FLAT PAR TW12
User Guide

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DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check www.adj.com for the latest revision/update of this manual

Date	Document Version	Software Version	DMX Channels	Notes
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CONTENTS

GENERAL

INTRODUCTION

This fixture has been designed to perform reliably for years when the information in this manual are followed. Please read and understand all the instructions and guidelines carefully and thoroughly before operating this unit. This manual contains important information regarding safety, installation, use, and maintenance.

UNPACKING

Each fixture has been thoroughly tested and shipped in perfect operating condition. Carefully check the outer shipping carton for signs of any damage that may have occurred during shipping. If the outer carton appears to be damaged, carefully inspect the fixture for damage and be sure all included accessories have arrived intact. In the event damage has been found and/or parts are missing, please contact our customer support team for further instructions. Please do NOT return this fixture to your dealer without first contacting customer support at the number listed below. Please do NOT discard the outer shipping carton in the trash. Please recycle whenever possible.

CUSTOMER SUPPORT: Contact ADJ Service for any product related service and support needs. Also visit forums.adj.com with questions, comments or suggestions.

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
Voice: 800-322-6337 l Fax: 323-582-2941 l support@adj.com

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REPLACEMENT PARTS please visit parts.adj.com

WARRANTY RETURNS

All returned service items, whether under warranty or not, must be freight pre-paid and accompanied by a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without an R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain an R.A. number by contacting customer support.

LIMITED WARRANTY (USA ONLY)

A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty periods below). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service you must obtain a Return Authorization number (RA#) before sending back the product–please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic checkup. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.

E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product. This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

LIMITED WARRANTY PERIODS

- **Non-LED Lighting Products = 1-Year (365 Days)** (Including Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands, Power/Data Distribution, etc. excluding LED and lamps)
- **Laser Products = 1-Year (365 Days)** (excluding laser diodes which have a 6-Month Limited Warranty)
- **LED Products = 2-Year (730 Days)** (excluding batteries which have a 180 Day Limited Warranty)
  PLEASE NOTE: 2-Year (730 Days) Limited Warranty ONLY applies to product purchased within the USA.
- **StarTec Series = 1-Year (365 Days)** (excluding batteries which have a 180 Day Limited Warranty)
- **ADJ DMX Controllers = 2 Year (730 Days)**
- **American Audio Products = 1 Year (365 Days)**

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. ADJ is not responsible for injury and/ or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging parts (omega brackets) included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.

PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.

DO NOT PLUG FIXTURE INTO A DIMMER PACK!
NEVER OPEN THIS FIXTURE WHILE IN USE!
DISCONNECT FIXTURE FROM POWER BEFORE SERVICING!
NEVER TOUCH THE FIXTURE DURING OPERATION, AS IT MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM THE FIXTURE!

NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

MAXIMUM EXTERNAL SURFACE TEMPERATURE: 185° F (85° C)
MAXIMUM AMBIENT TEMPERATURE: 104° F (40° C)

SAFETY GUIDELINES

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Do not spill water or other liquids into or on to your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate with the cover removed.
- Never plug this unit into a dimmer pack.
- Always mount this unit in an area that will allow proper ventilation. Allow approximately 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit if it has been damaged.
- This unit is intended for indoor use only. Use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in a safe and stable manner.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point at which they exit from the unit.
- Cleaning - The fixture should be cleaned only as recommended by the manufacturer. See the Cleaning section of this manual for cleaning details.
- Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
  A. The power-supply cord or the plug has been damaged.
  B. Objects have fallen onto, or liquid has been spilled into, the appliance.
  C. The appliance has been exposed to rain or water.
  D. The appliance does not appear to operate normally or exhibits a marked change in performance.

MAINTENANCE GUIDELINES

⚠ **DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!**

MAINTENANCE

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

Please refer to the following points during routine inspections:
- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

CLEANING

Due to fog residue, smoke, and dust, cleaning of the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface regularly with a soft cloth to avoid dirt/debris accumulation.
NEVER use alcohol, solvents, or ammonia-based cleaners.

FUSE REPLACEMENT

Disconnect the unit from its power source. Remove the power cord from the unit. Once the cord has been removed, locate the fuse holder inside the power socket. Insert a flat-head screw driver into the power socket and gently pry out the fuse holder. Remove the bad fuse and replace with a new one. Note that the fuse holder also contains a holder for a spare fuse.

TROUBLESHOOTING

The following items are common problems the user may encounter.

