

User Manual



LIGHTMEN

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Apollo
A75050

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-1- INTRODUCTION

Apollo is a compact, high-power, outdoor-rated, cable-free, battery-powered LED uplight with onboard wireless DMX, infrared remote, and manual control via OLED function menu + Six-unit road-worthy custom charging case.

Features

- » 4 x 10W RGBW LED
- » 8 hours continuous battery-powered operation at full output, 20 hours at single color
- » Onboard wireless DMX
- » 3-channel Hue-Saturation-Value and Hue-Saturation-Intensity modes
- » Ultra-linear dimming technology for flawless color mixing
- » Patented structural design delivers superior passive cooling
- » High frequency 1200 Hz LED modulation for flicker-free output
- » Adjustable white balance
- » IP54: Designed for both indoor and outdoor use
- » Patented structural design delivers superior passive cooling
- » Charging station in rugged touring case holds 6 units
- » Password protected key lock
- » Threaded receiver for clamp mounting
- » DMX, Manual, Standalone (Auto Shows), Master/Slave, IR control

Specifications

| | |
|-----------------------|---|
| Light Source: | 4 x 10W RGBW LED |
| Beam Angle: | 11° |
| Field Angle: | 21° |
| Output: | 743 (RGBW) LUX @ 5 meters |
| Color Mixing: | RGBW |
| Strobe: | 0-30 Hz |
| Dimming: | 4 dimming curve modes |
| Control: | W-DMX, Manual, Standalone, Infrared remote |
| DMX Channels: | 4 / 6 / 10 / HSV / HSI |
| Display: | OLED function menu with 4 touch buttons |
| Mains: | 100 - 240 VAC, 50/60 Hz |
| Consumption: | 44W |
| Power connections: | Proprietary |
| Battery: | Lithium Ion |
| Housing: | Diecast Aluminum |
| Finish: | Black |
| IP rating: | IP54 |
| Cooling: | Passive |
| Max. Ambient: | 40°C |
| Min. Ambient: | -20°C |
| Max. Housing: | 58°C |
| Dimensions: | 145 x 138 x 202 mm |
| Weight: | 3.68 KG |
| Charging case dims: | 470 x 555 x 547 mm |
| Charging case weight: | 22.3 kg (empty) ; 44.38 kg (loaded) |
| Charging case power: | Consumption : 350W / Charging output: DC 24V 14.58A Neutrik |
| Power connections: | PowerCon |

1.1 MAINTENANCE

Maintenance and cleaning the unit

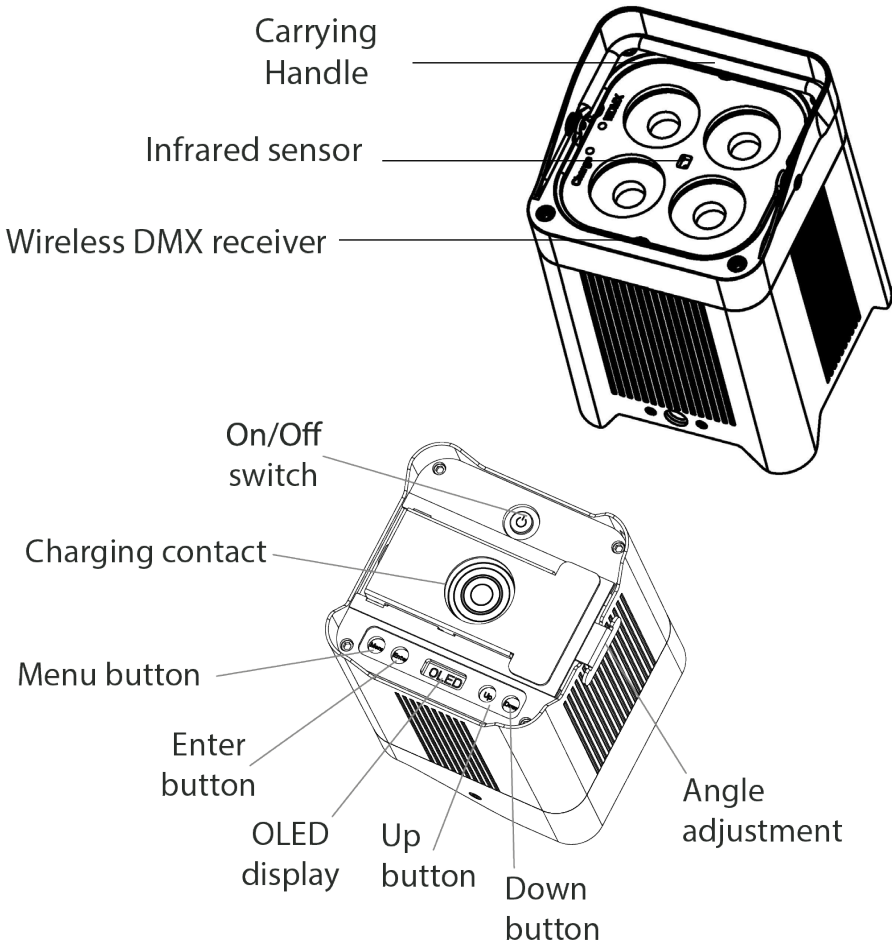
- » Make sure the area below the installation place is free from unwanted persons during setup.
- » Switch of the unit, unplug the main cable and wait until the unit has cooled down.
- » All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- » Housings, fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation.
- » The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- » It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

