Martin 2501 Controller user's guide

Software version 5.0

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Introduction

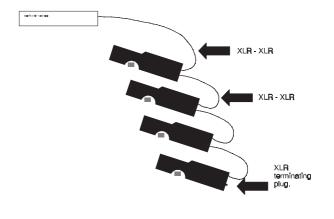
The 2501 controller is a simple but effective controller from Martin Professional. The 2501 controller can give access to all of the basic color change functions within all of the Martin Professional range of Intelligent products (not Roboscan Pro 1220), as well as having the additional facility to be able to access all of the stand - alone programs within the units that are connected to the controller. All of this is possible by just a few key presses on the controller.

The 2501 controller is able to control all of the Martin Professional range of intelligent products in any combination, up to a maximum of 32 units per controller. There are no limits on the type and variety of units that you choose to connect to the controller whatsoever.

Connections

Before switching on, ensure that the voltage selector switch is set for your local power supply and if necessary connect a Three pin plug to the mains cable using the Brown wire for the Live connection, the Blue wire for the Neutral connection and the Green/Yellow wire for the Earth (Ground) connection.

When connecting the controller to the Unit use the XLR cable that came with the controller to connect the controller to the first Unit on the link. Now link up the rest of the Units with XLR cables. These can be supplied by your local Martin dealer or you use standard 3-core balanced can microphone cable. Remember to insert the terminating-plug that came controller into the last Unit in the link. This will be necessary to ensure correct and error-free communication between the Units and the Martin 2501 controller.



To turn the controller on press the red switch on the left hand side of the unit from the Off position to the On position. If there is a good power supply going to the unit this switch will light up and a hard reset signal will be sent to all units in the link, please note that this is the only way to perform a hard reset on the units in the link.

Sections of the 2501 Controller

The 2501 controller has separate control sections within the unit. There is one section that controls all of the color change functions, including the strobe facility, and there is another section that controls the access of the Stand - Alone and Pre - Programmed sequences.

Changing colors

To change colors of the units in the link with the 2501 controller you should just use the seven buttons on the left of the controller and follow the labels printed above the switches, these are marked as follows:

[White], [Red], [Green], [Blue], [Yellow], [Strobe] and [Black].

Quite simply to change the color of all of the units in the link you should press the relevant color button, if you want all units to Black-out you should press the [Black] button.

Strobe Facility

Please note that this function will only work with units that have a strobe facility built into them. However if you send a Strobe command to a unit that cannot strobe the command will simply be ignored.

To access the strobe facility simply press the button marked [Strobe] and all units will begin strobing. There are Three different strobe rates programmed into the 2501 controller and by pressing the [Strobe] again you will be able to access these different rates. The button works in a cycle mode so that every time you reach the third strobe rate the next press of the button will automatically return you to the first strobe rate, e.g. First press-Rate 1, Second press-Rate 2, Third press-Rate 3, Fourth press-Rate 1 etc.

*** IMPORTANT ***

Special Note for RoboZap and RoboZap MSR 1200

Please note that when you change color for either the RoboZap or the RoboZap MSR 1200 some movement will occur on the mirror drum, this feature has been programmed into the controller. These movements are different for each color change that you select and last for different periods of time. Once a specific color has been selected you can still access the movement by pressing the same color button on the 2501 controller again. The signal for the mirror drum to move is then sent out to the unit again.

Accessing Stand-Alone and Pre-Programmed sequences

<u>Understanding the Difference between Stand-Alone and Pre-Programmed</u> Sequences

It is important that you understand the way that these Two features work, and more importantly, you understand the differences between them.

All **Stand-Alone** functions and sequences are contained within the Eprom inside the lighting unit, these sequences are not programmed and are extremely random, the 2501 controller, therefore, is just starting these sequences to run and nothing more.

The **Pre-Programmed** sequences are greatly different. These sequences have actually been programmed and then stored inside the 2501 Controller, therefore in this situation the 2501 controller is accessing and controlling these sequences all from within itself.

There are Two modes for the Stand-Alone sequence available, one with Auto-Trig and the other with Music-Trig.

There are also Four totally different Pre-Programmed sequences that have been programmed into the 2501 controller, all of which are easily accessible.

The buttons used to access the stand-alone and pre-programmed sequences within the 2501 controller work in a slightly different way to those used to change colors.

Firstly you should locate the Two right hand buttons on the controller marked Stand Alone and Program.

Next you should follow the markings that run beneath the buttons on the controller. You will see that the Four left hand buttons are marked [Color], [Zap], [Center] and [Scan], and that the button marked [Black] is also marked [All]. These buttons correspond to the relevant group of products and the button marked [All] will control all units connected in the link.

