

DMX CHANNEL FUNCTIONS AND VALUES

RELATION SATURA PROFILE™

DMX Channel Values / Functions (54 DMX Channels)

Supports Software Versions: $\geq 1.0.2$

Features are subject to change without any prior written notice.

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

MODE / CHANNEL			VALUE	FUNCTION			
BASIC	STAND	EXTEND					
1	1	1		PAN MOVEMENT [8 BIT]			
			0-255	PAN Movement			
	2	2		PAN FINE MOVEMENT [16 BIT]			
			0-255	Fine Control of PAN Movement			
2	3	3		TILT MOVEMENT [8 BIT]			
			0-255	TILT Movement			
	4	4		TILT MOVEMENT [16 BIT]			
			0-255	Fine Control of TILT Movement			
3	5	5		CYAN COLOR			
			0-255	0-WHITE ~ 255-100% CYAN			
				CYAN COLOR FINE			
		6	0-255	CYAN FINE Adjustment			
			4	6	7		MAGENTA COLOR
						0-255	0-WHITE ~ 255-100% MAGENTA
		8		MAGENTA COLOR FINE			
			0-255	MAGENTA FINE Adjustment			
			5	7	9		YELLOW COLOR
0-255	0-WHITE ~ 255-100% YELLOW						
		10		YELLOW COLOR FINE			
			0-255	YELLOW FINE Adjustment			
			6	8	11		CTO COLOR
0-255	0-WHITE ~ 255-100% CTO						
		12		CTO COLOR FINE			
			0-255	CTO FINE Adjustment			
			7	9	13		CMY / COLOR MACRO SPEED
0-255	MAX to MIN Speed						
8	10	14		COLOR WHEEL			
			0-15	OPEN / WHITE			
			16-31	RED			
			32-47	BLUE			
			48-63	GREEN			
			64-79	YELLOW			
			80-95	MAGENTA			
			96-111	ORANGE			
			112-127	LIGHT BLUE			
			128-189	*Clockwise COLOR Rotation from FAST to SLOW			
			190-193	NO Rotation			
194-255	*Counterclockwise COLOR Rotation from SLOW to FAST						
		15		COLOR WHEEL FINE ADJUSTMENT			
			0-255	FINE Adjustment of Color Wheel to Any Position			

MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
9	11	16		ROTATING GOBOS, CONTINUOUS ROTATION [GOBO WHEEL 1]
			0-9	OPEN
			10-19	Rotating Gobo 1
			20-29	Rotating Gobo 2
			30-39	Rotating Gobo 3
			40-49	Rotating Gobo 4
			50-59	Rotating Gobo 5
			60-69	Rotating 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
190-255	*Clockwise Gobo Wheel Rotation from SLOW to FAST			
10	12	17		ROTATING GOBOS, INDEX ROTATION [GOBO WHEEL 1]
			0-127	Gobo Indexing
			128-193	*Clockwise Gobo Rotation from FAST TO SLOW
			194-255	*Counterclockwise Gobo Rotation from SLOW to FAST
DMX VALUE CHANGE WITH SOFTWARE UPDATE VERSION ≥1.0.6 See highlighted DMX values below which have been updated with this software update.				
10	12	17		ROTATING GOBOS, INDEX ROTATION [GOBO WHEEL 1]
			0-127	Gobo Indexing
			128-189	*Clockwise Gobo Rotation from FAST TO SLOW
			190-193	NO ROTATION
194-255	*Counterclockwise Gobo Rotation from SLOW to FAST			
		18		ROTATING GOBOS, FINE INDEX ROTATION [GOBO WHEEL 1]
			0-255	Gobo Rotation FINE Indexing

MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
11	13	19		STATIC / FIXED GOBOS [GOBO WHEEL 2]
			0-13	OPEN
			14-27	Static / Fixed Gobo 1
			28-41	Static / Fixed Gobo 2
			42-55	Static / Fixed Gobo 3
			56-69	Static / Fixed Gobo 4
			70-83	Static / Fixed Gobo 5
			84-97	Static / Fixed Gobo 6
			98-111	Static / Fixed Gobo 7
			112-127	Shake SLOW to FAST Static / Fixed Gobo 1
			128-143	Shake SLOW to FAST Static / Fixed Gobo 2
			144-159	Shake SLOW to FAST Static / Fixed Gobo 3
			160-175	Shake SLOW to FAST Static / Fixed Gobo 4
			176-191	Shake SLOW to FAST Static / Fixed Gobo 5
			192-207	Shake SLOW to FAST Static / Fixed Gobo 6
208-223	Shake SLOW to FAST Static / Fixed Gobo 7			
224-255	*Clockwise Gobo Wheel Rotation from SLOW to FAST			

DMX VALUES FOR OPTIONAL STATIC GOBO / ANIMATION WHEEL KIT

See highlighted DMX values below which support the control of the optional Static GOBO / Animation Wheel Kit.
Please contact ELATION CUSTOMER SUPPORT for more details.

11	13	19		STATIC / FIXED GOBOS [GOBO WHEEL 2]
			0-13	OPEN
			14-27	Static / Fixed Gobo 1
			28-41	Static / Fixed Gobo 2
			42-55	Static / Fixed Gobo 3
			56-69	Static / Fixed Gobo 4
			70-111	ANIMATION EFFECT
			112-127	Shake SLOW to FAST Static / Fixed Gobo 1
			128-143	Shake SLOW to FAST Static / Fixed Gobo 2
			144-159	Shake SLOW to FAST Static / Fixed Gobo 3
			160-175	Shake SLOW to FAST Static / Fixed Gobo 4
			176-223	ANIMATION EFFECT SHAKE SLOW to FAST
			224-255	*Clockwise Gobo Wheel Rotation from SLOW to FAST

MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
12	14	20		ROTATING PRISM, PRISM / GOBO MACROS
			0-63	OPEN
			64-127	3-FACET Rotating Prism
			128-135	Prism / Gobo Macro 1
			136-143	Prism / Gobo Macro 2
			144-151	Prism / Gobo Macro 3
			152-159	Prism / Gobo Macro 4
			160-167	Prism / Gobo Macro 5
			168-175	Prism / Gobo Macro 6
			176-183	Prism / Gobo Macro 7
			184-191	Prism / Gobo Macro 8
			192-199	Prism / Gobo Macro 9
			200-207	Prism / Gobo Macro 10
			208-215	Prism / Gobo Macro 11
			216-223	Prism / Gobo Macro 12
			224-231	Prism / Gobo Macro 13
			232-239	Prism / Gobo Macro 14
240-247	Prism / Gobo Macro 15			
248-255	Prism / Gobo Macro 16			
13	15	21		ROTATING PRISM, PRISM INDEX ROTATION
			0-127	Prism Indexing
			128-189	*Clockwise Linear Prism Rotation from FAST to SLOW
			190-193	NO Rotation
			194-255	*Counterclockwise Linear Prism Rotation from SLOW to FAST
14	16	22		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)			
15	17	23		DIMMER INTENSITY
		24		DIMMER INTENSITY FINE [16 BIT]
			0-255	Intensity 0 to 100%
16	18	25		DIMMER CURVE MODES
			0-20	STANDARD
			21-40	STAGE
			41-60	TV
			61-80	ARCHITECTURAL
			81-100	THEATER
		101-255	DEFAULT to UNIT CURVE SETTING	

MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
17	19	26		FROST
			0-127	OPEN
			128-255	100% Frost
18	20	27		IRIS
			0-191	MAX to MIN Diameter
			192-223	Pulse Closing FAST to SLOW
		224-255	Pulse Closing SLOW to FAST	
		28		IRIS FINE
			0-255	Iris FINE Adjustment
19	21	29		FOCUS
			0-255	Continuous Adjustment from FAR to NEAR
		30		FOCUS FINE
			0-255	Continuous FINE Focus Adjustment
20	22	31		MOTORIZED ZOOM
			0-255	ZOOM Adjustment from SMALL to BIG
		32		MOTORIZED ZOOM FINE
			0-255	ZOOM FINE Adjustment
21	23	33		BLADE #1
			0-255	OPEN to CLOSE
		34		BLADE #1 FINE [16 BIT]
			0-255	OPEN to CLOSE FINE Adjustment
22	24	35		BLADE #1 ROTATION
			0-255	ROTATION
		36		BLADE #1 ROTATION FINE [16 BIT]
			0-255	ROTATION FINE Adjustment
23	25	37		BLADE #2
			0-255	OPEN to CLOSE
		38		BLADE #2 FINE [16 BIT]
			0-255	OPEN to CLOSE FINE Adjustment
24	26	39		BLADE #2 ROTATION
			0-255	ROTATION
		40		BLADE #2 ROTATION FINE [16 BIT]
			0-255	ROTATION FINE Adjustment
25	27	41		BLADE #3
			0-255	OPEN to CLOSE
		42		BLADE #3 FINE [16 BIT]
			0-255	OPEN to CLOSE FINE Adjustment
26	28	43		BLADE #3 ROTATION
			0-255	ROTATION
		44		BLADE #3 ROTATION FINE [16 BIT]
			0-255	ROTATION FINE Adjustment

MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
27	29	45		BLADE #4
			0-255	OPEN to CLOSE
		46		BLADE #4 FINE [16 BIT]
			0-255	OPEN to CLOSE FINE Adjustment
28	30	47		BLADE #4 ROTATION
			0-255	ROTATION
		48		BLADE #4 ROTATION FINE [16 BIT]
			0-255	ROTATION FINE Adjustment
29	31	49		ALL (4) BLADES ROTATION
			0-255	All (4) Blade Rotation
		50		ALL (4) BLADES ROTATION FINE [16 BIT]
			0-255	All (4) Blade FINE Rotation
30	32	51		BLADE SPEED
			0-255	BLADE Speed FAST to SLOW
31	33	52		BLADE MACROS
			0-14	OFF
			15-29	Blade Macro 1
			30-44	Blade Macro 2
			45-59	Blade Macro 3
			60-74	Blade Macro 4
			75-89	Blade Macro 5
			90-104	Blade Macro 6
			105-119	Blade Macro 7
			120-134	Blade Macro 8
			135-149	Blade Macro 9
			150-164	Blade Macro 10
			165-179	Blade Macro 11
			180-194	Blade Macro 12
			195-209	Blade Macro 13
			210-224	Blade Macro 14
225-239	Blade Macro 15			
240-255	Blade Macro 16			
32	34	53		PAN / TILT MOVEMENT SPEED
			0-225	MAX to MIN Speed
			226-235	Blackout by Movement
			236-255	Blackout by COLOR / GOBO Wheel Movement

MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
33	35	54		LAMP ON/OFF, RESET, INTERNAL PROGRAMS
			0-19	GOBO Change Normal
			20-29	COLOR Change to Any Position
			30-39	GOBO Change to Any Position
			40-59	NO FUNCTION
			60-79	NO FUNCTION
			80-84	ALL Motors Reset
			85-87	SCAN Motor Reset
			88-90	COLOR Motors Reset
			91-93	GOBO Motors Reset
			94-96	NO FUNCTION
			97-99	OTHER Motors Reset
			100-119	Internal Program 1 (Scene1-8)
			120-139	Internal Program 2 (Scene 9-16)
			140-159	Internal Program 3 (Scene 17-24)
			160-179	Internal Program 4 (Scene 25-32)
			180-199	Internal Program 5 (Scene 33-40)
			200-219	Internal Program 6 (Scene 41-48)
			220-239	Internal Program 7 (Scene 49-56)
			240-255	NO FUNCTION