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f.a.l

SIRIO II ARGB

Instruction Manual

Model:

SIRIO II ARGB

ATTENTION

This instruction manual contains important information about the installation and use of the projector. Please read and follow these instructions carefully.

ATTENTION

Always ensure that the power to the projector is disconnected before opening the projector or commencing any maintenance work.

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1 - SAFE USAGE OF THE PROJECTOR

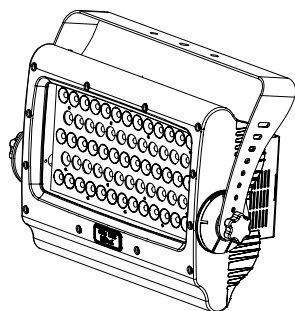
- Disconnect power before opening.
- Do not attempt to dismantle and modify the projector.
- Do not allow contact with water or any other fluids, or metallic objects.
- Do not install the projector in areas of high humidity.
- Not allowed to be mounted directly on inflammable surfaces.
- Keep at least 0.5 meter distance between the projector and adjacent inflammable surfaces.
- The lighting apparatus must be used only with its protective shield.
- Protective grill, lenses, U.V. filters should be replaced if they are visibly damaged to the point at which their effectiveness is diminished, for example by becoming cracked or deeply scratched.
- Keep at least 5 meters between the lamp and the illuminated surface.
- Avoid direct exposure to the light from the lamp. The light is harmful to the eye.
- The lamp reaches very high temperatures, allow at least 15 minutes for the lamp to cool completely before attempting to handle it.
- To ensure the reliability of the projector, it is recommended that the fans should be cleaned every 15 days. In locations such as discotheques the objective lens should be cleaned every week as smoke fluid can condense on it and very quickly reduce the light output.

2 - GETTING STARTED

In this section you will find some brief steps to follow to start using immediately the projector. These few instructions are essential for connecting and supplying the projector, but do not exhaust the several functions the apparatus is capable to do.

You are strongly invited to read the rest of this instructions manual once installed the projector, so as to get more insight and acquire full control on the fixture functionalities. For further deepening on single steps, you are send back to the relevant section, indicated in the brackets.

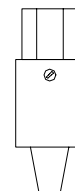
Open the shipping carton and verify that all equipment necessary to operate the system has arrived intact. Refer to the following packing list for information on what items are included with your model. If any equipment is missing or damaged, contact your FAL dealer immediately.



1* SIRIO II ARGB



1* Instruction manual

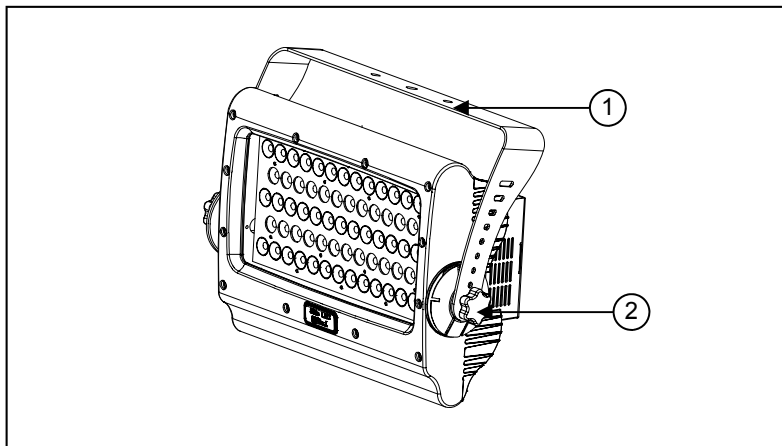


1* Power connector

Before beginning initial setup of your SIRIO II ARGB, make sure that there is no evident damage caused by transportation. In the event that the unit's housing or cable is damaged, do not plug it in and do not attempt to use it until after contacting your FAL dealer for assistance.

