

PLATINUM WASH ZFX PRO™

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1. GENERAL INFORMATION

INTRODUCTION: Congratulations, you have just purchased one of the most innovative and reliable lighting fixtures on the market today! The Platinum Wash Zfx Pro,™ has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

UNPACKING: Thank you for purchasing the Platinum Wash Zfx Pro™ by Elation Professional®. Every Platinum Wash Zfx Pro™ has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this unit to your dealer without first contacting customer support at the number listed below.

CUSTOMER SUPPORT: Elation Professional® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. For service related issue please contact Elation Professional®. Service Hours are Monday through Friday 8:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (323) 582-3322

Fax: (323) 832-9142

E-mail: support@elationlighting.com

Forum: www.ElationLighting.com/forum

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty.

Please do not discard the shipping carton in the trash. Please recycle whenever possible.

WARRANTY REGISTRATION: The Platinum Wash Zfx Pro™ carries a two year (730 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany 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 a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support at (323) 582-3322.

Epileptic Warning: *Those suffering from epilepsy should avoid looking directly into the light source at all times.*

Never open this fixture while in use!

During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.

This device falls under protection-class 1. Therefore it is essential that the device be grounded properly.

Only qualified personnel should perform all electrical connections.

Be sure the available voltage matches the voltage requirements of the unit.

Be sure the power cord is never crimped or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.

Always disconnect from main power before performing any type of service or any cleaning procedure.

Only handle the power cord by the plug. Never pull out the plug by tugging the wire portion of the cord.

Please be aware that damages caused by modifications to this fixture void the manufactures warranty and are not subject warranty repair.

2. SAFETY INSTRUCTIONS



The Platinum Wash Zfx Pro™ is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

1. Always be sure that the fan and the air inlets remain clean and are never blocked. Allow about 6" (15cm) between this fixture and other devices or a wall to allow for proper cooling.
2. Never touch the fixture during normal operation. This can cause severe personal injuries and/or damage to the fixture.
3. Be sure to unplug the Platinum Wash Zfx Pro™ from the power outlet before performing any service related issues.
4. Never look directly into the light source. You risk injury to your retina, which may induce blindness.
5. For safe operation, follow the Installation guide described in chapter six of this manual. Operating the Platinum Wash Zfx Pro™ without suited safety aids such as safety cables or clamps can increase the risk of damage and/or personal injury.
6. Qualified and certified personnel should only perform installation.
7. When mounting this fixture, use only the original rigging parts included with this fixture. Any structural modification will void the original manufactures warranty and may increase the risk of damage and/or personal injury.
8. To reduce the risk of fire or shock, do not expose this fixture to rain or moisture.
9. Do not attempt to operate this fixture if the power cord has become damaged or frayed.

Important Notice: Damages resulting from the disregard of safety and general user instructions found in this user manual are not subject to any warranty claims.

3. FEATURES

- Pan 630° or 540° (User selectable) / Tilt 265°
- 19 x 10-Watt Light Source
- Three DMX Modes:
 - 20 Channel (Basic)
 - 32 Channel (Standard)
 - 42 Channel (Extended)
- 100,000 hours ***rated*** LED life
- Smooth additive RGBW color mixing, 16.7 million colors
- Flicker-free operation for television and film
- Low power consumption
- 3 operation mode: DMX controlled, stand alone or sound activated
- Strobe effect: 0~18 flashes per second or random strobe
- 0%~100% Dimming
- User Selectable Universal Power Supply (Internal Tap)
- Control board with full LCD character display and foil-keyboard
- Reversible Display Option (180° Flip)
- RDMX (Remote DMX addressing from any DMX console)
- Auto test for all functions
- Automatic Pan/Tilt Correction
- USITT DMX-512 Complaint (3-pin and 5-pin DMX Connections)
- Value of each DMX-channel can be displayed
- Minimal heat emission
- Maintenance free operation
- Preprogrammed colored macros
- Built-in EWDMX Receiver - WDMX Compatible
- Firmware upgradeable via Elation "E-Loader"
- Electronic power supply (100~240V 50/60Hz)
- 7 built-in programs accessed via DMX-controller or manually
- Built-in DMX recorder - Up to 64 scenes

4. GENERAL GUIDELINES

This fixture is a professional lighting effect designed for use on stage, in nightclubs, in theatres, etc. Do not attempt operation or installation without a proper knowledge on how to do so.

This fixture was designed for indoor use only.

Consistent operational breaks may ensure that the fixture will function properly for many years to come.

Do not shake the fixture around. Avoid brute force when installing or operating the device.

While choosing an installation location, please be sure that the fixture will not be exposed to extreme heat, moisture or dust. The minimum distance between the fixture and a wall or flat surface should be at least 0.5 meter (about 1.5ft).

Always install the fixture with an appropriate safety cable. When installing the fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, also be sure the hardware is insert in the pre-arranged screw holes in the base of the fixture.

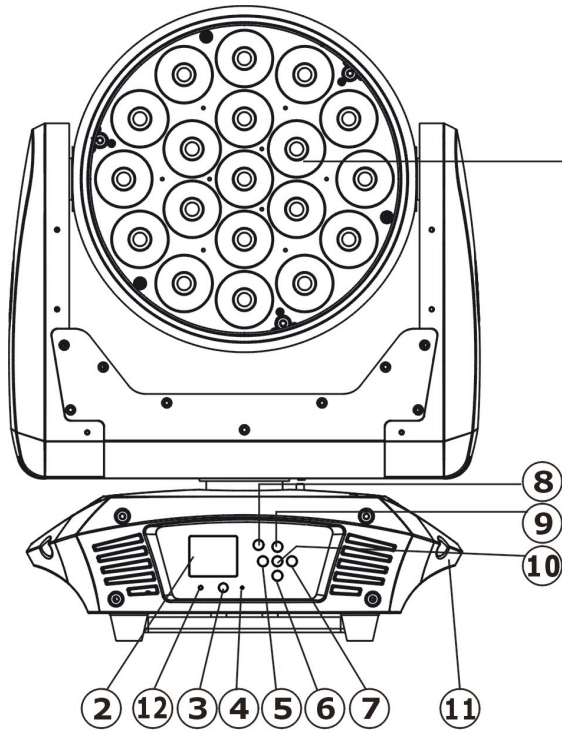
When using the quick release “Omega” cam-lock system, be sure the four quick lock fasteners are locked in the quick lock holes correctly.

Do not attempt to operate this fixture until you have familiarized yourself with its functions.

Do not permit operation by persons not qualified for operating this type of theatrical fixture; most damages are the result of operations by nonprofessionals.

Please use the original packaging to transport the fixture in for service.

5. FIXTURE OVERVIEW



2: Display

3: DC Switch

4: Microphone

5: Left Button

6: Down Button

7: Right Button

8: Mode/Esc Button

9: Up Button

10: Enter Button

11: Handle

12: Wireless indicator

13: Wireless DMX Antenna

14: 3-Pin DMX in

15: 3-Pin DMX out

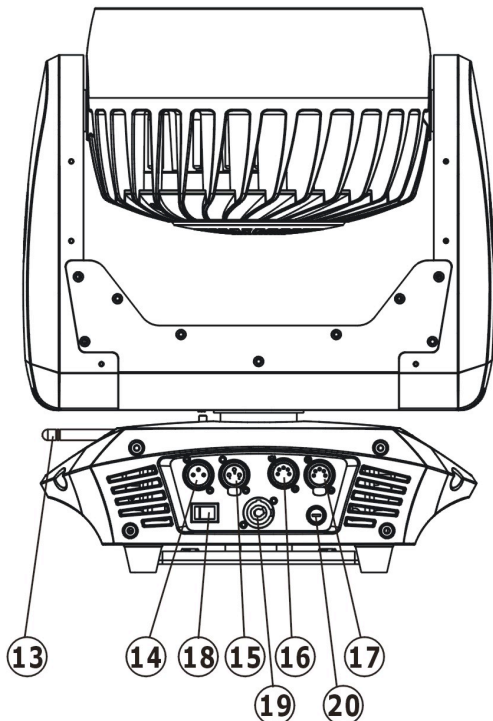
16: 5-Pin DMX in

17: 5-Pin DMX out

18: Power Switch

19: Power Cord

20: Fuse



1. **LED Assembly** – 19 x 10-Watt, RGBW Quad LEDs comprise the LED assembly.
2. **LED Menu Display** – Full color animated menu display.
3. **DC Switch** - Controls menu and display power when the unit is disconnected from main power.
4. **Microphone** – This microphone receives external low frequencies to trigger the unit in Sound-Active mode. This microphone is designed to receive low frequency sounds only, tapping on the microphone and high pitch sounds may not trigger the unit.
5. **Left Button** – This button is used to toggle through the menu display.
6. **Down Button** – The down button is used to toggle down or back through the menu functions and settings.
7. **Right Button** - This button is used to toggle through the menu display.
8. **Mode/Esc Button** - This button is used to access the menu functions and exit the current command.
9. **Up Button** – The up button is used to toggle forward through the menu functions and settings.
10. **Enter Button** – The enter button is used to enter in to a certain menu function or to lock a function into memory.
11. **Carrying Handle** – Please use this intergraded handled to move the fixture form location to location. Never carry the fixture by the head.
12. **Wireless indicator** – This two-color indicator is used to visual the current status of the

wireless DMX mode. Red indicates wireless DMX mode is off, green indicated wireless DMX is active. Flashing red and green indicated wireless mode is active but the unit is not received a wireless signal.

- 13. Wireless Antenna** – This antenna works with the built-in wireless DMX receiver. The built-in wireless DMX system works with any Elation wireless system or any compatible “EWDMX” system.
- 14. 3-PIN DMX Input Jack** – This jack accepts an incoming DMX signal via a male, 3- pin XLR jack.
- 15. 3-Pin DMX Output Jack** – This jack is used to send an incoming DMX signal to the next fixture in the DMX chain via a female, 3-pin XLR jack.
- 16. 5-PIN DMX Input Jack** – This jack accepts an incoming DMX signal via a male, 5-pin XLR jack.
- 17. 5-Pin DMX Output Jack** – This jack is used to send an incoming DMX signal to the next fixture in the DMX chain via a female, 3-pin XLR jack.
- 18. Power Switch** – Controls main power to the unit.
- 19. Power Cord** – Plug into an appropriate power outlet to provide main power to the fixture.
- 20. Fuse Holder Assembly** – This assembly houses the 5amp GMA safety fuse. Always replace the fuse with an exact match unless otherwise specified by an authorized Elation Service Technician. Using a fuse other than that specified could seriously damage the unit and will void your manufactures warranty.

