

ADJ PROTEGE XM - DMX TRAITS

MODE / CHANNELS			VALUES	FUNCTION
29ch	35ch	43ch		
1	1	1		Pan
			000 - 255	Pan Movement, 540/630
	2	2		Pan Fine
			000 - 255	Pan Fine Adjustment
2	3	3		Tilt
			000 - 255	Tilt Movement, 270
	4	4		Tilt Fine
			000 - 255	Tilt Fine Adjustment
3	5	5		Continuous Pan
			000 - 127	No Function
			128 - 190	Clockwise Rotation, slow to fast
			191 - 192	Stop
			193 - 255	Counter-clockwise Rotation, fast to slow
4	6	6		Cyan
			000 - 255	0% to 100%
		7		Cyan Fine
			000 - 255	0% to 100%
5	7	8		Magenta
			000 - 255	0% to 100%
		9		Magenta Fine
			000 - 255	0% to 100%
6	8	10		Yellow
			000 - 255	0% to 100%
		11		Yellow Fine
			000 - 255	0% to 100%
7	9	12		Color Wheel 1
			000 - 005	Open
			006 - 011	Open / Red
			012 - 017	Red
			018 - 023	Red / Blue
			024 - 029	Blue
			030 - 035	Blue / Green
			036 - 041	Green
			042 - 047	Green / Orange
			048 - 053	Orange
			054 - 059	Orange / Quad Color 1
			060 - 065	Quad Color 1
			066 - 071	Quad Color 1 / Lime
			072 - 077	Lime
078 - 083	Lime / Amber			
084 - 089	Amber			
090 - 095	Amber / High CRI			

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MODE / CHANNELS			VALUES	FUNCTION
29ch	35ch	43ch		
7	9	12		Color Wheel 1 (continued)
			096 - 101	High CRI
			102 - 107	High CRI / Congo Blue
			108 - 113	Congo Blue
			114 - 119	Congo Blue / Open
			120 - 185	Clockwise Color Wheel Rotation, fast to slow
			186 - 189	No Rotation
			190 - 255	Counter-clockwise Color Wheel Rotation, slow to fast
8	10	13		Color Wheel 2
			000 - 005	Open
			006 - 011	Open / Dark Red
			012 - 017	Dark Red
			018 - 023	Dark Red / Midnight Blue
			024 - 029	Midnight Blue
			030 - 035	Midnight Blue / Light Turquoise
			036 - 041	Light Turquoise
			042 - 047	Light Turquoise / Pink
			048 - 053	Pink
			054 - 059	Pink / UV
			060 - 065	UV
			066 - 071	UV / Quad Color 2
			072 - 077	Quad Color 2
			078 - 083	Quad Color 2 / Lavender
			084 - 089	Lavender
			090 - 095	Lavender / CTO 2700K
			096 - 101	CTO 2700K
			102 - 107	CTO 2700K / CTC
			108 - 113	CTC
114 - 119	CTC / Open			
120 - 185	Clockwise Color Wheel Rotation, fast to slow			
186 - 189	No Rotation			
190 - 255	Counter-clockwise Color Wheel Rotation, slow to fast			
	11	14		Color Macros - CMY and Color Wheel
			000 - 031	Off
			032 - 039	Macro 1
			040 - 047	Macro 2
			048 - 055	Macro 3
			056 - 063	Macro 4
			064 - 071	Macro 5
			072 - 079	Macro 6
080 - 087	Macro 7			

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29ch	35ch	43ch		
	11	14		Color Macros - CMY and Color Wheel (continued)
			088 - 095	Macro 8
			096 - 103	Macro 9
			104 - 111	Macro 10
			112 - 119	Macro 11
			120 - 127	Macro 12
			128 - 135	Macro 13
			136 - 143	Macro 14
			144 - 151	Macro 15
			152 - 159	Macro 16
			160 - 167	Macro 17
			168 - 175	Macro 18
			176 - 183	Macro 19
			184 - 191	Macro 20
			192 - 199	Macro 21
			200 - 207	Macro 22
			208 - 215	Macro 23
			216 - 223	Macro 24
			224 - 231	Macro 25
			232 - 239	Macro 26
240 - 247	Macro 27			
248 - 255	Random CMY			
9	12	15		Gobo Wheel 1
			000 - 009	Open
			010 - 019	Gobo 1
			020 - 029	Gobo 2
			030 - 039	Gobo 3
			040 - 049	Gobo 4
			050 - 059	Gobo 5
			060 - 069	Gobo 6
			070 - 079	Gobo 7
			080 - 094	Gobo Shake 1, slow to fast
			095 - 109	Gobo Shake 2, slow to fast
			110 - 124	Gobo Shake 3, slow to fast
			125 - 139	Gobo Shake 4, slow to fast
			140 - 154	Gobo Shake 5, slow to fast
			155 - 169	Gobo Shake 6, slow to fast
			170 - 189	Gobo Shake 7, slow to fast
			190 - 221	Clockwise Gobo Wheel Rotation, fast to slow
222 - 223	No Rotation			
224 - 255	Counter-clockwise Gobo Wheel Rotation, slow to fast			

