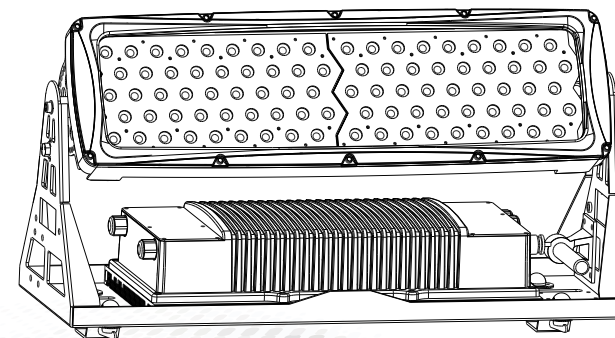


TARPON i90

USER MANUAL

arctik[®] ARCHITECTURAL TECHNOLOGY TARPON i90 AM723



MODEL:AM723XWT



广州市雅江光电设备有限公司
Guangzhou Yajiang Photoelectric Equipment Ltd.
电话/Tel:020-86947788 邮箱/E-mail:sales@yajiang.cn
传真/Fax:020-86943773 网址/Website:www.yajiang.cn

— Since 1985 —

RD-AM723WT-SM-00(ARC-1)

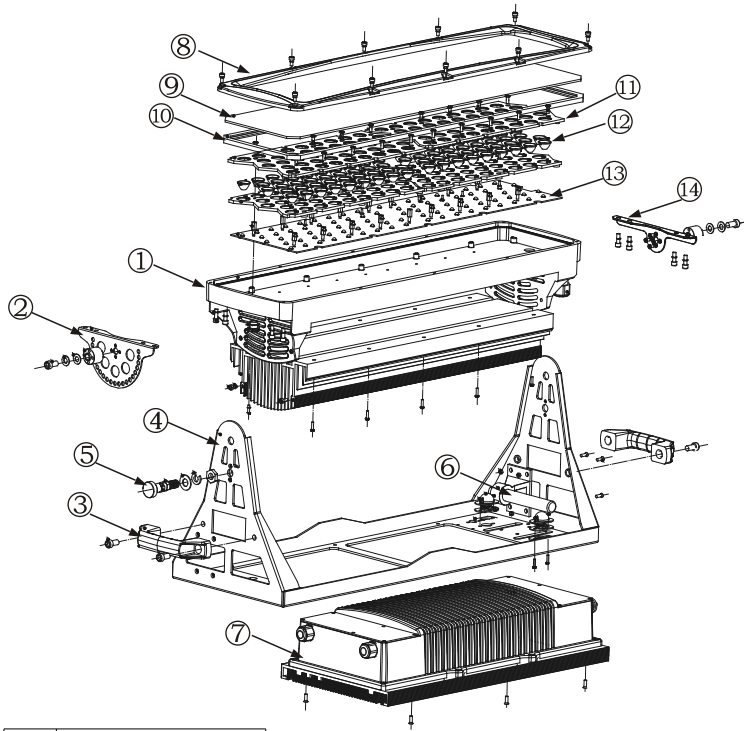
T ABLE OF CONTENTS

NOTES

PART 1 PRODUCT SPECIFICATIONS.....	1.
1.1-- <i>PRODUCT FEATURES</i>	1.
1.2-- <i>TECHNICAL SPECIFICATIONS</i>	1.
1.3-- <i>DIMENSIONS</i>	1.
1.4-- <i>SAFETY WARNING</i>	2.
PART 2 INSTALLATION.....	3.
2.1-- <i>MOUNTING</i>	3.
2.2-- <i>POWER CONNECTIONS</i>	4.
2.3-- <i>SIGNAL CONNECTIONS</i>	4.
PART 3 CONTROL WITH A DMX512 CONTROLLER.....	5.
3.1-- <i>CHANNEL ASSIGNMENT</i>	5.
PART 4 USING THE DMX CODER.....	10.
4.1-- <i>TECHNICAL SPECIFICATIONS</i>	10.
4.2-- <i>SETTING PARAMETERS</i>	10.
4.3-- <i>BASIC</i>	11.
4.4-- <i>MENU</i>	11.
4.5-- <i>DMX ADDRESS</i>	12.
4.6-- <i>PERSONALITY</i>	12.
4.7-- <i>CALIBRATION</i>	12.
4.8-- <i>DIMMER</i>	13.
4.9-- <i>STATIC</i>	13.
4.10-- <i>SETTINGS</i>	13.
PART 5 OPERATION WITH WIRELESS DMX.....	14.
PART 6 APPENDIX.....	16.
6.1-- <i>MAINTENANCE</i>	16.

