

# **Roboscan 1004**

## users guide

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## **INTRODUCTION**

The Roboscan 1004 is a high performance, intelligent lighting projector which features:

- 250 Watt HLX lamp.
- 4 dichroic colours plus white and black-out.
- 4 motorized gobos.
- Variable shutter speed control for strobe effects.
- 180 degree pan - 90 degree tilt.
- Variable pan and tilt speed control.
- Precision optics with adjustable focus.
- Efficient fan cooling.
- Can be run without a controller (stand alone) using built-in random sequence programs with and without music trig.
- When in "stand alone" mode (software versions later than 7 only - check with your dealer) up to 32 Roboscans can be connected together so that they all perform the same program in synchronism (MASTER/SLAVE mode).
- Can be controlled by Martin 2501 (32 pcs.), 2308 (8 pcs.), 2032 (32 pcs.), 3032 (96 pcs.) controllers.
- Can be controlled by DMX 512 via Martin Interface.

## **HOW TO INSTALL THE ROBOSCAN 1004**

- Remove the 4 knurled screws and lift off the casing. The lamp can now be installed
- Avoid touching the lamp with your fingers - hold it in a clean cloth. Slide the lamp into place as shown in the diagram.
- Replace the casing and tighten the screws.
- Set the mains voltage switch on the end-plate to the local mains voltage.
- Remove the transport fixture from the mirror.
- To remove the lamp for replacement hold the lever between your thumb and forefinger and pull the lamp upwards holding the glass part in your other hand (in a cloth). See diagram.

### **OPERATING WITHOUT A CONTROLLER (STAND ALONE)**

- Select one of the available factory programs by setting the DIP switch to one of the settings shown on page 6. The programs which are described as "music" trig will use the beat of the music picked up by the built-in microphone to trigger the program. The other programs run at a pre-set speed without needing a trig source.

### **OPERATING "STAND ALONE" IN MASTER/SLAVE MODE**

(Only applies to EPROM software version 8 or later. If you are in doubt - Contact your Martin dealer).

- The DIP switch of the unit which you designate the "master" unit should be set to the desired program as described above.
- The DIP switches of the "slaves" should be set to the setting for unit no. 1 as shown on page 6. IT IS VITALLY IMPORTANT THAT ONE AND ONLY ONE OF THE UNITS IS SET UP AS A "MASTER" AND THAT ALL THE OTHERS ARE SET UP AS SLAVES. OTHERWISE DAMAGE WILL OCCUR TO THE ELECTRONIC CIRCUITRY.
- Insert a female termination plug (Martin part no. 309952) in the male socket of the "master" unit.
- Insert a male termination plug (Martin part no. 309950) in the last unit on the link
- Connect the units together using XLR/XLR cables.

The "slave" units will now all perform the same program as the "master" unit in perfect synchronism.

### **OPERATING WITH A CONTROLLER**

- Connect the Roboscan to the controller using the XLR/XLR or XLR/Dsub cable which came with the controller.
- If you are only using one Roboscan insert the terminating plug which came with the controller into the unused XLR socket on the Roboscan.
- If you are using other lighting units with the controller they should be connected together with XLR/XLR cables. The order is not important - use an order which gives the easiest and shortest cable routing. The last unit on the link should be terminated with the terminating plug.
- Set the DIP switch on the Roboscan to the desired controller channel as shown on page 6.
- Switch the Roboscan(s) on before you switch on the controller. A short start-up and test routine will be performed (about half a minute).
- Switch on the controller and program your show!

### **CAUTION**

The lamps are very fragile when hot so do not move the units until they are completely cold.

### **FOCUSING**

- When the Roboscan is mounted in its final position you can adjust the focus manually to produce a sharp image on the desired target.

### **SWITCHING OF THE MAINS VOLTAGE**

- The mains transformer can be wired to match 110, 120, 220, 230 or 240 Volts. DISCONNECT FROM THE MAINS! Remove the casing as described above and then connect the transformer as shown in diagram. Re-assemble the unit as described above.

## DIP SWITCH SETTING TABLES

### DIP switch settings for the Roboscan 1004/1005

Address settings for the Roboscan 1004/1005			
Unit no.		Unit no.	
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

Sequence settings for the Roboscan 1004/1005	
Description	
Test	All switches set to OFF position
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 wide angle	2,3,6
Demo Random wide angle, with music trig	1,2,3,6
Demo Random narrow angle	4,6
Demo Random narrow angle, with music trig	1,4,6
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 page shows the different address and sequence settings for the DIP switch on the Roboscan models 1004/1005.

The above settings refer to the pin(s) on the DIP switch which are set to the ON position.

The examples in figure 1 and figure 2, would be described above as; "1"(Unit no.1), and; "2,6"(Demo 1).

Fig 1

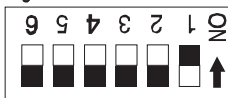
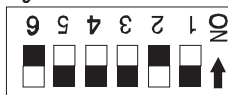


Fig 2



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## TECHNICAL SPECIFICATIONS

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<b>Roboscan 1004</b>	
Dimensions : Length Width Height	680 mm 130 mm 210 mm
Weight:	16.0 Kg
Power consumption:	280 W
Lamp:	250 W HLX