3 - INSTALLING THE PROJECTOR

The Projector should be mounted via its yoke (1) using at least two M10 size screws. Always ensure that the structure to which you are attaching the projector is secure and is able to support a weight of SIRIO II ARGB (8.5kg). The projector yoke allows an angle adjustment of +/- 360°. And, once positioned, the knobs (2) should be firmly tightened. For safety the projector should have a secondary fixing with a safety chain to wind the yoke.



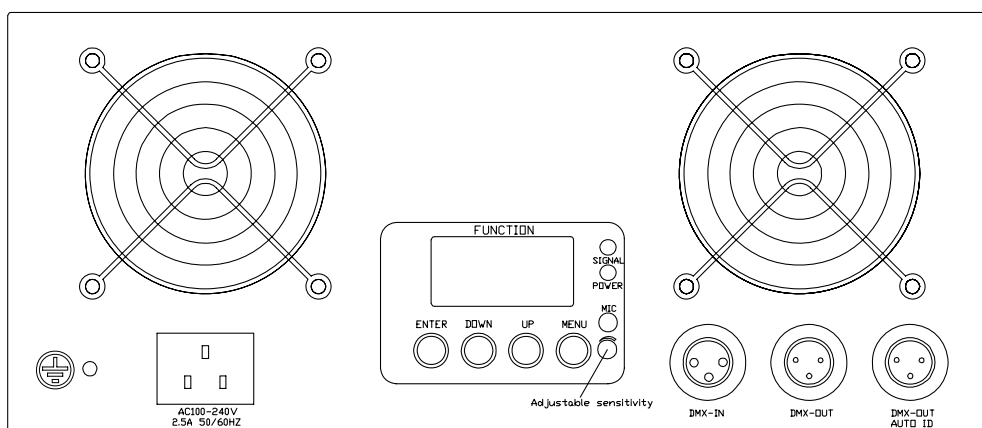
4 - CONNECTIONS

MAINS CONNECTION:

Please pay attention to the voltage and frequency marked on the back panel of the projector. It is recommended that each projector is supplied separately so that they may be individually switched on and off.

It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards. Power consumption of the SIRIO II ARGB is 150W.

NOTE: The Earth must be connected.



DMX 512 CONNECTION:

The SIRIO II ARGB accepts digital control signal in DMX 512 format. Connection between controller and projector and between one projector and another must be made with 2 core screened cable, with each core having at least 0.5mm² cross section. Connection to and from the projector is via XLR-3 plugs and sockets. The XLR's are connected as shown in the table below.

NOTE: Make sure that none of the connections touch the body of plug or each other. The body of the plug is not connected anyway.

DMX 512 Connection (XLR-3 only 3 pins)**DIGITAL IN**

- 1: Ground
- 2: Signal (-)
- 3: Signal (+)

**DIGITAL THRU**

- 1: Ground
- 2: Signal (-)
- 3: Signal (+)

DMX 512 SIGNAL	
PIN	FUNCTION
1	GND
2	DATA -
3	DATA +

Connect the control signal to the socket on the side panel marked **DIGITAL IN** and then from the socket marked **DIGITAL THRU** socket of the next projector.

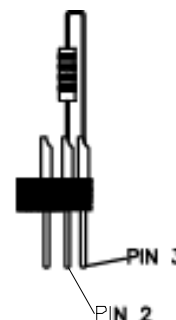
When a correct DMX signal is present the **SIGNAL LED** near by the display will lit green (DMX OK); when the signal is not present the **SIGNAL LED** will be off (NO DMX), and if a transmission error occurs the **SIGNAL LED** will be start blinking (DMX ERROR).

DMX TERMINATION

For all installations having long signal cables or in presence of electrical noise, for example a discotheque, it is recommended practice to use a DMX terminator: this assists in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR connector with a 120Ω resistor connected across pins 2 and 3, which is then plugged into the DIGITAL THRU socket on the last projector in the chain. The connections are illustrated below.

