

appendix a

DMX PROTOCOL

DMX Channel Offset												DMX Value	Effect
Pro 1220 CMYR - mode				Pro 1220 XR - mode				Pro 1220 RPR - mode					
1	2	3	4	1	2	3	4	1	2	3	4		
0 NOTE! Only with LoFF = on				0 NOTE! Only with LoFF = on				0 NOTE! Only with LoFF = on				0 - 49 50 - 177 178 - 199 200 - 243 244 - 247 248 - 251 252 - 255	Strobe, Fan Speed, Reset, Lamp On/Off No Function Strobe On Fast → Slow No Function Fan Low Lamp Off (T > 5 seconds) Reset Lamp On
0 NOTE! Only with LoFF = oFF				0 NOTE! Only with LoFF = oFF				0 NOTE! Only with LoFF = oFF				0 - 49 50 - 177 178 - 199 200 - 247 248 - 251 252 - 255	Strobe, Fan Speed, Reset, Lamp On No Function Strobe On Fast →Slow No Function Fan Low Reset Lamp On
1				1				1				0 - 255	Intensity 0 → 100%
2				-				2				0 - 10 - 20 - 30 - 40 - 50 - 60 - 70 - 80 - 90 - 97 98 - 105 106 - 113 114 - 121 122 - 129 130 - 137 138 - 145 146 - 153 154 - 161 162 - 208 209 - 255	Color 1 (Pro 1220 CMYR / RPR) White → Amber → Fern Green → Light Blue → Flame Red → Primary Green → Blue → Orange → Turquoise → Purple Turquoise Orange Blue Primary Greens Flame Red Light Blue Fern Green Amber Continuous Color Scroll CW (fast → slow) Continuous Color Scroll CCW (slow → fast)

DMX Channel Offset												DMX Value	Effect
Pro 1220 CMYR - mode				Pro 1220 XR - mode				Pro 1220 RPR - mode					
1	2	3	4	1	2	3	4	1	2	3	4		
-				2				-				0 -	Color 1 (Pro 1220 XR)
												10 -	White →
												20 -	Flame Red →
												30 -	Pink →
												40 -	Cyan Blue →
												50 -	Yellow →
												60 -	Orange →
												70 -	Dark Blue →
												80 -	Magenta →
												90 - 97	Primary Green →
												98 - 105	Dark Lavender
												106 - 113	Primary Green
												114 - 121	Magenta
												122 - 129	Dark Blue
												130 - 137	Orange
138 - 145	Yellow												
146 - 153	Cyan Blue												
154 - 161	Pink												
											162 - 208	Flame Red	
											209 - 255	Continuous Color Scroll CW (fast → slow)	
												209 - 255	Continuous Color Scroll CCW (slow → fast)
3				-				3				0 -	Color 2 (Pro 1220 CMYR / RPR)
												10 -	White →
												20 -	CTC 5500 - 3400 (Hot) →
												30 -	CTC 3500 - 5600 (Cold) →
												40 -	Dark Orange →
												50 -	Primary Red →
												60 -	UV Pass →
												70 -	Dark Blue →
												80 -	Dark Lavender →
												90 - 97	Pink
												98 - 105	Light Green →
												106 - 113	Pink
												114 - 121	Dark Lavender
												122 - 129	Dark Blue
												130 - 137	UV Pass
138 - 145	Primary Red												
146 - 153	Dark Orange												
154 - 161	CTC 3500-5600 K (Cold)												
											162 - 208	CTC 5500-3400 K (Hot)	
											209 - 255	Continuous Color Scroll CW (fast → slow)	
												209 - 255	Continuous Color Scroll CCW (slow → fast)
4				-				-				0 - 255	White → Cyan
5				-				-				0 - 255	White → Magenta
6				6				-				0 - 255	White → Yellow

