

# DMX CHANNEL FUNCTIONS AND VALUES

ELATION SMARTY MAX™					
DMX Channel Values / Functions (44 Total DMX Channels)					
Supports Software Versions: ≥ 1.3.1					
Features subject to change without notice. *Rotation direction (Clockwise/Counterclockwise) and control of effects depends on head orientation and Pan/Tilt settings.					
Standard	Extended	Value	Function	Default	Snap
1	1		<b>PAN</b>		
		0-255	Movement		
2	2		<b>PAN FINE</b>		
		0-255	Fine Movement		
3	3		<b>TILT</b>		
		0-255	Movement		
4	4		<b>TILT FINE</b>		
		0-255	Fine Movement		
5	5		<b>CYAN</b>		
		0-255	0 → 100%		
	6		<b>CYAN FINE</b>		
		0-255	Fine Adjustment		
6	7		<b>MAGENTA</b>		
		0-255	0 → 100%		
	8		<b>MAGENTA FINE</b>		
		0-255	Fine Adjustment		
7	9		<b>YELLOW</b>		
		0-255	0 → 100%		
	10		<b>YELLOW FINE</b>		
		0-255	Fine Adjustment		
8	11		<b>CTO</b>		
		0-255	0 → 100%		
	12		<b>CTO FINE</b>		
		0-255	Fine Adjustment		

Standard	Extended	Value	Function	Default	Snap
9	13		<b>COLOR WHEEL</b>		
		0-10	Open		
		11-19	Red		
		20-28	Green		
		29-37	Yellow		
		38-46	Purple		
		47-55	Cyan		
		56-64	Orange		
		65-73	Magenta		
		74-82	Light Green		
		83-91	Pink		
		92-100	UV FILTER		
		101-109	CTB		
		110-118	CTO		
		119-127	Blue		
		128-180	Color Scroll CW FAST → SLOW		
		181	Stop		
		182-234	Color Scroll CCW SLOW → FAST		
		235-239	Random Colors FAST		
		240-244	Random Colors MEDIUM		
245-249	Random Colors SLOW				
250-255	Open				
	14		<b>COLOR WHEEL FINE</b>		
		0-255	Fine Control of Color Wheel Position		

Standard	Extended	Value	Function	Default	Snap
10	15		<b>ROTATING GOBOS [GOBO WHEEL 1]</b>		
		0-10	BEAM Open		
		11-21	SPOT Open		
		22-31	Rotating Gobo 1		
		32-41	Rotating Gobo 2		
		42-51	Rotating Gobo 3		
		52-61	Rotating Gobo 4		
		62-71	Rotating Gobo 5		
		72-81	Rotating Gobo 6		
		82-91	Rotating Gobo 7		
		92-101	Rotating Gobo 8		
		102-112	Rotating Gobo 1 Shake SLOW to FAST		
		113-123	Rotating Gobo 2 Shake SLOW to FAST		
		124-134	Rotating Gobo 3 Shake SLOW to FAST		
		135-145	Rotating Gobo 4 Shake SLOW to FAST		
		146-156	Rotating Gobo 5 Shake SLOW to FAST		
		157-167	Rotating Gobo 6 Shake SLOW to FAST		
		168-178	Rotating Gobo 7 Shake SLOW to FAST		
		179-189	Rotating Gobo 8 Shake SLOW to FAST		
		190-221	Gobo Scroll CW FAST to SLOW		
222-223	STOP				
224-255	Gobo Scroll CCW SLOW to FAST				
11	16		<b>ROTATING GOBOS INDEXING [GOBO WHEEL 1]</b>		
		0-127	Gobo Indexing		
		128-189	Gobo Scroll CW FAST to SLOW		
		190-193	NO Rotation		
		194-255	Gobo Scroll CCW SLOW to FAST		
	17		<b>ROTATING GOBOS INDEXING FINE [GOBO WHEEL 1]</b>		
		0-255	Fine Control of Rotating Gobos Indexing		

Standard	Extended	Value	Function	Default	Snap
12	18		<b>FIXED GOBOS [GOBO WHEEL 2]</b>		
		0-7	Open		
		8-14	Gobo 1		
		15-21	Gobo 2		
		22-28	Gobo 3		
		29-35	Gobo 4		
		36-42	Gobo 5		
		43-49	Gobo 6		
		50-56	Gobo 7		
		57-63	Gobo 8		
		64-70	Gobo 9		
		71-77	Gobo 10		
		78-84	Gobo 11		
		85-91	Gobo 12		
		92-98	Gobo 13		
		99-105	Gobo 14		
		106-111	Gobo 1 Shake SLOW to FAST		
		112-117	Gobo 2 Shake SLOW to FAST		
		118-123	Gobo 3 Shake SLOW to FAST		
		124-129	Gobo 4 Shake SLOW to FAST		
		130-135	Gobo 5 Shake SLOW to FAST		
		136-141	Gobo 6 Shake SLOW to FAST		
		142-147	Gobo 8 Shake SLOW to FAST		
		148-153	Gobo 9 Shake SLOW to FAST		
		154-159	Gobo 10 Shake SLOW to FAST		
		160-165	Gobo 11 Shake SLOW to FAST		
		166-171	Gobo 12 Shake SLOW to FAST		
		172-177	Gobo 13 Shake SLOW to FAST		
		178-183	Gobo 14 Shake SLOW to FAST		
		184-189	Gobo 8 Shake SLOW to FAST		
190-221	Gobo Scroll CW FAST to SLOW				
222-223	NO Rotation				
224-255	Gobo Scroll CCW SLOW to FAST				
	19		<b>FIXED GOBO WHEEL INDEXING FINE [GOBO WHEEL 2]</b>		
		0-255	Fine Control of Fixed Gobo Wheel 2 Indexing		

