

USER MANUAL

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1 PRODUCT (GENERAL)

1.1 PRODUCT INTRODUCTION

This product is designed for outdoor architectural applications. It can be operated both as a single unit and in multiple units for large applications.

1.2 PRODUCT FEATURES

LED FIXTURE

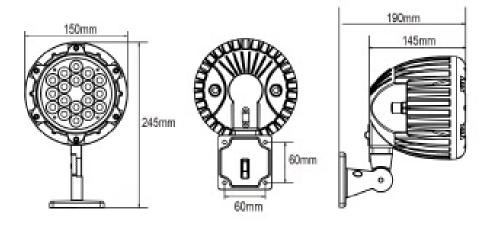
- * RGB dimmer 0-100%
- * Color macro
- * RGB calibration
- * Strobe
- * Dimmer speed control
- * Static Function
- * DMX512 control
- * Compatible with the PiX Controller
- * Lightweight aluminum casing
- * IP67 protection rating

1.3 TECHNICAL SPECIFICATIONS

LED MODULE

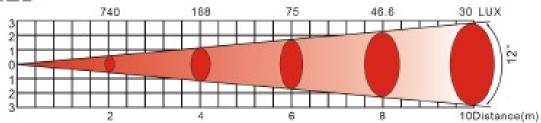
LED MODULE: .

| Voltage | 100~240V50/80Hz |
|-------------------------|--------------------------------------|
| Rated Power | 26W |
| IP | IP67 PROTECTION RATING |
| LED/Unit | 18pcs (6 x RED/ 6 x GREEN/ 6 x BLUE) |
| Output/LED | 1W |
| Environment Temperature | -20°C~40°C |
| Cooling | Direct air convection |
| Dimensions | 150 x 145 x245mm |
| Weight | 2.7Kg |
| | |

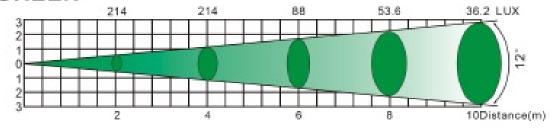


1.4 PHOTOMETRIC DATA

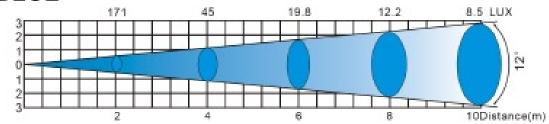
RED



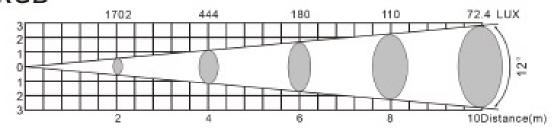
GREEN



BLUE



RGB



1.5 SAFETY WARNING

IMPORTANT

[ALWAYS READ THEUSER 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 mustalways 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

AATTENTION A

- 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.
- The lamp (LED) shall be changed if it has become damaged orthermally deformed.

2 INSTALLATION

2.1 MOUNTING

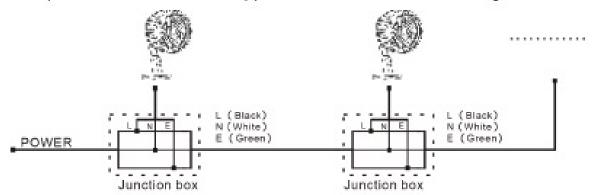
UPRIGHT

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.



2.2 POWER CONNECTIONS

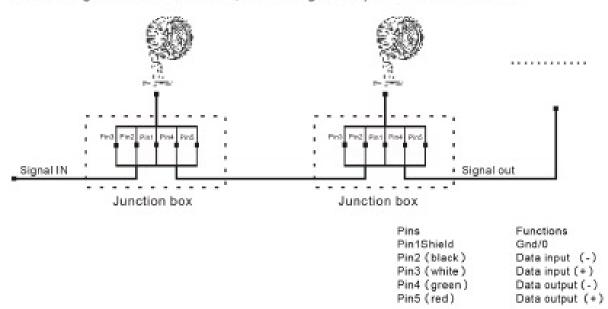
The power cable is 0.75mm² copper-core. See the connection diagram as follows:



2.3 SIGNAL CONNECTIONS

Pins and Functions:

