

DMX	Function	Description	Decimal	Perc	Hex
1	Pan MSB	<i>coarse positioning, 8 bit; 8-bit controllers use only high byte</i>	0-255	0-100	00-FF
2	Pan LSB	<i>fine positioning</i>	0-255	0-100	00-FF
3	Tilt MSB	<i>coarse positioning, 8 bit; 8-bit controllers use only high byte</i>	0-255	0-100	00-FF
4	Tilt LSB	<i>fine positioning</i>	0-255	0-100	00-FF
5	Color functions	<i>default-color wheel continuous</i> <i>F1- allows the color mixing wheels to make two complete rotations</i> <i>F2- locks dim, color, and effect systems to MSpeed</i> <i>F3- enables forward color spins on the fixed color wheel or synchronized color mix sequences</i> <i>F4- enables reverse color spins on the fixed color wheel or random color mix cycling from the subtractive color wheels</i> <i>F5- color wheel color lock and quickest path</i>			
		default	0	0	00
		F3	16	8	10
		F4	32	14	20
		F5	48	20	30
		F1	64	26	40
		F1 and F3	80	33	50
		F1 and F4	96	39	60
		F1 and F5	112	45	70

6	Color wheel	F2	128	51	80
		F2 and F3	144	58	90
		F2 and F4	160	64	A0
		F2 and F5	176	70	B0
		F1 and F2	192	76	C0
		F1, F2, and F3	208	83	D0
		F1, F2, and F4	224	89	E0
		F1, F2, and F5	240	95	F0
		<i>default- continuously variable</i>			
		pos 0 - open	0 & 255	0 & 100	00&FF
		pos 1 - CTO	44	17	2C
		pos 2 - pink	86	34	56
		pos 3 - magenta	128	50	80
		pos 4 - red	170	66	AA
		pos 5 - aqua	213	83	D5
		<i>F3-variable forward spins/synchronized color mix sequences</i>			
		spin stop	0-3	0-1	00-03
		spin forward slowest	4	2	04
		spin forward fastest	127	48	7F
		color mix sequence slowest	128	50	80
		color mix sequence fastest	255	100	FF
		<i>F4 - variable reverse spins /random color mix cycling</i>			
		spin stop	0-3	0-1	00-03
		spin reverse slowest	4	2	04
		spin reverse fastest	127	48	7F
		color mix cycle slowest	128	50	80
		color mix cycle fastest	255	100	FF
		<i>F5- color lock and quickest path</i>			
		pos 0 - open	0-43	0-17	0-2B
		pos 1 - CTO	44-85	18-33	2C-55
		pos 2 - pink	86-127	34-50	56-79

7	Cyan mix	pos 3 - magenta	128-169	51-66	80-A9
		pos 4 - red	170-212	67-83	AA-D4
		pos 5 - aqua <i>red subtractive</i>	213-255	84-100	D5-FF
8	Magenta mix	cyan in	0	0	00
		cyan out <i>green subtractive</i>	255	100	FF
		magenta in	0	0	00
9	Yellow mix	magenta out <i>blue subtractive</i>	255	100	FF
		yellow in	0	0	00
		yellow out	255	100	FF
10	Lens wheel (effects wheel 1)	<i>full rotation, continuously variable</i>			
		open	0 & 255	0 & 100	00&FF
		wide angle filter	64	25	40
11	Frost wheel (effects wheel 2)	narrow horizontal shaping center axis	128	50	80
		wide vertical shaping center axis <i>full rotation, continuously variable</i>	192	75	C0
		open	0 & 255	0 & 100	00&FF
12	Shutter	frost	64	25	40
		narrow vertical shaping center axis	128	50	80
		wide horizontal shaping center axis	192	75	C0
13	Dimmer	closed	0-7	0-2	00-07
		strobe slowest	8	3	08
		strobe fastest	127	49	7F
14	MSpeed	random strobe-low saturation	128	50	80
		random strobe-high saturation	247	96	F7
		open <i>iris</i>	248-255	97-100	F8-FF
		closed	0	0	0
		open	255	100	FF
		<i>movement speed</i>			

15	Control	controller cross fade	0-3	0-1	00-03
		slowest	4	2	04
		fastest	255	100	FF
		safe	0	0	0
		home	64	25	40
16	Checksum	shutdown	128	50	80
		set to default value (00)	00	0	00