Troubleshooting

| Problems | Possible causes | Checks and remedies |
|---------------------------------|---|---|
| Fixture does not light up | <ul style="list-style-type: none"> • No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board | <ul style="list-style-type: none"> • Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board |
| General low light intensity | <ul style="list-style-type: none"> • Dirty lens assembly • Misaligned lens assembly | <ul style="list-style-type: none"> • Clean the fixture regularly • Install lens assembly properly |
| Fixture does not power up | <ul style="list-style-type: none"> • No power • Loose or damaged power cord • Faulty internal power supply | <ul style="list-style-type: none"> • Check for power on power outlet • Check power cord • Replace internal power supply |
| Fixture does not respond to DMX | <ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Bouncing signals | <ul style="list-style-type: none"> • Check control panel and unit addressing • Check DMX cables • Install terminator as suggested |

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

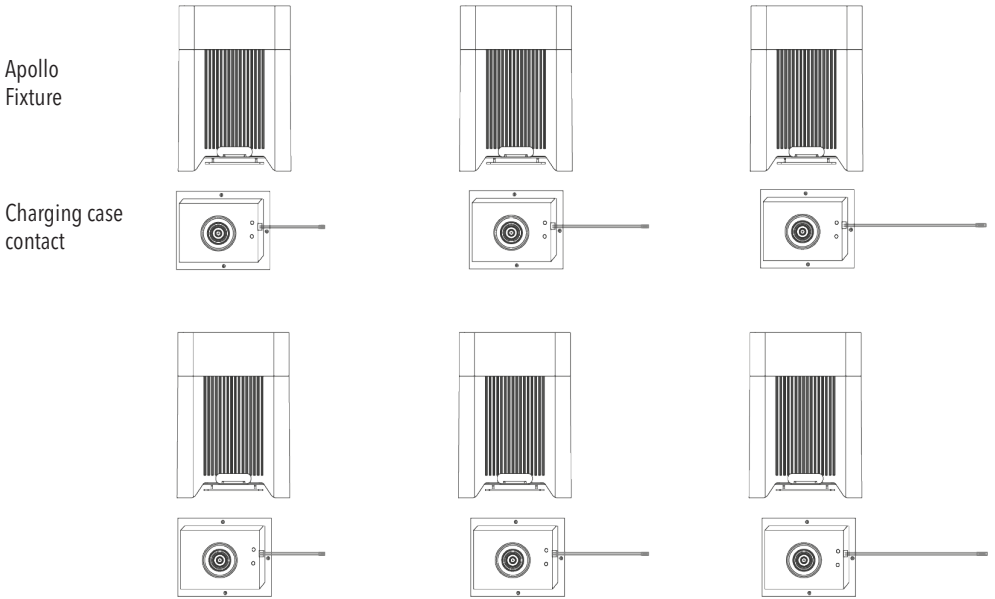
1.2 OPERATING ELEMENTS AND CONNECTIONS



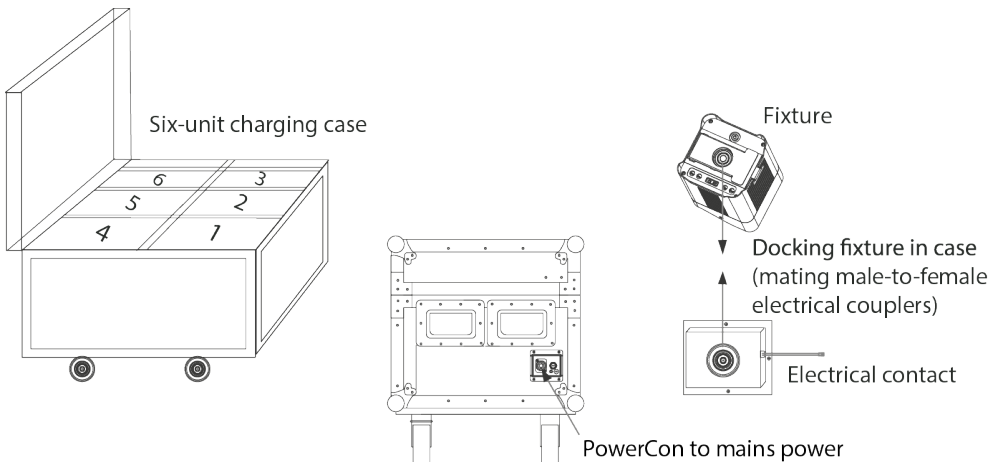
1.3 MENU BUTTON OVERVIEW

| MENU | UP | DOWN | ENTER |
|---|--|--|---|
| Used to access the menu or to return a previous menu option | Navigates downwards through the menu list and increases the numeric value when in a function | Navigates upwards through the menu list and decreases the numeric value when in a function | Used to select and store the current menu or confirm the current function value or option within a menu |

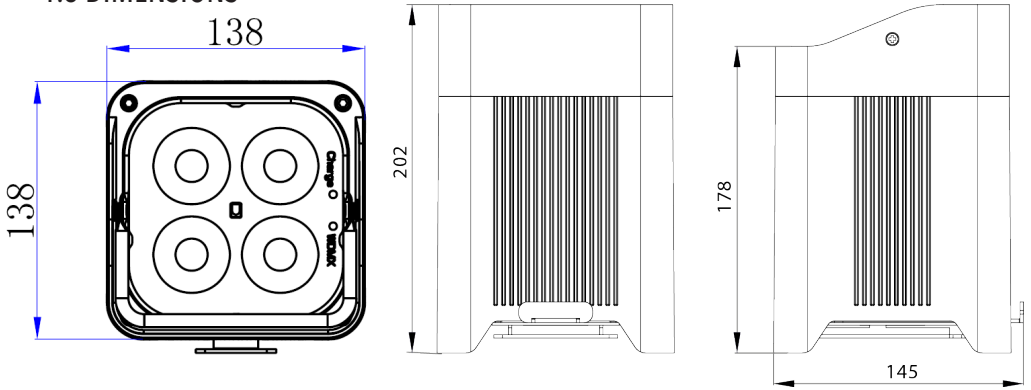
1.4 OPERATING ELEMENTS AND CONNECTIONS (CHARGING CASE)



Flight case with PowerCon power in and six charging stations:

