



MOTOQ3 DMX Mapping

Firmware Version: **MOTOQ3 V4.0 or newer**

Control The Control Channel consolidates extraneous parameters in all non-EZ modes	
DMX Value	Parameter
0 - 9	Keep current settings. No change
10 - 19	Motor Enable (default) (20 packets)
20 - 29	Motor Disable (20 packets)
30 - 39	Motor speed slow (default) (20 packets)
40 - 49	Motor speed fast (20 packets)
50 - 59	Step Motor position calibration (40 packets)
60 - 69	Reserved TBD
70 - 79	Screen Flip Up (default) (20 packets)
80 - 89	Screen Flip Down (20 packets)
90 - 99	Reserved TBD
100 - 109	Reserved TBD
110 - 119	Reserved TBD
120 - 129	Intensity Curve Gamma (default) (20 packets)
130 - 139	Intensity Curve Linear (20 packets)
140 - 149	Dimming Smooth (20 packets)
150 - 159	Dimming Sharp (20 packets)
160 - 169	White point 6500K (default) (20 packets)
170 - 179	White point 5600K (20 packets)
180 - 189	White point 3200K (20 packets)
190 - 199	Reserved TBD
200 - 209	Fan Silent
210 - 219	Fan Auto (Fixture auto adjusts)
220 - 229	Fan Full Speed
230 - 239	Fan Off
240 - 249	Reserved TBD
250 - 255	Reserved TBD

Standard Modes

Mode	8-bit (DMX Footprint)	16-bit (DMX Footprint)	Page
MOTO	N/A	Mode 200 (8)	<u>4</u>
MOTO CCT	Mode 201 (12)	Mode 209 (15)	<u>4</u>
MOTO HSI *	Mode 202 (12)	Mode 210 (15)	<u>5</u>
MOTO RGBW *	Mode 203 (14)	Mode 211 (19)	<u>5</u>
MOTO CIExy	Mode 206 (12)	Mode 214 (15)	<u>6</u>
MOTO GEL	Mode 207 (12)	Mode 215 (13)	<u>7</u>
MOTO RGB *	Mode 240 (12)	Mode 245 (15)	<u>8</u>

CCT Modes

CCT modes allow white point adjustment using the “CCT” and “Green Adjust” parameters.

MOTO CCTHSI **	Mode 204 (15)	Mode 212 (21)	<u>9</u>
MOTO CCTRGBW **	Mode 205 (17)	Mode 213 (25)	<u>10</u>
MOTO CCTxy ***	Mode 241 (15)	Mode 246 (21)	<u>11</u>

ICT Modes

ICT modes allow white point adjustment like CCT+ modes, but without a “Crossfade” parameter.

MOTO ICTHS **	Mode 242 (14)	Mode 247 (19)	<u>12</u>
MOTO ICTRGBW **	Mode 243 (16)	Mode 248 (23)	<u>13</u>
MOTO ICTxy ***	Mode 244 (14)	Mode 249 (19)	<u>14</u>

EZ Modes

EZ modes include no “Strobe Frequency” or “Control” parameters, shortening the DMX footprint.

MOTO EZ CCT	Mode 250 (9)	Mode 263 (12)	<u>15</u>
MOTO EZ HSI *	Mode 251 (9)	Mode 264 (12)	<u>15</u>
MOTO EZ RGBW *	Mode 252 (11)	Mode 265 (16)	<u>15</u>
MOTO EZ CCTHSI **	Mode 253 (12)	Mode 266 (18)	<u>16</u>
MOTO EZ CCTRGBW **	Mode 254 (14)	Mode 267 (22)	<u>16</u>
MOTO EZ CIExy	Mode 255 (9)	Mode 268 (12)	<u>17</u>
MOTO EZ RGB *	Mode 256 (9)	Mode 269 (12)	<u>17</u>
MOTO EZ CCTxy **	Mode 257 (12)	Mode 270 (18)	<u>17</u>
MOTO EZ ICTHS **	Mode 258 (11)	Mode 271 (16)	<u>18</u>
MOTO EZ ICTRGBW **	Mode 259 (13)	Mode 272 (20)	<u>18</u>
MOTO EZ ICTxy ***	Mode 260 (11)	Mode 273 (16)	<u>19</u>
MOTO EZ 3200K	Mode 261 (7)	Mode 274 (8)	<u>19</u>
MOTO EZ 5600K	Mode 262 (7)	Mode 275 (8)	<u>19</u>

