

# ELATION PROTEUS BRUTUS DMX TRAITS

Features subject to change without notice

MODE/CHANNEL				VALUE	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	EXTENDED	FRAMING STANDARD	FRAMING EXTENDED				
1	1	1	1	0-255	<b>Pan</b> Movement	Fade	127
2	2	2	2	0-255	<b>Pan Fine</b> Fine Movement	Fade	127
3	3	3	3	0-255	<b>Tilt</b> Movement	Fade	127
4	4	4	4	0-255	<b>Tilt Fine</b> Fine Movement	Fade	127
5	5	5	5	0-255	<b>Cyan</b> 0 → 100%	Fade	0
	6		6	0-255	<b>Cyan Fine</b> Fine Adjustment	Fade	0
6	7	6	7	0-255	<b>Magenta</b> 0 → 100%	Fade	0
	8		8	0-255	<b>Magenta Fine</b> Fine Adjustment	Fade	0
7	9	7	9	0-255	<b>Yellow</b> 0 → 100%	Fade	0
	10		10	0-255	<b>Yellow Fine</b> Fine Adjustment	Fade	0
8	11	8	11	0-255	<b>CTO</b> Cold → Warm	Fade	0
	12		12	0-255	<b>CTO Fine</b> Fine Adjustment	Fade	0
9	13	9	13		<b>Color Wheel</b>	Snap	0
				0-19	Open		
				20-37	Red		
				38-55	Green		
				56-73	UV		
				74-91	HCRI		
				92-109	Orange		
				110-127	Medium Blue		
					<b>Color Scroll</b>		
				128-189	Clockwise,fast → slow		
190-193	Stop						
194-255	Counter-clockwise,slow → fast						
	14		14		<b>Color Wheel Fine</b> Fine Adjustment	Snap	0
10	15	10	15		<b>Rotating Gobo</b>	Snap	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 → fast		
				90-109	Gobo 2 Shake slow → fast		
				110-129	Gobo 3 Shake slow → fast		
				130-149	Gobo 4 Shake slow → fast		
				150-169	Gobo 5 Shake slow → fast		
				170-189	Gobo 6 Shake slow → fast		
	<b>Gobo Scroll</b>						
190-221	Clockwise,fast → slow						
222-223	Stop						
224-255	Counter-clockwise,slow → fast						
11	16	11	16		<b>Rotating Gobo Index</b>	Fade	64
				0-127	Gobo Index		
				128-189	Clockwise,fast → slow		
				190-193	Stop		
	17		17	0-255	<b>Rotating Gobo Index Fine</b> Fine Adjustment	Fade	127

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STANDARD	EXTENDED	FRAMING STANDARD	FRAMING EXTENDED				
13	18	13	18	0-255	<b>Focus</b> Focus edge adjustment	Fade	127
14	19	14	19	0-255	<b>Focus Fine</b> Focus adjustment Fine	Fade	127
15	20	15	20	0-255	<b>Zoom Narrow</b> → Wide	Fade	127
16	21	16	21	0-255	<b>Zoom Fine</b> Fine Adjustment	Fade	127
					Auto Focus		
				0-50	Auto Focus Off		
	22		22	51-100	5m	Snap	0
				101-150	7.5m		
				151-200	10m		
				201-255	15m		
	23		23	0-255	<b>AutoFocus Fine</b> Fine Adjustment	Snap	0
					<b>Shutter</b>		
				0-31	Closed		
				32-63	Open		
				64-95	Strobe slow → fast		
17	24	17	24	96-127	Open	Snap	50
				128-159	Pulse-effect		
				160-191	Open		
				192-223	Random strobe slow → fast		
				224-255	Open		
18	25	18	25	0-255	<b>Dimmer</b> 0 → 100%	Fade	0
19	26	19	26	0-255	<b>Dimmer Fine</b> Fine Adjustment	Fade	0
					<b>Dim Modes</b>		
				0-20	Standard		
				21-40	Stage		
				41-60	TV		
				61-80	Architectural		
				81-100	Theatre		
				101-120	Stage 2		
					<b>Dimmer Delay Time</b>		
				121	0s		
				122	0.1s		
				123	0.2s		
				124	0.3s		
				125	0.4s		
				126	0.5s		
20	27	20	27	127	0.6s	Snap	0
				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		

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MODE/CHANNEL				VALUE	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	EXTENDED	FRAMING STANDARD	FRAMING EXTENDED				
13	18	13	18	0-255	<b>Focus</b> Focus edge adjustment	Fade	127
14	19	14	19	0-255	<b>Focus Fine</b> Focus adjustment Fine	Fade	127
15	20	15	20	0-255	<b>Zoom Narrow</b> → Wide	Fade	127
16	21	16	21	0-255	<b>Zoom Fine</b> Fine Adjustment	Fade	127
					Auto Focus		
				0-50	Auto Focus Off		
	22		22	51-100	5m	Snap	0
				101-150	7.5m		
				151-200	10m		
				201-255	15m		
	23		23	0-255	<b>AutoFocus Fine</b> Fine Adjustment	Snap	0
					<b>Shutter</b>		
				0-31	Closed		
				32-63	Open		
				64-95	Strobe slow → fast		
17	24	17	24	96-127	Open	Snap	50
				128-159	Pulse-effect		
				160-191	Open		
				192-223	Random strobe slow → fast		
				224-255	Open		
18	25	18	25	0-255	<b>Dimmer</b> 0 → 100%	Fade	0
19	26	19	26	0-255	<b>Dimmer Fine</b> Fine Adjustment	Fade	0
					<b>Dim Modes</b>		
				0-20	Standard		
				21-40	Stage		
				41-60	TV		
				61-80	Architectural		
				81-100	Theatre		
				101-120	Stage 2		
					<b>Dimmer Delay Time</b>		
				121	0s		
				122	0.1s		
				123	0.2s		
				124	0.3s		
				125	0.4s		
				126	0.5s		
20	27	20	27	127	0.6s	Snap	0
				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		