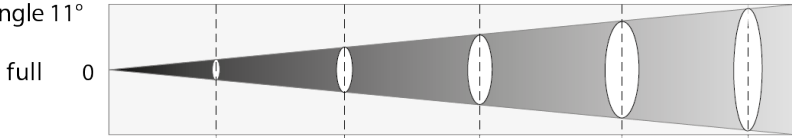


1.5 DIMENSIONS



1.6 PHOTOMETRICS

Beam Angle 11°



| | | | | | | |
|-------------------------|-------|------|-----|-----|-----|--------|
| Projection Distance (m) | 1m | 3m | 5m | 7m | 10m | Lumens |
| Luminance (lux) (RGBW) | 18580 | 2064 | 743 | 379 | 186 | 1162 |

| distance (m) | 1 | 3 | 5 | 7 | 10 | Lumens |
|--------------|-------|------|-----|-----|-----|--------|
| R | 4422 | 491 | 177 | 90 | 44 | 335 |
| G | 9823 | 1091 | 393 | 200 | 98 | 572 |
| B | 1541 | 171 | 62 | 31 | 15 | 113 |
| W | 12188 | 1354 | 488 | 249 | 122 | 705 |
| RGBW (lux) | 18580 | 2064 | 743 | 379 | 186 | 1162 |

-2- FUNCTIONS AND SETTINGS

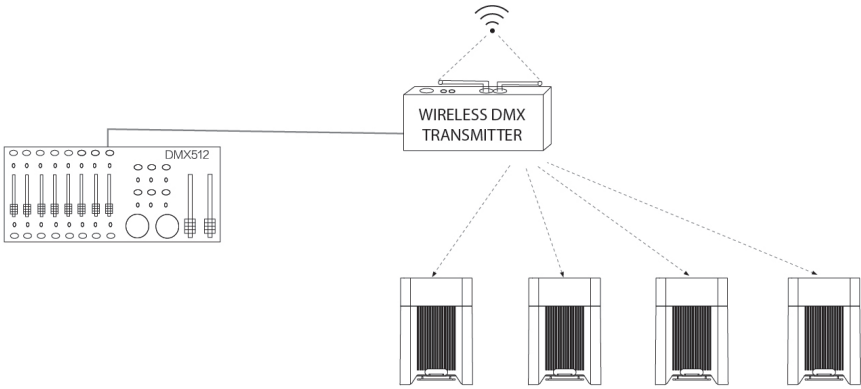
2.1 MENU STRUCTURE

| NO. | Main Menu | Menu level 2 | Menu level 3 | Remark |
|-----|------------------|----------------|--------------|--|
| 1 | Auto Show | <Auto 1> | <100> | Default: Auto 1; Speed:100 |
| | | <Auto 2> | <100> | |
| | | <Auto 3> | <100> | |
| | | <Auto 4> | <100> | |
| | | <Auto 5> | <100> | |
| 2 | Static | <Static> | R | Default: RGBW |
| | | | G | |
| | | | B | |
| | | | W | |
| | | | GB | |
| | | | RB | |
| | | | RG | |
| | | | RGB | |
| | | | RW | |
| | | | GW | |
| | | | BW | |
| | | | RGW | |
| | | | RBW | |
| | | | GBW | |
| | RGBW | | | |
| | <Manual Color> | | <R=255> | Default: 255 |
| | | | <G=255> | |
| | | | <B=255> | |
| | | | <W=255> | |
| | | | | |
| 3 | Dimmer Mode | | <Off> | Default: 0FF |
| | | | <Dimmer 1> | |
| | | | <Dimmer 2> | |
| | | | <Dimmer 3> | |
| 4 | Back Light | | <On> | Default: On |
| | | | <10S> | |
| | | | <20S> | |
| | | | <30S> | |
| 5 | Information | Fixture Hours | <9999H> | |
| | | Version | <V1.0> | |
| 6 | DMX Address | <001> | | Default: 001 |
| 7 | DMX Channel | | <4Ch> | Default: 10CH |
| | | | <6Ch> | |
| | | | <10Ch> | |
| | | | <HSV> | |
| | | | <HSI> | |
| 8 | Master/Slave | | <Master> | Reserved for future use |
| | | | <Slave> | |
| 9 | White Balance | | <R=255> | Default: RGB=255 |
| | | | <G=255> | |
| | | | <B=255> | |
| 10 | Wireless Setting | Receive On/Off | On | Default :Off |
| | | | Off | |
| | | Receive Reset | No | Default :No |
| | | | Yes | |
| 11 | IR Setup | | On | Default :On |
| | | | Off | |
| 12 | Key Lock | | On | Default :On Password: UP DOWN UP DOWN Enter |
| | | | Off | |
| 13 | Factory Reset | | No | Default :No |
| | | | Yes | |