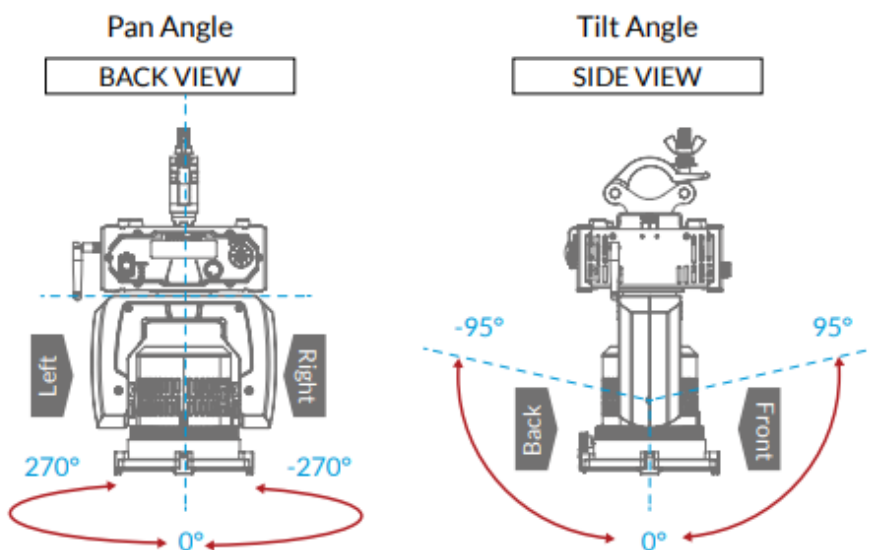
ALL Modes

Mode	8-bit (DMX Footprint)	16-bit (DMX Footprint)	Page
ALL MODES	Mode 276 (17)	Mode 277 (25)	<u>20</u>

Notes

- * HSI, RGBW and RGB modes are based on a white point of 6500K. For instance, in HSI mode, when "Saturation"=0%, the fixture produces 6500K white.
- ** In CCTHSI, CCTRGBW, ICTHS and ICTRGBW modes, the white point is determined and can be adjusted by the "CCT" and "Green Adjust" parameters. This applies at any "Crossfade " value in CCTHSI and CCTRGBW modes. The following scenarios illustrate how white point is determined by the "CCT" parameter, given all other parameters being the same.
 - Scenario 1:** In CCTRGBW modes, the following settings produce 3200K white. Notice that "Crossfade" has no effect on the white point
 - CCT=3200K, Xfade=0%
 - CCT=3200K, Xfade=100%, W= 100%
 - CCT=3200K, Xfade=100%, RGB=100%
 - CCT=3200K, Xfade=100%, RGBW=100%
 - Scenario 2:** In CCTHSI modes, the following settings produce 2800K and 5600K white respectively. Notice "CCT" is the differentiating parameter.
 - (3200K output) CCT=3200K, RGBW=100%
 - (5600K output) CCT=6500K, RGBW=100%
- *** In CCTxy and ICTxy modes, the "CCT" and "Green Adjust" parameters allow slight adjustment of the color temperature and tint for the selected "CIEx" and "CIEy" coordinates. To produce an output true to the CIEx and CIEy coordinates, set "CCT"=6500K and "Green Adjust"=0.00.

Pan & Tilt Angle Definition



Mode 200 : MOTO , 16-bit

16-bit DMX	Function	8-bit/16-bit Value	Range
1-2	PAN	0 - 65,535	-270° - +270°
3-4	TILT	0 - 65,535	-95° - +95°
5-6	ZOOM (Not Supported)	0 - 65,535	0 - 100 (%)
7	Control	See control table	
8	Reserved	TBD	

Mode 201 (8-bit) / Mode 209 (16-bit) : MOTO CCT

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
5-6	8-9	PAN	0 - 65,535		-270° - +270°
7-8	10-11	TILT	0 - 65,535		-95° - +95°
9-10	12-13	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
11	14	Control	See control table		
12	15	Reserved	TBD		

Mode 202 (8-bit) / Mode 210 (16-bit) : MOTO HSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	Hue	0 - 255	0 - 65,535	0° - 360°
3	5-6	Saturation	0 - 255	0 - 65,535	0% - 100%
4	7	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
5-6	8-9	PAN	0 - 65,535		-270° - +270°
7-8	10-11	TILT	0 - 65,535		-95° - +95°
9-10	12-13	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
11	14	Control	See control table		
12	15	Reserved	TBD		

