

# DMX CHANNEL FUNCTIONS AND VALUES

ELATION ARTISTE MONDRIAN™						
DMX Channel Values / Functions (42 / 68 Total DMX Channels)						
Supports Software Versions: ≥ 1.5.0						
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	Hold Time	Default	Snap
1	1		<b>PAN Movement 8bit:</b>		127	
		0-255	Pan Movement			
2	2		<b>Pan Fine 16bit:</b>		127	
		0-255	Fine control of Pan movement			
3	3		<b>TILT Movement 8bit:</b>		127	
		0-255	Tilt Movement			
4	4		<b>Tilt Fine 16bit:</b>		127	
		0-255	Fine control of Tilt movement			
5	5		<b>Cyan:</b>		0	
		0-255	Cyan (0-100% Cyan)			
	6		<b>Cyan Fine:</b>		0	
		0-255	Cyan Fine			
6	7		<b>Magenta:</b>		0	
		0-255	Magenta (0-100% Magenta)			
	8		<b>Magenta Fine:</b>		0	
		0-255	Magenta Fine			
7	9		<b>Yellow:</b>		0	
		0-255	Yellow (0-100% Yellow)			
	10		<b>Yellow Fine:</b>		0	
		0-255	Yellow Fine			
8	11		<b>CTO:</b>		0	
		0-255	CTO (0-100% CTO)			
	12		<b>CTO Fine:</b>		0	
		0-255	CTO Fine			
9	13		<b>Red Mix:</b>		0	
		0-255	Red (0-100% Red)			
	14		<b>Red Mix Fine:</b>		0	
		0-255	Red Fine			
10	15		<b>Green Mix:</b>		0	
		0-255	Green (0-100% Green)			
	16		<b>Green Mix Fine:</b>		0	
		0-255	Green Fine			
11	17		<b>Blue Mix:</b>		0	
		0-255	Blue (0-100% Blue)			
	18		<b>Blue Mix Fine:</b>		0	
		0-255	Blue Fine			

Standard	Extended	Value	Function	Hold Time	Default	Snap
12	19		<b>Color Wheel:</b>		0	X
		0-19	Open			
		20-37	Red			
		38-55	Green			
		56-73	UV			
		74-91	High CRI			
		92-109	Amber			
		110-127	Blue			
		128-189	Clockwise effect from fast to slow			
		190-193	No rotation			
194-255	Counter-clockwise effect from slow to fast					
	20		<b>Color Wheel Fine:</b>		0	X
		0-255	Fine Control of Color Wheel position			
13	21		<b>Rotating Gobo</b>		0	
		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	22		<b>Rotating Gobo Index, Rotation</b>		0	
		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	23		<b>Rotating gobo fine indexing:</b>		0	
		0-255	Fine indexing			

Standard	Extended	Value	Function	Hold Time	Default	Snap
16	24		<b>Rotating Gobo2</b>		0	
		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					
17	25		<b>Rotating Gobo Index, Rotation2</b>		0	
		0-127	Gobo indexing			
		128-189	Clockwise gobo scroll from fast to slow			
		190-193	No rotation			
18	26		<b>Rotating gobo fine indexing2:</b>		0	
		0-255	Fine indexing			

Standard	Extended	Value	Function	Hold Time	Default	Snap
19	27		<b>Rotating prism, Prism/Gobo macros:</b>		0	X
		0-63	Open			
		64-95	4 Prism			
		96-127	4 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					
20	28		<b>Rotating prism index, rotating gobo rotation:</b>		0	
		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			
	29		<b>Rotating prism indexing Fine :</b>		0	
		0-255	Fine indexing			
21	30		<b>Focus:</b>		127	
		0-255	Focus edge adjustment			
22	31		<b>Focus Fine:</b>		127	
		0-255	Focus adjustment Fine			
23	32		<b>Zoom:</b>		127	
		0-255	Zoom adjustment from small to big			
24	33		<b>Zoom Fine:</b>		127	
		0-255	Zoom adjustment Fine			

Standard	Extended	Value	Function	Hold Time	Default	Snap
	34		<b>Auto Focus :</b>		0	X
		0-50	Auto Focus Off			
		51-100	5m			
		101-150	7.5m			
		151-200	10m			
		201-255	15m			
	35		<b>AutoFocus Fine:</b>		0	
		0-255	Continuous adjustment Fine			
25	36		<b>Shutter, strobe:</b>		50	X
		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	37		<b>Dimmer:</b>		0	
		0-255	Intensity 0 to 100%			
27	38		<b>Dimmer Fine:</b>		0	
		0-255	Dimmer fine			