Unit not responding to DMX:
Check that the DMX cables are connected and wired correctly (pin 3 is 'hot'; on some other DMX devices pin 2 may be 'hot'). Also, check that all cables are connected to the right connectors. The way in which the cables are connected can affect how the device operates.

Unit does not respond to sound:
1. Quiet or high pitched sounds will not activate the unit.
2. Make sure that Sound Active mode is activated.

OVERVIEW

TOP VIEW

DMX OUT

POWER OUT
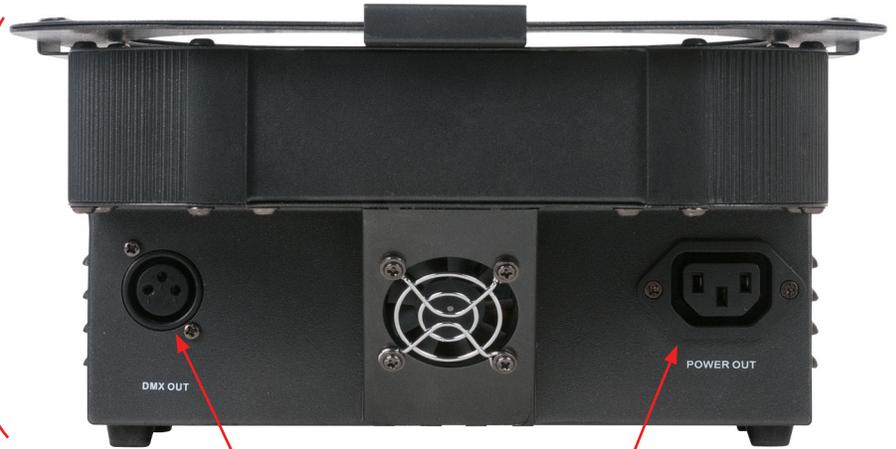
Gel Holder

3-Pin DMX Out

Power Cable Out

Mounting Bracket / Stand
Positional Knob

Mounting Bracket / Stand

BOTTOM VIEW

POWER IN:
AC 100V-240V
50HZ/60HZ
FUSE:1A 250V

DMX IN

Fuse: 1A 250V

Power Cable In

3-Pin DMX In

INSTALLATION INSTRUCTIONS

⚠️ **DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!**

Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.
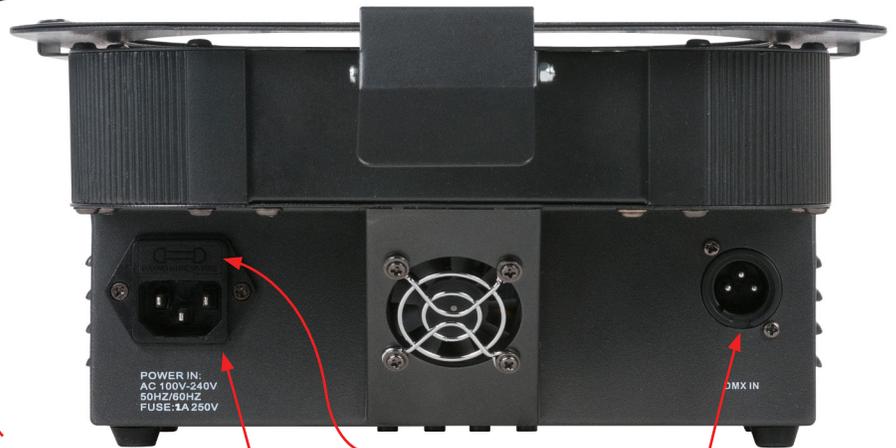
Before rigging/mounting a single fixture or multiple interconnected fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.

Maximum ambient operating temperature is **104°F. (40°C)**

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand.

NEVER stand directly below the fixture(s) when rigging, removing or servicing.

OVERHEAD RIGGING

Overhead rigging requires extensive experience, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture, among other skills. If you lack these qualifications, DO NOT attempt the installation yourself. Improper installation can result in bodily injury and property damage.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable that can hold 10 times the weight of the fixture. Before servicing, allow approximately 15 minutes for the fixture to cool down before serving.

POWERING MULTIPLE UNITS

When installing, you can use the IEC input and output sockets to connect a maximum of 25 fixtures. The fixtures must be of the same make and model. **DO NOT** mix fixtures.