Mode 203 (8-bit) / Mode 211 (16-bit) : MOTO RGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	Intensity Red	0 - 255	0 - 65,535	0% - 100%
3	5-6	Intensity Green	0 - 255	0 - 65,535	0% - 100%
4	7-8	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity White	0 - 255	0 - 65,535	0% - 100%
6	11	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
7-8	12-13	PAN	0 - 65,535		-270° - +270°
9-10	14-15	TILT	0 - 65,535		-95° - +95°
11-12	16-17	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
13	18	Control	See control table		
14	19	Reserved	TBD		

Mode 206 (8-bit) / Mode 214 (16-bit) : MOTO CIExy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	x	0 - 255	0 - 65,535	0.0 - 0.8
3	5-6	y	0 - 255	0 - 65,535	0.0 - 0.8
4	7	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
5-6	8-9	PAN	0 - 65,535		-270° - +270°
7-8	10-11	TILT	0 - 65,535		-95° - +95°
9-10	12-13	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
11	14	Control	See control table		
12	15	Reserved	TBD		

Mode 207 (8-bit) / Mode 215 (16-bit) : MOTO GEL

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3	Gel Filter	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 119 120 - 129 130 - 139 140 - 149 150 - 159 160 - 169 170 - 179 180 - 189 190 - 199 200 - 209 210 - 255		None Bastard Amber Straw Light Amber Light Flame Golden Amber Light Red No Color Pink Middle Rose Light Rose Purple Surprise Pink No Color Blue Daylight Blue Primary Blue Moss Green Blue Green Gel 1 Gel 2 Gel 3 Gel 4 Gel 5 Reserved
3	4	CCT (Disabled for Gel 1-5)	0 - 99 100 - 255		3200K 6500K
4	5	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
5-6	6-7	PAN	0 - 65,535		-270° - +270°
7-8	8-9	TILT	0 - 65,535		-95° - +95°
9-10	10-11	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
11	12	Control	See control table		
12	13	Reserved	TBD		

Mode 240 (8-bit) / Mode 245 (16-bit) : MOTO RGB

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Intensity Red	0 - 255	0 - 65,535	0% - 100%
2	3-4	Intensity Green	0 - 255	0 - 65,535	0% - 100%
3	5-6	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
4	7	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
5-6	8-9	PAN	0 - 65,535		-270° - +270°
7-8	10-11	TILT	0 - 65,535		-95° - +95°
9-10	12-13	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
11	14	Control	See control table		
12	15	Reserved	TBD		

Mode 204 (8-bit) / Mode 212 (16-bit) : MOTO CCTHSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	Hue	0 - 255	0 - 65,535	0° - 360°
6	11-12	Saturation	0 - 255	0 - 65,535	0% - 100%
7	13	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
8-9	14-15	PAN	0 - 65,535		-270° - +270°
10-11	16-17	TILT	0 - 65,535		-95° - +95°
12-13	18-19	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
14	20	Control	See control table		
15	21	Reserved	TBD		

Mode 205 (8-bit) / Mode 213 (16-bit) : MOTO CTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity Red	0 - 255	0 - 65,535	0% - 100%
6	11-12	Intensity Green	0 - 255	0 - 65,535	0% - 100%
7	13-14	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
8	15-16	Intensity White	0 - 255	0 - 65,535	0% - 100%
9	17	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
10-11	18-19	PAN	0 - 65,535		-270° - +270°
12-13	20-21	TILT	0 - 65,535		-95° - +95°
14-15	22-23	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
16	24	Control	See control table		
17	25	Reserved	TBD		

Mode 241 (8-bit) / Mode 246 (16-bit) : MOTO CCTxy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	x	0 - 255	0 - 65,535	0.0 - 0.8
6	11-12	y	0 - 255	0 - 65,535	0.0 - 0.8
7	13	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
8-9	14-15	PAN	0 - 65,535		-270° - +270°
10-11	16-17	TILT	0 - 65,535		-95° - +95°
12-13	18-19	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
14	20	Control	See control table		
15	21	Reserved	TBD		

Mode 242 (8-bit) / Mode 247 (16-bit) : MOTO ICTHS

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Hue	0 - 255	0 - 65,535	0° - 360°
5	9-10	Saturation	0 - 255	0 - 65,535	0% - 100%
6	11	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
7-8	12-13	PAN	0 - 65,535		-270° - +270°
9-10	14-15	TILT	0 - 65,535		-95° - +95°
11-12	16-17	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
13	18	Control	See control table		
14	19	Reserved	TBD		

