

DMX TRAITS: CHANNEL FUNCTIONS & VALUES

ELATION PROTEUS LUCIUS						
DMX Channel Values / Functions						
Supports Software Versions: $\geq 1.3.0$						
Features subject to change without notice						
MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
Standard	Extended					
1	1		PAN Movement 8bit:		127	
		0-255	Pan Movement			
2	2		Pan Fine 16bit:		127	
		0-255	Fine control of Pan movement			
3	3		TILT Movement 8bit:		127	
		0-255	Tilt Movement			
4	4		Tilt Fine 16bit:		127	
		0-255	Fine control of Tilt movement			
5	5		Cyan:			
		0-255	Cyan (0-100% Cyan)			
	6		Cyan Fine:			
		0-255	Cyan Fine			
6	7		Magenta:			
		0-255	Magenta (0-100% Magenta)			
	8		Magenta Fine:			
		0-255	Magenta Fine			
7	9		Yellow:			
		0-255	Yellow (0-100% Yellow)			
	10		Yellow			
		0-255	Yellow Fine			
8	11		CTO:			
		0-255	CTO (0-100% CTO)			
	12		CTO Fine			
		0-255	CTO Fine			
9	13		Color Wheel:			X
		0-7	Open			
		8-31	Red			
		32-55	Green			
		56-79	High CRI			
		80-103	Orange			
		104-127	Medium Blue			
		128-189	Clockwise effect from fast to slow			
		190-193	No rotation			
194-255	Counter-clockwise effect from slow to fast					
	14		Color Wheel Fine:			X
		0-255	Fine Control of Color Wheel position			

Features subject to change without notice

MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
Standard	Extended					
10	15		Rotating Gobo1			
		0-9	Open			
		10-19	Rot. gobo 1			
		20-29	Rot. gobo 2			
		30-39	Rot. gobo 3			
		40-49	Rot. gobo 4			
		50-59	Rot. gobo 5			
		60-69	Rot. 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			
		190-221	Scroll CW fast to slow			
222-223	Stop					
224-255	Scroll CCW slow to fast					
11	16		Rotating Gobo1 Index, Rotation			
		0-127	Gobo indexing			
		128-189	Clockwise gobo scroll from fast to slow			
		190-193	No rotation			
		194-255	Counter-clockwise gobo scroll from slow to fast			
12	17		Rotating gobo1 fine indexing:			
		0-255	Fine indexing			
13	18		Rotating Gobo2			
		0-9	Open			
		10-19	Rot. gobo 1			
		20-29	Rot. gobo 2			
		30-39	Rot. gobo 3			
		40-49	Rot. gobo 4			
		50-59	Rot. gobo 5			
		60-69	Rot. gobo 6			
		70-77	Rot. 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					
190-221	Scroll CW fast to slow					
222-223	Stop					
224-255	Scroll CCW slow to fast					

Features subject to change without notice

MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
Standard	Extended					
14	19		Rotating Gobo2 Index, Rotation			
		0-127	Gobo indexing			
		128-189	Clockwise gobo scroll from fast to slow			
		190-193	No rotation			
		194-255	Counter-clockwise gobo scroll from slow to fast			
15	20		Rotating gobo2 fine indexing:			
		0-255	Fine indexing			
16	21		Fixed gobo			
		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			
		190-221	Clockwise gobo scroll from fast to slow			
222-223	No rotation					
224-255	Counter-clockwise gobo scroll from slow to fast					
	22		Fixed gobo indexing Fine:			
		0-255	Fine indexing			X
17	23		Rotating prism, Prism/Gobo macros:			
		0-63	Open			
		64-127	4 Facet Prism			
		128-135	Macro1			
		136-143	Macro2			
		144-151	Macro3			
		152-159	Macro4			
		160-167	Macro5			
		168-175	Macro6			
		176-183	Macro7			
		184-191	Macro8			
		192--199	Macro9			
		200-207	Macro10			
		208-215	Macro11			
		216-223	Macro12			
		224-231	Macro13			
		232-239	Macro14			
240-247	Macro15					
248-255	Macro16					

Features subject to change without notice						
MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
Standard	Extended					
18	24		Rotating 4 prism index, rotating gobo rotation:			
		0-127	Prism indexing			
		128-189	Clockwise prism rotation from fast to slow			
		190-193	No rotation			
		194-255	Counter-clockwise prism rotation from slow to fast			
	25		Rotating 4 prism indexing Fine :			
		0-255	Fine indexing			
19	26		Rotating 4 prism linear:			
		0-63	Open			X
		64-255	4 Facet Linear Prism			
20	27		4 Prism Linear index, rotating gobo rotation:			
		0-127	Prism indexing			
		128-189	Clockwise prism rotation from fast to slow			
		190-193	No rotation			
		194-255	Counter-clockwise prism rotation from slow to fast			
	28		4 Prism Linear indexing Fine :			
		0-255	Fine indexing			
21	29		Focus:		127	
		0-255	Focus edge adjustment			
22	30		Focus Fine:		127	
		0-255	Focus adjustment Fine			
23	31		Zoom:		127	
		0-255	Zoom adjustment from small to big			
24	32		Zoom Fine:		127	
		0-255	Zoom adjustment Fine			
	33		Auto Focus :			
		0-50	Auto Focus Off			
		51-100	5m			X
		101-150	7.5m			
		151-200	10m			
		201-255	15m			
	34		AutoFocus Fine:			
		0-255	Continuous adjustment Fine			
25	35		Shutter, strobe:		50	
		0-31	Shutter closed			
		32-63	No function (shutter open)			
		64-95	Strobe effect slow to fast			
		96-127	No function (shutter open)			
		128-159	Pulse-effect in sequences			
		160-191	No function (shutter open)			
		192-223	Random strobe effect slow to fast			
		224-255	No function (shutter open)			
26	36		Dimmer:			
		0-255	Intensity 0 to 100%			
27	37		Dimmer Fine:			
		0-255	Dimmer fine			