⚠️ **WHEN INSTALLING THE FIXTURE IN A SUSPENDED ENVIRONMENT, ALWAYS ATTACH AN INDEPENDENT SAFETY CABLE BETWEEN THE TRUSS/STRUCTURE AND THE FIXTURE IN ORDER TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS!**

⚠️ **NEVER DAISY CHAIN MULTIPLE SAFETY CABLES TOGETHER BETWEEN MULTIPLE FIXTURES! EACH FIXTURE MUST HAVE ITS OWN, INDEPENDENT SAFETY CABLE!**

DMX SETUP

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX Operation): The FLAT PAR TW12 can be controlled via DMX-512 protocol. Your unit and your DMX controller requires a 5-pin XLR connector for data input/output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

Notice: Be sure to follow figure and table below when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

DMX512 OUT 3-PIN XLR

COMMON
DMX +
DMX -
NOT USED
NOT USED

DMX512 IN 5-PIN XLR
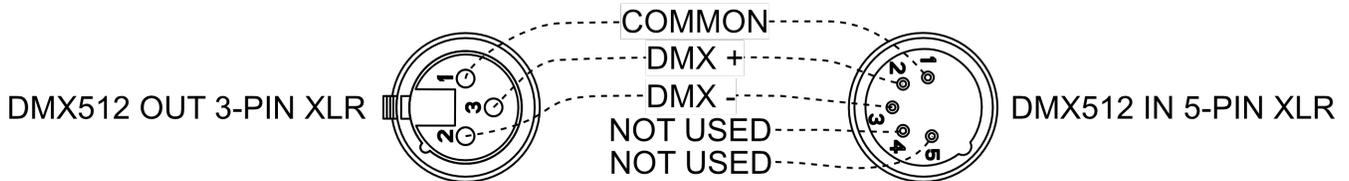
3-Pin XLR to 5-Pin XLR Conversion		
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use
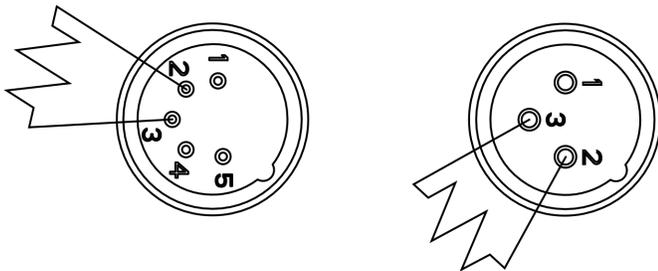
A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.

SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel located on the front of the fixture, provides access to the main system menu and is where all necessary system adjustments are made to the fixture. During normal operation, pressing **MODE** button once will access the fixture's main menu. Once in the main menu you can navigate through the different functions and access the sub-menus with the **SETUP**, **UP**, and **DOWN** buttons. Once you reach a field that requires adjusting, press the **SETUP** button to activate that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **MODE** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the **MODE** button.

The display will lock after 30 seconds. Press the MENU button for 3 seconds to unlock.

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MODE   SETUP   UP   DOWN

LED Display On/Off:
To set the display press the **MODE** button until "**dXX**" is displayed. "**XX**" represents either "**on**" or "**oFF**" Use the **UP** or **DOWN** buttons to select either:
- "don" = LED display on at all times.
- "doFF" = LED display shuts off after 10 seconds.

LED Display Inversion:
Follow these instructions to flip the display 180°.
1. Plug the fixture in and press the **MODE** button until "**dXX**" is displayed. "**XX**" represents either "**on**" or "**oFF**".
2. Press the **SETUP** button until "**Stnd**" is displayed.
3. Press the **UP** or **DOWN** buttons to reverse the display 180°.

Operating Modes:
The Flat Par TW12 has five operating modes:
- **Sound-Active mode** - The unit will react to sound, chasing through the built in programs.
- **Static Color Mode** - There are 32 colors to choose from.
- **Auto Run Mode** - There are 3 Auto Modes to choose from.
- **WW/CW/A Dimmer Mode** - Choose one of the three colors to remain static, or adjust the intensity of each color to create a custom color.
- **DMX control mode** - This function will allow you to control individual DMX traits with a standard DMX 512 controller.

SYSTEM MENU

DMX Mode:

Operating through a DMX controller gives the user the freedom to create custom programs tailored to his or her individual needs. The Flat Par TW12 has 6 DMX modes: 2 Channel mode, 3 Channel mode, 4 Channel mode, 5 Channel mode, 8 Channel mode, and 9 Channel mode.