2.2 OPERATING ELEMENTS AND CONNECTIONS (CHARGING CASE)

1. **Auto Show**
Five auto programs to choose from. Auto program #5 includes playback of programs 1-4. Speed can be adjusted 0-100 (slow to fast).
2. **Static**
Select color presets under <static> menu option or use <manual color> option to mix custom colors.
3. **Dimmer Mode**
Four selectable dimmer curves: <OFF>, <Dimmer1> (fast), <Dimmer2> (medium), <Dimmer3> (slow).
4. **Back light**
Set delay time for menu display to go dark at either 10, 20 or 30 seconds or choose always ON.
5. **Information**
Fixture software version and runtime clock.
6. **DMX Address**
Set DMX starting address at a value between 001-512.
7. **DMX Channel**
Select DMX mode: 3-channel HSV or HSI, or 4-, 6- or 10-channel operation.
8. **Master/Slave**
Reserved for future use.
9. **White Balance**
Adjust RGB levels to achieve desired white light.
10. **Wireless setting**
Turn wireless DMX receiver on/off or reset.
11. **IR SETUP**
Turn IR sensor on/off to enable/disable infrared remote control.
12. **KEY LOCK**
Password protection option.
13. **FACTORY RESET**
Restore factory settings.

2.3 WIRELESS DMX OPERATION








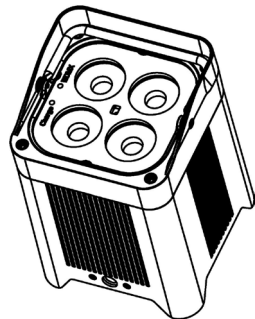
2.4 EXAMPLE OF POSSIBLE DMX CONFIGURATIONS AND ADDRESS SETTINGS:

| MODE | ALLOCATION (1ST FIXTURE) | STARTING ADDRESS (1ST FIXTURE) | STARTING ADDRESS (2ND FIXTURE) | STARTING ADDRESS (3RD FIXTURE) | STARTING ADDRESS (4TH FIXTURE) |
|------|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 4CH | 001-004 | 001 | 005 | 009 | 013 |
| 6CH | 002-007 | 002 | 008 | 014 | 020 |
| 10CH | 023-032 | 023 | 033 | 043 | 053 |

Follow above method for subsequent fixtures, calculating starting addresses as indicated.

2.5 WIRELESS DMX STATUS DISPLAY CODE DESCRIPTIONS

-  Wireless switched off
-  Connected with Transmitter
-  Seconds: Authorization with transmitter
 Continuous: No previous connected transmitter found
-  No wireless connection
 Free to connect with any transmitter
-  Connection lost



2.6 DMX CONTROL

4-Channel mode

| CHANNEL | FUNCTION | VALUES | PERCENT |
|---------|----------|---------|----------|
| 1 | RED | 000-255 | 0 ~ 100% |
| 2 | GREEN | 000-255 | 0 ~ 100% |
| 3 | BLUE | 000-255 | 0 ~ 100% |
| 4 | WHITE | 000-255 | 0 ~ 100% |

6-Channel mode

| CHANNEL | FUNCTION | VALUES | PERCENT |
|---------|----------------|--------------------|-----------------------------|
| 1 | MASTER DIMMING | 000-255 | 0 ~ 100% |
| 2 | RED | 000-255 | 0 ~ 100% |
| 3 | GREEN | 000-255 | 0 ~ 100% |
| 4 | BLUE | 000-255 | 0 ~ 100% |
| 5 | WHITE | 000-255 | 0 ~ 100% |
| 6 | STROBE | 000-010 011-255 | NO FUNCTION SLOW TO FAST |