6. MOUNTING AND INSTALLATION


Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.


Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

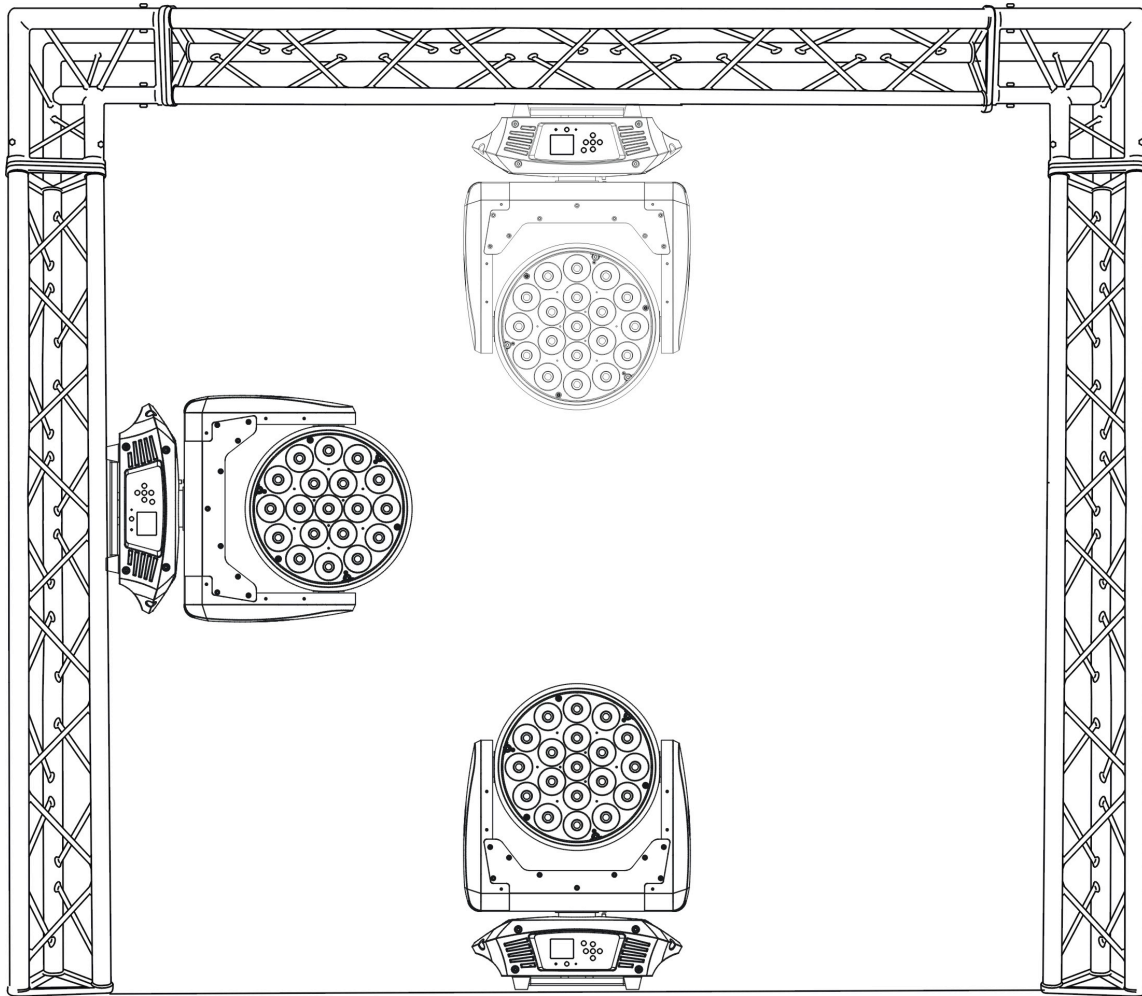
Never stand directly below the device when mounting, removing, or servicing the fixture.

| | |
|---|--|
|  | <p>Caution!</p> <p>When install the fixture be sure there is no highly inflammable material within a distance of 0.5m (1.5 feet)</p> |
|---|--|

Mounting

The Platinum Wash Zfx Pro™ is fully operational in two different mounting positions, hanging upside-down from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

| | |
|---|--|
|  | <p>Refer to regulations BGV C1 (formerly VBG 70) and DIN VDE0711-217 for proper installation in Europe To ensure proper installation, only qualified staff should attempt installation.</p> |
|---|--|



Mounting points

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

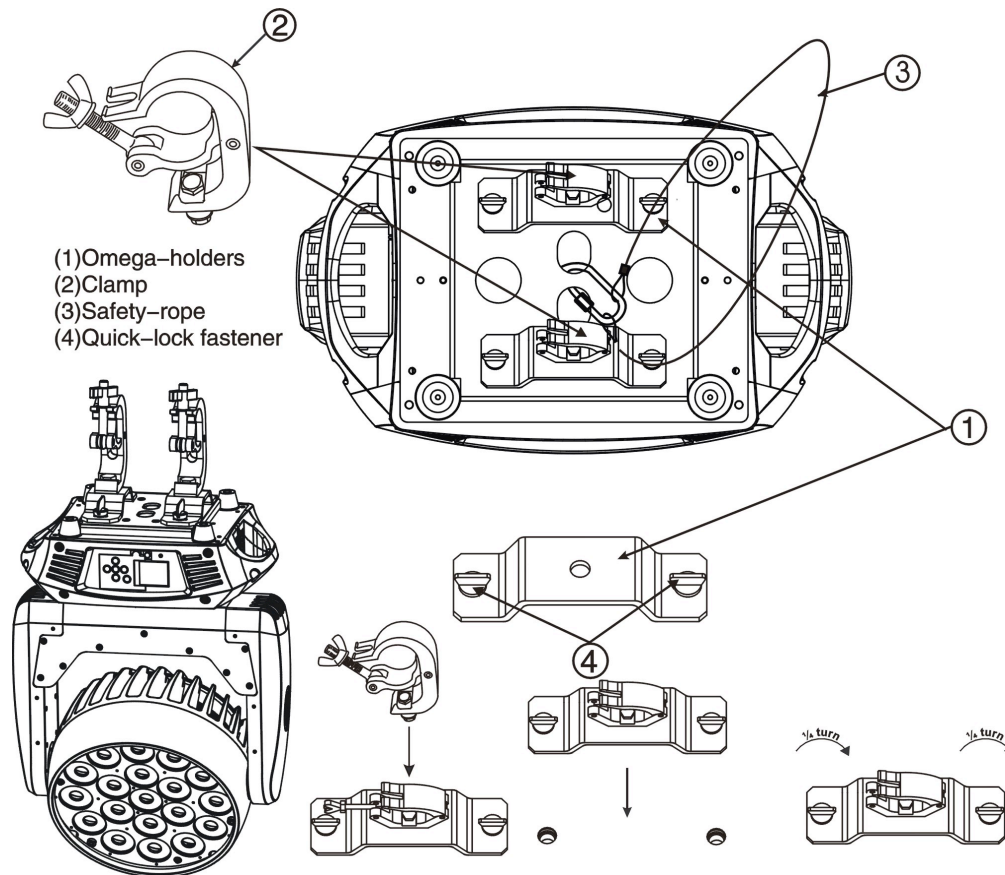


CAUTION!
Be sure a qualified electrician performs all electrical connections.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting

The Platinum Wash Zfx Pro™ provides a unique mounting bracket assembly that integrates the bottom of the base, the included “Omega Bracket,” and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the “omega bracket”. As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly



Securing the Platinum Wash Zfx Pro™

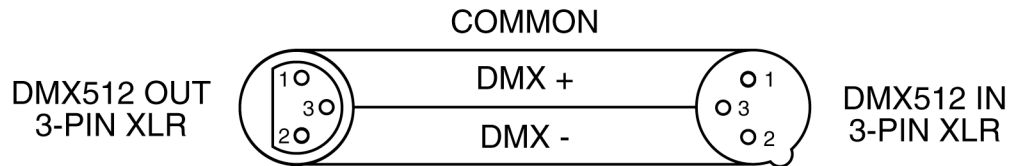
Regardless of the rigging option you choose for your Platinum Wash Zfx Pro™ always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

7. UNDERSTANDING DMX

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. DMX allows all makes and models of different manufactures to be linked together and operate from a single controller. This is possible as long as all the fixtures and the controller are DMX compliant. A DMX controller sends the DMX data instructions to the fixture allowing the user to control the different aspects of an intelligent light. DMX data is sent out as serial data that travels from fixture to fixture via data “IN” and data “OUT” XLR terminals located on the fixtures (most controllers will only have output jacks).

DMX Linking: To ensure proper DMX data transmission, always use proper DMX cables and a terminator. When using several DMX fixtures try to use the shortest cable path possible. Never split a DMX line with a “Y” style connector. The order in which the fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a starting DMX address of 1 may be placed anywhere in the DMX chain, at the beginning, at the end, or anywhere in the middle. The DMX controller knows to send data assigned to address 1 to that fixture no matter where it is located in the DMX chain. The Platinum Wash Zfx Pro™ can be controlled via DMX-512 protocol. The Platinum Wash Zfx Pro™ is a 32-channel DMX fixture. The DMX address is set electronically using the controls on the LCD menu.

Data Cable (DMX Cable) Requirements (For DMX and Master/Slave Operation):Your fixture and your DMX controller require a standard 3-pin or 5-pin XLR connector for data input and data output (the figure below is of a 3-Pin XLR connector). If you are making your own cables, be sure to use two conductor, shielded digital DMX cable rated at 120 ohms; this cable is designed for DMX transmission and may be purchased from your Elation dealer or at most professional lighting retailers. Your cables should be made with a male and female XLR connector on either end of the cable. Also, remember that a DMX line must be daisy chained and cannot be split, unless using an approved DMX splitter such as the Elation Opto Branch 4™ or DMX Branch/4™.