Mode 243 (8-bit) / Mode 248 (16-bit) : MOTO ICTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Intensity Red	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity Green	0 - 255	0 - 65,535	0% - 100%
6	11-12	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
7	13-14	Intensity White	0 - 255	0 - 65,535	0% - 100%
8	15	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
9-10	16-17	PAN	0 - 65,535		-270° - +270°
11-12	18-19	TILT	0 - 65,535		-95° - +95°
13-14	20-21	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
15	22	Control	See control table		
16	23	Reserved	TBD		

Mode 244 (8-bit) / Mode 249 (16-bit) : MOTO ICTxy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	x	0 - 255	0 - 65,535	0.0 - 0.8
5	9-10	y	0 - 255	0 - 65,535	0.0 - 0.8
6	11	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
7-8	12-13	PAN	0 - 65,535		-270° - +270°
9-10	14-15	TILT	0 - 65,535		-95° - +95°
11-12	16-17	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
13	18	Control	See control table		
14	19	Reserved	TBD		

Mode 250 (8-bit) / Mode 263 (16-bit) : MOTO EZ CCT

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4-5	7-8	PAN	0 - 65,535		-270° - +270°
6-7	9-10	TILT	0 - 65,535		-95° - +95°
8-9	11-12	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 251 (8-bit) / Mode 264 (16-bit) : MOTO EZ HSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	Hue	0 - 255	0 - 65,535	0° - 360°
3	5-6	Saturation	0 - 255	0 - 65,535	0% - 100%
4-5	7-8	PAN	0 - 65,535		-270° - +270°
6-7	9-10	TILT	0 - 65,535		-95° - +95°
8-9	11-12	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 252 (8-bit) / Mode 265 (16-bit) : MOTO EZ RGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	Intensity Red	0 - 255	0 - 65,535	0% - 100%
3	5-6	Intensity Green	0 - 255	0 - 65,535	0% - 100%
4	7-8	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity White	0 - 255	0 - 65,535	0% - 100%
6-7	11-12	PAN	0 - 65,535		-270° - +270°
8-9	13-14	TILT	0 - 65,535		-95° - +95°
10-11	15-16	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 253 (8-bit) / Mode 266 (16-bit) : MOTO EZ CCTHSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	Hue	0 - 255	0 - 65,535	0° - 360°
6	11-12	Saturation	0 - 255	0 - 65,535	0% - 100%
7-8	13-14	PAN	0 - 65,535		-270° - +270°
9-10	15-16	TILT	0 - 65,535		-95° - +95°
11-12	17-18	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 254 (8-bit) / Mode 267 (16-bit) : MOTO EZ CCTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity Red	0 - 255	0 - 65,535	0% - 100%
6	11-12	Intensity Green	0 - 255	0 - 65,535	0% - 100%
7	13-14	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
8	15-16	Intensity White	0 - 255	0 - 65,535	0% - 100%
9-10	17-18	PAN	0 - 65,535		-270° - +270°
11-12	19-20	TILT	0 - 65,535		-95° - +95°
13-14	21-22	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 255 (8-bit) / Mode 268 (16-bit) : MOTO EZ CIE_{xy}

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	x	0 - 255	0 - 65,535	0.0 - 0.8
3	5-6	y	0 - 255	0 - 65,535	0.0 - 0.8
4-5	7-8	PAN	0 - 65,535		-270° - +270°
6-7	9-10	TILT	0 - 65,535		-95° - +95°
8-9	11-12	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 256 (8-bit) / Mode 269 (16-bit) : MOTO EZ RGB

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Intensity Red	0 - 255	0 - 65,535	0% - 100%
2	3-4	Intensity Green	0 - 255	0 - 65,535	0% - 100%
3	5-6	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
4-5	7-8	PAN	0 - 65,535		-270° - +270°
6-7	9-10	TILT	0 - 65,535		-95° - +95°
8-9	11-12	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 257 (8-bit) / Mode 270 (16-bit) : MOTO EZ CCT_{xy}

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	x	0 - 255	0 - 65,535	0.0 - 0.8
6	11-12	y	0 - 255	0 - 65,535	0.0 - 0.8
7-8	13-14	PAN	0 - 65,535		-270° - +270°
9-10	15-16	TILT	0 - 65,535		-95° - +95°
11-12	17-18	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 258 (8-bit) / Mode 271 (16-bit) : MOTO EZ ICTHS