DMX Channel Offset												DMX Value	Effect
Pro 1220 CMYR - mode				Pro 1220 XR - mode				Pro 1220 RPR - mode					
1	2	3	4	1	2	3	4	1	2	3	4		
7				3				4				0 - 20 - 40 - 60 - 80 - 100 - 120 - 140 - 160 - 180 - 188 189 - 196 197 - 204 205 - 212 213 - 220 221 - 228 229 - 236 237 - 244 245 - 255	Gobo1 Open → Stars → Star → Dots → Cone → Pling → Dot-Circle → Bells → Flower → Turbine Flower Bells Dot-Cone Pling Cone Dots Star Stars
8 NOTE! <i>Orientation and continuous rotation parameters are programmed on channel 9</i>				4 NOTE! <i>Orientation and continuous rotation parameters are programmed on channel 5</i>				5 NOTE! <i>Orientation and continuous rotation parameters are programmed on channel 6</i>				0 - 24 25 - 49 50 - 74 75 - 99 100 - 125 126 - 157 158 - 189 190 - 221 222 - 255	Rotating Gobo selection Open Gobo - no Rotation Gobo 1 - Indexed Gobo 2 - Indexed Gobo 3 - Indexed Gobo 4 - Indexed Gobo 4 - Continuous rotation Gobo 3 - Continuous rotation Gobo 2 - Continuous rotation Gobo 1 - Continuous rotation
9 NOTE! <i>The Pro 1220 will re-index the gobo before moving the gobo to the programmed orientation.</i>				5 NOTE! <i>The Pro 1220 will re-index the gobo before moving the gobo to the programmed orientation.</i>				6 NOTE! <i>The Pro 1220 will re-index the gobo before moving the gobo to the programmed orientation.</i>				0 - 126 127 128 - 255 0 1 - 127 128 - 254 255	Rotating Gobo Orientation Orientation CW Default (Index) Orientation CCW Continuous Rotation Static CCW slow → fast CW fast → slow Static
10				6				7				0 - 9 10 - 177 178 - 255	Focus Default Near → Far Focus Far Focus
11				7				8				0 - 157 158 - 255	Iris Full Open → Full Close Full Close

DMX Channel Offset												DMX Value	Effect
Pro 1220 CMYR - mode				Pro 1220 XR - mode				Pro 1220 RPR - mode					
1	2	3	4	1	2	3	4	1	2	3	4		
12				-				-				0 - 49 50 - 99 100 - 149 150 - 255	Prisms, Frost (Pro 1220 CMYR) Open 3-Facet frost 5-Facet
-				8				-				0 - 42 43 - 84 85 - 127 128 - 170 171 - 212 213 - 255	Prisms, Frost (Pro 1220 XR) Open CTC 5500 - 3400 K (Hot) Frost 3-Facet Open 5-Facet
-				-				9 NOTE! <i>Orientation and continuous rotation parameters are programmed on channel 10</i>				0 - 24 25 - 49 50 - 74 75 99 100 - 125 126 - 157 158 - 189 190 - 221 222 - 255	Rotting Prisms Selection (Pro 1220 RPR) Open Prism - no Rotation Prism 1 - indexed Prism 2 - indexed Prism 3 - indexed Prism 4 - indexed Prism 4 - Continous rotation Prism 3 - Continous rotation Prism 2 - Continous rotation Prism 1 - Continous rotation
-				-				10 NOTE! <i>The Pro 1220 will re-index the prism before moving the gobo to the programmed orientation.</i>				0 - 126 127 128 - 255 0 1 - 127 128 - 254 255	Rotating Prism Orientation Orientation CW Default (Index) Orientation CCW Continuous Rotation Static CCW slow → fast CW fast → slow Static
13	-	13	-	9	-	9	-	11	-	11	-	0 - 255	Pan Left → Right (127 = Neutral)
14	-	14	-	10	-	10	-	12	-	12	-	0 - 255	Tilt Up → Down (127 = Neutral)
-	13	-	13	-	9	-	9	-	11	-	11	0 - 255	Pan MSB Left → Right (127 = Neutral)
-	14	-	14	-	10	-	10	-	12	-	12	0 - 255	Pan LSB Left → Right
-	15	-	15	-	11	-	11	-	13	-	13	0 - 255	Tilt MSB Up → Down (127 = Neutral)
-	16	-	16	-	12	-	12	-	14	-	14	0 - 255	Tilt LSB Up → Down

DMX Channel Offset												DMX Value	Effect
Pro 1220 CMYR - mode				Pro 1220 XR - mode				Pro 1220 RPR - mode					
1	2	3	4	1	2	3	4	1	2	3	4		
-	-	15	17	-	-	11	13	-	-	13	15	0 1 - 251 252 - 255	Speed: Pan, Tilt Tracking Speed Fast → Slow Blackout while moving
-	-	16	18	-	-	12	14	-	-	14	16	0 1 - 251 252 - 255	Speed: Dimmer, Cyan, Magenta, Yellow, Iris, Focus Tracking Speed Fast → Slow Fast Speed
-	-	16	18	-	-	12	14	-	-	14	16	0 1 - 251 252 - 255	Speed: Color1, Color2, Gobo1, Prism Tracking Speed Fast → Slow Blackout while moving
-	-	16	18	-	-	12	14	-	-	14	16	0 - 251 252 - 255	Speed: Rotating Gobo Change, Prism Change Shutter open while moving Blackout while moving