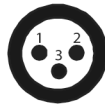


Be sure to follow the above figure when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit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

DMX Output
3-Pin XLR Socket



DMX Input
3-Pin XLR Socket

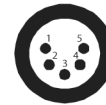


- 1: Ground
- 2: Data (-)
- 3: Data (+)

DMX Output
5-Pin XLR Socket



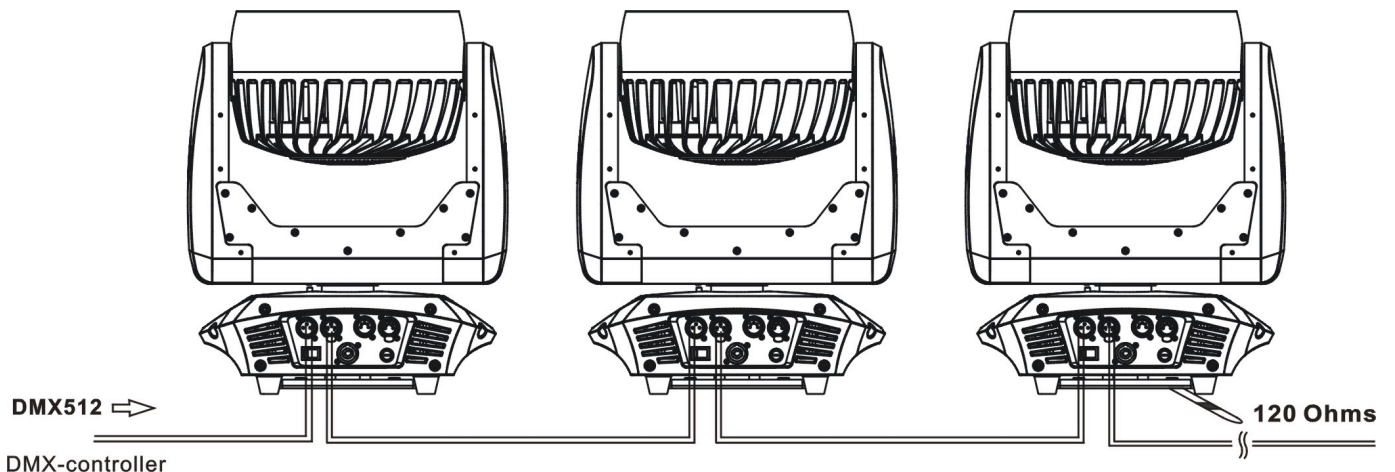
DMX Input
5-Pin XLR Socket



- 1: Ground
- 2: Data (-)
- 3: Data (+)
- 4: Open
- 5: Open

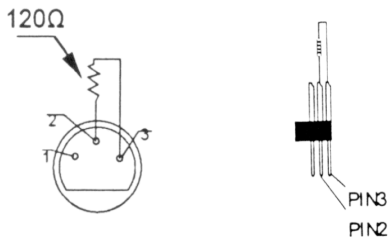
DMX-512 control connection

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head (Please refer to the diagram below.). You can chain multiple moving heads together through serial linking. The cable that should be used is two conductor, shielded DMX cable with XLR input and output connectors. Always be sure daisy chain your in and out data connections, never split or "Y" your DMX connections unless you are using an approved DMX splitter such as the Elation Opto Branch 4™ or DMX Branch/4™.



DMX-512 connection with DMX terminator

A DMX terminator should be used in all DMX lines especially in longer runs. The use of a terminator may avoid erratic behavior in your DMX line. A terminator is a 120 ohm 1/4 watt resistor that is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This fixture is inserted in the female XLR connector of the last fixture in your daisy chain to terminate the line. Using a *line terminator (Elation part: DMX T PACK)* will decrease the possibilities of erratic behavior.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

5-Pin XLR DMX Connectors. Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The following chart details a proper cable conversion.

| 3-Pin XLR to 5-Pin XLR Conversion | | |
|--|------------------------|---------------------|
| Conductor | 3-Pin XLR Female (Out) | 5-Pin XLR Male (In) |
| Ground/Shield | Pin 1 | Pin 1 |
| Data Compliment (- signal) | Pin 2 | Pin 2 |
| Data True (+ signal) | Pin 3 | Pin 3 |
| Not Used | | Pin 4 - Do Not Use |
| Not Used | | Pin 5 - Do Not Use |

Fixture DMX addressing;

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the

channel number from which the fixture starts to “listen” to the digital control information sent out from the DMX controller. The allocation of this starting DMX address is achieved by setting the correct DMX address on the digital display located on the head of the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different address for each individual fixture. Be advised that setting all your fixtures to the same DMX address will subsequently control all fixtures in the same fashion, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of control channels (DMX channels) of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the Platinum Wash Zfx Pro™, which is a 32 channel fixture (standard, can be also be 20 or 42), you should set the starting DMX address of the first unit to 1, the second unit to 33 (32 + 1), the third unit to 65 (32 + 33), and so on.

Note: During start-up the Platinum Wash Zfx Pro™ will automatically detect whether a DMX data signal is being received or not. If DMX data signal is being received, the display will show "**Addr=XXX**" (**XXX** representing the actual DMX address). If the fixture is not receiving a DMX signal the display will flash. If your fixture is connected to a DMX controller and the display is flashing (not receiving a DMX signal), please check the following:

- The 3-PIN or 5-PIN XLR input plug (cable with DMX signal from controller) is not connected or is not inserted completely into the DMX input jack of the fixture.
- The DMX controller is switched off or defective.
- The DMX cable or connector is defective.
- A DMX terminator has been inserted into the last fixture in your DMX chain.

8. FIXTURE MENU

On-Board System Menu: The Platinum Wash Zfx Pro™ comes with an easy to navigate system menu. This next section will detail the functions of each command in the system menu.

LED Control Panel: The control panel located on the top, front of the fixture allows you to access the main menu and make all necessary adjustments to the **Platinum Wash Zfx Pro™**. During normal operation, tapping the “**MODE/ESC**” key 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 **Up** and **Down** buttons. Once you reach a field that requires adjusting, tap the **ENTER** button to activate that field and use the **UP** and **Down** button to adjust the field. Tapping the **Enter** button once more will confirm your setting. Once a setting is saved the display will briefly readout **OK** to confirm a new setting has been made and locked into memory. You may exit the main menu at any time without making any adjustments by tapping the **MODE/ESC** button.

MODE/ESC Button - To access the main menu locate the MODE/ESC button on the front of the unit. Press this button to activate the system menu. Tap the UP button until you reach the function you wish to change. When you reach the function you wish to change tap the ENTER button once to select that menu function. When a function is selected the menu will begin to flash, use the UP or DOWN button to change the function. Once your changes are made tap the ENTER button yet again to lock the change in the system menu. To exit without making any changes tap the MODE/ESC button.

The fixture contains a rechargeable battery back-up system that stores all setting and also allows the menu to be accessed when the fixture is not connected to power. To access the menu via battery power, press and hold the DC switch button for two seconds, this will activate the menu. The display will automatically turn off approximately one minute after all menu commands are completed.

Default settings shaded.

| | | | | |
|-------------|---|---|---|--|
| Function | Set Dmx Address Dmx Value Slave Mode Auto Program Sound Control | A001~AXXX ALL..... Slave1,Slave2,Slave3 Master / Alone Master / Alone | | DMX address setting DMX value display Slave setting Auto program Music control |
| Information | Time Information | Current Time Total Run Time Last Run Time LastRun Password Clean Last Run | Information | Power on running time Fixture running time Fixture Last times clear Timer Password 038 Clear Fixture Last time |
| | Temperature Info | Head Temperature | | Temperature in the head |
| | Software Version | Ver1.0..... | | |
| Personality | Status Settings | Address Via DMX No DMX Status Pan Reverse Tilt Reverse Pan Degree Feedback Movement Speed Mic Sensitivity Hibernation | ON/OFF Hold /Close Shutter/ Auto Program/ Music Control ON/OFF ON/OFF 630/540 ON/OFF Speed 1~ 4 0~99% OFF, 01M~99M, 15M | Add. via DMX Auto run if no DMX Pan Reverse movement Tilt Reverse movement Pan Degree Select Movement Feedback switch Movement Mode Select Sensitivity of Mic. Stand by Mode |
| | Service Setting | Password RDM PID | Password=XXX XXXXXX | Service Code="050" RDM PID Code |
| | Fans Control | 10% 30% 50% | | Fans Speed 10% Fans Speed 30% Fans Speed 50% |
| | Display Setting | Shutoff Time Flip Display Key Lock Disp Flash | 02~60m 05m ON/OFF ON/OFF ON/OFF | Display shutoff time Display Reverse 180 degree Key Lock No Signal Flash |
| | Temperature C/F | Fahrenheit Celsius | | Temperature switch between °F or °C |
| | Initial Status | PAN =XXX | | Initial effect position |
| | Wireless DMX | WDMX Off Activate WDMX | | De-activate WDMX Activate WDMX |

| | | | |
|----------------|---|--|--|
| | | Act & Data Out Clean WDMX Memo | Act & Data Out Reset Wireless DMX Mem |
| | Reset Default | ON/OFF | Restore factory settings |
| Reset Function | Reset All Reset Pan^Tilt Reset Zoom | | Reset all motors Reset Pan/Tilt Reset Zoom |
| Effect Adjust | Test Channel | PAN | Test function |
| | Manual Control | PAN =XXX : | Fine adjustment of the lamp |
| | Calibration | Calibrate Password Color wheel=XXX : | Password "050" Calbrate and adjust the effects to standard/right position |
| User Mode Set | User Mode | Standard Mode Basic Mode Extended Mode User Mode A User Mode B User Mode C | Selects between the build-in and user selectable DMX channel modes. |
| | Edit User ModeA Edit User ModeB Edit User ModeC | Max Channel = XX PAN = CH01 : | Preset User modes |
| Edit Program | Select Program | Auto Prog Part 1 = Program 1 ~ 10 Program 1 Auto Prog Part 2 = Program 1 ~ 10 Program 2 Auto Prog Part 3 = Program 1 ~ 10 Program 3 | Select programs to be run |
| | Edit Program | Program 1 : Program 10 | Testing program Program in loop Save and exit |
| | Edit Scenes | Edit Scene 001 ~ Edit Scene 250 | Save and automatically return manual scenes edit |
| | Rec. Controller | XX~XX | Automat. scenes rec |

8.1 Function:

8.1.1 “Set DMX Address” - DMX address setting – This function is used to set or adjust the fixture’s starting DMX address. Every device controlled by DMX has to have a unique starting address. The addressing feature is what allows DMX to function properly. The DMX address of a fixture is what allows it to communicate with a controller properly. The DMX addressing also allows the fixture to ignore any DMX information coming from the controller that is not meant specifically the fixture. Because each fixture is connected in a daisy-chain fashion it is imperative to assign a proper and unique starting DMX address to each and every fixture. The DMX address is non-destructive and will remain in the fixture’s memory even when the power to the unit is switched off. Memory is backed-up and retain by an internal power source that should last about five years. For proper DMX addressing see Section 8/Page 29 of this user manual.

