

DMX TRAITS: CHANNEL FUNCTIONS & VALUES

ELATION FUZE MAX PROFILE						
Supports Software Versions: $\geq 1.0.0$						
Features subject to change without notice						
MODE/CHANNEL				VALUE	FUNCTION	DEFAULT
STANDARD	EXTENDED	CMY	CMY EXTENDED			
1	1	1	1		PAN Movement 8bit:	0
				0-255	Pan Movement	
2	2	2	2		Pan Fine 16bit:	0
				0-255	Fine control of Pan movement	
3	3	3	3		TILT Movement 8bit:	0
				0-255	Tilt Movement	
4	4	4	4		Tilt Fine 16bit:	0
				0-255	Fine control of Tilt movement	
		5	5		Cyan:	0
				0-255	Cyan (0-100% Cyan)	
			6		Cyan Fine:	0
				0-255	Cyan Fine	
		6	7		Magenta:	0
				0-255	Magenta (0-100% Magenta)	
			8		Magenta Fine:	0
				0-255	Magenta Fine	
		7	9		Yellow:	0
				0-255	Yellow (0-100% Yellow)	
			10		Yellow Fine:	0
				0-255	Yellow Fine	
5	5				Red:	0
				0-255	Red (0-100% Red)	
	6				Red Fine:	0
		0-255	Red Fine			
6	7				Green:	0
				0-255	Green (0-100% Green)	
	8				Green Fine:	0
		0-255	Green Fine			
7	9				Blue:	0
				0-255	Blue (0-100% Blue)	
	10				Blue Fine:	0
		0-255	Blue Fine			
8	11				Mint:	0
				0-255	Mint (0-100% Mint)	
	12				Mint Fine:	0
		0-255	Mint Fine			
9	13				Amber:	0
				0-255	Amber (0-100% Amber)	
	14				Amber Fine:	0
		0-255	Amber Fine			
10	15	8	11		CTC:	
				0-23	Open	
				24 -85	CTC 2400K - 8500K (see separate sheet)	
				86-255	8500K	

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STANDARD	EXTENDED	CMY	CMY EXTENDED			
11	16	9	12		Color Wheel:	
				0	Open	
				1-60	Virtual Swatch Book (see separate sheet)	
				61-179	Open	
					Color Scroll	
				180-201	CW,fast →slow	
				202-207	Stop	
				208-229	CCW,slow → fast	
				230-234	Open	
					Random Slots	
				235-239	Fast	
				240-244	Medium	
				245-249	Slow	
250-255	Open					
	17		13		Green Shift:	
				0	Idle	
				1-127	Full Minus Green to Neutral	
				128	Neutral White	
				129-255	Neutral to Full Plus Green	
12	18	10	14		CTC Crossfade:	
				0	CTC	
				255	Color Mix	
13	19	11	15		Rotating gobos, cont. rotation	
				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					
14	20	12	16		Rotating gobo index, rotating gobo rotation	
				0-127	GoboRot indexing	
				128-189	CW Gobo scroll from fast to slow	
				190-193	Stop	
				194-255	CCW Gobo scroll from slow to fast	
15	21	13	17		Rotating gobo fine indexing:	
				0-255	Fine indexing	

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STANDARD	EXTENDED	CMY	CMY EXTENDED			
16	22	14	18		Fixed Gobo 2	
				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	CW Gobo scroll from fast to slow					
222-223	No rotation					
224-255	CCW Gobo scroll from slow to fast					
17	23	15	19		Prism	
				0-6	Open	
				7-130	4 Facet Linear	
				131-255	4 Facet	
18	24	16	20		Rotating prism1/2 index, rotating prism 1/2 rotation:	
				0-127	Prism1/2 indexing	
				128-189	Forwards prism1/2 rotation from slow to fast	
				190-193	Stop	
194-255	Backwards prism1/2 rotation from fast to slow					
	25		21		Rotating prism indexing Fine:	
				0-255	Fine indexing	
19	26	17	22		Focus:	
				0-255	Continuous adjustment from far to near	
20	27	18	23		Focus Fine:	
				0-255	Fine focusing	
21	28	19	24		Zoom:	
				0-255	Zoom adjustment from small to big	
22	29	20	25		Zoom Fine:	
				0-255	Fine Zooming	
23	30	21	26		Shutter, strobe:	
				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)					
24	31	22	27		Dimmer:	
				0-255	Intensity 0 to 100%	
25	32	23	28		Dimmer Fine:	
				0-255	Dimmer fine	