Stand-Alone Sequences

If you wish to access the Stand-Alone sequence within the unit you should press the button marked Stand-Alone and, while keeping it pressed down, you should then press the button for the product group that you wish to run.

That product group will then automatically start running its Stand-Alone sequence in Music-Trig mode, e.g. each beat of music heard by the units in-built microphone will trigger a change in the units output; color change, movement change etc..

By then keeping the Stand-Alone button pressed down again and pressing the same product group button again, the units will change to run the sequence in Auto-Trig mode e.g. no sound input is required. Further presses of the same combination of buttons will toggle the Trigger status between Music and Auto.

Pre-Programmed Sequences

Unlike the Stand-Alone function, all sequences within the Pre-Programmed section of the controller will run on Auto-Trig automatically.

If you wish to access the Pre-Programmed sequences within the unit you should press the button marked Program, and while keeping it pressed down, you should then press the button for the product group that you wish to run.

The product group that you have selected will then begin to run the first Pre-Programmed sequence from the controller. There are Four Pre-Programmed sequences and you can now access the other sequences by again pressing and holding the Program button and again pressing the same product group. The controller will then begin to run sequence Two, if you follow the same procedure again the controller will run sequence Three etc.. When you are running sequence Four and you press the buttons again the controller will then revert back to running sequence One, further presses of the buttons will continue this cycle.

Please note that the First and Second Pre-Programmed sequences contain only color and gobo information for Roboscans, movement of the mirror is only available in sequences Three and Four.

The products that each button controls are detailed below:

[Color] Robocolor/Robocolor II Controller, Robocolor MSD 200, Robocolor Pro 400

[Zap] RoboZap, RoboZap MSR 1200

[Center] Centrepiece

[Scan] Roboscan 804/805, Roboscan 1004/1005, Roboscan 1016,

Roboscan Pro 218, Roboscan 1020, Roboscan 812, Roboscan Pro 518

[All] All Units connected in the link

Please note that you are able to run one product type at a time in this mode, or all products together. You **ARE NOT** able to run a combination of different units together e.g. Robocolors and RoboZaps. The controller does not work in this way.

Also, please note that at any time you can change between the different function sections of the 2501 controller. For example, if you have some RoboZaps connected to the link and they are running a Stand - Alone sequence, by pressing the button marked [Red] all of the units will stop running stand - alone and will change color to Red.

Current Controller version and Software Requirements for Units

For some of the functions within the 2501 controller you will need to make sure that the units that you connect into the link have the correct Eprom software inside of them. Please read the list below to find out which Eprom Software Version you will need.

Color selections will work on all units regardless of software version.

Strobe selections will work on all units with built-in strobe effect regardless of software version.

Pre-program mode will work on the following products:

Robocolor/Robocolor II Controller, Robocolor MSD, Robocolor Pro 400 RoboZap, RoboZap MSR

Centrepiece

Roboscan 804, 805, 1004, 1005, 812

Roboscan Pro 218, Pro 518.

Activation of **stand-alone** mode requires the following version Eprom software:

Robocolor Controller Version 4+ Robocolor II Controller All versions Robocolor MSD Version 3+ Robocolor Pro 400 All Versions RoboZap Version 3+ Robozap MSR Future Upgrade Centrepiece Version 3+ Roboscan 804/805 Version 2+ Roboscan 812 All Versions Roboscan 1004/1005 Version 8+ Roboscan 1016 Version 2+ Roboscan Pro 218 Version 2+ Roboscan Pro 518 All Versions

Unit Dip Switch Settings

Each product type connected to the 2501 controller has its own relevant dip switch setting, this dip switch setting is the same for all products of the same type no matter how many units are connected to the link. For example, if you have a link with 10 Robocolor controllers and 10 RoboZaps connected, all of the Robocolor Controllers should have a dip switch setting of 1 (100000), and all of the RoboZaps should have a dip switch setting of 4 (001000).

The full list of all product dip switch settings is shown below:

Robocolor Controller	1	[100000]
Robocolor MSD	2	[010000]
Robocolor II Controller	3	[110000]
RoboZap	4	[001000]
RoboZap MSR	5	[101000]
Robocolor Pro 400	6	[011000]
Roboscan 804/805/1004/1005	8	[000100]
Roboscan 1016	9	[100100]
Roboscan 1208	10	[010100]
Roboscan 218	11	[110100]
Roboscan 1020/1220 A	12	[001100]
Roboscan 1020/1220 B	13	[101100]
Roboscan 812	14	[011100]
Roboscan Pro 518	15	[111100]
Centrepiece	16	[000010]

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