3-Channel hsv mode

| HSV | FUNCTION | VALUES | DESCRIPTION |
|-----|----------|---------|--------------------|
| 1 | H | 000-255 | Hue |
| 2 | S | 000-255 | Saturation |
| 3 | V | 000-255 | Value (Brightness) |

3-Channel hsi mode

| HSI | FUNCTION | VALUES | DESCRIPTION |
|-----|----------|---------|-------------|
| 1 | H | 000-255 | Hue |
| 2 | S | 000-255 | Saturation |
| 3 | I | 000-255 | Intensity |

2.7 DMX CONTROL : 10-CHANNEL MODE

| CHANNEL | FUNCTION | VALUE | PERCENT / SETTING |
|---------|-------------------------------|---------|---------------------------------------|
| 1 | DIMMER | 000-255 | 0 ~ 100% |
| 2 | RED | 000-255 | 0 ~ 100% |
| 3 | GREEN | 000-255 | 0 ~ 100% |
| 4 | BLUE | 000-255 | 0 ~ 100% |
| 5 | WHITE | 000-255 | 0 ~ 100% |
| 6 | STROBE | 000-010 | NO FUNCTION |
| | | 011-255 | SLOW TO FAST |
| 7 | COLOR PRESETS + WHITE BALANCE | 000-010 | NO FUNCTION |
| | | 011-030 | R 100% G 0-100% B 0 |
| | | 031-050 | R 100%-0 G 100% B 0 |
| | | 051-070 | R 0 G 100% B 0-100% |
| | | 071-090 | R 0 G 100%-0 B 100% |
| | | 091-110 | R 0-100% G 0 B 100% |
| | | 111-130 | R 100% G 0 B 100%-0 |
| | | 131-150 | R 100% G 0-100% B 0-100% |
| | | 151-170 | R 100%-0 G 100%-0 B 100% |
| | | 171-200 | R 100% G 100% B 100% W 100% |
| | | 201-205 | WHITE BALANCE PRESET 1 |
| | | 206-210 | WHITE BALANCE PRESET 2 |
| | | 211-215 | WHITE BALANCE PRESET 3 |
| | | 216-220 | WHITE BALANCE PRESET 4 |
| | | 221-225 | WHITE BALANCE PRESET 5 |
| | | 226-230 | WHITE BALANCE PRESET 6 |
| | | 231-235 | WHITE BALANCE PRESET 7 |
| | | 236-240 | WHITE BALANCE PRESET 8 |
| 241-245 | WHITE BALANCE PRESET 9 | | |
| 246-250 | WHITE BALANCE PRESET 10 | | |
| 251-255 | WHITE BALANCE PRESET 11 | | |
| 8 | AUTO PROGRAMS | 000-051 | NO FUNCTION |
| | | 052-101 | Auto Program 1 |
| | | 102-152 | Auto Program 2 |
| | | 153-203 | Auto Program 3 |
| | | 204-254 | Auto Program 4 |
| | | 255 | Auto Program 5 (Auto Programs 1-4) |
| 9 | SPEED | 000-255 | Auto speed slow to fast |
| 10 | DIMMER CURVES | 000-051 | Preset dimmer speed from display menu |
| | | 052-101 | Dimmer curve OFF |
| | | 102-152 | Dimmer curve 1 (fast) |
| | | 153-203 | Dimmer curve 2 (medium) |
| | | 204-255 | Dimmer curve 3 (slow) |

2.8 WIRELESS DMX OPERATION

Apollo can operate in W-DMX mode up to 300m from the W-DMX transmitter. The W-DMX receiver in the Apollo must be paired with a W-DMX transmitter for wireless operation.