DMX TERMINATOR CONNECTOR

Some DMX device required the termination between pin2 and pin3 on the last device on DMX chain, so connect a 120 resistor across pins 2 and 3 in an XLR plug and insert into the DIGITAL THRU socket on the last unit in the chain.

**5 - PROJECTOR ADDRESS**

The SIRIO II ARGB is controlled with 6 channels. Each projector must be given a digital start address number so that the correct projector responds to the correct control signals. The digital start address is the channel number from which the projector starts to “listen” to the digital control information being sent out from the controller. This digital encoding must be done on each projector.

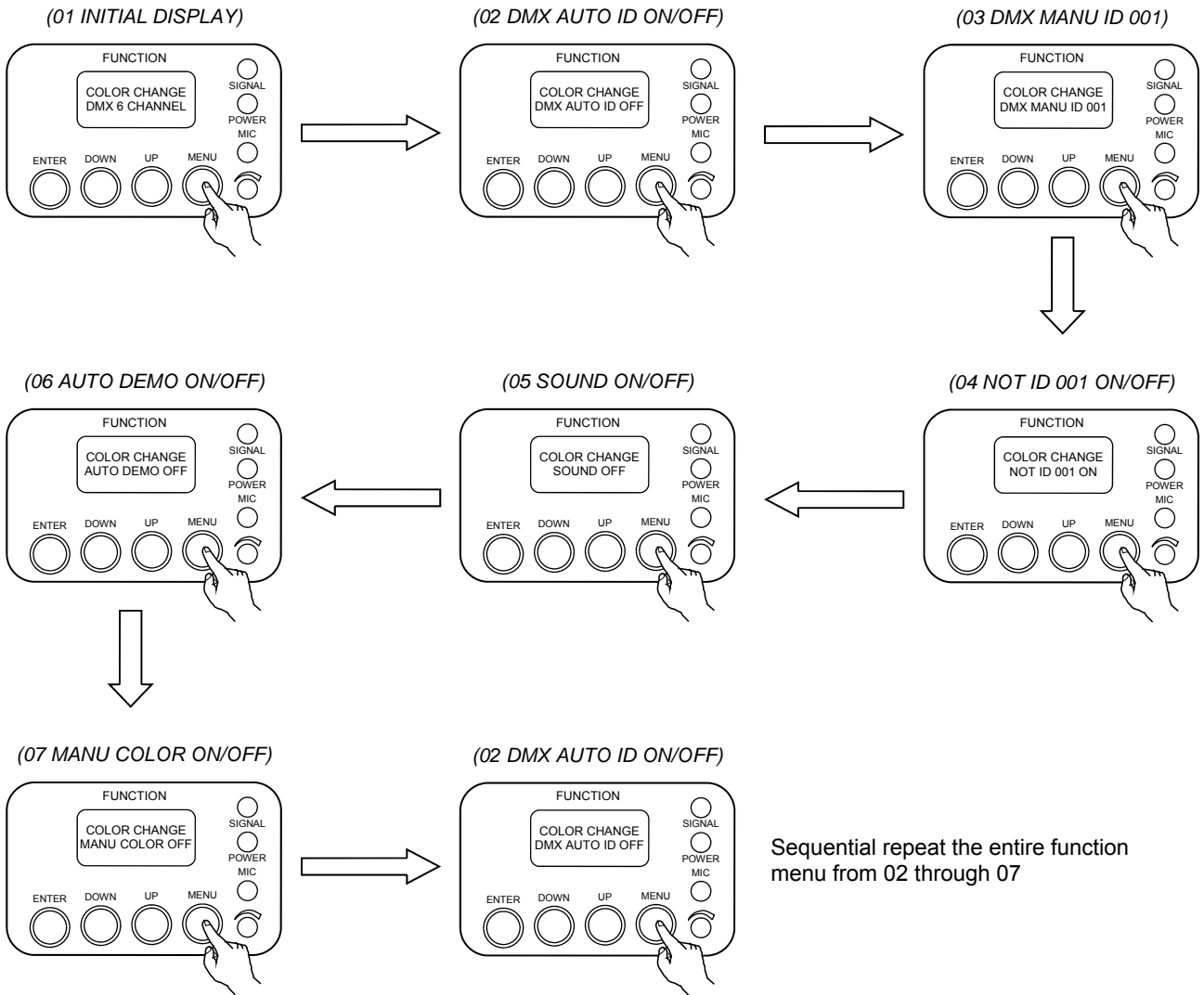
The SIRIO II ARGB has one very advanced feature: AUTO ID function. It's means that the SIRIO II ARGB can obtain its own unique address automatically from the DMX chain without manually address DMX channel. Please refer to the **SETUP MENU** and **SYSTEM DIAGRAM EXAMPLES** section.