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MODE/CHANNEL				VALUE	FUNCTION	DEFAULT
STANDARD	EXTENDED	CMY	CMY EXTENDED			
					Dim Modes	
				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	
	33		29	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	
26	34	24	30		Iris:	
				0-191	Max. diameter to Min. diameter	
				192-223	Pulse opening fast to slow	
				224-255	Pulse closing slow to fast	
	35		31		Iris-fine	
				0-255	Fine iris movement	
27	36	25	32		Frost1:	
				0-255	Frost:0 – 100% (Linear)	
28	37	26	33		Frost2:	
				0-255	Frost:0 – 100% (Linear)	
29	38	27	34		Animation wheel:	
				0-7	Open	
				8-255	Animation min to max	

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STANDARD	EXTENDED	CMY	CMY EXTENDED			
30	39	28	35		Animation index,animation rotation:	
				0-127	Animation indexing	
				128-189	CW animation rotation fast to slow	
				190-193	No rotation	
				194-255	CCW animation rotation slow to fast	
31	40	29	36		Blade 1A:	
				0-255	Movement from Outward to Inward	
	41		37		Blade 1A Fine:	
		0-255		Movement from Outward to Inward		
32	42	30	38		Blade 1B:	
				0-255	Movement from Outward to Inward	
	43		39		Blade 1B Fine:	
		0-255		Movement from Outward to Inward		
33	44	31	40		Blade 2A:	
				0-255	Movement from Outward to Inward	
	45		41		Blade 2A Fine:	
		0-255		Movement from Outward to Inward		
34	46	32	42		Blade 2B:	
				0-255	Movement from Outward to Inward	
	47		43		Blade 2B Fine:	
		0-255		Movement from Outward to Inward		
35	48	33	44		Blade 3A:	
				0-255	Movement from Outward to Inward	
	49		45		Blade 3A Fine:	
		0-255		Movement from Outward to Inward		
36	50	34	46		Blade 3B:	
				0-255	Movement from Outward to Inward	
	51		47		Blade 3B Fine:	
		0-255		Movement from Outward to Inward		
37	52	35	48		Blade 4A:	
				0-255	Movement from Outward to Inward	
	53		49		Blade 4A Fine:	
		0-255		Movement from Outward to Inward		
38	54	36	50		Blade 4B:	
				0-255	Movement from Outward to Inward	
	55		51		Blade 4B Fine:	
		0-255		Movement from Outward to Inward		
39	56	37	52		Framing Rotation:	
				0-126	Min (-60 degrees)	
				127-128	Parallel (0 degrees)	
				129-255	Max (+60 degrees)	
	57		53		Framing Rotation Fine:	
		0-255		Framing Rotation Fine:		
	58		54		Framing Speed:	
				Speed Max \rightarrow Min		

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MODE/CHANNEL				VALUE	FUNCTION	DEFAULT
STANDARD	EXTENDED	CMY	CMY 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	
	59		55	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	
					Pan / Tilt and Color Speed:	
				0-225	Max to min speed	
	60		56	226-235	Blackout by movement	
				236-245	Blackout by all wheel changing	
				246-255	No function	

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STANDARD	EXTENDED	CMY	CMY EXTENDED			
40	61	38	57		Control:	
				0-19	Color change normal	
				20-29	Color change to any position	
				30-39	Color & gobo change to any position	
				40-44	Fan Mode Studio	
				45-49	Fan Mode Mute	
				50-59	Fan Mode Low	
				60-69	Fan Mode High	
				70-79	Fan Mode Auto	
				80-84	All motor reset	
				85-87	Pan/Tilt reset	
				88-90	Gobo reset	
				91-93	Focus and Zoom reset	
				94-96	Other motor reset	
				97-99	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					
131	1210					
132	1220					
133	1230					
134	1240					
135	1250					
136	1260					

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MODE/CHANNEL				VALUE	FUNCTION	DEFAULT
STANDARD	EXTENDED	CMY	CMY EXTENDED			
40	61	38	57	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	
				169-190	Idle	
				191-195	Hibernation OFF	
				196-200	Hibernation ON	
				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 (Scene 1-8)	
				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)	
				248-255	Idle	