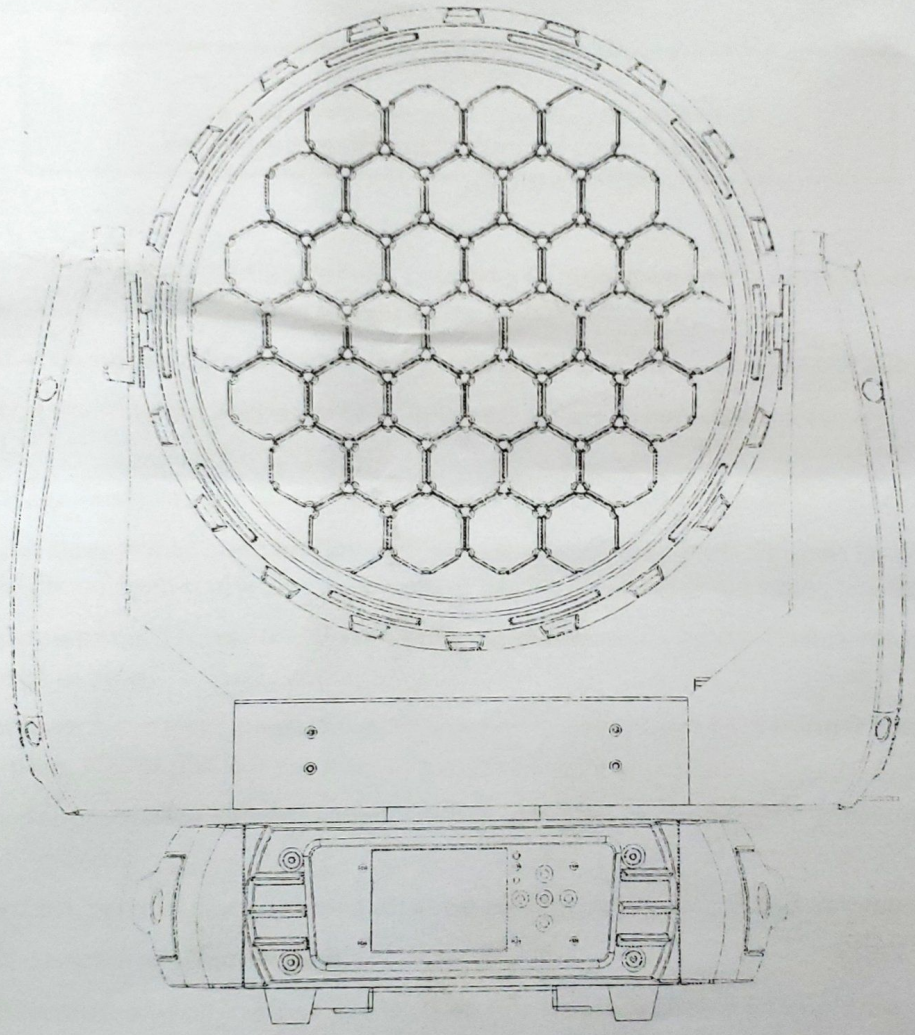
MC-3730 4Z



Version 1.0

USER MANUAL

- Be sure to read the USER MANUAL carefully before using this product.
- Be sure to keep the USER MANUAL properly for future needs.
- Use this product correctly when you can fully understand the User Manual

9.DMX PROTOCOL

Mode/Channel			Value	Function
50	22	16		
1	1	1		**Pan**
			0..255	PAN Movement
2	2	2		**Pan-fine**
			0..255	Fine control of Pan movement
3	3	3		**Tile**
			0..255	Tilt Movement
4	4	4		**Tile-fine**
			0..255	Fine control of Tilt movement
5	5	5		**Speed pan/tile**
			0..225	max to min speed
			226..235	blackout by movement
			236..255	no function
6	6	6		**Zoom**
			0..255	In(near) to out(far)
7	7	7		**Dimmer**
			0..255	Dimmer 0%...100%
8	8	8		**Shutter**
			0..31	Shutter closed
			32..63	shutter open
			64..95	Strobe effect slow to fast
			96..127	shutter open
			128..159	Pulse-effect in sequences slow to fast
			160..191	shutter open
			192..223	Random strobe effect slow to fast
			224..255	shutter open
9	9	9		**Red**
			0..255	0-100% Red dimmer from dark to bright
10	10	10		**Green**
			0..255	0-100% Green dimmer from dark to bright
11	11	11		**Blue**
			0..255	0-100% Blue dimmer from dark to bright
12	12	12		**White**
			0..255	0-100% White dimmer from dark to bright