8.1.2 “DMX Value” - Display the DMX 512 value of each channel

With this function you can display the DMX 512 value of each channel. The display will automatically detail the changing DMX values as they are received from the controller.

8.1.3 “Slave Mode” - Slave setting for Master/Slave Operation

With this function, you can define the device as slave for operation in Master/Slave mode. Each slave setting will have a different function for a dynamic lightshow without a controller.

8.1.4 Auto Program

This function allows the internal programs to run in either stand-alone or master/salve mode. In “Master” mode the fixture will send DMX data to other fixtures connect via the DMX chain. In “Alone” mode the fixture will operate as a single fixture. The program for this mode is selected in the “**Select program**” section of the control menu. You can set the number of steps under “**Edit program**”. You can edit the individual scenes under “**Edit scenes**”. With this function, you can run the individual scenes either automatically, i.e. with the adjusted Step-Time.

8.1.5 Sound Control

This function is similar to the “Auto Program” described in the previous section with the exception that this function will advance the built-in program via sound.

8.2 Information:

8.2.1 Time Information

These functions will detail different time functions associated with the fixture.

Current Time

This function displays the running time of the fixture from the last power on. The display shows “XXXX”, where “XXXX” represents the number of hours the fixture has been running. This counter is automatically reset after every power-on.

Total Run Time

This function tracks the total running time of the fixture from the very first start-up. Where “XXXX” represents the total number of running hours. This time is non-destructive and will remain in the fixtures memory indefinitely.

Last Run Hours

This function tracks a cycle run time. Use this function to keep track of rental period, or to note the time from the last service. This setting can be reset at any time, see “L-Timer Password.”

LastRun Password

Use this function to enter the “Clear Last Run” password. Password is “038”

Clear Last Run

This function will allow the “Last Run Hours” function be cleared and reset.

8.2.2. Temperature Info.

This function will detail different temperatures associated with the fixture in either Celsius or Fahrenheit.

Head Temperature – This function will display the internal head temperature of the

fixture in real time.

8.2.3. Software version

This function will display the current operating software version of the fixture.

- Select “**Software Vers**” in the system menu.
- Press enter to confirm.
- The LCD will read “V-X.X”, “X.X” represents the version number, e.g. “V-1.0”, “V-2.6”.
- Use the UP and DOWN buttons to toggle through the software version of different IC’s.
- Press the Mode/Esc-button to return to the main menu.

8.3 Personality:

8.3.1 Status settings

Address via DMX - This function allows the DMX address to remotely be adjusted from a DMX console. This setting requires special settings for both the controller and the fixture. RDMX is on by default. For operational instructions please see Section 9/Page 30 of this manual “Remote DMX addressing.”

No DMX Status – This function dictates how the fixture will function if it loses DMX signal during normal operation. The default function is set to hold, in which the fixture will lock into the last DMX signal it received and remain in that position until it is turned off or begins receiving a new DMX signal. If the fixture is turned on without any DMX signal, the fixture will automatically go in to sound-active mode. Available settings are: “Close Shutter” – Shutter flags will close. “Hold” – Fixture will remain at its last settings. “Auto Program” – Fixture will go into stand-alone mode, running the built-in program. “Music Control” – The fixture will go into sound-active mode.

Pan Reverse - This function allows you to invert all pan movements. Use the Up and Down buttons to turn this function On or Off. Press the Enter button to accept the change or the Mode button to cancel and return to the main menu. This function

is “OFF” by default.

Tilt Reverse - This function allows you to invert all tilt movements. Use the Up and Down buttons to turn this function On or Off. Press the Enter button to accept the change or the Mode button to cancel and return to the main menu. This function is “OFF” by default.

Pan Degree – This function changes the maximum Pan resolution from either 540° or 630°. The default function is 540°. 630° operation allows for greater coverage, but slower pan movement.

Feedback – This function turns the feedback correction on or off. This function is set to “ON” as default. This function allows for automatic pan and tilt correction in the event either one disrupted during normal operation.

Movement Speed – This function changes the speed function of the Pan and Tilt motors. There are 3 different mode variations;

Speed 1 (Default): Slower than the original Design Spot 250 for smoother, more precise movements.

Speed 2: Pan and Tilt speeds are identical to the first generation Design Spot 250.

Speed 3: Includes a faster Pan speed. Pan speed is 0.5 seconds faster than original Design Spot 250. Tilt speed will be the same as speed 2.

Mic Sensitivity – This function makes the internal microphone more or less sensitive to sound. This function only works in conjunction with the sound active modes. The default setting is 70% and setting range from 0% to 99%.

Hibernation - *Standby mode*; in this mode the lamp and stepper motors will power off when the fixture does not receive a DMX signal for at least 15 minutes (Factory default). When the fixture receives a new DMX signal it will reset and return to the last DMX position.

8.3.2 Service Setting–

Password - The Password for this function is “50”.

RDM PID- With this function you can call up various submenus via RDM.

8.3.3 Fan Control – This function is used to change the functionality of the internal cooling fans. The available selections are 10%, 30% and 50%.

8.3.4 Display Setting –

Shutoff Time -The display is designed to turn off during normal operation to avoid excessive light in situations that require an extremely dark environment. This function will adjust the amount of time the display will remain on until it is automatic turned off. This function is disabled as default.

Flip Display – This function will allow the entire display to be flipped by 180° to allow for better view when the fixture is hung from truss or a ceiling. This function is disabled as default.

Key Lock –This function allows you to lock the keys on the display to prevent tampering. If this function is activated, the keys will be automatically locked in 15 seconds from the last press. In order to deactivate the key lock status, press the Mode/Esc-button for three seconds.

1. Access the main menu.
2. Tap the UP button until “DISP” is displayed.
3. Press ENTER, the display will show “VALU”.
4. Tap the UP button until ”LOCK” is displayed and tap the ENTER button.
5. Press the UP button to select “ON” to activate this function, or “OFF” to deactivate this function.
6. Press ENTER to confirm.
7. Press MEDE/ESC to return to the main menu.

Disp Flash (Display Flash) – When activated this function will flash the display when it is not receiving any type of signal. Use the Up and Down buttons to turn this function On or Off. Press the Enter button to accept the change or the Mode button to cancel

and return to the main menu. This function is “ON” by default.

8.3.5 Temperature Set C/F – This function changes the temperature the unit will display from either Celsius or Fahrenheit. Fahrenheit is set as default.

8.3.6 Initial Status – This function allows a user to create and assign a custom “Home Position” into the fixture. Adjusting the Pan and Tilt values then locking those values into the fixture’s internal memory creates the new “Home” position.

8.3.7 Wireless DMX

This section will control the functionality of the built-in wireless DMX receiver. See page 37 for more information on operating this fixture via Wireless DMX.

8.3.8 Reset Default – This function is used to restore the fixture’s original factory settings. All settings will be set back to the default values (shaded). Any edited scenes will be lost.

8.4 Reset Function: The reset function returns a motor to the “Home” position. There are several reset functions available on this fixture. The list below details the functionality of each available selection.

8.4.1 **Reset All:** This function will reset all internal motors to the home position.

8.4.2 **Reset X and Y:** This function will only reset the pan and tilt motors to the home position.

8.4.3 **Reset Zoom:** This function will reset all zoom motors.

8.5 Effect Adjust:

8.5.1 **Test Channel** – This menu function allows the user to select each individual fixture channel and test the functions independently from a DMX control board.

8.5.2 **Manual Control** – This function is designed for testing and manual control. When activated this function will center the pan and tilt motors, open the shutter, and bring the dimmer to 100%. The pan and tilt function will still operate if the fixture needs to be positioned to a flat clear surface.

8.5.3 Calibration –This function is designed to calibrate small variations in motor movement that are caused by normal wear or in the event a sensor has been knocked slightly out of place. Because this procedure has the potential of damaging the fixture, only a qualified technician should perform the operation. With this function the adjustments can be made to the effect wheels (color, gobo, shutter, etc.) To protect this fixture from being tampered with by unauthorized personnel it is password protected. To access this submenu enter 050 when prompted to do so in the fixture menu. This password will have to be entered each time the calibration menu function is accessed. Because calibration is an extremely delicate procedure, instruction on performing this action are left out of this manual. For a first time calibrator, please contact our customer support team for step-by-step instructions.

8.5 User Mod Set:

8.5.1 User mode –This function allows the user to create user defined channel orders allowing the fixture to match the channel order of other fixtures on the market for easier operation. A total of three user modes may be configured: User Mode A, User Mode B, and User Mode C.

8.5.2 Edit User mode –This function allows the user to make the actual changes in the user-defined modes that are created in the previous function.

8.6 EDIT Program: - The fixture comes equipped with a built-in DMX recorder that allows custom programs to be installed and recalled directly from the fixture’s control board. Programs can be created and stored using the fixture’s control board or by using an external DMX controller. For detailed instructions on how to complete this task please see Section 11/ Page 35.