6 APPENDIX

6.1 MAINTENANCE



NO	ITEM
1	Head casing set
2	Mounting bracket
3	Base handle
4	Mounting frame set
5	Mounting rod
6	W-DMX antenna (optional)
7	Power supply casing set
8	Head casing front section
9	Tempered glass
10	Head casing gasket
11	Lens board
12	Lens
13	LED board
14	Rotating bracket

1 PRODUCT SPECIFICATIONS

1.1 PRODUCT FEATURES

LED FIXTURE

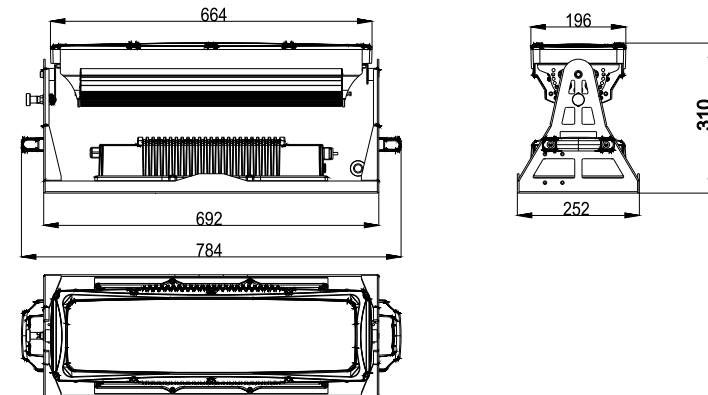
- * Setting:DMX Coder(AM-700)
- * Opration:DMX512/Static Play/Wireless
- * Function:RGBW 0~100%dimming;Linear/Nonlinear dimming;RGBW Calibration
- * Installation:Bracket
- * Power:3 core in
- * Data :5 core in/out cable

1.2 TECHNICAL SPECIFICATIONS

LED MODULE

LED MODULE:	
Voltage	100~277V...50/60Hz
Power	310W
RED	3W x 24
GREEN	3W x 24
BLUE	3W x 24
WHITE	3W x 18
IP RATING	IP 66
Operation Temperature	-40℃~45℃(operating) -20℃~45℃(startup)
Dimensions	784×252×310mm
Weight	25Kg

1.3 DIMENSIONS



1.4 SAFETY WARNING

IMPORTANT

**[ALWAYS READ THE USER MANUAL BEFORE OPERATION.]
[PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE PRODUCT IS THE SAME AS THE MAINS POWER SUPPLY IN YOUR AREA.]**

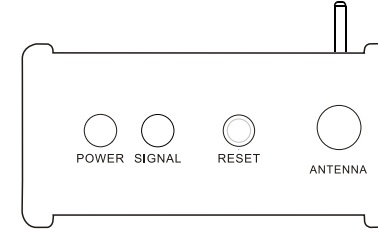
- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

ATTENTION

ATTENTION

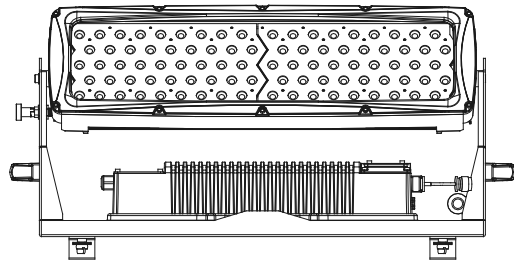
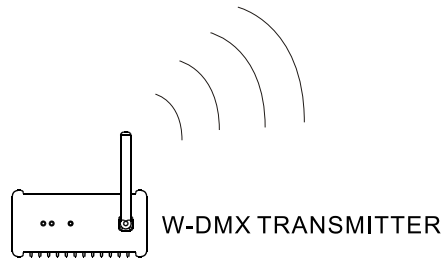
- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- It is important that the power cable is frequently inspected to ensure that there is no damage in any position. If the power cable is damaged in any way, it should be replaced by a qualified electrical technician.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

- 5.4 By pressing the RESET button on W-DMX transmitter, transmitter will search for RESET lighting fixtures. During search transmitter green SIGNAL indicator will flash. After pairing with lighting fixture green SIGNAL indicator will display.