13	13	13		**Virtual color**
			0..0	No Function
			1..13	Red
			14..27	Green
			28..41	Blue
			42..55	White
			56..69	Red+White
			70..83	Green+White
			84..97	Blue+White
			98..111	Green+Blue
			112..125	Red+Blue
			126..139	Red+Green
			140..153	Green+Blue+White
			154..167	Red+Blue+White
			168..181	Red+Green+White
			182..195	Red+Blue+Green+White
			196..202	2700K
			203..209	3200K
			210..216	3500K
			217..223	5000K
			224..230	5500K
			231..237	6000K
			238..244	6500K
			245..251	7000K
			252..255	8000K
14	14	14		**Color Temp**
			0..15	No Function
			16..45	Below 3200K
			46..75	3200K - 3500K
			76..105	3500K - 5000K
			106..135	5000K - 5500K
			136..165	5500K - 6000K
			166..195	6000K - 6500K
			196..225	6500K - 7000K
			226..255	7000K - 8000K
15	15	15		**Visual Tungsten Lamp**
			0..15	No Function
			16..255	Tungsten lamp effect is gradually enhanced

16	16			Foreground color for patterns
			0..0	No Function
			1..13	Red
			14..27	Green
			28..41	Blue
			42..55	White
			56..69	Red+White
			70..83	Green+White
			84..97	Blue+White
			98..111	Green+Blue
			112..125	Red+Blue
			126..139	Red+Green
			140..153	Green+Blue+White
			154..167	Red+Blue+White
			168..181	Red+Green+White
			182..195	Red+Blue+Green+White
			196..202	2700K
			203..209	3200K
			210..216	3500K
			217..223	5000K
			224..230	5500K
			231..237	6000K
			238..244	6500K
			245..251	7000K
			252..255	8000K
17	17			Foreground dimmer
			000..255	Foreground dimmer 0 – 100%.
18	18			Background color for patterns
			0..0	No Function
			1..13	Red
			14..27	Green
			28..41	Blue
			42..55	White
			56..69	Red+White
			70..83	Green+White
			84..97	Blue+White
			98..111	Green+Blue

18	18		112..125	Red+Blue
			126..139	Red+Green
			140..153	Green+Blue+White
			154..167	Red+Blue+White
			168..181	Red+Green+White
			182..195	Red+Blue+Green+White
			196..202	2700K
			203..209	3200K
			210..216	3500K
			217..223	5000K
			224..230	5500K
			231..237	6000K
			238..244	6500K
			245..251	7000K
			252..255	8000K
19	19			**Background dimmer**
			000..255	Background dimmer 0 – 100%.
20	20			**Patterns**
			000..015	No function
			016..031	Static patterns
			032..043	Dynamic Scene1
			44.055	Dynamic Scene2
			056..067	Dynamic Scene3
			068..079	Dynamic Scene4
			080..091	Dynamic Scene5
			092..103	Dynamic Scene6
			104..115	Dynamic Scene7
			116..127	Dynamic Scene8
			128..139	Dynamic Scene9
			140..151	Dynamic Scene10
			152..163	Dynamic Scene11
			164..175	Dynamic Scene12
			176..187	Dynamic Scene13
			188..199	Dynamic Scene14
			200..211	Dynamic Scene15
			212..223	Dynamic Scene16
			224..235	Dynamic Scene17
			236..247	Dynamic Scene18
			248..255	Dynamic Scene19

				Static patterns or patterns speed
			Static Patterns (If Patterns channel is in the interval 016 – 031)	
			000..007	static scene1
			008..015	static scene2
			016..023	static scene3
			024..031	static scene4
			032..039	static scene5
			040..047	static scene6
			048..055	static scene7
			056..063	static scene8
			064..071	static scene9
			072..079	static scene10
			080..087	static scene11
			088..095	static scene12
			096..097	static scene13
			104..111	static scene14
			112..119	static scene15
			120..127	static scene16
			128..135	static scene17
			136..143	static scene18
			144..151	static scene19
21	21		152..159	static scene20
			160..167	static scene21
			168..175	static scene22
			176..183	static scene23
			184..191	static scene24
			192..199	static scene25
			200..207	static scene26
			208..215	static scene27
			216..223	static scene28
			224..231	static scene29
			232..239	static scene30
			240..247	static scene31
			248..255	static scene32
			Dynamic Patterns (If Patterns channel is in the interval 032 – 255)	
			000..023	No function
			024..137	Forward speed from zero speed to fast speed
			138..141	Stop movement
			142..255	Reverse speed from zero speed to fast speed

22	22	16		**Special function**
			0..19	No function
			20..29	No function
			30..39	No function
			40..79	No function
			80..89	All Motor reset
			90..94	SCAN Motor Reset
			95..99	ZOOM Motor Reset
			100..119	Internal program 1
			120..139	Internal program 2
			140..159	Internal program 3
			160..179	Internal program 4
			180..199	Internal program 5
			200..219	Internal program 6
			220..239	Internal program 7
			240..255	Internal Sound program 1
23				**Red in Pixel 1**
			0..255	Red in pixel 1 saturation control (0-100%)
24				**Green in Pixel 1**
			0..255	Green in pixel 1 saturation control (0-100%)
25				**Blue in Pixel 1**
			0..255	Blue in pixel 1 saturation control(0-100%)
26				**White in pixel 1**
			0..255	White in pixel 1 saturation control(0-100%)
27				**Red in pixel 2**
			0..255	Red in pixel 2 saturation control(0-100%)
28				**Green in pixel 2**
			0..255	Green in pixel 2 saturation control(0-100%)
29				**Blue in pixel 2**
			0..255	Blue in pixel 2 saturation control(0-100%)
30				**White in pixel 2**
			0..255	White in pixel 2 saturation control(0-100%)
31				**Red in Pixel 3**
			0..255	Red in pixel 3 saturation control (0-100%)
32				**Green in pixel 3**
			0..255	Green in pixel 3 saturation control(0-100%

				Blue in pixel 3
33			0..255	Blue in pixel 3 saturation control(0-100%)
				White in pixel 3
34			0..255	White in pixel 3 saturation control(0-100%)
				Red in Pixel 4
35			0..255	Red in pixel 4 saturation control (0-100%)
				Green in pixel 4
36			0..255	Green in pixel 4 saturation control(0-100%)
				Blue in pixel 4
37			0..255	Blue in pixel 4 saturation control(0-100%)
				White in pixel 4
38			0..255	White in pixel 4 saturation control(0-100%)
				Red in Pixel 5
39			0..255	White in pixel 5 saturation control (0-100%)
				Green in pixel 5
40			0..255	Green in pixel 5 saturation control(0-100%)
				Blue in pixel 5
41			0..255	Blue in pixel 5 saturation control(0-100%)
				White in pixel 5
42			0..255	White in pixel 5 saturation control(0-100%)
				Red in Pixel 6
43			0..255	White in pixel 6 saturation control (0-100%)
				Green in pixel 6
44			0..255	Green in pixel 6 saturation control(0-100%)
				Blue in pixel 6
45			0..255	Blue in pixel 6 saturation control(0-100%)
				White in pixel 6
46			0..255	White in pixel 6 saturation control(0-100%)
				Red in Pixel 7
47			0..255	White in pixel 7 saturation control (0-100%)
				Green in pixel 7
48			0..255	Green in pixel 7 saturation control(0-100%)
				Blue in pixel 7
49			0..255	Blue in pixel 7 saturation control(0-100%)
				White in pixel 7
50			0..255	White in pixel 7 saturation control(0-100%)