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Hue	0 - 255	0 - 65,535	0° - 360°
5	9-10	Saturation	0 - 255	0 - 65,535	0% - 100%
6-7	11-12	PAN	0 - 65,535		-270° - +270°
8-9	13-14	TILT	0 - 65,535		-95° - +95°
10-11	15-16	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 259 (8-bit) / Mode 272 (16-bit) : MOTO EZ ICTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Intensity Red	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity Green	0 - 255	0 - 65,535	0% - 100%
6	11-12	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
7	13-14	Intensity White	0 - 255	0 - 65,535	0% - 100%
8-9	15-16	PAN	0 - 65,535		-270° - +270°
10-11	17-18	TILT	0 - 65,535		-95° - +95°
12-13	19-20	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 260 (8-bit) / Mode 273 (16-bit) : MOTO EZ ICTxy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	x	0 - 255	0 - 65,535	0.0 - 0.8
5	9-10	y	0 - 255	0 - 65,535	0.0 - 0.8
6-7	11-12	PAN	0 - 65,535		-270° - +270°
8-9	13-14	TILT	0 - 65,535		-95° - +95°
10-11	15-16	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 261 (8-bit) / Mode 274 (16-bit) : MOTO EZ 3200K

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2-3	3-4	PAN	0 - 65,535		-270° - +270°
4-5	5-6	TILT	0 - 65,535		-95° - +95°
6-7	7-8	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 262 (8-bit) / Mode 275 (16-bit) : MOTO EZ 5600K

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2-3	3-4	PAN	0 - 65,535		-270° - +270°
4-5	5-6	TILT	0 - 65,535		-95° - +95°
6-7	7-8	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)

Mode 276 (8-bit) / Mode 277 (16-bit) : ALL MODES

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3	Color Mode Selection	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 119 120 - 129 130 - 255		CCT HSI RGBW CCTHSI CCTRGBW CIExy GEL DEMO RGB CCTxy ICTHS ICTRGBW ICTxy Reserved
3	4-5	Color Parameter 1	See table below		
4	6-7	Color Parameter 2			
5	8-9	Color Parameter 3			
6	10-11	Color Parameter 4			
7	12-13	Color Parameter 5			
8	14-15	Color Parameter 6			
9	16-17	Color Parameter 7			
10	18	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
11-12	19-20	PAN	0 - 65,535		-270° - +270°
13-14	21-22	TILT	0 - 65,535		-95° - +95°
15-16	23-24	ZOOM (Not Supported)	0 - 65,535		0 - 100 (%)
17	25	Control	See control table		

Mode 276 (8-bit) / Mode 277 (16-bit) : ALL MODES (continued 1)

		CCT				HSI			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 - 255	0 - 65,535	2000K - 10000K	Hue	0 - 255	0 - 65,535	0° - 360°
4	6-7	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Saturation	0 - 255	0 - 65,535	0% - 100%
		RGBW				RGB			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	INT Red	0 - 255	0 - 65,535	0% - 100%	INT Red	0 - 255	0 - 65,535	0% - 100%
4	6-7	INT Green	0 - 255	0 - 65,535	0% - 100%	INT Green	0 - 255	0 - 65,535	0% - 100%
5	8-9	INT Blue	0 - 255	0 - 65,535	0% - 100%	INT Blue	0 - 255	0 - 65,535	0% - 100%
6	10-11	INT White	0 - 255	0 - 65,535	0% - 100%				
		CCTRGBW				CCTHSI			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 - 255	0 - 65,535	2000K - 10000K	CCT	0 - 255	0 - 65,535	2000K - 10000K
4	6-7	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
5	8-9	Crossfade	0 - 255	0 - 65,535	0% - 100%	Crossfade	0 - 255	0 - 65,535	0% - 100%
6	10-11	INT Red	0 - 255	0 - 65,535	0% - 100%	Hue	0 - 255	0 - 65,535	0° - 360°
7	12-13	INT Green	0 - 255	0 - 65,535	0% - 100%	Saturation	0 - 255	0 - 65,535	0% - 100%
8	14-15	INT Blue	0 - 255	0 - 65,535	0% - 100%				
9	16-17	INT White	0 - 255	0 - 65,535	0% - 100%				
		CCTxy				ICTHS			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 - 255	0 - 65,535	2000K - 10000K	CCT	0 - 255	0 - 65,535	2000K - 10000K
4	6-7	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
5	8-9	Crossfade	0 - 255	0 - 65,535	0% - 100%	Hue	0 - 255	0 - 65,535	0° - 360°
6	10-11	x	0 - 255	0 - 65,535	0.0 - 0.8	Saturation	0 - 255	0 - 65,535	0% - 100%
7	12-13	y	0 - 255	0 - 65,535	0.0 - 0.8	Reserved	TBD		