8.6.1 Select program–This function allows the user to select one of ten of the user defined built-in programs. This program is then accessed in “Function Mode” under “Program Run.”

- 8.6.2 **Edit program** – This function allows the user to edit the built-in programs.
- 8.6.3 **Edit Scenes** –This function allows the user to edit or define the actual scenes that are stored in the user defined built-in programs that are accessed in the previous step.
- 8.6.4 **Rec Controller** -The Platinum Wash Zfx Pro™ features an integrated DMX recorder. Pre-programmed scenes can be transmitted to the fixture via any DMX compliant controller. This function allows those scenes to be stored into the fixture's built-in memory and then subsequently used to create user-defined programs that can be accessed without the use of a controller.

9. DMX ADDRESSING

Setting the DMX address -After the fixture is turned “ON” it will immediately complete a reset process that test all the fixture’s functions. When the reset process concludes the LCD will display the fixture’s current DMX. If the fixture is not receiving a DMX signal, the display will flash continuously. To set or adjust a DMX address, please follow the procedure below:

1. Toggle through the menu by pressing the Up and Down buttons until the display reads “Set DMX Address.” Tap the enter button to make changes to the address.
2. While the current three-digit address is flashing use the “UP” and “DOWN” buttons to select a new address. Once the new address has been selected, lock the new address into the fixture’s memory by pressing the “ENTER” button.

The DMX address is non-volatile and will remain in the fixture’s memory even when the power to the unit is switched off. Memory is backed-up and retain by an internal power source that should last about five years

Remote DMX addressing (RDMX) / Address Via DMX- This function allows the DMX address to be changed remotely from a DMX console. This setting requires special settings for both the controller and the fixture. RDMX is on by default. Follow the procedure listed below to access the RDMX functions:

Fixture Settings:

1. Access the main menu and use the UP or DOWN to get to the “Personality” menu, then press ENTER
2. Once in the “Personalities” menu, tap the UP or Down to get to the “Status Settings “ menu, press ENTER.
3. Once in the “Status Settings” tap the UP or Down to get to the “Address via DMX” function and press ENTER.
4. “Address via DMX” is the function that turn the RDMX function on and off.
5. Press the UP button to display “ON” to activate this function, or “OFF” to deactivate this function.
6. Press ENTER to confirm.
7. Press MODE/ESC to return to the main menu.

Controller Settings:

1. Set the DMX value of channel 1 to a value of 7.
2. Set the DMX value of channel 2 to a value of 7 or 8. When channel 2 is set to "7" you can adjust the starting address between 1 and 255. When set to "8" you can adjust the starting address between 256 and 511.
3. Use channel 3 to set your desired DMX starting address. **For example:** If you want to set the starting address to 57, set channel 1 to a value of "7," set channel 2 to a value of "7" and use channel 3 to set your address to 57 by selecting a channel value of 57. Example 2: If you want to set the starting address to 420, set channel 1 to a value of "7," channel 2 to "8" and channel 3 to "164" ($256+164=420$).
4. **Wait for approximately 20 seconds for the unit to complete the address reset function.**

10. OPERATING MODES

Operating Modes: *The Platinum Wash Zfx Pro™ can operate in six different modes. This next section will detail the differences in the operating modes.*

- **Internal Program Mode (Master)** - The fixture will chasing through the built-in programs, sending a DMX control signal to all other fixtures connect via DMX cables instruction for a synchronized light show.
- **Internal Program Mode (Stand-alone)** - The fixture will chase through the built-in program. This feature is great for store front with custom logos, where as the logos need to be displayed but the use of a controller is unwanted.
- **Sound Control Mode (Stand-alone)** - The fixture will react to sound, chasing through the built-in programs. Great for small clubs or DJ that do not want to bother with programming.
- **Sound Control Mode (Master/Slave)** -You can daisy chain up to 16 fixtures together to get a synchronized light show without the need of an external controller. The fixtures will react to sound, chasing to a synchronized light show.
- **Set To Slave** – This function will set the fixture to slave mode for use in either the auto program or music control program modes
- **DMX control mode** -This function will allow you to control each individual fixtures traits with a standard DMX-512 controller such as the Elation® Show Designer 2.

10.1 Stand-Alone Operation (Internal Program or Sound Active): This mode allows a single fixture to run to the built-in programs with or without sound. Only use this mode when running a single fixture, or when running several fixtures as individuals.

- Mount your fixture in a secure and stable manner.
- **For functionality without sound control:** Access the “Function” menu and select the “Auto Program” function, this will give you access to the “Auto Program” submenu. See page 21 for the menu breakdown. Once in the “Auto Program” submenu select “Alone”
- **For functionality that chases to sound:** Access the “Function” menu and select the “Music Control” function, this will give you access to the “Music

Control” submenu. See page 21 for the menu breakdown. Once in the “Music Control” submenu select “Alone”

10.2 Master-Slave Operation (Auto Program or Music Control): This function allows up to 16 fixtures to be linked together to provide a synchronized light show without the use of a controller. Only use this function when linking several Platinum Wash Zfx Pro fixtures together for use without a controller. Any fixture can act as a “Master or a “Slave.”

- Using XLR DMX cables, daisy-chain your fixtures together via the XLR connectors. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first fixture in the chain (master) will use the female XLR connector only - The last fixture in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture.
- For the unit functioning as the “Master” unit follow the same procedures listed in the previous Stand-Alone section.
- For the “Slave” units, access the “Set To Slave” settings in the “Function Mode” menu and assign each fixture a designation (Slave 1, Slave 2,...etc.).

10.3 Universal DMX Control: This function allows you to use a universal DMX-512 controller such as the Elation® Show Designer 2™ or Elation® Show Designer 3™ to control head movement, the color wheel, the shutter (strobe), and all other DMX traits. A DMX controller allows you to create unique programs tailored to your individual needs. The Platinum Wash Zfx Pro™ uses 32 DMX channels (standard, can also use 20 or 42). See page 40 for detailed description and breakdown of the DMX traits. To control your fixture in DMX mode, follow the set-up procedures on pages 16-19 as well as the set-up specifications that are included with your DMX controller. This will allow you to create your own programs.

- Follow the instruction on page 31 to set the DMX address.
- Be sure to use a terminator on the last fixture, especially for longer cable runs (more than 100 feet).
- For help operating in DMX mode, consult the user manual that was included with your DMX controller.

11. WORKING WITH BUILT-IN PROGRAMS

The fixture comes equipped with a built-in DMX recorder that allows custom programs to be installed and recalled directly from the fixture's control board. Programs can be created and stored using the fixture's control board or by using an external DMX controller. The following instructions will detail the procedures for using the on-board system menu as well as using a DMX compliant controller.

Memory Statistics:

Quick Access Programs (Program Part): 3

Total Number of Programs: 10

Maximum Number of Steps (Scenes) per a Program: 64

Total Number of Scenes (Steps): 250

Step 1 – Building Scenes.

The control will store a maximum of 250 scenes. These scenes are then used to create the programs. A program can store one or a maximum of 64 scenes. Keep in mind that a scene can only be access when it is stored in a "Program." If you wish to build a static scene (a scene consisting of no movement) for a logo or gobo projection, the scene must be stored inside a program. To build scenes follow the instructions below:

- Access the main menu and toggle to "Edit Programs" which is menu function 8.
- Then tap the "ENTER" button and toggle to "Edit Scenes," menu function 8-3.
- When you get to the "Edit Scenes" function tap the "ENTER" button. The screen will then change to Edit Scene 001, this will be menu function 8-3-1. You can then press the "ENTER" button to begin to edit scene 1 or use the "UP" and "DOWN" buttons to toggle to access scenes 2-250.
- Once in the scene edit screen you have access to the functions listed below.

Tapping the "ENTER" button will instantly allow you to change the values of the selected function in real time. The values can be adjusted from 0~250. Once you achieved your desired value tap the "ENTER" button once again to automatically lock the value into the scenes memory. You can repeat the procedure for all functions listed below:

- "Auto Program" – Allows access to all 14 DMX channels.
- "PAN" – pan movement.

- “PAN-Fine” – precision pan movement.
- “TILT” – tilt movement.
- “TILT-Fine” – precision tilt movement
- “Red” – adjust the red flag value
- “Green” – adjust the green flag value
- “Blue” – adjust the blue flag value
- “White” – adjust the white flag value
- “Strobe” – adjust the strobe
- “Rainbow colors” – adjust the color macro values
- “Zoom” – adjust the zoom value
- “Dimmer” – adjust the dimmer intensity
- “Scene Time” – set the hold time for the scene
- “Input By Out” – this function will store a scene from an external DMX console. See the next section for scene editing via an external DMX controller.

Step 1B – Building Scenes from an External DMX Controller.

The fixture includes a simple built-in DMX recorder. This recorded allow you to build a scene using your own DMX console and then send that scene to the fixture to be stored inside one of the fixture scene storage banks. Many people may find this procedure easier and quicker than using the on board menu functions as in “Step 1.” To store a scene from an external DMX controller follow the procedures below:

- Using your DMX control build and store scenes as you normally would.
- Once you have built all your required scenes, enter the fixtures main menu and toggle to

Step 2 – Editing Programs.

The control will store a maximum of 10 programs. A program can store one or a maximum of 64 scenes. Keep in mind that a scene can only be access when it is stored inside one of the 10 available programs. Follow the procedure below to build an internal program:

- Access the main menu and toggle to “Edit Programs” which is menu function 8.
- Then tap the “ENTER” button and toggle to “Program 1” menu function 8-2-1.
- When you get to the “Program 1” function tap the “ENTER” button. The screen will

then change to Edit Steps 01, this will be menu function 8-2-1-1. Use the “UP” and “DOWN” buttons to toggle through the scenes created in “Step 1.” Press the “ENTER” button to add a scene to the program. Tapping the “Enter” button will automatically lock the selected scene into the programs’ memory. Repeat the process until all the desired scenes have been added to the program. Each program can store a maximum of 64 scenes.

- To test the program access “Program Test” in the “Program Edit” menu function.