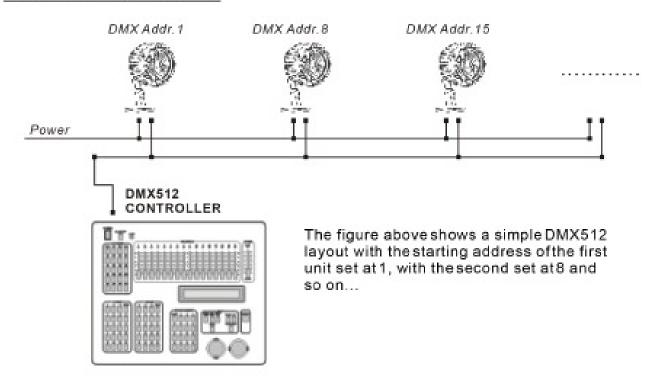
It is advised for greater stability that if over 20 units to be connected, or the total signal cable length is over 60 meters, a DMX signal amplifier should be used.



2.4 SETTING UP WITH A DMX512 CONTROLLER

- Connect the units in series, using standard DMX cable or IP 67 cable provided
- Set DMX address using a DMX coder
- Each DMX Address may be used as many times as required
- Any DMX address in the range from 001 to 512 may be used
- Connect the DMX512 controller to the units

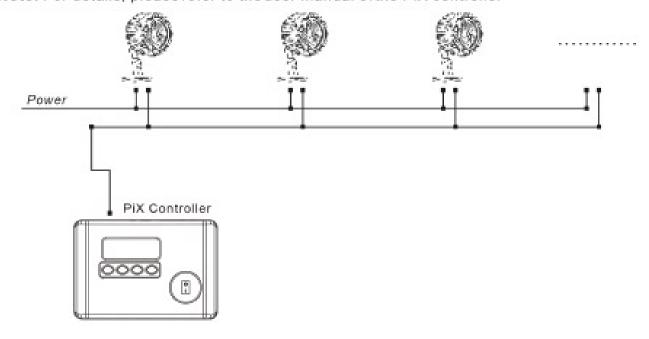
EXAMPLE (ARC FULL)



2.5 SETTING UP WITH THE PIX CONTROLLER

The fixture can also be controlled by the PiX Controller, set the fixture as [REMOTE] via the DMX coder before using the PiX controller

Note: For details, please refer to the user manual of the PiX controller



3 CONTROL WITH A DMX512 CONTROLLER

3.1 CHANNEL ASSIGNMENT

Note: This product has four DMX512 channel configurations: [ARC 1], [ARC 1+D],
 [ARC FULL], [SOLID].

ARC 1

| CHANNEL | VALUE | FUNCTION | |
|---------|----------|----------|--|
| 1 | 0 ⇔ 255 | RED | |
| 2 | 0 ⇔ 255 | GREEN | |
| 3 | 0 <⇒ 255 | BLUE | |

ARC 1+D

| CHANNEL | VALUE | FUNCTION |
|---------|---------|---------------|
| 1 | 0 ⇔ 255 | MASTER DIMMER |
| 2 | 0 ⇔ 255 | RED |
| 3 | 0 ⇔ 255 | GREEN |
| 4 | 0 ⇔ 255 | BLUE |

ARC FULL

| CHANNEL | VALUE | FUNCTION |
|---------|-----------|---------------|
| 1 | 0 ⇔ 255 | MASTER DIMMER |
| 2 | 0 <⇒> 255 | RED |
| 3 | 0 <⇒ 255 | GREEN |
| 4 | 0 ⇔ 255 | BLUE |