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MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
Standard	Extended					
28	38		Dim Modes	0		X
		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	39		Iris:			
		0-191	Max. diameter to Min.diameter			
		192-223	Pulse opening fast to slow			
		224-255	Pulse closing slow to fast			
	40		Iris Fine:			
		0-255	Iris Fine			
30	41		Frost1:			
		0-255	0-100% Linear Light Frost			
31	42		Frost2:			
		0-255	0-100% Linear Wash Frost			
32	43		Animation wheel:			
		0-7	Open			
		8-255	Animation min to max			
33	44		Animation index, animation rotation:			
		0-127	Animation indexing			
		128-189	Clockwise animation rotation from fast to slow			
		190-193	No rotation			
		194-255	Counter-clockwise animation rotation from slow to fast			
	45		Speed Of CMY & Color macro Speed:			
		0-255	Speed Max -> Min.			

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MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
Standard	Extended					
			Color macros - CMY and color wheel:			
		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			
	46	136-143	Macro14			X
		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	HOLD TIME	DEFAULT	SNAP
Standard	Extended					
34	47		Blade 1A			
		0-255	Open to Close			
	48		Blade 1A Fine			
		0-255	Open to Close Fine			
35	49		Blade 1B			
		0-255	Open to Close			
	50		Blade 1B Fine			
		0-255	Open to Close Fine			
36	51		Blade 2A			
		0-255	Open to Close			
	52		Blade 2A Fine			
		0-255	Open to Close Fine			
37	53		Blade 2B			
		0-255	Open to Close			
	54		Blade 2B Fine			
		0-255	Open to Close Fine			
38	55		Blade 3A			
		0-255	Open to Close			
	56		Blade 3A Fine			
		0-255	Open to Close Fine			
39	57		Blade 3B			
		0-255	Open to Close			
	58		Blade 3B Fine			
		0-255	Open to Close Fine			
40	59		Blade 4A			
		0-255	Open to Close			
	60		Blade 4A Fine			
		0-255	Open to Close Fine			
41	61		Blade 4B			
		0-255	Open to Close			
	62		Blade 4B Fine			
		0-255	Open to Close Fine			
42	63		Framing Rotation:			
		0-126	Min (-45 degrees)			
		127-128	Parallel (0 degrees)			
		129-255	Max (+45 degrees)			
	64		Framing Rotation Fine:			
		0-255	Framing Rotation Fine			
	65		Framing Speed:			
		0-255	Speed Max -> Min.			

Features subject to change without notice.

MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
Standard	Extended					
			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	120-127	Macro15			X
		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 to min speed			
	67	226-235	Blackout by movement			X
		236-245	Blackout by all wheel changing			
		246-255	No function			
			Control:			
		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	0		
		45-49	Low Noise - Studio			
		50-59	Fan Control - Low			
		60-69	Fan Control - High			
		70-79	Fan Control - Auto (Default)			
		80-84	All motor reset			
		85-87	Pan / Tilt reset			
		88-90	Color reset			
		91-93	Gobo reset	3s		
		94-96	Focus and Zoom reset			
		97-99	Other motor reset			
43	68					

Features subject to change without notice

MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
Standard	Extended					
43	68	100-168	Refresh Rate (Hz)	1s		X
		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			
		131	1210			
132	1220					
133	1230					
134	1240					
135	1250					
136	1260					
137	1270					
138	1280					
139	1290					
140	1300					
141	1310					
142	1320					

Features subject to change without notice.

MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP				
Standard	Extended									
43	68	143	1330	1s		X				
		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							
				169-170			Gobo Color Correction disable	3s		
				171-172			Gobo Color Correction enable (default)			
				173-174			Hibernation Off			
				175-176			Hibernation			
				177-178			Home Position Before Power Off			
				179-180			Home Position Off			
				181-190			PanTilt Smooth (default)			
				191-200			PanTilt Fast			
		201-210	Dimmer Curve Linear (default)							
		211-220	Dimmer Curve Square							
		221-230	Dimmer Curve Inverse Square							
		231-240	Dimmer Curve S-Curve							
		241	Internal program 1 (scene1~8)							
		242	Internal program 2 (scene9~16)							
		243	Internal program 3 (scene17~24)							
		244	Internal program 4 (scene25~32)							
		245	Internal program 5 (scene33~40)							
		246	Internal program 6 (scene41~48)							
		247	Internal program 7 (scene49~56)							
		248-255	Idle							