Step 3 – Playing a Program

To initiate a program follow the procedure below:


- Access the main menu and use the “Up” and “Down” to toggle to “Function Mode” and tap the “Enter” button.
- In the next screen select “Auto Program” and tap the “Enter” button.
- There are two selections, “Master” and “Alone.” Select “Master” when running multiple fixtures in a master/slave configuration. See section 9.2 “Master/ Slave Operation” on page 32 for proper set-up instructions. Select “Alone” when running a single fixture or when multiple fixtures in stand-alone mode. See section 9.1 “Stand-Alone Operation” on page 35 for proper set-up instructions.

12. BUILT-IN WIRELESS RECEIVER

The Platinum Wash Zfx Pro™ is equipped with an Elation WDMX Wireless DMX Receiver built-in. This receiver is fully compatible with your existing Elation Wireless DMX System or any WDMX compatible solution.

12.1 Working with the Wireless DMX (WDMX) System:

- To turn the system “On” or “Off,” access the main menu and toggle to Personality - Wireless DMX. The next menu selection will allow the user to Activate the system, Deactivate the system, or Reset the system. Activate turns the system on, Deactivate turn the system off, and Reset clears the link between the fixture and a transmitter.
- **PLEASE NOTE:** When the WDMX system is activate the link between the built-in DMX “IN” XLR jacks is electronically turned off, but the “OUTPUT” DMX XLR jacks will function normally.
- If a fixture is powered on when the built-in WDMX system is activated, the fixture will automatically scan for a wireless DMX signal from an Elation wireless transmitter. If no wireless signal is received the fixture will electronically switch to wired mode.

| | |
|---|---|
| WARNING! | |
|  | Never connect a fixture to a controller via a DMX cable when the WDMX system is in use. This could cause serious damage to the controller. |

12.2 Setting up the WDMX system:

- 1) Follow the instructions that come with your wireless transmitter and connect the transmitter to your DMX controller.
- 2) To sync your fixture with your wireless transmitter follow the steps below:
 - a) Initially, the WDMX indicator on the fixture should be solid red
 - b) Press and hold the configuration button on your WDMX transmitter for about 3 seconds. The red/green LED indicators on the transmitter and the fixture should then begin to flash rapidly for about 5~ 10 seconds while the two system pair

- c) Once the fixture is paired with the transmitter (T1), the WDMX status indicators on the both the fixture and the transmitter will stop flashing and glow solid green. If the pairing is unsuccessful repeat the process until the pairing is secured.
- d) The fixture will store the pairing information inside a nondestructive memory bank once a link is created between the fixture and a transmitter. The fixture will remember the paired transmitter even if the fixture is turned off for extended periods of time.

12.3 Clearing Transmitter Link:

- 1) Access the fixture's main menu and toggle to Personality - Wireless DMX – Reset. Select "Reset" to clear any existing link between the fixture and a transmitter. The WDMX indicator on the fixture will turn solid red when the link is severed.
- 2) You may also clear the link from the transmitter. First, be sure the fixture(s) is powered on, and then hold down the configuration button on the transmitter for at least 5 seconds. This will automatically clear the link between the transmitter and any fixture that is powered on. All WDMX indicators will glow solid red if the procedure was successful.

12.4 WDMX Indicators:

- 1) Rapid flashing Red/Green: Syncing in to a transmitter.
- 2) Slow flashing Red/Green: Paired with a transmitter. Transmitter is not receiving a DMX signal from a controller.
- 3) Solid Green: Paired with a transmitter and receiving DMX data.
- 4) Solid Red: Not paired with a transmitter (free)

13. DMX CHANNEL TRAITS:

The chart below details the channel layout for 32 DMX channels (default).

The fixture can also be run in “Basic” Mode (20-channels) and “Extended” Mode (42-Channels). See page 42 for detailed DMX layout.

32 Channel mode:

| % | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9/13/17 | 10/14/18 | 11/15/19 | 12/16/20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|------|-----|---------------------|------|----------------------|----------------------|------------------------|-----------------------|------------------------|---------------------|-----------------------|----------------------|-----------------------|--------|------------------|------|-------------|---------------|----------------------|----------------|-------------|------------|------------|------------|--------------|
| | Pan | Pan High Resolution | Tilt | Tilt High Resolution | Red LED - all arrays | Green LED - all arrays | Blue LED - all arrays | White LED - all arrays | Red LED - array 1-3 | Green LED - array 1-3 | Blue LED - array 1-3 | White LED - array 1-3 | Strobe | Dimmer Intensity | Zoom | Color Macro | Color Presets | Color Presets Dimmer | Chase Patterns | Chase Speed | Chase Fade | Scan speed | Color Mode | Auto program |
| 100% | | | | | | | | | | | | | | | | | | | | | | | | |
| 75% | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% | | | | | | | | | | | | | | | | | | | | | | | | |
| 25% | | | | | | | | | | | | | | | | | | | | | | | | |
| 0% | | | | | | | | | | | | | | | | | | | | | | | | |

CHANNEL 1: Pan Movement (max. 630° or 540° User Selectable)

CHANNEL 2: 16bit Pan Movement (pan fine)

CHANNEL 3: Tilt Movement (max. 265°)

CHANNEL 4: 16bit Tilt Movement (tilt fine)

CHANNEL 5: Red LED Control - All

CHANNEL 6: Green LED Control - All

CHANNEL 7: Blue LED Control – All

CHANNEL 8: White LED Control - All

CHANNEL 9: Red LED Control – Cluster 1

CHANNEL 10: Green LED Control – Cluster 1

CHANNEL 11: Blue LED Control – Cluster 1

CHANNEL 12: White LED Control – Cluster 1

CHANNEL 13: Red LED Control – Cluster 2

CHANNEL 14: Green LED Control – Cluster 2

CHANNEL 15: Blue LED Control – Cluster 2

CHANNEL 16: White LED Control – Cluster 2

CHANNEL 17: Red LED Control – Cluster 3

CHANNEL 18: Green LED Control – Cluster 3

CHANNEL 19: Blue LED Control – Cluster 3

CHANNEL 20: White LED Control – Cluster 3

CHANNEL 21: Strobe (0-13Hz) / Random Strobe

CHANNEL 22: Dimmer

CHANNEL 23: Zoom

CHANNEL 24: Color Macros

CHANNEL 25: Color Presets

CHANNEL 26: Color Presets Dimmer

CHANNEL 27: Chase Patterns

CHANNEL 28: Chase Speed

CHANNEL 29: Chase Fade

CHANNEL 30: Speed Pan/Tilt Movement

CHANNEL 31: Color Mode

CHANNEL 32: Special Functions (Auto program control, motor reset, music control)

DMX channel function and values:

| DMX channel's functions and their values (42 DMX channels): | | | | |
|--|-----------|-----------|--------------|--|
| Mode/Channel | | | Value | Function |
| St | Ba | Ex | | |
| 1 | 1 | 1 | | PAN Movement 8bit: |
| | | | 0-255 | Pan Movement |
| 2 | 2 | 2 | | Pan Fine 16bit |
| | | | 0-255 | Fine Pan movement control |
| 3 | 3 | 3 | | TILT Movement 8bit: |
| | | | 0-255 | Tilt Movement |
| 4 | 4 | 4 | | Tilt Fine 16bit |
| | | | 0-255 | Fine Tilt movement control |
| 5 | 5 | | | Red LED Control - ALL |
| | | | 0-255 | Red (0-Black, 255-100% Red) |
| | | | | Red LED - Fine Control - ALL |
| | | | 0-255 | Fine control for Red adjustment |
| 6 | 6 | | | Green LED Control - ALL |
| | | | 0-255 | Green (0-Black, 255-100% Green) |
| | | | | Green LED - Fine Control - ALL |
| | | | 0-255 | Fine control for Green adjustment |
| 7 | 7 | | | Blue LED Control - ALL |
| | | | 0-255 | Blue (0-Black, 255-100% Blue) |
| | | | | Blue LED - Fine Control - ALL |
| | | | 0-255 | Fine control for Blue adjustment |
| 8 | 8 | | | White LED Control - ALL |
| | | | 0-255 | White (0-Black, 255-100% White) |
| | | | | White LED - Fine Control - ALL |
| | | | 0-255 | Fine control for White adjustment |
| 9 | | 5 | | Red LED Control - Cluster 1: |
| | | | 0-255 | Red (0-Black, 255-100% Red) |
| | | 6 | | Red LED - Fine Control - Cluster 1: |
| | | | 0-255 | Fine control for Red adjustment |
| 10 | | 7 | | Green LED Control - Cluster 1: |
| | | | 0-255 | Green (0-Black, 255-100% Green) |
| | | 8 | | Green LED - Fine Control - Cluster 1: |
| | | | 0-255 | Fine control for Green adjustment |
| 11 | | 9 | | Blue LED Control - Cluster 1: |
| | | | 0-255 | Blue (0-Black, 255-100% Blue) |
| | | 10 | | Blue LED Control - Cluster 1: |