| CHANNEL | VALUE | FUNCTION |
|---------|------------|-------------------------------|
| | | COLOR MACRO |
| | 0 ⇔ 10 | NO FUNCTION |
| | 11 ⇔ 35 | RED 100%/GREEN UP/BLUE0% |
| | 36 ⇔60 | RED DOWN/GREEN 100%/BLUE0% |
| | 61 <⇒ 85 | RED 0%/GREEN100%/BLUE UP |
| | 86 ⇔ 110 | RED 0%/GREENDOWN/BLUE 100% |
| | 111 ⇔ 135 | RED UP/GREEN 0%/BLUE 100% |
| | 136 ⇔ 160 | RED 100%/GREEN 0%/BLUE DOWN |
| | 161 <⇒ 185 | RED 100%/GREEN UP/BLUEUP |
| 5 | 186 ⇔210 | RED DOWN/GREEN DOWN/BLUE 100% |
| | 211 ⇐⇒ 215 | WHITE 1: 3200K |
| | 216 ⇔220 | WHITE 2: 3400K |
| | 221 ⇔225 | WHITE 3: 4200K |
| | 226 ⇔230 | WHITE 4: 4900K |
| | 231 ⇔235 | WHITE 5: 5600K |
| | 236 ⇔240 | WHITE 6: 5900K |
| | 241 ⇔245 | WHITE 7: 6500K |
| | 246 ⇔250 | WHITE 8: 7200K |
| | 251 ⇔ 255 | WHITE 9: 8000K |
| _ | 0 <⇒> 5 | STROBE NO FUNCTION |
| 6 | 6 ⇔ 255 | FROM SLOW TOFAST |
| | | DIMMING SPEED |
| | 0 ⇔9 | OFF |
| | 10 ⇐⇒ 69 | SPEED1 (FASTEST) |
| 7 | 70 ⇔ 129 | SPEED2 |
| | 130 ⇔ 189 | SPEED3 |
| | 190 ⇔ 255 | SPEED4 (SLOWEST) |

SOLID

| CHANNEL | VALUE | FUNCTION | |
|---------|---------|---------------------|--|
| 1 | 0 ⇔ 255 | RGB & MASTER DIMMER | |

3.2 BASIC INSTRUCTIONS FOR DMX512 OPERATION (ARC FULL)

MASTER DIMMER

- CH1 controls the intensity of the currently projected color
- . When the slider is at the highest position (255) the intensity of the output is the maximum

RED, GREEN & BLUE COLOR SELECTION

- CH2, CH3 & CH4 control the intensity ratio of each of the RED, GREEN, BLUE LEDs.
- When the slideris at the highest position (255) the intensity of the color is the maximum
- CH2, CH3, CH4 can be combined together to create over 16 million colors

COLOR MACROS

- CH5 selects the required COLOR MACRO
- CH5 has priority over CH2, CH3, CH 4
- CH1 is used to control the intensity of the COLOR MACRO

STROBE

CH 6 controls the strobe of CH1 to CH5

DIMMER SPEED

CH 7 is used to select the kind of dimmers curve required

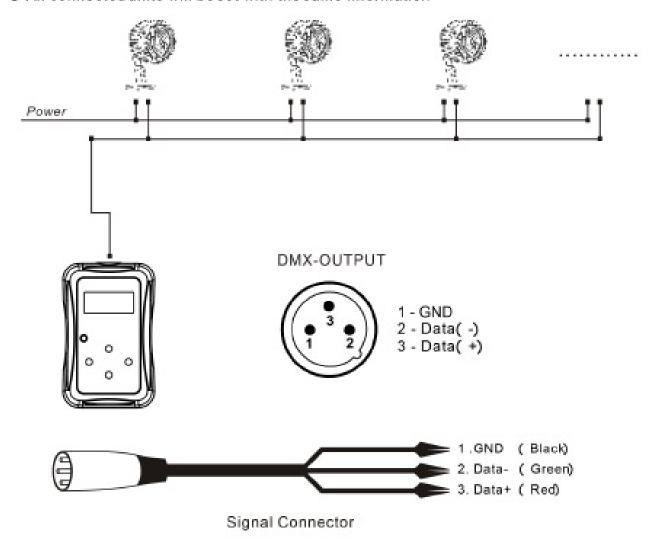
4 USING THE DMX CODER

4.1 TECHNICAL SPECIFICATIONS

| LED MODULE: | <u> </u> |
|-------------|----------------|
| Battery | 2 x 1.5V DC |
| Dimensions | 110 x70 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 Coderwill automatically power off after extended periods of being idle (1 minute)

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)