6 - SETUP MENU

There are four keypads for setup all the functions that SIRIO II ARGB offers, **MENU**, **UP**, **DOWN** and **ENTER**. Also the display will shows related information for ease of setup.

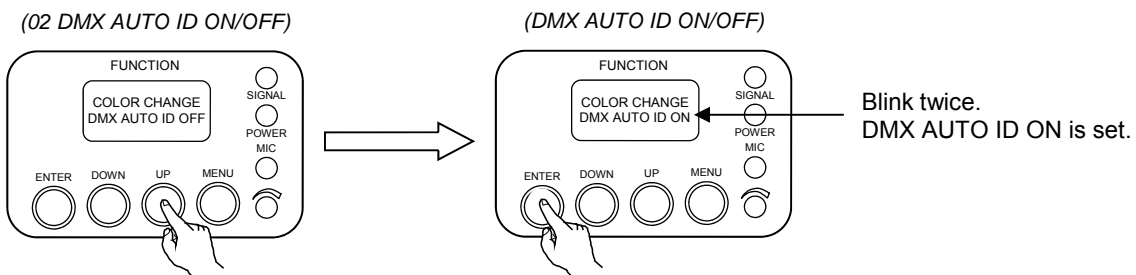
There are seven main menus and several sub menus for setup. The main menus shows the setup function for selection while sub menus are for execute the setup. Please note that the display will blink twice after pressing the **ENTER** key in the execute menu, this means the desired function is set.

The are seven main functions shown as below (please use **MENU** keypad to access the desired function) :



02 SET UP THE DMX AUTO ID ON/OFF FUNCTION

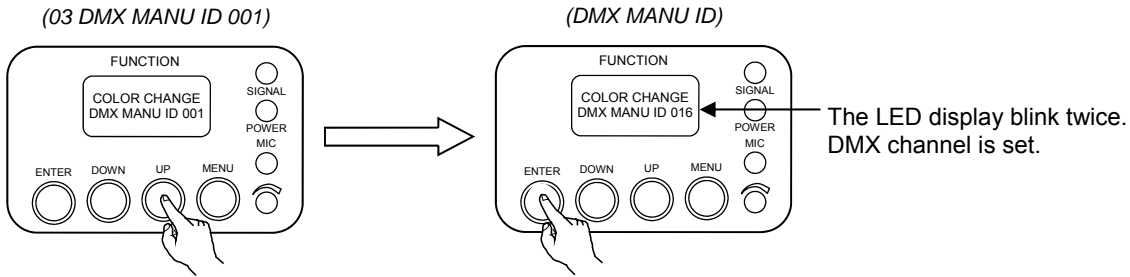
Use either **UP** or **DOWN** keypad to set **DMX AUTO ID ON** or **OFF**.