1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. To run your fixture in DMX mode, press the MODE button until "**d.XXX**" is displayed. "**XXX**" represents the address that is currently in use. Use the UP or DOWN buttons to select your desired DMX address, then press the **SETUP** button to select your DMX Channel mode.
3. Use the **UP** and **DOWN** buttons to scroll through the available DMX Channel Mode options. See the **Channel Mode** sections of this manual for detailed descriptions of DMX traits in each DMX channel mode.
4. After you have chosen your desired DMX Channel mode, link your device to any standard DMX controller using the XLR connections on your device and your controller.

WW/CW/A Dimmer Mode:

1. Plug the fixture in and press the **MODE** button until one of the following is displayed:
*   "**H.XXX**" for Warm White dimming mode.
*   "**C.XXX**" for Cool White dimming mode.
*   "**A.XXX**" for Amber dimming mode.
2. Press the **UP** and **DOWN** buttons to adjust intensity.
3. After you have adjusted the colors to the desired levels, you can then activate strobing by pressing the **SETUP** button.
4. "**S.XXX**" will be displayed, indicating that the device is in strobing mode. The strobing can be adjusted between "**S.000**" (strobe off) to "**S.015**" (fastest strobe).

Sound Active Mode:

In this mode the Flat Par TW12 will react to sound, and chase through the different colors.

1. Plug the fixture in and press the MODE button until "So-X" is displayed. "X" represents the sound active mode (1-8) that is currently in use.
2. The fixture will now change via sound.
3. To adjust the sound sensitivity, press the SET UP button. "SJ-X" will be displayed. Use the UP or DOWN buttons to adjust the sensitivity. "SJ-1" is the least sensitive, and "SJ-8" is the most sensitive.

Auto Run Mode:

1. There are 3 Auto Run Modes to choose from: Color Fade, Color Change, and both modes running together. The running speed is adjustable in all 3 modes.
2. Plug the fixture in and press the MODE button until either "**AF-X**", "**AJ-X**", or "**A-JF**" is displayed.
*   **AF-X** = Color Fade mode, with 8 Color Fade modes to choose from. Use the **UP** or **DOWN** buttons to scroll through the different Auto Fade modes.
*   **AJ-X** = Color Change mode, with 8 Color Change modes to choose from. Use the **UP** or **DOWN** buttons to scroll through the different Auto Change modes.
*   **A-JF** = Both Color Fade and Color Change modes running.
3. After you have chosen your desired running mode, press the **SETUP** button until "**SP.XX**" is displayed. When this is displayed you can adjust the running speed of your desired program. Use the **UP** or **DOWN** button to adjust the speed between "**SP.01**" (slowest) and "**SP.16**" (fastest).
4. Once you have set your desired running speed, press the **SETUP** button to return to your desired

SYSTEM MENU

Static Color Mode:
1. Plug the fixture in and press the **MODE** button until "**CLXX**" is displayed.
2. There are 32 colors to choose from. Select your desired color by pressing the **UP** and **DOWN** buttons. After you have selected your desired color you can activate strobing by pressing the **SETUP** button to enter the strobe mode.
3. "**S.XXX**" will be displayed, indicating that the device is in strobing mode. The strobing can be adjusted between "**S.000**" (strobe off) and "**S.015**" (fastest strobe).

Default Running Mode:
This is a default running mode. When this mode is activated, all modes will return to their default settings.
1. Plug the fixture in and press the **MODE** button until "**dXX**" is displayed. "**XX**" represents either "**on**" or "**oFF**".
2. Press the **SETUP** button until "**dEFA**" is displayed.
3. Press the **UP** and **DOWN** buttons simultaneously. Press the **MODE** button to exit.

ADJ LED RC3:
This function is used to activate or deactivate the ADJ LED RC3 (Remote Control). When this function is activated, the fixture can be controlled using the ADJ LED RC3. Please see the ADJ LED RC3 Operation section of this manual for ADJ LED RC3 controls and functions.
1. Press the **MODE** button until "**dXX**" is displayed. "**XX**" represents either "**on**" or "**oFF**".
2. Press the **SETUP** button until "**lrXX**" is displayed. "**XX**" represents either "**on**" or "**oF**".
3. Press the **UP** or **DOWN** buttons to either activate the remote function (**On**) or deactivate it (**Off**).