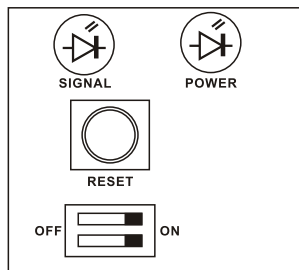


- 5.5 Once a lighting fixture has been paired with a W-DMX transmitter, the green SIGNAL indicator will display. Once a lighting fixture has been paired with a W-DMX transmitter, the lighting fixture cannot be paired with another W-DMX transmitter. If a lighting fixture requires pairing with a new W-DMX transmitter, steps 5.3 and 5.4 must be repeated.

5 OPERATION WITH WIRELESS DMX



- 5.1 When using this lighting fixture with W-DMX receiver installed inside, the fixture may be placed at a range of 200m from W-DMX transmitter
- 5.2 First use DMX ENCODER to set operation mode to DMX and set DMX address
- 5.3 Open the protective cover to gain access to the W-DMX receiver card. Position both of the dip switches at the ON position. The red POWER indicator will display. Press and hold the RESET button until the green SIGNAL indicator is off. This state indicates that the W-DMX receiver board is ON and fully RESET (available to pair with W-DMX transmitter).



2 INSTALLATION

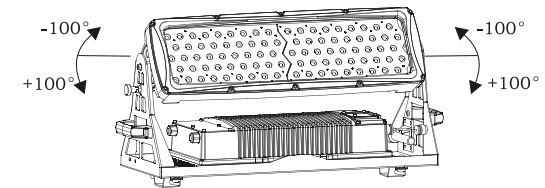
2.1 MOUNTING

UPRIGHT

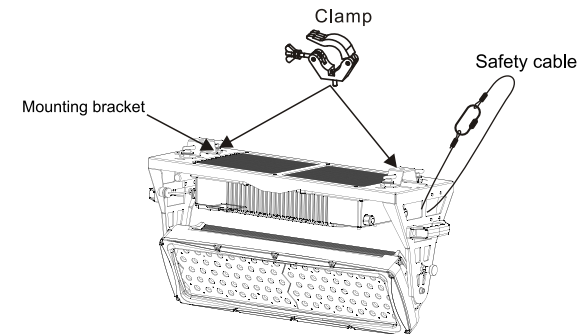
The LED Fixture can be mounted in a sitting or wall mounted position using the supporting brackets. The LED Fixture should be placed on a non-flammable flat surface in any orientation and fixed by screws. There are four holes into the supporting bracket.

HANGING:

- ◆ Ensure that fixture is mounted to a structure that is correct and suitable for hanging this kind of lighting fixture
- ◆ Mounting structure should withhold load of ten times fixture weight
- ◆ Fixture is mounted using mounting bracket and clamps (see diagram)
- ◆ A safety cable should always be used with this lighting fixture (safety cable should withstand ten times lighting fixture weight)

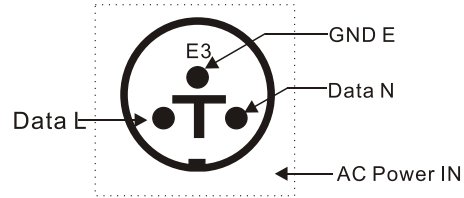


2.1-1



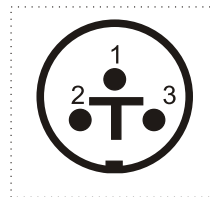
2.1-2

2.2 POWER CONNECTIONS



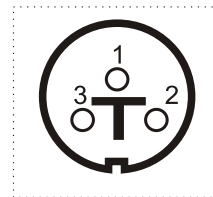
POWER LINE	NORTH AMERICA	EUROPE
	L (Black) N (White) E (Green)	L (Brown) N (Blue) E (Green/Yellow)

2.3 SIGNAL CONNECTIONS



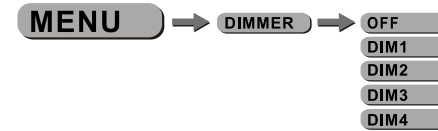
DMX IN

- 1 -GND
- 2 -Data (-)
- 3 -Data (+)



DMX OUT

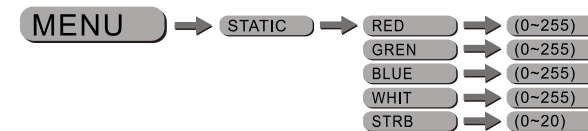
4.8 DIMMER



【DIMMER】

- Enter the **【DIMMER】** to select the dimmer work mode, press **【Enter】**
- When Dimmer is set to **【OFF】** the RGB and Master Dimmer are linear,
- When selecting **【DIM1】**, **【DIM2】**, **【DIM3】** or **【DIM4】**, the RGB and Master Dimmer are nonlinear
- These 4 dimming modes have different soft and smooth dimming effects from fast to slow