03 SET UP THE DMX MANU ID

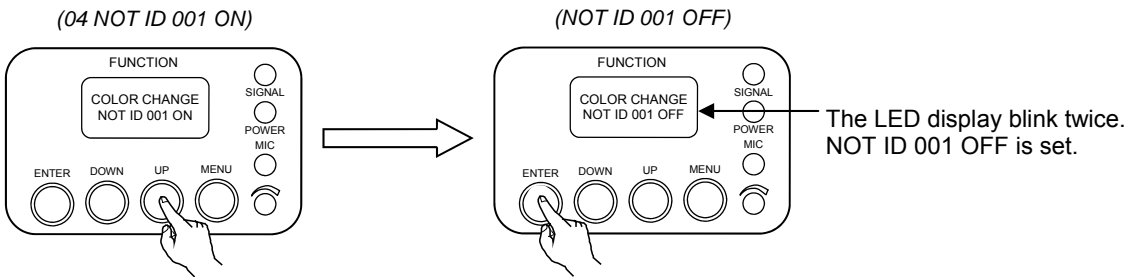
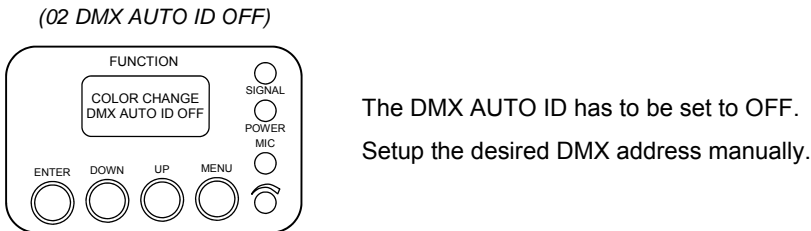
If DMX AUTO ID is ON, the DMX MANU ID will remain 000, and has no any parameter for setting.

Only the DMX AUTO ID set to OFF, then DMX address can be set manually. Use UP and DOWN keypads to set the desired DMX channel.



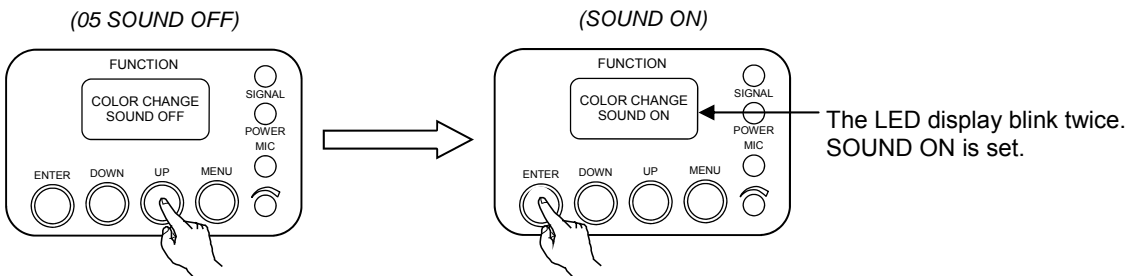
04 SET UP THE NOT ID 001 ON

This function is used in the DMX system mix with DMX AUTO ID and DMX NOT AUTO ID devices. Please refer to the **SYSTEM DIAGRAM EXAMPLES** section.



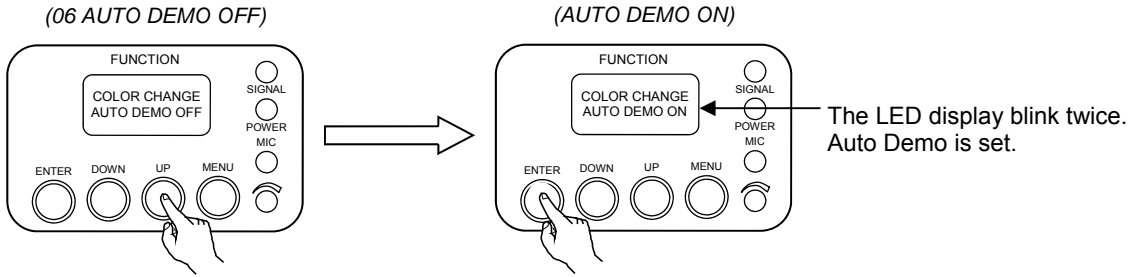
05 SET UP SOUND ACTIVATING FUNCTION ON OR OFF

Use UP or DOWN keypad to select the sound activating function, in this mode Sirio II ARGB is out of control by DMX.



