

# **The Martin 516 Dimmer-Controller users guide**

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## INTRODUCTION

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The Martin Professional **516 Dimmer-Controller** enables the Martin range of intelligent lighting controllers to control analog lighting and smoke equipment which require a 0-10V fader control voltage.

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## INSTALLING THE 516 DIMMER CONTROLLER

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Your Martin Professional 516 Dimmer-Controller package comes complete with the following items:

- 516 Dimmer-Controller.
- 5 metre XLR/XLR cable.
- Users guide.

### IMPORTANT

**Before attempting any of the following please ensure that the units are disconnected from any AC power.**

#### **Setting the supply voltage:**

Located on the back of the controller is a mains voltage selector. You must set it so that it matches your local mains voltage.

#### **Fitting the mains plug:**

The 516 Dimmer-Controller may be delivered without a plug on the mains lead. You will need to fit a suitable plug (one that fits your local mains socket) before you can connect it to the mains. The double insulated mains lead on the 516 Dimmer-Controller contains three wires. Connect the Brown wire to the LIVE-pin, the Blue wire to the NEUTRAL-pin and the Yellow/Green wire to the EARTH-pin in the mains plug.

### **Connecting the 516 Dimmer-Controller to the Martin Serial Link:**

The 516 Dimmer-Controller responds to information sent from any of the Martin Lighting Controllers: 3032, 2032, 2308 or 2208. As far as the Lighting Controller is concerned, the 516 Dimmer-Controller is similar to any Martin Intelligent Lighting Unit (ie. Roboscan, Robocolor, Robozap etc.). For this reason the 516 Dimmer-Controller will sometimes be referred to as a Lighting Unit in the following text. Please use the following procedure to set up the Martin Serial Link.:

- Connect the first lighting unit (which could be your 516 Dimmer-Controller) to your Martin Lighting Controller (2208/2308/2032/3032) using the XLR/XLR or XLR/D-SUB cable which came with the lighting controller.
- If you are using one 516 Dimmer-Controller only, then insert the male XLR termination plug, which came with your lighting controller, into the unused XLR socket on the 516 Dimmer-Controller.
- If you are using other lighting units (Roboscans, Robocolors, Robozaps etc.) with the lighting controller then connect these together with XLR/XLR cables like the one that came with your 516 Dimmer-Controller. The last unit on the link should be terminated with the male XLR termination plug. You may connect up to 32 units on the same link. Using 516 Dimmer-Controllers only, this will give you  $32 * 16 = 512$  analog outputs.
- Located on the back of the Dimmer-Controller is the address selection DIP-switch. Use this switch to set your 516 Dimmer-Controller to the desired controller channel as shown in the address setting table on page 4. Note that the 516 Dimmer-Controller only requires one controller channel to control all 16 analog outputs.

### **Connecting the 516 Dimmer-Controller to your analog equipment:**

Located on the back of the 516 Dimmer-Controller is a 25 pin D-SUB connector plus four 5 pin DIN sockets from which the analog output is provided. Use these to connect the 516 Dimmer-Controller to your analog equipment. The relation between channel numbers and pin numbers is listed on the label located directly above the connectors.

### **Placing the 516 Dimmer-Controller:**

The 516 Dimmer-Controller fits into any standard 19" rack. Alternatively, you can choose to place the 516 Dimmer-Controller on its four rubber feet.

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## **OPERATING WITH A MARTIN LIGHTING CONTROLLER**

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You may now switch on your 516 Dimmer-Controller followed by your Martin Lighting Controller. Please refer to the users guide for your Martin Lighting Controller for further operating instructions.

## DIP-SWITCH SETTINGS TABLE FOR THE 516 DIMMER-CONTROLLER

<b>Address settings for the 516 Dimmer-Controller</b>			
Unit no.	Switch-pins to ON position	Unit no.	Switch-pins to ON position
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
<b>Sequence settings for the 516 Dimmer-Controller</b>			
Description			
Test Sequence		All switches set to OFF position	

The table above shows the different address and sequence settings for the DIP-switch located on the back of the 516 Dimmer-Controller.

## TECHNICAL SPECIFICATIONS

<b>516 Dimmer-Controller</b>	
Dimensions:	
Width	482 mm (19.0")
Height	89 mm (3.5")
Depth	125 mm (4.9")
Weight:	2.8 Kg
Power consumption:	10 W
AC-voltage:	100 V to 130 V / 220 to 240 V
AC-frequency:	50 - 60 Hz
Fuse:	T 125 mA
Output voltage (channel 1 - 16):	0.6 to 10 V