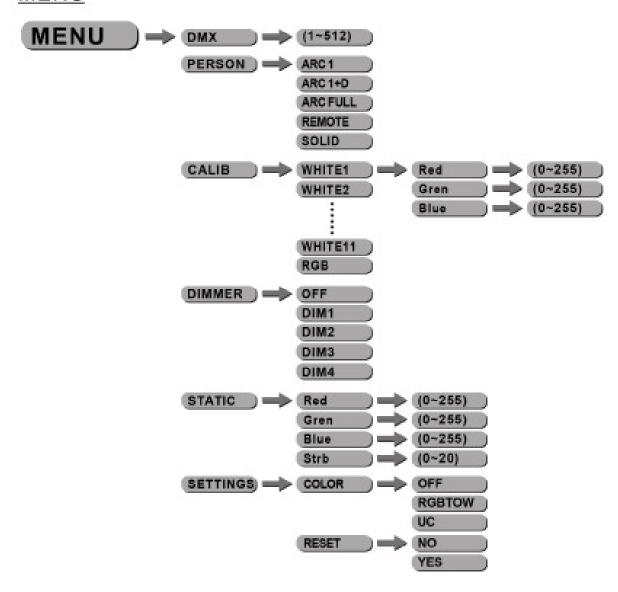
[ENTER] Enter the currently selected menu or confirm the current function value

[DOWN] Scroll 'DOWN' through the menu listor 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



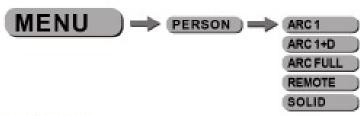
4.5 DMX ADDRESS

MENU → DMX → (1~512)

[DMX]

- Enter the [DMX] mode to set the DMX address, press [Enter]
- · On successful setting, the fixtures will display Green and turn off afterten seconds
- . If an error occurs when setting, the fixtures will display Red or no response

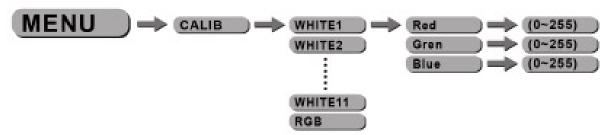
4.6 PERSONALITY



[PERSON]

- Enter [PERSON] and select [ARC 1] / [ARC1+D] / [ARC FULL] / [REMOTE] / [SOLID] mode, press [Enter]
- When selecting [ARC 1] / [ARC1+D] / [ARC FULL] / [SOLID], the fixture is under the DMX work mode.
- When selecting [REMOTE], the fixture is ready to receive signals from the PiX Controller

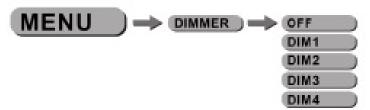
4.7 CALIBRATION



[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], or [Blue] 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] to set the ratio of [Red], [Gren], and [Blue] on DMX channels, achieving different white colors

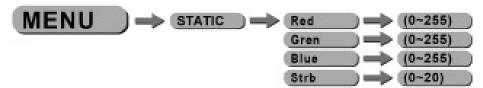
4.8 DIMMER



[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
- These4 dimming modes have different softand smooth dimming effects from fastto slow

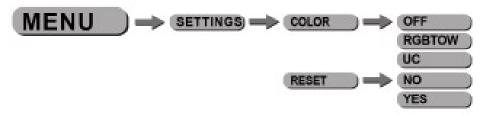
4.9 STATIC



[STATIC]

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

4.10 SETTINGS



[COLOR]

- When [RGB TO W] 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 TO W] 's parameter can be adjusted in [CALIB].
- [UC] Fuction can compatible with the olderversion [RGB] to make colorconsistency.

[RESET]

•Enter the [RESET], pass [YES] to reset all setting to the original factory setting

5 APPENDIX

5.1 TROUBLE SHOOTING

LED MODULE

| SITUATION | CAUSE | ACTION | |
|---|--|--|--|
| Can not receive DMX signal | DMX signal cableerror Signal connection error The input signalIC damaged DMX address error | 1) Check all signal cables 2) Check all signal connections 3) Check the input signal IC 4) Check DMX address | |
| Color mixing uneven, with splash | 1) LED not joining well 2) Lens not installing well | Check LEDS joining Check lens installing | |
| Partial color (partial red,partial green or partial blue) 1) The current of one color LEDs is too strong or too weak 2) LEDs brightness notenough | | Check drive currentof each color in Main PCE Check LED quality | |
| LEDs of the same color are not lit | 1) LED or MainPCB damaged | 1) Replace damaged LEDor Main PCB | |

5.2 MAINTENANCE