Standard	Extended	Value	Function	Default	Snap
13	20		<b>ROTATING PRISM, PRISM / GOBO MACROS</b>		
		0-63	Open		
		64-95	8 Facet Prism		
		96-127	6 Facet Linear		
		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				
14	21		<b>ROTATING PRISM INDEXING</b>		
		0-127	Prism Indexing		
		128-189	Prism Rotation CW FAST to SLOW		
		190-193	NO Rotation		
		194-255	Prism Rotation CCW SLOW to FAST		
	22		<b>ROTATING PRISM INDEXING FINE</b>		
		0-255	Prism Indexing Fine Control		
15	23		<b>ROTATING PRISM 2</b>		
		0-63	Open		
		64-95	16 Facet Prism		
		96-127	4 Facet Linear Prism		
		128-255	Reserved		
16	24		<b>ROTATING PRISM 2 INDEXING</b>		
		0-127	Prism 2 Indexing		
		128-189	Prism 2 Rotation CW FAST to SLOW		
		190-193	NO Rotation		
		194-255	Prism 2 Rotation CCW SLOW to FAST		
	25		<b>ROTATING PRISM 2 INDEXING FINE</b>		
		0-255	Prism 2 Indexing Fine Control		

Standard	Extended	Value	Function	Default	Snap
17	26		<b>FOCUS</b>		
		0-255	Focus Adjustment from NEAR to FAR		
	27		<b>FOCUS FINE</b>		
		0-255	Focus Fine Adjustment from NEAR to FAR		
18	28		<b>ZOOM</b>		
		0-255	Zoom Adjustment from NARROW to WIDE		
	29		<b>ZOOM FINE</b>		
		0-255	Zoom Fine Adjustment		
	30		<b>AUTO FOCUS</b>		
		0-50	Auto Focus Off		
		51-100	5 Meters (16.4 ft)		
		101-150	7.5 Meters (24.6 ft)		
		151-200	10 Meters (32.8 ft)		
		201-255	15 Meters (49.2 ft)		
	31		<b>AUTO FOCUS FINE</b>		
		0-255	Fine Control of Focus Adjustment		
19	32		<b>STROBE</b>		
		0-31	Shutter Closed		
		32-63	NO Function (Shutter Open)		
		64-95	Strobe 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)		
20	33		<b>DIMMER</b>		
		0-255	0 → 100%		
21	34		<b>DIMMER FINE</b>		
		0-255	Fine Dimming		
22	35		<b>IRIS</b>		
		0-191	MAX Diameter to MIN Diameter		
		192-223	Pulse Closing FAST to SLOW		
		224-255	Pulse Opening SLOW to FAST		
	36		<b>IRIS FINE</b>		
		0-255	Fine Control of Iris		
23	37		<b>FROST 1</b>		
		0-255	MIN to MAX		
24	38		<b>FROST 2</b>		
		0-127	MIN to MAX		

Standard	Extended	Value	Function	Default	Snap
25	39		<b>ANIMATION WHEEL</b>		
		0	Open		
		1-127	Animation Track 1		
		128-255	Animation Track 2		
26	40		<b>ANIMATION WHEEL, INDEX ROTATION</b>		
		0-127	Animation Wheel Indexing		
		128-189	Animation Wheel Rotation CW from FAST to SLOW		
		190-193	NO Rotation		
		194-255	Animation Wheel Rotation CW from SLOW to FAST		
	41		<b>SPEED of CMY &amp; Color Macro</b>		
		0-255	Speed MAX to MIN		
	42		<b>COLOR MACROS - CMY &amp; Color Wheel</b>		
		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		
		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				
	43		<b>PAN / TILT SPEED</b>		
		0-225	Speed MAX to MIN		
		226-235	Blackout by All Wheel Changing		
		236-255	NO Function		

Standard	Extended	Value	Function	Default	Snap
27	44		<b>CONTROL</b>		
		0-19	Color Change Normal		
		20-29	Color Change to Any Position		
		30-39	Color and Gobo Change to Any Position		
		40-49	Lamp ON		
		50-59	Lamp OFF		
		60-66	Lamp Power 370W		
		67-73	Lamp Power 470W		
		74-79	Lamp Power 480W		
		80-84	All Motor Reset		
		85-87	Pan and Tilt Motor Reset		
		88-90	Color Motor Reset		
		91-93	Gobo Motor Reset		
		94-96	Shutter and Dimmer Motor Reset		
		97-99	Other Motor Reset		
		100-180	Idle		
		181-190	Pan Tilt Smooth (default)		
		191-200	Pan Tilt 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		
		242	Internal Program 2		
		243	Internal Program 3		
		244	Internal Program 4		
		245	Internal Program 5		
		246	Internal Program 6		
		247	Internal Program 7		
		248-255	Idle		