
	40	40			Blue 5	Fade	255
				0-255	0 → 100%		
	41	41			White 5	Fade	255
				0-255	0 → 100%		
	42	42			Red 6	Fade	255
				0-255	0 → 100%		
	43	43			Green 6	Fade	255
				0-255	0 → 100%		
	44	44			Blue 6	Fade	255
				0-255	0 → 100%		
	45	45			White 6	Fade	255
				0-255	0 → 100%		
	46	46			Red 7	Fade	255
				0-255	0 → 100%		
	47	47			Green 7	Fade	255
				0-255	0 → 100%		
	48	48			Blue 7	Fade	255
				0-255	0 → 100%		
	49	49			White 7	Fade	255
				0-255	0 → 100%		

Standard	Pixels	Extended	SparkLED	Value	Function	Fade Status	Default Value
SparkLED Control							
SparkLED is not available as a mode in the fixture menu but must be provided as a console control profile for easy programming of the fixture. Use the Rayzor 760 in Extended mode and patch appropriate parts of the RGBW Pixels and SparkLED fixtures on your control system to access all 80 channels. See the Lighting Console Patch Guidelines section for further instructions.							
24	50	50			STROBE	Snap	50
				0-31	Shutter CLOSED		
				32-63	Shutter OPEN		
				64-95	Strobe SLOW to FAST		
				96-127	FAST Close, SLOW Open		
				128-159	FAST Open, SLOW Close		
				160-191	Pulse Effects		
				192-223	Random Strobe ALL SLOW to FAST		
				224-254	Random Strobe Pixels SLOW to FAST		
				255	Sync Dimmer and Strobe with Main		
25	51	51			DIMMER	Fade	0
				0-255	0 → 100%		
	52	52			DIMMER FINE	Fade	0
				0-255	Fine Dimming		
		53	1		SparkLED #1 Dimmer	Fade	255
				0-255	0 → 100%		
		54	2		SparkLED #2 Dimmer	Fade	255
				0-255	0 → 100%		
		55	3		SparkLED #3 Dimmer	Fade	255
				0-255	0 → 100%		
		56	4		SparkLED #4 Dimmer	Fade	255
				0-255	0 → 100%		
		57	5		SparkLED #5 Dimmer	Fade	255
				0-255	0 → 100%		
		58	6		SparkLED #6 Dimmer	Fade	255
				0-255	0 → 100%		
		59	7		SparkLED #7 Dimmer	Fade	255
				0-255	0 → 100%		
		60	8		SparkLED #8 Dimmer	Fade	255
				0-255	0 → 100%		
		61	9		SparkLED #9 Dimmer	Fade	255
				0-255	0 → 100%		
		62	10		SparkLED #10 Dimmer	Fade	255
				0-255	0 → 100%		
		63	11		SparkLED #11 Dimmer	Fade	255
				0-255	0 → 100%		
		64	12		SparkLED #12 Dimmer	Fade	255
				0-255	0 → 100%		
		65	13		SparkLED #13 Dimmer	Fade	255
				0-255	0 → 100%		
		66	14		SparkLED #14 Dimmer	Fade	255
				0-255	0 → 100%		

Standard	Pixels	Extended	SparkLED	Value	Function	Fade Status	Default Value
SparkLED Control							
		67	15		SparkLED #15 Dimmer	Fade	255
				0-255	0 → 100%		
		68	16		SparkLED #16 Dimmer	Fade	255
				0-255	0 → 100%		
		69	17		SparkLED #17 Dimmer	Fade	255
				0-255	0 → 100%		
		70	18		SparkLED #18 Dimmer	Fade	255
				0-255	0 → 100%		
		71	19		SparkLED #19 Dimmer	Fade	255
				0-255	0 → 100%		
		72	20		SparkLED #20 Dimmer	Fade	255
				0-255	0 → 100%		
		73	21		SparkLED #21 Dimmer	Fade	255
				0-255	0 → 100%		
		74	22		SparkLED #22 Dimmer	Fade	255
				0-255	0 → 100%		
		75	23		SparkLED #23 Dimmer	Fade	255
				0-255	0 → 100%		
		76	24		SparkLED #24 Dimmer	Fade	255
				0-255	0 → 100%		
		77	25		SparkLED #25 Dimmer	Fade	255
				0-255	0 → 100%		
		78	26		SparkLED #26 Dimmer	Fade	255
				0-255	0 → 100%		
		79	27		SparkLED #27 Dimmer	Fade	255
				0-255	0 → 100%		
		80	28		SparkLED #28 Dimmer	Fade	255
				0-255	0 → 100%		