DMX State:
This setting defines the behavior of the fixture in the event that the DMX signal is lost or interrupted. It also determines the mode that the fixture will default to when it is powered on.
1. Press the **MODE** button until the DMX address is displayed.
2. Press the **SETUP** button until "**No-X**" is displayed. "**X**" represents a number between 0-2.
3. Use the **UP** or **DOWN** buttons to select the operating mode you would like the unit to start up in when power is applied or the DMX signal is lost.
• "**N0-0**" (BLACKOUT) - If the DMX signal is lost or power is applied, the unit will automatically go into stand by mode.
• "**N0-1**" (HOLD) - If the DMX signal is lost, the fixture will stay in the last DMX set up. If power is applied and this mode is set, the unit will automatically go into the last DMX set up.
• "**N0-2**" (FADE PROGRAM) - If the DMX signal is lost or power is applied, the unit will automatically run the fade program.

Dimmer Curve:
This is used to set the dimmer curve used with DMX mode. See the Dimmer Curve Chart section of this manual for more information.
1. Plug the fixture in and press the **MODE** button until the DMX address is displayed.
2. Press the ENTER button until "**dr-X**" is displayed. "**X**" represents the current dimming mode.
3. Use the **UP** and **DOWN** buttons to find your desired dimmer curve. Press **SETUP** when you are finished.
• **dr-0** - **Standard**
• **dr-1** - **Stage**
• **dr-2** - **TV**
• **dr-3** - **Architectural**
• **dr-4** - **Theater**

SYSTEM MENU

Primary-Secondary Operation:

This function will allow you to link units together, with one unit acting as the controlling unit and the others reacting to the behavior of the controlling unit. Any unit can act as a Primary or as a Secondary, but only one unit in a given system can be programmed to act as the Primary.

1. Using approved DMX data cables, daisy chain your units via the XLR connectors on the rear of the units. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (primary) will use the female XLR connector only, while the last unit in the chain will use the male XLR connector only. For longer cable runs, it is strongly recommended to use a terminator on the last fixture.
2. Set the Primary unit to the desired mode of operation.
3. For the Secondary unit(s), press the **MODE** button until "**SECd**" is displayed. The Secondary unit(s) will now follow the Primary.

ADJ LED RC3 INFRARED REMOTE

The **ADJ LED RC3 Infrared Remote** (sold separately) gives you complete control of your fixture. For best results, the controller must be aimed at the front of the fixture and be within the maximum operating range of 30 feet. To use the ADJ LED RC3, you must first activate the fixture's infrared receiver, as shown in the **System Menu** section of this manual.

BLACKOUT - Pressing this button will blackout the fixture.

AUTO RUN - Pressing this button will cycle through the auto run mode, color fade mode, and color change. You can control the speed of the 3 modes by pressing the SPEED button first, then pressing the "+" and "-" buttons. In color fade and color change mode, press the "+" and "-" buttons to scroll through the 8 modes.

PROGRAM SELECTION - Pressing this button activates static color mode. Use the "+" or "-" to scroll through the 32 colors. Press Flash to activate/deactivate strobing. Use the "+" and "-" buttons to adjust the strobe speed.

DMX MODE - Press this button to cycle between DMX Channel mode selection, DMX addressing, DMX State, and dimming curve selection. Each press of this button will change to the next mode.
*   In DMX State mode, press the the "**+**" and "**-**" buttons to scroll through the DMX state modes. See the **System Menu** section of this manual for detailed information.
*   In DMX address mode, press the the "**+**" and "**-**" buttons to adjust the DMX address.
*   In dimmer curve mode, press the the "**+**" and "**-**" buttons to scroll through the dimmer curves. See the **System Menu** section of this manual for detailed information.
*   In DMX Channel selection, press the the "**+**" and "**-**" buttons to scroll through the different DMX Channel modes. See the Operating Instructions section of this manual for detailed information. The fixture's LEDs will glow in different colors to signify the selected DMX Channel Mode, as described in the table below:

LED COLOR	DMX CHANNEL MODE
Warm White	2 Channel Mode
Cool White	3 Channel Mode
Amber	4 Channel Mode
Warm White & Cool White	5 Channel Mode
Warm White & Amber	8 Channel Mode
Wool White & Amber	9 Channel Mode

SOUND ACTIVE - This button activates sound active mode. Use the "**+**" and "**-**" buttons to scroll through the 8 sound active modes. Press the Speed button and use the "**+**" and "**-**" buttons to adjust the sound sensitivity level.

SECd - This designates the fixture as a secondary fixture in a primary/secondary configuration.

SET ADDRESS - Press this button to set the DMX address. Press this button first, then use the number keypad to set the address.
Note: When setting the DMX address, an LED color will glow each time a key is pressed. When you have set the DMX address correctly, all LED's will flash 2-3 times.
Example: To Set DMX Address 1, Press "S-0-0-1" To Set DMX Address 245, Press "S-2-4-5".