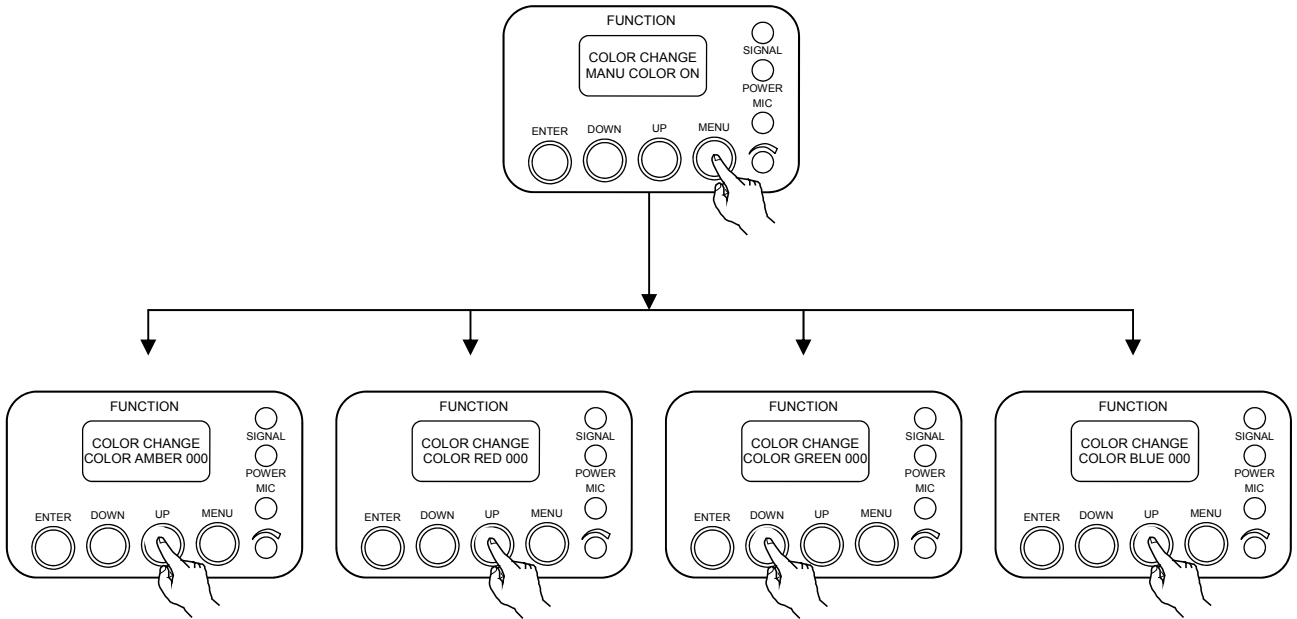
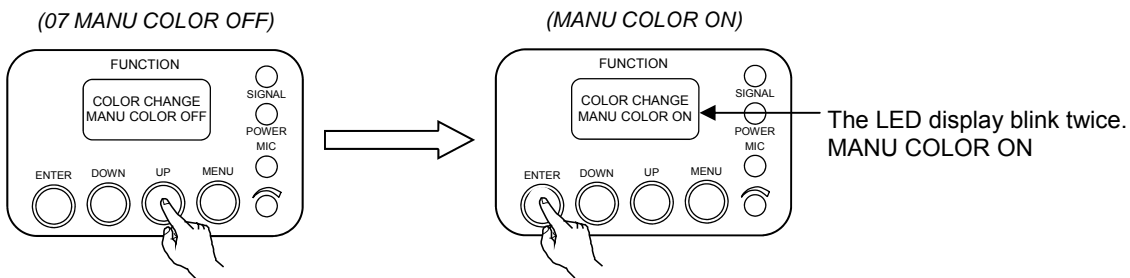
06 SET UP AUTO DEMO ON OR OFF

Use UP or DOWN keypad to select the auto demo function, in this mode Sirio II ARGB is out of control by DMX.