4.9 STATIC



【STATIC】

- Enter the **【STATIC】** mode to create the programs
- Combine **【RED】**, **【GREEN】**, **【BLUE】** and **【WHITE】** to create an infinite range of colors
- Set value of the **【STROBE】**, **【0-20Hz】**
- The static setting will be valid when the fixture is powered again

4.10 SETTINGS



【COLOR】

- When **【RGB TOW】** is set to **【YES】**, the color is perfect white as the actual RGB values are adjusted to make white. When it is set to **【OFF】**, the RGB values are not adjusted and the output is most powerful. The **【RGB TOW】**'s parameter can be adjusted in **【CALIB】**.
- **【UC】** Function can be compatible with the older version **【RGB】** to make color consistency.

【RESET】

- Enter the **【RESET】**, pass **【YES】** to create all settings to the original factory setting.

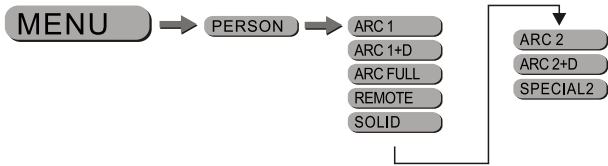
4.5 DMX ADDRESS



【DMX】

- Enter the **【DMX】** mode to set the DMX address, press **【Enter】**
- On successful setting, the fixtures will display Green and turn off after ten seconds
- If an error occurs when setting, the fixtures will display Red or no response

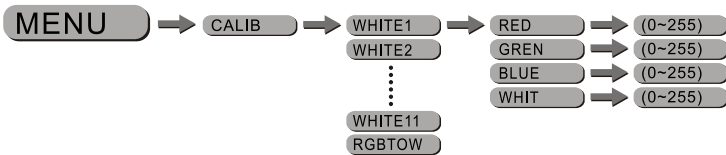
4.6 PERSONALITY



【PERSON】

- Enter **【PERSON】** and select **【ARC 1】 / 【ARC 1+D】 / 【ARC FULL】 / 【REMOTE】 / 【SOLID】 / 【ARC 2】 / 【ARC 2+D】 / 【SPECIAL 1】 / 【SPECIAL 2】** mode, press **【Enter】**
- When selecting **【ARC 1】 / 【ARC 1+D】 / 【ARC FULL】 / 【REMOTE】 / 【SOLID】 / 【ARC 2】 / 【ARC 2+D】 / 【SPECIAL 2】**, the fixture is under the DMX work mode.
- When selecting **【REMOTE】**, the fixture is ready to receive signals from the Pix Controller.

4.7 CALIBRATION



【CALIB】

- Enter the **【CALIB】** to select white colors of different color temperature
- There are 11 pre-programed white colors plus RGB and can be edited by using **【Red】**, **【Gren】**, **【Blue】** or **【WHIT】**, press **【Enter】** to set the values
- while working under **【ARC FULL】**, **【WHITE1-9】** means the different color temperature white 1 to white 9 of CH5.
- Select **【RGB TOW】** to set the ratio of **【Red】**, **【Gren】**, and **【Blue】** on DMX channels, achieving different white colors

3 CONTROL WITH A DMX512 CONTROLLER

3.1 CHANNEL ASSIGNMENT

- Note: This product has seven DMX512 channel configurations: **【ARC1】**, **【ARC1+D】**, **【ARC FULL】**, **【SOLID】**, **【ARC2】**, **【ARC2+D】**, **【SPECIAL2】**

ARC1

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	RED
2	0 ↔ 255	GREEN
3	0 ↔ 255	BLUE

ARC1+D

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	MASTER DIMMER
2	0 ↔ 255	RED
3	0 ↔ 255	GREEN
4	0 ↔ 255	BLUE

ARC2

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	RED
2	0 ↔ 255	GREEN
3	0 ↔ 255	BLUE
4	0 ↔ 255	WHITE

ARC2+D

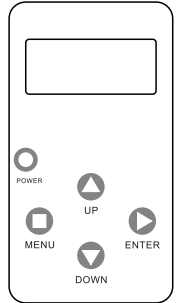
CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	MASTER DIMMER
2	0 ↔ 255	RED
3	0 ↔ 255	GREEN
4	0 ↔ 255	BLUE
5	0 ↔ 255	WHITE