WW CW A - Press either one of these buttons and the press the "**+**" or "**-**" to adjust the output intensity. Press Flash to activate/deactivate strobing. Use the "**+**" and "**-**" buttons to adjust the strobe speed.

PHOTOMETRIC CHART

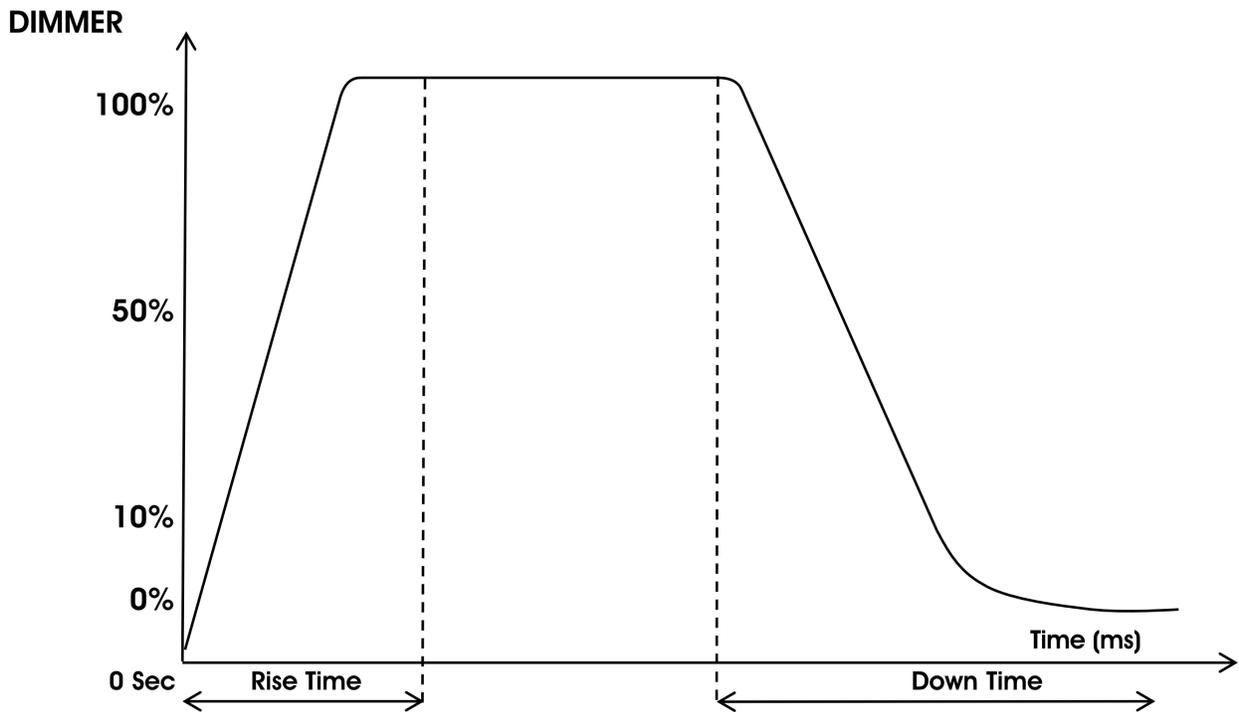|							
WW	D40	2530	600	216	137.6	88.5	
CW	D40	3220	796	350	196	128	lux
Amber	D40	2020	507	218	123	79	
WW/CW/A	D40	6760	1650	733	393	253	

DIMMING CURVE
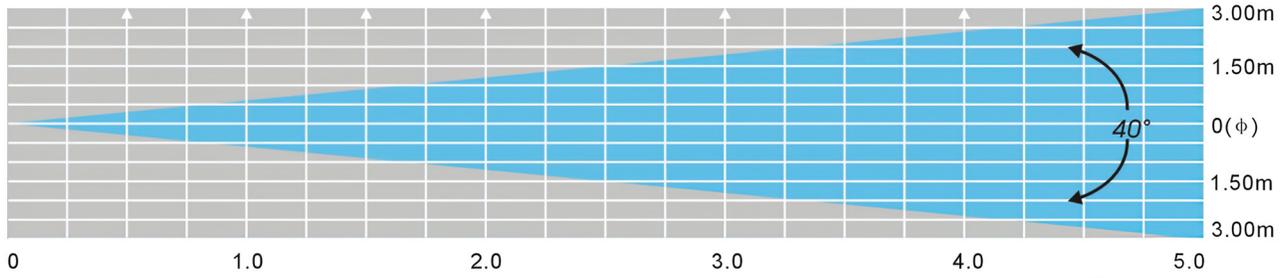
	0 sec Fade Time		1 sec Fade Time	
Dimming Curve Ramp Effect	0 → 255		0 → 255	
	Rise Time (ms)	**Down Time (ms)**	**Rise Time (ms)**	**Down Time (ms)**
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660

