

# RoboColor System

users guide

## Table Of Contents

INTRODUCTION .....	2
HOW TO INSTALL THE ROBOCOLOR .....	2
OPERATING WITH A CONTROLLER .....	3
OPERATING WITHOUT A CONTROLLER (STAND ALONE) .....	3
OPERATING WITHOUT A CONTROLLER (MASTER-SLAVE) .....	3
DIP SWITCH SETTING TABLES .....	4
TECHNICAL SPECIFICATIONS .....	4

### INTRODUCTION

The RoboColor is a high-performance, intelligent, special-effects spotlight which features:

- High quality stepper motor
- 250W/120V ENH lamp
- 4 dichroic colors, plus white and black-out
- Color mixing
- Variable speed shutter for strobe effect
- Precision optics
- Adjustable focus
- Efficient 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
- Built-in microphone for music triggering of pre-programs
- MASTER-SLAVE function (4 master heads and from 4 to 128 slaves)

### HOW TO INSTALL THE ROBOCOLOR

- Remove the 4 knurled screws on the end-plate of the RoboColor and carefully remove the casing. The lamp can now be installed.
- Some types of the ENH lamps have flat pins. This type of lamp should be turned slightly in the socket to ensure a good electrical contact.
- The desired gobo can be selected by turning the gobo wheel.
- Replace the casing and tighten the screws. You can now install the RoboColor in the desired position.
- Plug the RoboColor power cable into the RoboColor controller.
- Plug the RoboColor signal cable into the RoboColor controller (5 pin DIN plug). Where the local mains voltage is 220V there must be at least 2 lamps plugged in (the lamps are connected in series).
- Lengthening these cables or using extension cables is not recommended.
- Connect the RoboColor controller to the mains supply and switch on.

## OPERATING WITH A CONTROLLER CONNECTING THE SERIAL TRANSMISSION LINK

- Connect the RoboColor controller or the first unit in the link, to the controller, using the 10 metre XLR/XLR or XLR/Dsub cable which came with the controller.
- The cable supplied with the RoboColor controller is used to interconnect the projectors. A standard balanced microphone cable can be used as an extension if necessary.
- The RoboColor controllers 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 (the address is set by the DIP switch - see below).
- The termination plug which came with the controller is plugged into the unused XLR socket on the last unit on the link. Even if you only use one RoboColor controller this plug must be in place.

## SETTING THE OPERATING ADDRESS OF EACH ROBOCOLOR CONTROLLER

- Set the DIP switch to the address number you want each RoboColor controller to use. Please refer to the Address Settings Table on page 4.

## OPERATING WITHOUT A CONTROLLER (STAND ALONE)

### CAUTION

DO NOT CONNECT TO THE SERIAL LINK WHEN USED IN "STAND ALONE" MODE

- You can now operate the RoboColor units in the "stand alone" mode if you set the DIP switches as shown on page 4. The lamps will perform a pre-programmed performance triggered by the built-in microphone.

## OPERATING WITHOUT A CONTROLLER (MASTER-SLAVE)

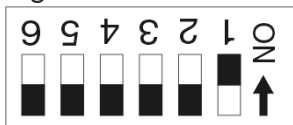
- Connect a female termination plug (Martin no. 309952) (120 Ohm, pin 2 to 3) to the MASTER-RoboColor-controller. Connect an XLR cable to the SLAVE(s). Terminate the link with a male termination plug (Martin no. 309950) (120 Ohm, pin 2 to 3).
- MASTER: the MASTER is set-up "stand alone". DIP switch settings on page 4 marked with \* can be used.  
NB. ONLY ONE ROBOCOLOR-CONTROLLER MAY BE SET-UP AS "MASTER".
- SLAVE: The DIP switch on the slave(s) is set-up to the address for unit no. 1 (see page 4).
- In MASTER-SLAVE mode the slaves follow the sequences of the master unit.

## DIP SWITCH SETTING TABLES

Address settings for RoboColor			
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 RoboColor	
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	* 2,3,6
Demo. Random with music trig	* 1,2,3,6
Demo. Random 1	* 4,6
Demo. Random 1 with music trig	* 1,4,6
Preprogram chase	* 2,4,6
Preprogram chase, with music trig	* 1,2,4,6
Color sync.	* 3,4,6
Color sync. 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

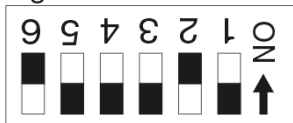
Fig 1



This page shows the different address and sequence settings for the DIP switch on the RoboColor.

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

Fig 2



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

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## TECHNICAL SPECIFICATIONS

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RoboColor	
Dimensions with/without bracket: Length Width Height	175 mm / 175 mm 135 mm / 135 mm 181 mm / 135 mm
Weight:	2.4 Kg
Power consumption:	250 W
AC-voltage on lamp (recommended):	115 V RMS
Lamp:	250 W / 120 V ENH
RoboColor Controller	
Dimensions: Length Width Height	276 mm 125 mm 85 mm
Weight:	2.5 Kg
AC-voltage: 220 V model 110 V model	200 V to 270 V 100 V to 130 V
AC-frequency:	50-60 Hz
Fuse	10 AT