07 SET UP MANU COLOR ON/OFF

Use UP or DOWN keypad to select the MANU COLOR ON/OFF function.



Use UP or DOWN keypad to set up the desired AMBER color level.

Use UP or DOWN keypad to set up the desired RED color level.

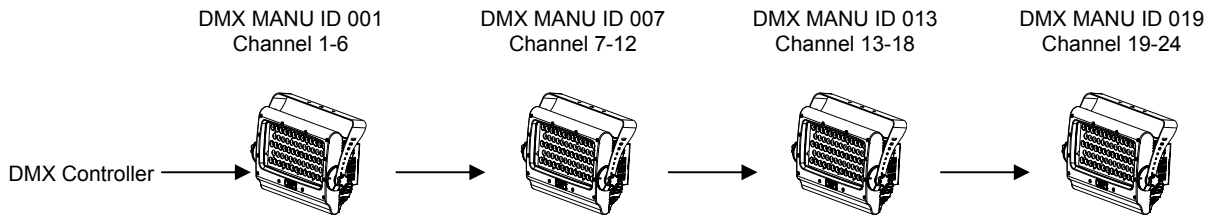
Use UP or DOWN keypad to set up the desired GREEN color level.

Use UP or DOWN keypad to set up the desired BLUE color level.

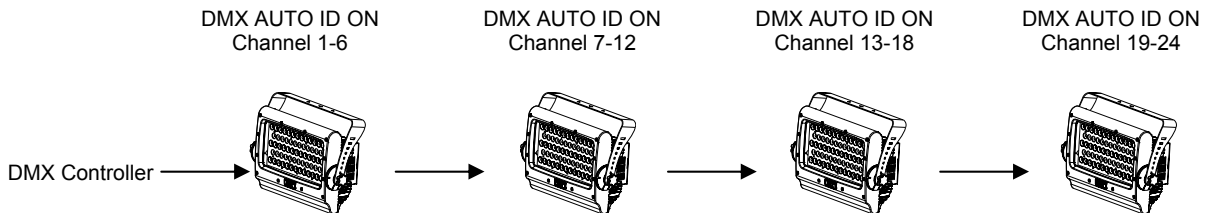
NOTE: Don't forget to press the ENTER keypad if the desired level is set.

