RoboZap
users guide

Martin

INTRODUCTION

The RoboZap is a high-performance, intelligent, special-effect lighting unit which features:

- Multi-faceted, asymmetrically mounted, variable-speed rotating mirror
- High quality stepper motors
- 2x250W, 120V ENH lamps
- 2x4 dichroic colors, plus white and black-out
- The speed of the color change is variable and can be individually set for each of the lamps.
- Color mixing (adjacent colors)
- 8 manually selectable gobos for each lamp
- Variable speed shutter for strobe effect
- Precision optics
- Adjustable focus
- Efficient dual fan cooling
- Can be controlled by Martin 2501 (32 pcs.), 2308 (8 pcs.), 2032 (32 pcs.), 3032 (96 pcs.).
- Can be controlled by DMX 512 via Martin Interface.
- Can run without controller using built-in random-sequence programmes with and without music trig. (Stand alone)
- Built-in microphone for music triggering.

HOW TO INSTALL THE ROBOZAP

1. Remove the 4 knurled screws and remove the casing. The lamps can now be installed.

2. The desired gobos can be selected by turning the gobo wheel.

3. Replace the casing and tighten the screws.

4. Set the mains voltage switches (on the opposite end of the unit from the DIP switches) to the local mains voltage (115/230V).

CAUTION
It is extremely important that BOTH switches are set to the correct voltage.

OPERATING WITH A CONTROLLER

CONNECTING THE SERIAL TRANSMISSION LINK

1. Connect the RoboZap, or the first unit in the link, to the controller, using the 10 metre XLR cable which came with the controller.

2. To interconnect the units in the link you need an XLR-XLR cable e.g. a standard balanced microphone cable. Your local Martin Professional dealer can supply this.

3. The units should be connected together in an order which gives the minimum cable length. This order has no influence on the address as far as the controller is concerned.

4. The termination plug which came with the controller is plugged into the unused XLR socket on the last unit on the link.

SETTING THE OPERATING ADDRESS OF EACH ROBOZAP

- Set the DIP switch to the address number you want each RoboZap to use. Please refer to the Address Settings table below.

IMPORTANT
THE CONTROLLER MUST NOT BE SWITCHED ON UNTIL 2 MINUTES AFTER THE UNITS HAVE BEEN SWITCHED ON.

Address settings			
Unit no.	ON pins	Unit no.	ON pins
1	1	17	1,5
2	2	18	2,5
3	1,2	19	1,2,5
4	3	20	3,5
5	1,3	21	1,3,5
6	2,3	22	2,3,5
7	1,2,3	23	1,2,3,5
8	4	24	4,5
9	1,4	25	1,4,5
10	2,4	26	2,4,5
11	1,2,4	27	1,2,4,5
12	3,4	28	3,4,5
13	1,3,4	29	1,3,4,5
14	2,3,4	30	2,3,4,5
15	1,2,3,4	31	1,2,3,4,5
16	5	32	6

OPERATING WITHOUT A CONTROLLER (STAND ALONE)

When operating the RoboZap without a controller you have a choice of programs. Please refer to the Sequence Settings table below and set the DIP switches to the settings for the desired program. If you choose a music trig program, the program will start together with the music, otherwise the pre-programmed sequences start immediately.

Because the mains supply for the lamp has its own mains cable you can leave the motors, electronics and cooling fans on and manually switch the lamp on and off - also with your own lighting controller if you have one.

C A U T I O N
Lamps are very fragile when hot: do not move the units until they are cool.

Sequence settings	
Description	ON pins
Test	none
Demo 1	2,6
Demo 1, with music trig	1,2,6
Demo 2	3,6
Demo 2, with music trig	1,3,6
Demo random 1	2,3,6
Demo random 1, with music trig	1,2,3,6
Demo random 2	4,6
Demo random 2, with music trig	1,4,6
Preprogram chase	2,4,6
Preprogram chase, with music trig	1,2,4,6
Rotation ramp	3,4,6
Rotation ramp, with music trig	1,3,4,6
Mechanical stop (For service use)	1,3,4,5,6
Adjustment (For service use)	3,4,5,6
Led chase (For service use)	2,4,5,6

This appendix shows the different address and sequence settings for the DIP switch on the RoboZap. The above settings refer to the pin(s) on the DIP switch which are set to the ON position.

SPECIFICATIONS

RoboZap	
Dimensions with/without bracket: Length Width Height	550 mm / 550 mm 180 mm / 130 mm 330 mm / 210 mm
Weight:	11.0 Kg
Power consumption:	540 W
Lamp:	2 X 250 W / 120 V ENH
AC Voltage:	100-130V / 50-60Hz or: 200-270V / 50-60Hz
Fuse	3.15 AT