ARC FULL

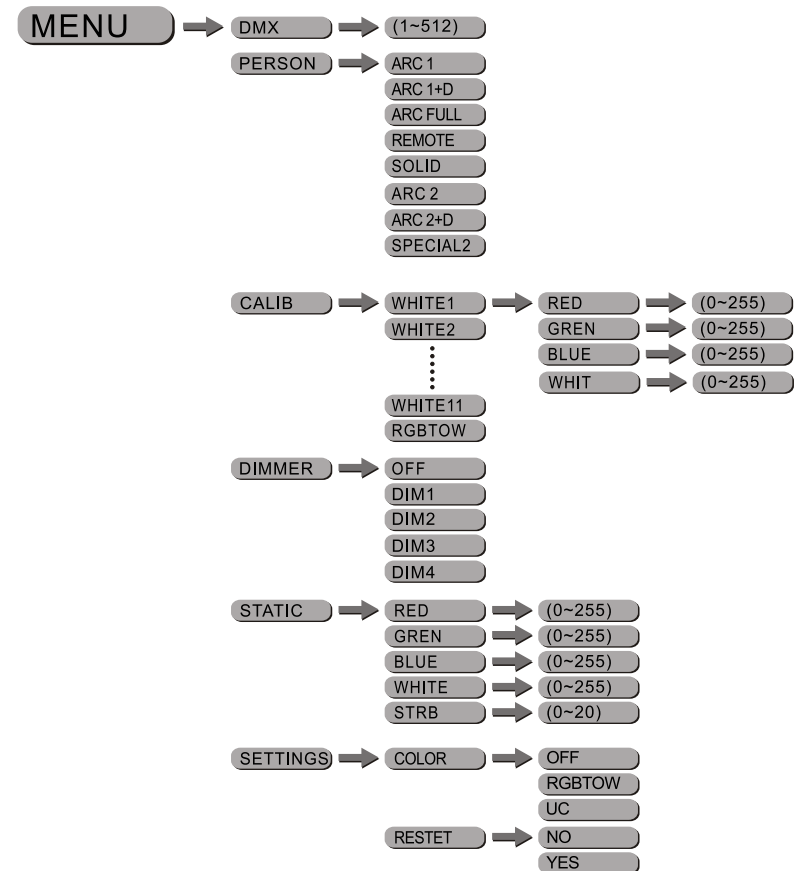
CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	MASTER DIMMER
2	0 ↔ 255	RED
3	0 ↔ 255	GREEN
4	0 ↔ 255	BLUE
5	0 ↔ 10	COLOR MACRO NO FUNCTION
	11 ↔ 30	RED 100%/GREEN UP/BLUE 0%
	31 ↔ 50	RED DOWN/GREEN 100%/BLUE 0%
	51 ↔ 70	RED 0%/GREEN 100%/BLUE UP
	71 ↔ 90	RED 0%/GREEN DOWN/BLUE 100%
	91 ↔ 110	RED UP/GREEN 0%/BLUE 100%
	111 ↔ 130	RED 100%/GREEN 0%/BLUE DOWN
	131 ↔ 150	RED 100%/GREEN UP/BLUE UP
	151 ↔ 170	RED DOWN/GREEN DOWN/BLUE 100%
	171 ↔ 200	RED 100%/GREEN 100%/BLUE 100%/WHITE 100%
	201 ↔ 205	WHITE 1: 3200K

4.3 BASIC

- 【 POWER 】** Power on
- 【 MENU 】** Scroll through the main menu or exit from the current sub-menu (press and hold to turn off power)
- 【 ENTER 】** Enter the currently selected menu or confirm the current function value
- 【 DOWN 】** Scroll 'DOWN' through the menu list or decrease the value of the current function
- 【 UP 】** Scroll 'UP' through the menu list or increase the value of the current function