DMX CHANNEL FUNCTIONS AND VALUES

CHANNEL						DMX VALUE	FUNCTION
2CH	3CH	4ACH	5CH	8CH	9CH		
	1	1	1	1	1	000 - 255	**Warm White** 0-100%
	2	2	2	2	2	000 - 255	**Cool White** 0-100%
	3	3	3	3	3	000 - 255	**Amber** 0-100%
2		4	4	4	4	000 - 255	**Master Dimmer** 0-100%
							Strobing
						000 - 031	LED Off
						032 - 063	LED On
						064 - 095	Strobing Slow - Fast
			5	5	5	096 - 127	LED On
						128 - 159	Strobe Pulse Slow - Fast
						160 - 191	LED On
						192 - 223	Random Strobe Slow - Fast
						224 - 255	LED On
1				6	6	000 - 255	**Color Macros** (See Color Macro Chart)
							Programs
						000-127	Off
						128-135	Color Fade 1
						136-143	Color Fade 2
						144-151	Color Fade 3
						152-159	Color Fade 4
						160-167	Color Fade 5
						168-175	Color Fade 6
						176-183	Color Fade 7
						184-191	Color Fade 8
				7	7	192-199	Color Change 1
						200-207	Color Change 2
						208-215	Color Change 3
						216-223	Color Change 4
						224-231	Color Change 5
						232-239	Color Change 6
						240-247	Sound Active Mode 1
						248-255	Sound Active Mode 2
							Program Speed//Sound Sensitive
				8	8	000-255	Program Speed Slow - Fast
						000-255	Sound Sensitivity Min - Max
							Dimming Modes
						000 - 020	Standard
						021 - 040	Stage
					9	041 - 060	TV
						061 - 080	Architectural
						081 - 100	Theater
						121 - 255	Default to Unit Curve Setting

- When channel 6 is being used, channels 1-3 cannot be used.
- When channel 7 is between the values of 128-239, channel 8 will control the program speed.
- When channel 7 is between the values of 240-255, channel 8 will control the sound sensitivity.

COLOR MACRO CHART

| Color	DMX Value	COLOR INTENSITY			Color	DMX Value	COLOR INTENSITY		
		WW	CW	A			WW	CW	A
Color 1(off)	0	0	0	0	Color 18	128-135	1	134	201
Color 2	1-7	255	206	143	Color 19	136-143	0	145	212
Color 3	8-15	254	177	153	Color 20	144-151	0	121	192
Color 4	16-23	254	192	138	Color 21	152-159	0	129	184
Color 5	24-31	254	165	98	Color 22	160-167	0	83	115
Color 6	32-39	254	121	0	Color 23	168-175	0	97	166
Color 7	40-47	176	17	0	Color 24	176-183	1	100	167
Color 8	48-55	96	0	11	Color 25	184-191	0	40	86
Color 9	56-63	234	139	171	Color 26	192-199	209	219	182
Color 10	64-71	254	5	97	Color 27	200-207	42	165	85
Color 11	72-79	175	77	173	Color 28	208-215	0	46	35
Color 12	80-87	119	130	199	Color 29	216-223	8	107	222
Color 13	88-95	147	164	212	Color 30	224-231	107	156	231
Color 14	96-103	88	2	163	Color 31	232-239	65	198	247
Color 15	104-111	0	38	86	Color 32	240-247	0	0	189
Color 16	112-119	0	142	208	Color 33	248-255	165	35	1
Color 17	120-127	52	148	209					

SPECIFICATIONS

- 60W Dynamic White LED Flat Par

- 12x 5-Watt TRI LED 3-IN-1 CW/WW/A (Cool White/Warm White/Amber - 50,000 hrs.)