| | | | | |
|----|---|----|-------|--|
| | | | 0-255 | Fine control for Blue adjustment |
| 12 | | 11 | | White LED Control - Cluster 1: |
| | | | 0-255 | White (0-Black, 255-100% White) |
| | | 12 | | White LED - Fine Control - Cluster 1: |
| | | | 0-255 | Fine control for White adjustment |
| 13 | | 13 | | Red LED Control - Cluster 2: |
| | | | 0-255 | Red (0-Black, 255-100% Red) |
| | | 14 | | Red LED – Fine Control - Cluster 2: |
| | | | 0-255 | Fine control for Red adjustment |
| 14 | | 15 | | Green LED Control - Cluster 2: |
| | | | 0-255 | Green (0-Black, 255-100% Green) |
| | | 16 | | Green LED – Fine Control - Cluster 2: |
| | | | 0-255 | Fine control for Green adjustment |
| 15 | | 17 | | Blue LED Control - Cluster 2: |
| | | | 0-255 | Blue (0-Black, 255-100% Blue) |
| | | 18 | | Blue LED – Fine Control - Cluster 2: |
| | | | 0-255 | Fine control for Blue adjustment |
| 16 | | 19 | | White LED Control - Cluster 2: |
| | | | 0-255 | White (0-Black, 255-100% White) |
| | | 20 | | White LED – Fine Control - Cluster 2: |
| | | | 0-255 | Fine control for White adjustment |
| 17 | | 21 | | Red LED Control - Cluster 3: |
| | | | 0-255 | Red (0-Black, 255-100% Red) |
| | | 22 | | Red LED – Fine Control - Cluster 3: |
| | | | 0-255 | Fine control for Red adjustment |
| 18 | | 23 | | Green LED Control - Cluster 3: |
| | | | 0-255 | Green (0-Black, 255-100% Green) |
| | | 24 | | Green LED – Fine Control - Cluster 3 |
| | | | 0-255 | Fine control for Green adjustment |
| 19 | | 25 | | Blue LED Control - Cluster 3: |
| | | | 0-255 | Blue (0-Black, 255-100% Blue) |
| | | 26 | | Blue LED – Fine Control - Cluster 3: |
| | | | 0-255 | Fine control for Blue adjustment |
| 20 | | 27 | | White LED Control - Cluster 3: |
| | | | 0-255 | White (0-Black, 255-100% White) |
| | | 28 | | White LED – Fine Control - Cluster 3: |
| | | | 0-255 | Fine control for White adjustment |
| 21 | 9 | 29 | | Shutter, strobe: |
| | | | 0-31 | LEDs Off |
| | | | 32-63 | LEDs Active |

| | | | | |
|----|----|----|---------|--------------------------------------|
| | | | 64-95 | Strobe Effect - Slow to Fast |
| | | | 96-127 | LEDs Active |
| | | | 128-159 | Pulse-effect in sequences |
| | | | 160-191 | LEDs Active |
| | | | 192-223 | Random strobe effect – Slow to Fast |
| | | | 224-255 | LEDs Active |
| 22 | 10 | 30 | | <u>Dimmer intensity:</u> |
| | | | 0-255 | Intensity 0 to 100% |
| | | 31 | | <u>Dimmer intensity Fine:</u> |
| | | | 0-255 | Dimmer - Fine Control |
| 23 | 11 | 32 | | <u>Zoom:</u> |
| | | | 0-255 | Zoom |
| | | 33 | | <u>Zoom Fine:</u> |
| | | | 0-255 | Zoom – Fine Control |
| 24 | 12 | 34 | | <u>Color Macro:</u> |
| | | | 0-7 | No Function |
| | | | 8-39 | RED to YELLOW |
| | | | 40-71 | YELLOW to GREEN |
| | | | 72-103 | GREEN to CYAN |
| | | | 104-135 | CYAN to BLUE |
| | | | 136-167 | BLUE to MAGENTA |
| | | | 168-199 | MAGENTA to RED |
| | | | 200-231 | RED to WHITE |
| | | | 232-255 | Crossfading Colors - Slow to Fast |
| 25 | 13 | 35 | | <u>Color Presets:</u> |
| | | | 0-4 | No Function |
| | | | 5--9 | White 2700k |
| | | | 10--14 | White 3200k |
| | | | 15-19 | White 4300k |
| | | | 20-24 | White 5600k |
| | | | 25-29 | White 6500k |
| | | | 30-34 | White 8000k |
| | | | 35-39 | Red |
| | | | 40-44 | Green |
| | | | 45-49 | Blue |
| | | | 50-54 | Natural White |
| | | | 55-59 | Full White |
| | | | 60-64 | Yellow |
| | | | 65-69 | Magenta |
| | | | 70-74 | Cyan |

| | | | | |
|----|----|----|---------|----------------------------------|
| | | | 75-79 | Salmon |
| | | | 80-84 | Turquoise |
| | | | 85-89 | Light Green |
| | | | 90-94 | Steel Blue |
| | | | 95-99 | Orange |
| | | | 100-104 | Straw |
| | | | 105-109 | Pale Lavender |
| | | | 110-114 | Pink |
| | | | 115-119 | RED/WHITE |
| | | | 120-124 | GREEN/RED |
| | | | 125-129 | BLUE/RED |
| | | | 130-134 | WHITE/RED |
| | | | 135-139 | WHITE/PINK |
| | | | 140-144 | WHITE/TURQUOISE |
| | | | 145-149 | SMALL RED/WHITE |
| | | | 150-255 | Reserved |
| 26 | 14 | 36 | | Color Presets Dimmer: |
| | | | 0-255 | Dimmer 100 to 0% |
| 27 | 15 | 37 | | Chase Patterns: |
| | | | 1--14 | LEDs Off |
| | | | 15-30 | Chase 1 |
| | | | 31-46 | Chase 2 |
| | | | 47-62 | Chase 3 |
| | | | 63-78 | Chase 4 |
| | | | 79-94 | Chase 5 |
| | | | 95-110 | Chase 6 |
| | | | 111-126 | Chase 7 |
| | | | 127-142 | Chase 8 |
| | | | 143-158 | Chase 9 |
| | | | 159-174 | Chase 10 |
| | | | 175-190 | Chase 11 |
| | | | 191-206 | Chase 12 |
| | | | 207-222 | Chase 13 |
| | | | 223-238 | Chase 14 |
| | | | 239-255 | Chase 15 |
| 28 | 16 | 38 | | Chase Speed: |
| | | | 0-125 | Fast to Slow – Counter-Clockwise |
| | | | 126-130 | Stop (Speed=0) |
| | | | 131-255 | Slow to Fast - Clockwise |
| 29 | 17 | 39 | | Chase Fade: |

| | | | | |
|---------|----------------------------------|----|---------|---|
| | | | 0-255 | Fade Chase |
| 30 | 18 | 40 | | Speed Pan/Tilt movement: |
| | | | 0-225 | Speed Adjustment – Maximum to Minimum |
| | | | 226-235 | Blackout by movement |
| | | | 236-255 | No Function |
| 31 | 19 | 41 | | Color Mode: |
| | | | 0-189 | No Function |
| | | | 190-254 | Edit a new white balance |
| | | | 255 | Store a new white balance |
| 32 | 20 | 42 | | Lamp on/off, reset, internal programs: |
| | | | 0-79 | Normal |
| | | | 80-84 | Reset – All Motors |
| | | | 85-87 | Reset – Scan Motors Only |
| | | | 88-90 | No function |
| | | | 91-93 | Edit and store white balance enabled |
| | | | 94-96 | No function |
| | | | 97-99 | Reset – All Other Motors |
| | | | 100-119 | Internal program 1 (secne1~8) |
| | | | 120-139 | Internal program 2 (secne9~16) |
| | | | 140-159 | Internal program 3 (secne17~24) |
| | | | 160-179 | Internal program 4 (secne25~32) |
| | | | 180-199 | Internal program 5 (secne33~40) |
| | | | 200-219 | Internal program 6 (secne41~48) |
| 220-239 | Internal program 7 (secne49~56) | | | |
| 240-255 | Sound Active Program (Program 1) | | | |

14. ERROR CODES:

When power is applied, the unit will automatically enter a “reset/test” mode. This mode brings all the internal motors to a home position. If there is an internal problem with one or more of the motors an error code will flash in the display in the form of “XXEr” where as XX will represent a function number. For example, when the display shows “02Er,” it means there is some type of error with the channel 2 motor. If there are multiple errors during the start-up process they will all flash in the display. For example: if the fixtures has errors on channel 1, channel 2, and channel 5 all at the same time, you will see the error message “01Er”, “02Er,” and “05Er” flash repeated 5 times.

If an error does occur during the initial start-up procedure the fixture will self-generate a second reset signal and try to realign all the motors and correct the errors, if the error persist after a second attempt a third attempt will be made.

If after a third attempt all the errors have not been corrected the fixture will make the following determinations: 1) 3 or more errors - The fixture cannot function properly with three or more errors therefore the fixture will place itself in a stand-by mode until subsequent repairs can be made. 2) Less than 3 errors - The fixture has less than 3 errors, therefore most other functions will work properly. The fixture will attempt to operate normally until the errors can be correct by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

01Er – PAN movement error:

The yoke is not located in the default position after start-up or after a reset command. This message will appear after a fixture reset if the pan-yoke’s magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or there is a stepper motor failure (defective motor or a defective motor IC drive on the main PCB).

03Er – TILT movement error:

The head is not located in the default tilt position after start-up or after a reset command. This message will appear after a fixture reset if the tilt magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or there is a stepper motor failure (defective motor or a defective motor IC drive on the main PCB).

15. CLEANING AND MAINTENANCE

The following points have to be considered during the inspection:

1. 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.
2. There must not be any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for UV radiation leakage. Damaged rigging points or unsecured rigging could cause the unit to fall and seriously injure a person.
3. All mechanical parts and motors should not show any traces of serious wear and should rotate freely.
4. Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

Further instructions depending on installation and usage have to be adhered to by a skilled installer and any safety problems should be addressed before attempting operation.

We recommend frequent cleaning of the device. This will ensure operational longevity and crisp light output. When cleaning, please use a moist, lint-free cloth. Never use alcohol or solvents.

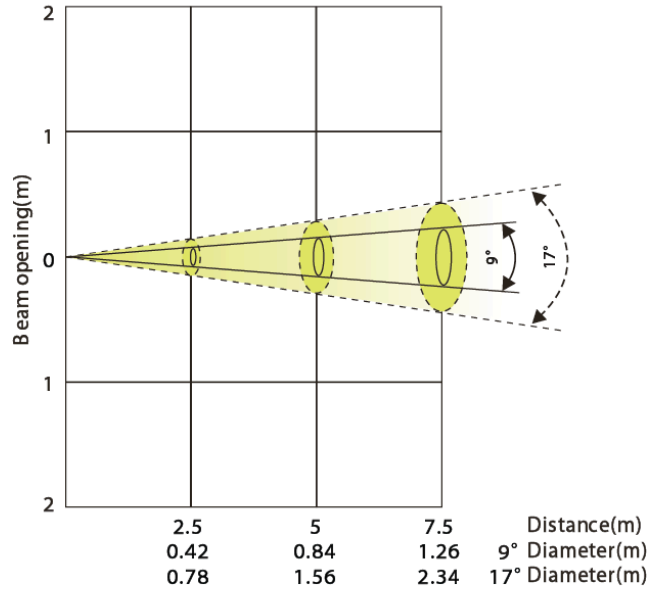
There are no user serviceable parts inside this fixture with the exception of the lamp. Please refer all other service related issues to an authorized Elation service technician.