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MODE/CHANNEL				VALUE	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	EXTENDED	FRAMING STANDARD	FRAMING EXTENDED				
21	28	21	28		<b>Iris</b>		
				0-191	Open → Close		
				192-223	Pulse closing fast → slow		
	29		29		<b>Iris Fine</b> Fine Adjustment		
22	30	22	30	0-255	<b>Frost</b> Open → Max		
23	31	23	31		<b>Animation wheel</b>		
				0-7	Open		
				8-255	Min → Max		
24	32	24	32		<b>Animation Index</b>		
				0-127	Animation Index		
				128-189	Clockwise,fast → slow		
				190-193	Stop		
	33		33	0-255	<b>Color Macro Speed</b> Max → Min		
	34		34		<b>Color Macro</b>		
				0-31	Open		
				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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MODE/CHANNEL				VALUE	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	EXTENDED	FRAMING STANDARD	FRAMING EXTENDED				
		25	35	0-255	<b>Blade 1A</b> Open → Close	Fade	0
			36	0-255	<b>Blade 1A Fine</b> Fine Adjustment	Fade	0
		26	37	0-255	<b>Blade 1B</b> Open → Close	Fade	0
			38	0-255	<b>Blade 1B Fine</b> Fine Adjustment	Fade	0
		27	39	0-255	<b>Blade 2A</b> Open → Close	Fade	0
			40	0-255	<b>Blade 2A Fine</b> Fine Adjustment	Fade	0
		28	41	0-255	<b>Blade 2B</b> Open → Close	Fade	0
			42	0-255	<b>Blade 2B Fine</b> Fine Adjustment	Fade	0
		29	43	0-255	<b>Blade 3A</b> Open → Close	Fade	0
			44	0-255	<b>Blade 3A Fine</b> Fine Adjustment	Fade	0
		30	45	0-255	<b>Blade 3B</b> Open → Close	Fade	0
			46	0-255	<b>Blade 3B Fine</b> Fine Adjustment	Fade	0
		31	47	0-255	<b>Blade 4A</b> Open → Close	Fade	0
			48	0-255	<b>Blade 4A Fine</b> Fine Adjustment	Fade	0
		32	49	0-255	<b>Blade 4B</b> Open → Close	Fade	0
			50	0-255	<b>Blade 4b Fine</b> Fine Adjustment	Fade	0
			51		<b>Framing Index</b>	Fade	127
				0-126	Min (-45°)		
				127-128	Parallel (0°)		
				129-255	Max (+45°)		
			52	0-255	<b>Framing IndexFine</b> Fine Adjustment	Fade	127
			53	0-255	<b>Framing Speed</b> Max → Min	Fade	0
			54		<b>Framing Macro</b>	Snap	0
				0-7	Open		
				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		
				120-127	Macro15		
				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			

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MODE/CHANNEL				VALUE	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	EXTENDED	FRAMING STANDARD	FRAMING EXTENDED				
	35		55		<b>Pan / Tilt Speed</b>	Snap	0
				0-225	Max → Min Speed		
				226-235	Blackout by movement		
				236-245	Blackout by wheel changes		
				246-255	No function		
					<b>Control</b>	Snap	Snap
				0-19	Color change normal		
				20-29	Color change to any position		
				30-39	Color & gobo change to any position		
				40-44	Low Noise - Mute		
				45-49	Low Noise - Studio		
				50-54	Fan Control - Low		
				55-59	Fan Control - High		
				60-64	Fan Control - Auto (Default)		
				65-79	Idle		
				80-84	All motor reset		
				85-87	Pan / Tilt reset		
				88-90	Color reset		
				91-93	Gobo reset		
				94-96	Focus and Zoom reset		
				97-99	Other motor reset		
					<b>Refresh Rate (Hz)</b>		
				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		

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MODE/CHANNEL				VALUE	FUNCTION	FADE STATUS	DEFAULT VALUE
STANDARD	EXTENDED	FRAMING STANDARD	FRAMING EXTENDED				
25	36	34	56	131	1210	Snap	Snap
				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	<b>1370</b>		
				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		
				169-172	Idle		
				173-174	Hibernate Fixture		
175-176	Hibernate Off						
177-178	Sun Protection Position						
179-180	Sun Protection Off						
181-185	PanTilt Smooth (default)						
186-190	PanTilt Fast						
191-195	CMY Speed Normal						
196-200	CMY Speed Fast (default)						
201-210	Dimmer Curve Linear (default)						
211-220	Dimmer Curve Square						
221-230	Dimmer Curve Inverse Square						
231-240	Dimmer Curve S-Curve						

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STANDARD	EXTENDED	FRAMING STANDARD	FRAMING EXTENDED				
25	36	34	56	241	Internal program 1 (Scene 1-8)	Snap	Snap
				242	Internal program 2 (Scene 9-16)		
				243	Internal program 3 (Scene 17-24)		
				244	Internal program 4 (Scene 25-32)		
				245	Internal program 5 (Scene 33-40)		
				246	Internal program 6 (Scene 41-48)		
				247	Internal program 7 (Scene 49-56)		
				248-249	Idle		
				250-251	Display off		
				252-253	Display on		
				254-255	Idle		