- 6 DMX Modes: 2, 3, 4, 5, 8, & 9 channels

- TRI LEDs Eliminate color shadows when mixing Dynamic White LEDs

- LED pulse and strobe effect

- Electronic Dimming: 0 - 100%

- Beam angle: 40-degree

- Flicker Free

- 4-button, DMX digital display on rear panel

- Optional ADJ LED RC3 wireless remote control (sold separately)

- Dual yoke allows fixture to be hung or set on the ground

- Data linkable via 3-pin XLR cables

- With Wired Digital Communication Network

- Power Draw: 61W total (All LED's @ Full On)

- Color Temperature: >6500°K (Cool White); >2700°K (Warm White)

- Light output: 1650 LUX @ 2M; 393 LUX @ 4M (40-degree beam)

- CRI Values: 70-80 (Cool White & Warm White)

- Power Cable Length: 1.8m (IEC)

- Multi-voltage operation: AC 100-240V, 50/60Hz (IEC power In/Out)

- Dimensions (LxWxH): 13" x 11" x 4.25"/328 x 280 x 105mm

- Weight: 7.5 lbs. / 3.25 kg.

- ETL Approved

Specifications and improvements in the design of this unit and this manual are subject to change without notice.

DIMENSION DRAWINGS

Dimensions not to scale

10.35" (263mm)

9.6" (245mm)

10.7" (271.55mm)

9.6" (245mm)

5.2" (132.34mm)

8.05" (204.5mm)

7.83" (198.82mm)
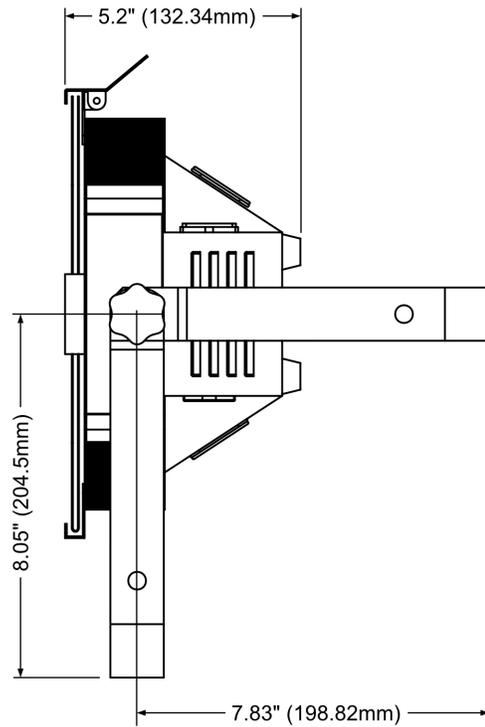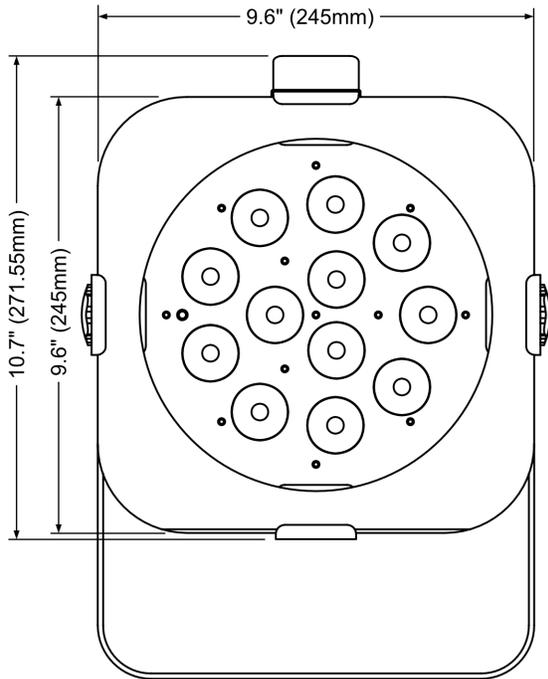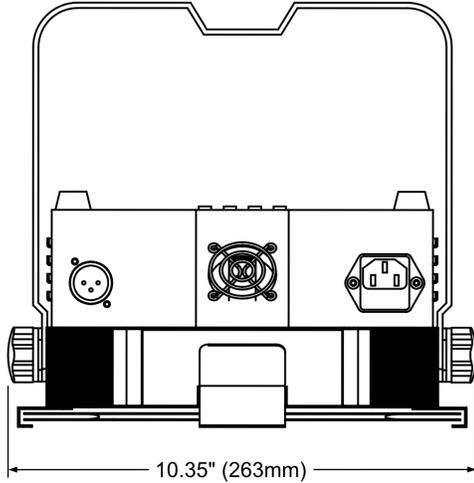
FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be deter- mined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:
- Reorient or relocate the device.
- •ncrease the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!