4.4 MENU



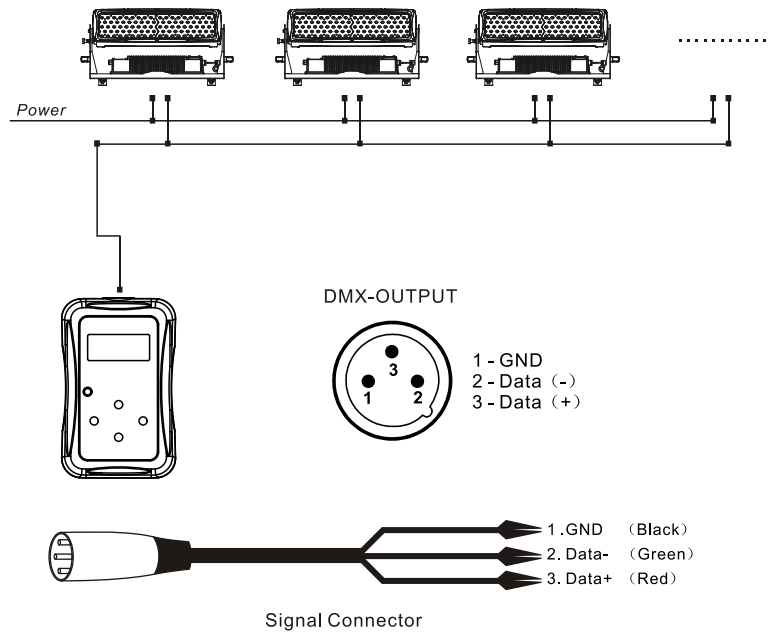
4 USING THE DMX CODER

4.1 TECHNICAL SPECIFICATIONS

LED MODULE:	
Battery	2 x 1.5V DC
Dimensions	110 x 70 x 28mm
Weight	0.2Kg

4.2 SETTING PARAMETERS

- Connect the DMX Coder to the units in series
- Set the DMX address, Personality, Calibration and Dimmer of fixtures through the DMX Coder
- A maximum of 20 units in series can be set by the DMX Coder at the same time
- All connected units will be set with the same information



Note: The DMX Coder will automatically power off after extended periods of being idle (1 minute)

CHANNEL	VALUE	FUNCTION
5	206 ↔ 210	WHITE 2: 3400K
	211 ↔ 215	WHITE 3: 4200K
	216 ↔ 220	WHITE 4: 4900K
	221 ↔ 225	WHITE 5: 5600K
	226 ↔ 230	WHITE 6: 5900K
	231 ↔ 235	WHITE 7: 6500K
	236 ↔ 240	WHITE 8: 7200K
	241 ↔ 245	WHITE 9: 8000K
	246 ↔ 250	WHITE 10: 8500K
	251 ↔ 255	WHITE 11: 10000K
	6	0 ↔ 9
10 ↔ 255		FROM SLOW TO FAST
7	0 ↔ 9	DIMMING SPEED OFF
	10 ↔ 69	SPEED1 (FASTEST)
	70 ↔ 129	SPEED2
	130 ↔ 189	SPEED3
	190 ↔ 255	SPEED4 (SLOWEST)

SOLID

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	RGB & MASTER DIMMER

SPECIAL2

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	MASTER DIMMER
2	0 ↔ 255	RED
3	0 ↔ 255	GREEN
4	0 ↔ 255	BLUE
5	0 ↔ 255	WHITE
6	0 ↔ 10	COLOR MACRO NO FUNCTION
	11 ↔ 30	RED 100%/GREEN UP/BLUE 0%
	31 ↔ 50	RED DOWN/GREEN 100%/BLUE 0%
	51 ↔ 70	RED 0%/GREEN 100%/BLUE UP
	71 ↔ 90	RED 0%/GREEN DOWN/BLUE 100%
	91 ↔ 110	RED UP/GREEN 0%/BLUE 100%
	111 ↔ 130	RED 100%/GREEN 0%/BLUE DOWN
	131 ↔ 150	RED 100%/GREEN UP/BLUE UP
	151 ↔ 170	RED DOWN/GREEN DOWN/BLUE 100%
	171 ↔ 200	RED 100%/GREEN 100%/BLUE 100%/WHITE 100%
	201 ↔ 205	WHITE 1: 3200K
	206 ↔ 210	WHITE 2: 3400K
	211 ↔ 215	WHITE 3: 4200K
	216 ↔ 220	WHITE 4: 4900K
	221 ↔ 225	WHITE 5: 5600K
	226 ↔ 230	WHITE 6: 5900K
231 ↔ 235	WHITE 7: 6500K	
236 ↔ 240	WHITE 8: 7200K	
241 ↔ 245	WHITE 9: 8000K	
246 ↔ 250	WHITE 10: 8500K	
251 ↔ 255	WHITE 11: 10000K	

CHANNEL	VALUE	FUNCTION
7	0 ↔ 9	STROBE NO FUNCTION
	10 ↔ 255	FROM SLOW TO FAST
8		DIMMING SPEED
	0 ↔ 9	OFF
	10 ↔ 69	SPEED1 (FASTEST)
	70 ↔ 129	SPEED2
	130 ↔ 189	SPEED3
	190 ↔ 255	SPEED4 (SLOWEST)