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MODE / CHANNELS			VALUES	FUNCTION
29ch	35ch	43ch		
10	13	16		Gobo Wheel 1 Rotation
			000 - 127	Gobo Indexing
			128 - 189	Clockwise Gobo Wheel Rotation, fast to slow
			190 - 193	No Rotation
			194 - 255	Counter-clockwise Gobo Rotation, slow to fast
	14	17		Gobo Wheel 1 Index Fine
000 - 255			Fine gobo indexing	
11	15	18		Gobo Wheel 2
			000 - 009	Open
			010 - 019	Gobo 1
			020 - 029	Gobo 2
			030 - 039	Gobo 3
			040 - 049	Gobo 4
			050 - 059	Gobo 5
			060 - 069	Gobo 6
			070 - 079	Gobo 7
			080 - 094	Gobo 1 Shake, slow to fast
			095 - 109	Gobo 1 Shake, slow to fast
			110 - 124	Gobo 1 Shake, slow to fast
			125 - 139	Gobo 1 Shake, slow to fast
			140 - 154	Gobo 1 Shake, slow to fast
			155 - 169	Gobo 1 Shake, slow to fast
			170 - 189	Gobo 1 Shake, slow to fast
			190 - 221	Clockwise Gobo Wheel Rotation, fast to slow
			222 - 223	No Rotation
			224 - 255	Counter-clockwise Gobo Wheel Rotation, slow to fast
12	16	19		Gobo Wheel 2 Rotation
			000 - 127	Gobo Indexing
			128 - 189	Clockwise Gobo Rotation, fast to slow
			190 - 193	No Rotation
			194 - 255	Counter-clockwise Gobo Rotation, slow to fast
	17	20		Gobo Wheel 2 Index Fine
000 - 255			Fine gobo indexing	
13	18	21		Shutter
			000 - 031	Shutter closed
			032 - 063	Shutter open
			064 - 095	Strobe, slow to fast
			096 - 127	Shutter open
			128 - 159	Pulse Effect, slow to fast
			160 - 191	Shutter open
			192 - 223	Random Strobe, slow to fast
224 - 255	Shutter open			

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MODE / CHANNELS			VALUES	FUNCTION
29ch	35ch	43ch		
14	19	22		Dimmer
			000 - 255	Intensity, 0% to 100%
		23		Dimmer Fine
			000 - 255	Fine dimmer intensity
15	20	24		Prism 1
			000 - 031	No Effect
			032 - 255	Prism 1
16	21	25		Prism 1 Rotate and Index
			000 - 127	Prism 1 Indexing
			128 - 189	Clockwise Rotation, fast to slow
			190 - 193	No Rotation
			194 - 255	Counter-clockwise Rotation, slow to fast
		26		Prism 1 Index Fine
			000 - 255	Fine 16-bit index
17	22	27		Prism 2
			000 - 031	No Effect
			032 - 255	Prism 2
18	23	28		Prism 2 Rotate and Index
			000 - 127	Prism 2 Indexing
			128 - 189	Clockwise Rotation, fast to slow
			190 - 193	No Rotation
			194 - 255	Counter-clockwise Rotation, slow to fast
		29		Prism 2 Index Fine
			000 - 255	Fine 16-bit index
19	24	30		Prism/Gobo Macros
			000 - 009	No Prism - Open
			010 - 019	Macro 1
			020 - 029	Macro 2
			030 - 039	Macro 3
			040 - 049	Macro 4
			050 - 059	Macro 5
			060 - 069	Macro 6
			070 - 079	Macro 7
			080 - 089	Macro 8
			090 - 099	Macro 9
			100 - 109	Macro 10
			110 - 119	Macro 11
			120 - 129	Macro 12
			130 - 139	Macro 13
			140 - 149	Macro 14
			150 - 159	Macro 15
160 - 169	Macro 16			