7 - SYSTEM DIAGRAM EXAMPLES

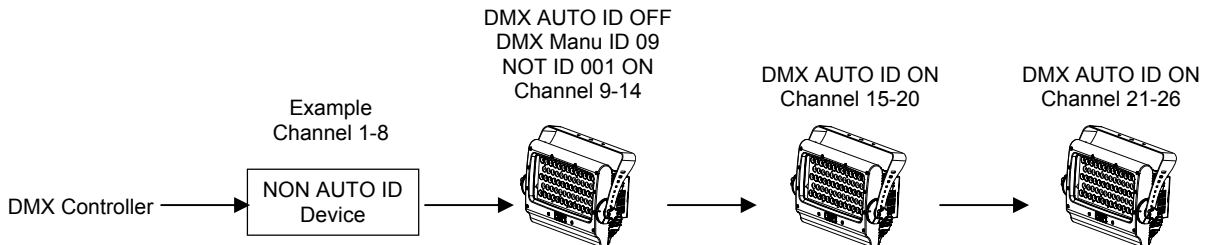
7.1 MANUAL DMX ADDRESSING



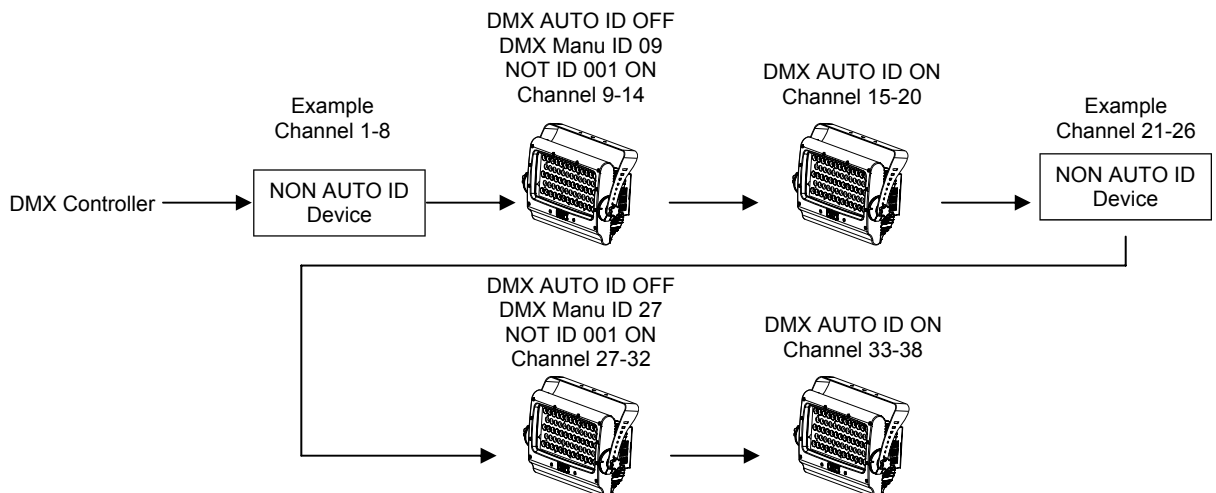
7.2 AUTO ID (DMX) ADDRESSING



7.3 MANUAL DMX AND AUTO ID ADDRESSING I



7.4 MANUAL DMX AND AUTO ID ADDRESSING II



8 - DMX TABLE

CHANNEL	FUNCTION	CHANNEL	FUNCTION
Channel 1	Amber dimmer 0 - 100%	Channel 5	1 - 5, Sound active
Channel 2	Red dimmer 0 - 100%	Channel 5	6 - 10, Program mixing color
Channel 3	Green dimmer 0 - 100%	Channel 5	11 - 255, Strobe 1 – 30Hz
Channel 4	Blue dimmer 0 - 100%	Channel 6	0 - 255, Master
Channel 5	0 = Dimmer		

9 - TROUBLESHOOTING

To ensure the reliability of the spotlight it should be kept clean. It is recommended that the fan should be clean every 15 days with compressed air and in case of more resistant dirt with one soft brush.

Shall any malfunction occurred, please try following solutions.

PROBLEM	POSSIBLE SOLUTION
The spotlight does not start	Check the power connections
The spotlight does not respond to the controller	Check the DMX cable connections, DMX address, Auto ID and signal indication LED status. Make sure that they are all proper addressed.
The spotlight does not work or work not properly.	Check the DMX cable connections and DMX address. Make sure that the spotlight is not in the demo or sound activated mode.
Color does not match the assigned channel.	Check the DMX channel related color.

10 - TECHNICAL SPECIFICATIONS

Power Supply:	100V - 240VAC, 50 - 60Hz
Power Consumption:	150W
LED Power:	192W
LED Source:	48 * 3W R/G/B, 16 * 3W amber
Luminous flux:	A/3W=80 lum/592nm R/3W=70 lum /620nm G/3W=140 lum/ 520nm B/3W=30 lum/ 465nm
Optional Optics:	25°/ 50°
DMX Channel	6 Channel
Maximum Ambient Temperature:	0°C-60°C
Maximum Housing Temperature:	80°C
Chassis Material:	Die cast aluminum body
Protection:	IP20
Dimension (L * W * H):	440mm * 307mm * 151mm
Weight:	8.5Kg