Standard	Extended	Value	Function	Hold Time	Default	Snap
28	39		<b>Dim Modes</b>		0	X
		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			
		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	40		<b>Iris:</b>		0	
		0-191	Max. diameter to Min. diameter			
		192-223	Pulse closing fast to slow			
		224-255	Pulse opening slow to fast			
	41		<b>Iris Fine:</b>		0	
		0-255	Iris Fine			
30	42		<b>Frost</b>		0	
		0-127	Open to Light Frost			
		128-255	Open to Wash Frost			
31	43		<b>Animation wheel:</b>		0	
		0-7	Open			
		8-255	Animation min to max			
32	44		<b>Animation index, animation rotation:</b>		0	
		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			

Standard	Extended	Value	Function	Hold Time	Default	Snap
	45		<b>Speed Of CMY &amp; Color macro Speed:</b>		0	
		0-255	Speed Max →Min			
			<b>Color macros - CMY and 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			
	46	128-135	Macro13		0	X
		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			

Standard	Extended	Value	Function	Hold Time	Default	Snap
33	47		<b>Blade 1A</b>		0	
		0-255	Open to Close			
	48		<b>Blade 1A Fine</b>		0	
		0-255	Open to Close Fine			
34	49		<b>Blade 1B</b>		0	
		0-255	Open to Close			
	50		<b>Blade 1B Fine</b>		0	
		0-255	Open to Close Fine			
35	51		<b>Blade 2A</b>		0	
		0-255	Open to Close			
	52		<b>Blade 2A Fine</b>		0	
		0-255	Open to Close Fine			
36	53		<b>Blade 2B</b>		0	
		0-255	Open to Close			
	54		<b>Blade 2B Fine</b>		0	
		0-255	Open to Close Fine			
37	55		<b>Blade 3A</b>		0	
		0-255	Open to Close			
	56		<b>Blade 3A Fine</b>		0	
		0-255	Open to Close Fine			
38	57		<b>Blade 3B</b>		0	
		0-255	Open to Close			
	58		<b>Blade 3B Fine</b>		0	
		0-255	Open to Close Fine			
39	59		<b>Blade 4A</b>		0	
		0-255	Open to Close			
	60		<b>Blade 4A Fine</b>		0	
		0-255	Open to Close Fine			
40	61		<b>Blade 4B</b>		0	
		0-255	Open to Close			
	62		<b>Blade 4B Fine</b>		0	
		0-255	Open to Close Fine			
41	63		<b>Framing Index / Rotation:</b>		0	
		0-127	Index (0-360 degrees)			
		128-189	CW rotation from fast to slow			
		190-193	No rotation			
		194-255	CCW rotation from fast to slow			
	64		<b>Framing Rotation Fine:</b>		0	
		0-255	Framing Rotation Fine			
	65		<b>Framing Speed:</b>		0	
		0-255	Speed Max →Min			



Standard	Extended	Value	Function	Hold Time	Default	Snap
			<b>Framing Macro:</b>			
		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		0	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			

Standard	Extended	Value	Function	Hold Time	Default	Snap	
	67		<b>Pan / Tilt Speed:</b>		0	X	
		0-225	Max to min speed				
		226-235	Blackout by movement				
		236-245	Blackout by all wheel changing				
		246-255	No function				
42	68		<b>Control:</b>		0	X	
		0-19	Color change normal				
		20-29	Color change to any position				
		30-39	Color & gobo change to any position	0s			
		40-44	Low Noise - Mute	1s			
		45-49	Low Noise - Studio				
		50-54	Fan Control - Low				
		55-59	Fan Control - High				
		60-64	Fan Control - Auto (Default)				
			65-79	Idle			3s
			80-84	All motor reset			
			85-87	Pan / Tilt reset			
			88-90	Color reset			
			91-93	Gobo reset			
			94-96	Focus and Zoom reset			1s
			97-99	Other motor reset			
			100-168	<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					

Standard	Extended	Value	Function	Hold Time	Default	Snap
42	68	127	1170	1s	0	x
		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			
		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			
169-176	Idle					

Standard	Extended	Value	Function	Hold Time	Default	Snap
		177-178	Hibernation Off	1s		
		179-180	Hibernation			
		181-190	smooth mode (Pan/Tilt brake) (default)			
		191-200	fast mode (Pan/Tilt brake)			
		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 of EEPROM)			
		242	Internal program 2 (scene9~16 of EEPROM)			
		243	Internal program 3 (scene17~24 of EEPROM)			
		244	Internal program 4 (scene25~32 of EEPROM)			
		245	Internal program 5 (scene33~40 of EEPROM)			
		246	Internal program 6 (scene41~48 of EEPROM)			
		247	Internal program 7 (scene49~56 of EEPROM)			
		248-249	CMY Normal			
		250-251	CMY Fast (default)			
		252-255	Idle			