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MODE / CHANNELS			VALUES	FUNCTION
29ch	35ch	43ch		
19	24	30		Prism/Gobo Macros (continued)
			170 - 179	Macro 17
			180 - 189	Macro 18
			190 - 199	Macro 19
			200 - 209	Macro 20
			210 - 219	Macro 21
			220 - 229	Macro 22
			230 - 239	Macro 23
		240 - 255	Macro 24	
20	25	31		Focus
			000 - 255	0% to 100%
		32		Focus Fine
			000 - 255	0% to 100%
21	26	33		Zoom
			000 - 255	Narrow to wide
		34		Zoom Fine
			000 - 255	Narrow to wide, 16-bit
22	27	35		Medium Frost
			000 - 255	0% to 100%
23	28	36		Heavy Frost
			000 - 255	0% to 100%
24	29	37		Animation
			000 - 019	No Function
			020 - 127	Enter in Proportion
			128 - 170	All on - All in - All out (fast to slow)
			171 - 213	Half open - Full access - Half open (fast to slow)
214 - 255	Half open - All out - Half open (fast to slow)			
25	30	38		Animation Rotation
			000	No Function
			001 - 127	Clockwise, fast to slow
			128	Stop
		129 - 255	Counter-clockwise, slow to fast	
26	31	39		Dimmer Mode
			000 - 020	Default to Unit Setting
			021 - 040	Standard
			041 - 060	Stage
			061 - 080	TV
			081 - 100	Architectural
			101 - 120	Theater
			121 - 140	Stage 2
141 - 160	Dim Speed, fast to slow (0.1s to 10s)			
		161 - 255	Default to Unit Setting	

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MODE / CHANNELS			VALUES	FUNCTION
29ch	35ch	43ch		
	32	40		Dim Curves
			000 - 020	No Function
			021 - 040	Linear
			041 - 060	Square
			061 - 080	Inv. Squa.
			081 - 100	S. Curve
			101 - 255	No Function
27	33	41		CMY and Color Macro Speed
			000 - 255	Maximum to minimum
28	34	42		Pan/Tilt Speed
			000 - 225	Fast to slow
			226 - 235	Blackout by movement
			236 - 245	Blackout by all wheel changing
			246 - 255	No Function
29	35	43		Special Functions
			000 - 029	No Function
			030 - 039	Fan Control - Mute (hold 3s)
			040 - 049	Fan Control - Low (hold 3s)
			050 - 059	Fan Control - High (hold 3s)
			060 - 069	Fan Control - Auto (hold 3s)
			070 - 074	All Motor Reset
			075 - 079	Pan/Tilt Reset
			080 - 084	CMY Reset
			085 - 089	No Function
			090 - 094	Effect Reset 1 (color, gobo, animation)
			095 - 099	Effect Reset 2 (prism, frost, focus, zoom)
			100 - 142	No Function
			143 - 144	Pan/Tilt Speed Standard (hold 3s)
			145 - 146	Pan/Tilt Speed Fast (hold 3s)
			147 - 148	No Function
			149 - 150	Aria On (hold 3s)
			151 - 152	Aria Off (hold 3s)
			153 - 154	Hibernation Enable (hold 3s)
			155 - 156	Hibernation Off (hold 3s)
			157 - 158	Display Backlight On (hold 3s)
			159 - 160	Display Backlight Off (hold 3s)
			161 - 164	No Function
165 - 166	Invert Pan On (hold 3s)			
167 - 168	Invert Pan Off (hold 3s)			
169 - 170	Invert Tilt On (hold 3s)			
171 - 172	Invert Tilt Off (hold 3s)			

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MODE / CHANNELS			VALUES	FUNCTION
29ch	35ch	43ch		
29	35	43		LED Refresh Rate (Hz)
			173	900
			174	910
			175	920
			176	930
			177	940
			178	950
			179	960
			180	970
			181	980
			182	990
			183	1000
			184	1010
			185	1020
			186	1030
			187	1040
			188	1050
			189	1060
			190	1070
			191	1080
			192	1090
			193	1100
			194	1110
			195	1120
			196	1130
			197	1140
			198	1150
			199	1160
			200	1170
			201	1180
			202	1190
			203	1200
			204	1210
			205	1220
			206	1230
			207	1240
			208	1250
			209	1260
			210	1270
			211	1280
			212	1290
213	1300			

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MODE / CHANNELS			VALUES	FUNCTION
29ch	35ch	43ch		
29	35	43		LED Refresh Rate (Hz) (continued)
			214	1310
			215	1320
			216	1330
			217	1340
			218	1350
			219	1360
			220	1370
			221	1380
			222	1390
			223	1400
			224	1410
			225	1420
			226	1430
			227	1440
			228	1450
			229	1460
			230	1470
			231	1480
			232	1490
			233	1500
			234	2500
			235	4000
			236	5000
			237	6000
			238	10,000
			239	15,000
			240	20,000
			241	25,000
			242	Internal Program 1
			243	Internal Program 2
			244	Internal Program 3
			245	Internal Program 4
			246	Internal Program 5
247	Internal Program 6			
248	Internal Program 7			
249	Internal Programs Off			
250 - 252	Enable CT Mode			
253 - 255	Disable CT Mode			