		GEL			DEMO					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range	
3	4-5	Gel Filter	0 - 9		None	Demo Selection	0 - 9		No effect(Stop Effect)	
			10 - 19		Bastard Amber		10 - 19		Candle	
			20 - 29		Straw		20 - 29		Club light	
			30 - 39		Light Amber		30 - 39		Color chase	
			40 - 49		Light Flame		40 - 49		Cop car	
			50 - 59		Golden Amber		50 - 59		Fireworks	
			60 - 69		Light Red		60 - 69		Lightning	
			70 - 79		No Color Pink		70 - 79		Paparazzi	
			80 - 89		Middle Rose		80 - 89		Strobe	
			90 - 99		Light Rose Purple		90 - 99		Television	
			100 - 109		Surprise Pink		100 - 109		Circular	
			110 - 119		No Color Blue		110 - 119		(Only for PIX mode)	
			120 - 129		Daylight Blue		120 - 129		Vertical	
			130 - 139		Primary Blue		130 - 139		(Only for PIX mode)	
			140 - 149		Moss Green		140 - 255		Horizontal	
			150 - 159		Blue Green				(Only for PIX mode)	
			160 - 169		Gel 1				Diagonal	
			170 - 179		Gel 2				(Only for PIX mode)	
			180 - 189		Gel 3				Reserved for future use	
			190 - 199		Gel 4					
200 - 209		Gel 5								
210 - 255		Reserved								
4	5-6	CCT	0 - 99		3200K					
			100 - 255		6500K					
		ICTRGBW			ICTxy					
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range	
3	4-5	CCT	0 - 255	0 - 65, 535	2000K - 10000K	CCT	0 - 255	0 - 65, 535	2000K - 10000K	
4	6-7	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	
5	8-9	INT Red	0 - 255	0 - 65, 535	0% - 100%	x	0 - 255	0 - 65, 535	0.0 - 0.8	
6	10-11	INT Green	0 - 255	0 - 65, 535	0% - 100%	y	0 - 255	0 - 65, 535	0.0 - 0.8	
7	12-13	INT Blue	0 - 255	0 - 65, 535	0% - 100%	Reserved	TBD			
8	14-15	INT White	0 - 255	0 - 65, 535	0% - 100%					
9	-	Reserved	TBD							
		CIExy								
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range					
3	4-5	x	0 - 255	0 - 65, 535	0.0 - 0.8					
4	6-7	y	0 - 255	0 - 65, 535	0.0 - 0.8					

Mode 276 (8-bit) / Mode 277 (16-bit) : ALL MODES (continued 2)

		Candle			Fireworks			Television		
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value	Range	Function	8-bit/16-bit Value	Range	Function	8-bit/16-bit Value	Range
4	6-7	Color	0 - 9 10 - 19 20 - 29	Warmer Neutral Cooler	Color	0 - 9 10 - 19 20 - 29	Color White Color + White	Mode	0 - 9 10 - 19 20 - 29 30 - 39	Action Horror News Romance
5	8-9	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest			
		Club Light			Lightning			Cop Car		
4	6-7	Color	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69	Red Green Blue Cyan Magenta Yellow All colors	Color	0 - 9 10 - 19 20 - 29	Warmer Neutral Cooler	Color	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109	B (Blue) R (Red) A (Amber) W (White) RB RA BA BW AW RBW BRA
5	8-9	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Flash Pattern	0 - 9 10 - 19 20 - 29 30 - 39	Single Double Quad Quint
		Color Chase			Paparazzi			Strobe		
4	6-7	Saturation	0 - 255/ 0 - 65,535	0% -100%	Color	0 - 9 10 - 19 20 - 29	Warmer Neutral Cooler	Hue	0 - 255/ 0 - 65,535	0 - 360°
5	8-9	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Saturation	0 - 255/ 0 - 65,535	0% - 100%
6	10-11							Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest