

OPERATION MANUAL

INVENTORY OF YOUR *Merlin-D90* BOX

Inside this box you will find:

1. A 96-270volt 50-60Hz Merlin-D90 Moving Light
2. A 1.8 meter UL/CE-listed a/c power cord
3. 2X Clamp Mounts

FUNCTION SUMMARY

- * Rota-gobo wheel: 4 rotating gobo's + 3 fixed gobo's + open,
- * Fixed-gobo wheel: 7 fixed gobo's + open,
- * Focus: motorized 2m infinity,
- * Zoom: motorized 10 to 22 degree zoom
- * Colour: DMX RGB Color Mixing
- * Strobe: Variable electronic dimmer (10–100%) Variable electronic strobe
- * Sound-Active, Stand-Alone, Master / Slave, Pan / Tilt and Display Invert
- * Pan: 520° Tilt: 245°, automatic Pan/Tilt position correction
- * Lamp: Luminous R/G/B CBT90 Lamp, over flux: 3900lm
- * Size (mm): 300 x 250 x 250 * Weight: 6.8 kg



DMX CHANNEL SUMMARY Each DMX channel or “handle” coming from a controller has 255 “increments” of power within that “handle”. That channels function and the things triggered by the ascending increments within that channel for your Merlin-D90 are listed here:

Channel	Funtion	Values
1	Moves X-Axis	0-255
2	X-AXIS 16 bit.	0-255
3	Moves Y-Axis	0-255
4	Y-AXIS 16 bit.	0-255
5	Y and X-Axis Speed	0-255, 0 is normal or “fast”
6	Strobe	0-131(Slow-fast),132-254(Free Strobe),255(Open)
7	Dimmer Paddle	0-2 (Closed) 3-255 (0 to 100 open dimming)
8	Red Dimmer	0-255(Closed-Open)
9	Green Dimmer	0-255(Closed-Open)
10	Blue Dimmer	0-255(Closed-Open)
11	Color Macros	0-128(Color Mixing) 129-255(Color Macros Fast-slow) And 1-255 (Channel 7 don't working)
12	Fixa-Gobo Wheel	0 (open) 1-255 (individual Gobos, 1-7)
13	Rota-Gobo Wheel	0 (open) 1-255 (individual Gobos, 1-4)
14	Gobo Rotating	0-127 (position) 128-192 (left rotating fast to slow) 193-255 (right rotating fast to slow)
15	Focus	0-255 (2m- infinity)
16	Zoom	0 (10 degrees) ,1-255 (10 to 22 degrees).
17	Reset/Home,	200-210 (reset all of its parameters: Position, Gobo and Shutter.)

MENU SUMMARY

Keys:



Scroll Up



Scroll Down



Menu.



Enter

Address	8888	8000	8582	
“Master” or “DMX” Mode	8888	8000	Master	DMX
Sound-Activated Mode	8858	8000	No sound-activated	Stand-alone
Auto Mode	8888	8000	No Auto program	Multi-stepped program
Manual Reset	8858	8000	Responds normally	Default reset setting
Factory Default Setting	8858	8000	Factory Default Setting	Factory Default Setting
Function Test	8888	8000	Responds normally	Function Test
Red Manual Reset	8888	8000	8255	Dimmer Scroll through the menu
Green Manual Reset	8888	8000	8255	Dimmer Scroll through the menu
Blue Manual Reset	8888	8000	8255	Dimmer Scroll through the menu
NO Display	8888	8000	Display reads normally	8888 Close the display for after six second
Display	8885	8000	Display reads normally	8888 Invert the display
TILT invert	8888	8000	Responds normally	8888 Reversed to any control inputs
PAN invert	8888	8000	Responds normally	8888 Reversed to any control inputs

HOWEVER:

It could also mean you have a slightly larger problem. It is possible that the gobo wheel has either come loose, slipped down its axle or even became warped and is now rubbing against the sensor. In either case, see our website at www.toplite.com for instructions on fixing/repairing this problem. **DO NOT** use this unit until it is fixed or you could permanently scuff/damage the sensor and render it useless!



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