INITIAL SETUP

1. Turn on the W-DMX transmitter
2. Connect the W-DMX transmitter to a DMX controller
3. Position the Apollo fixture within 300m of the W-DMX transmitter
4. Turn on the Apollo fixture

CONFIGURATION

1. On the Apollo control panel, go to DMX ADDRESS
2. Select the starting address
3. On the Apollo control panel, go to WIRELESS SETTING
4. Set <Receive> to ON (the Apollo signal indicator will display a ? above the bars)
5. Press the Reset button on the W-DMX transmitter
(the Apollo signal indicator will change to a symbol above the bars while connection is establish)

PAIRING

Once successfully paired, the Apollo signal indicator will indicate the strength of the signal. At this point, the Apollo is ready to be operated wirelessly by DMX. If the Apollo fixture is subsequently used with a different W-DMX transmitter, follow steps below.

1. On the Apollo control panel, go to WIRELESS SETTING
2. Select <Reset> (the Apollo signal indicator will display a ? above the bars)
3. Press the Reset button on the W-DMX transmitter
4. The Apollo signal indicator will display the strength of the signal once pairing has been successful

2.9 INFRARED IR6 REMOTE CONTROL

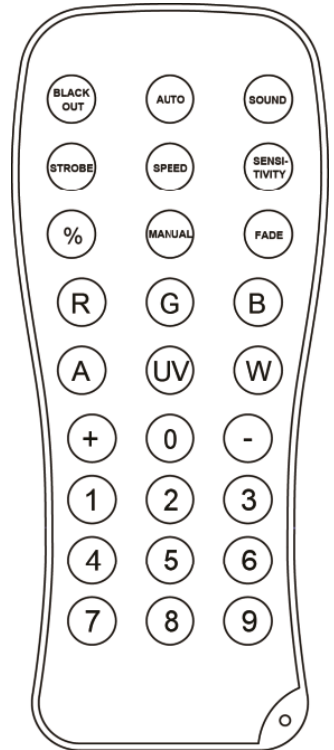
The IR6 infrared controller enables remote control of the Apollo. To pair the IR6 to the Apollo, follow these steps:

1. Press MENU button until IR Setup is displayed
2. Press ENTER
3. Press UP or DOWN to turn infrared operation ON or OFF
4. Press ENTER

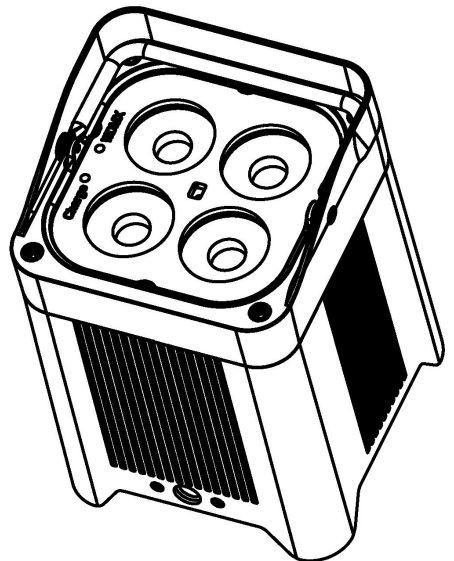
IR6 BUTTON FUNCTIONS

Buttons not listed below are not used with Apollo

| | |
|-----------------|---|
| AUTO | : Run auto programs |
| FADE | : Fade auto programs |
| SPEED | : Enable speed adjustment of auto programs |
| +/- | : Increase / decrease speed of auto programs |
| MANUAL | : Enable manual selection of colors |
| 0-9 | : Press numbers between 0 - 9 to choose colors : Corresponding to white (full output) / red / orange / yellow / green / purple / blue / magenta / pink / amber |
| RGBW | : Press MANUAL, then Press R, G, B, or W buttons |
| +/- | : Increase / decrease output of each color using +/- buttons |
| % | : Adjusts total output level |
| +/- | : Increase / decrease output level |
| STROBE | : Enable adjustment of strobe rate |
| +/- | : Increase / decrease strobe rate |
| STROBE | : Press again to turn off strobe |
| BLACKOUT | : Turn off all output |
| BLACKOUT | : Press again to exit blackout mode |
| STROBE | : If IR6 remote is not responding, press BLACKOUT to confirm that blackout mode was not mistakenly activated |



NOTES:



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