Should you decide to service the fixture yourself please order genuine Elation parts directly from Elation.

16. PHOTOMETRIC DATA:

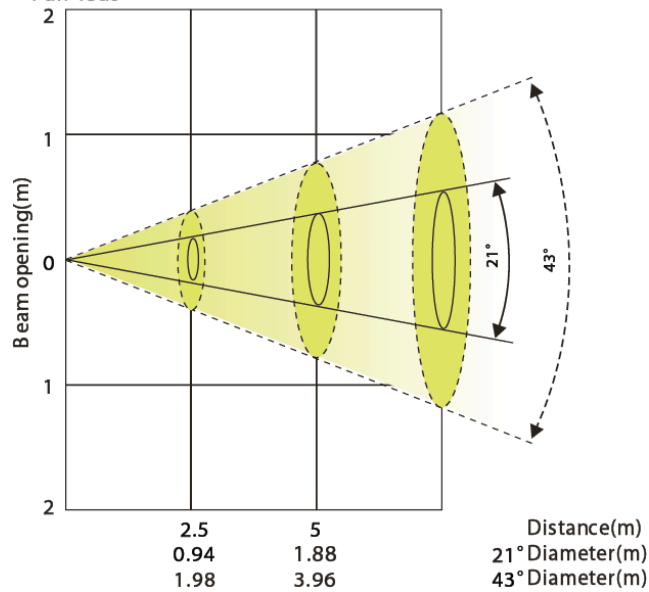
Beam angle 9°
 Field angle 17°
 Intensity LUX
 (Min.)

| | | | |
|------------|-------|------|------|
| Red leds | 3575 | 924 | 411 |
| Green leds | 7977 | 2157 | 978 |
| Blue leds | 980 | 280 | 125 |
| White leds | 11410 | 3135 | 1425 |
| Full leds | 19190 | 5290 | 2413 |

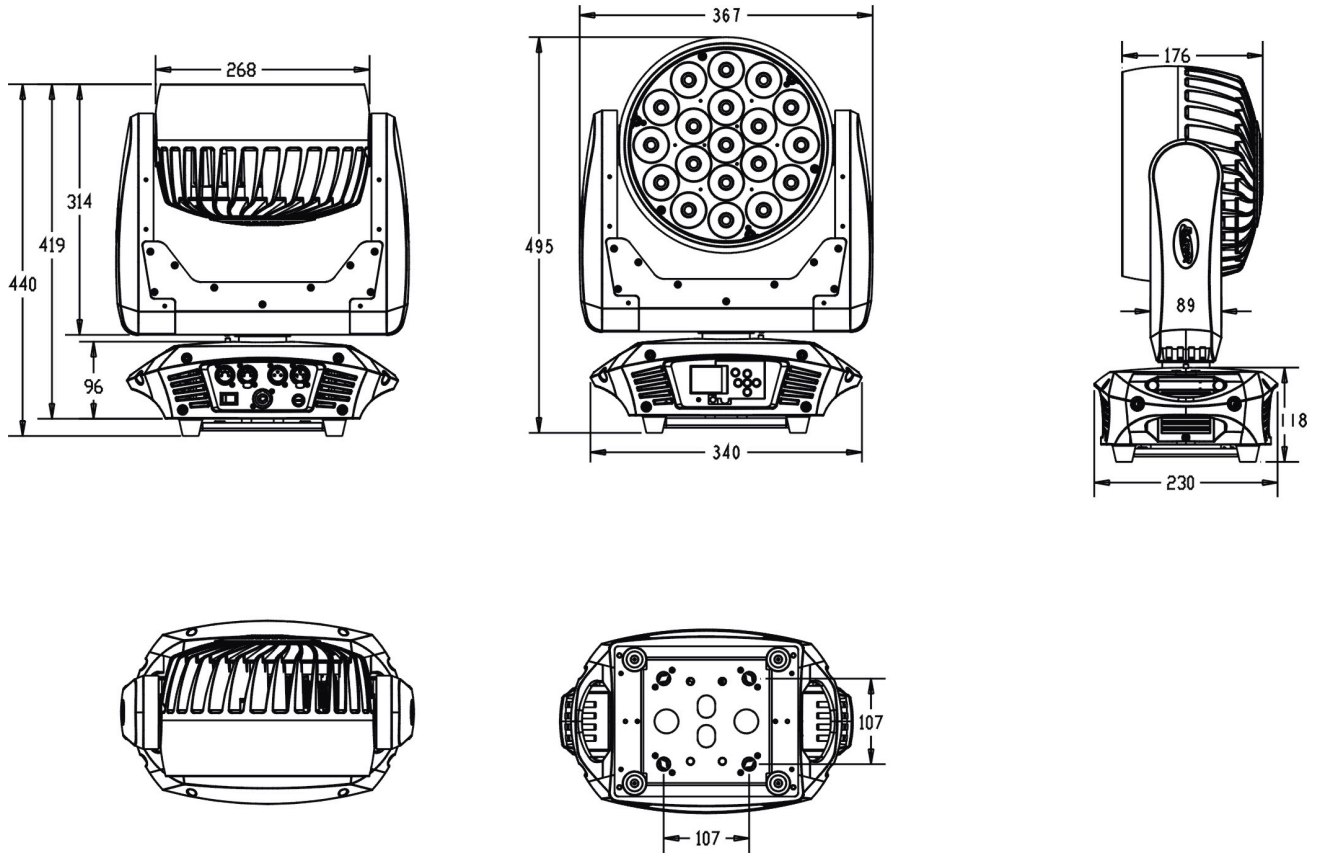


Beam angle 21°
 Field angle 43°
 Intensity LUX
 (Max.)

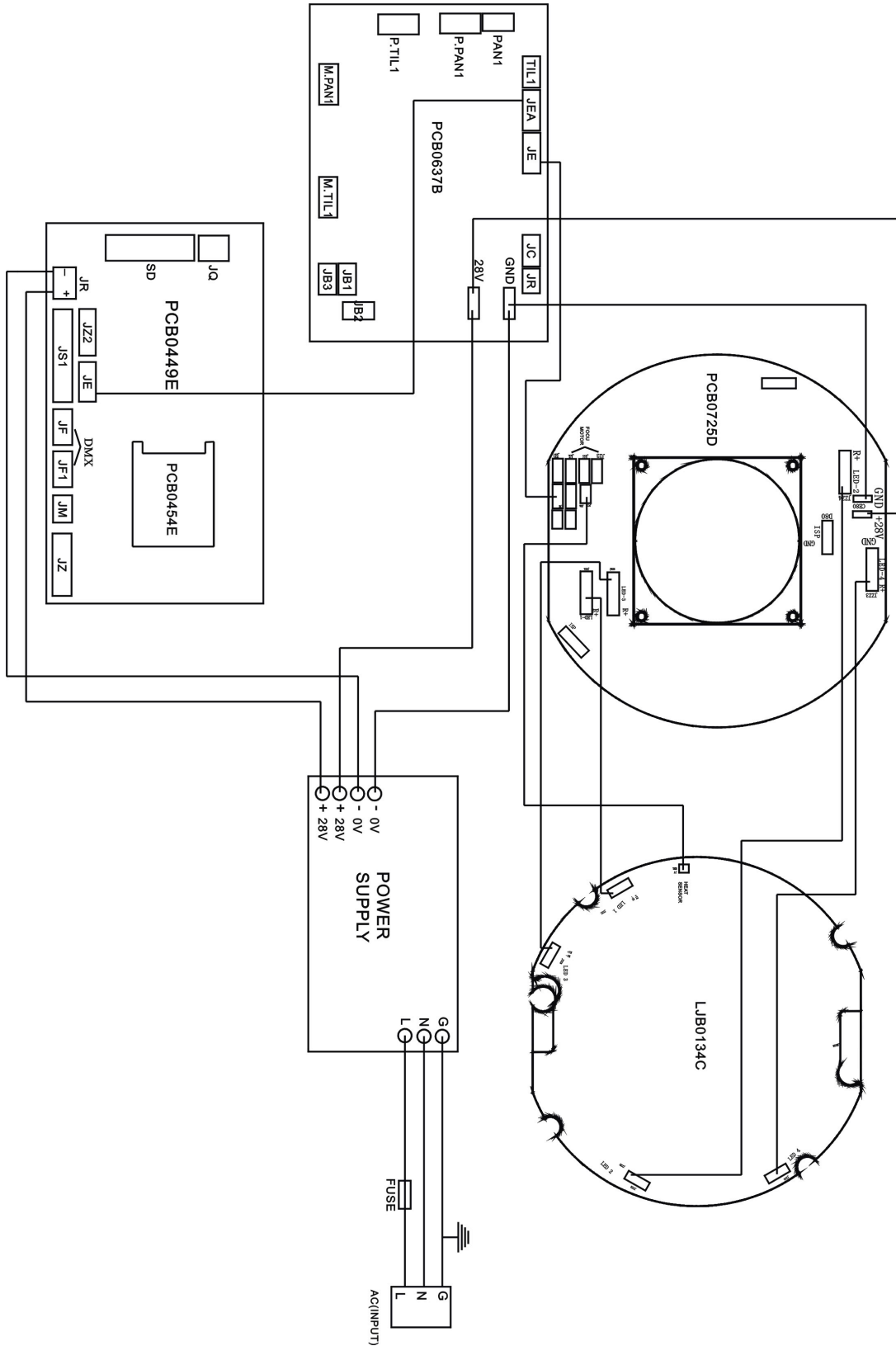
| | | |
|------------|------|------|
| Red leds | 610 | 171 |
| Green leds | 1614 | 424 |
| Blue leds | 200 | 51 |
| White leds | 2299 | 600 |
| Full leds | 3840 | 1050 |



17. DIMENSIONAL DRAWINGS:



18. CIRCUIT SCHEMATIC



19. 2-YEAR LIMITED WARRANTY

A. Elation Professional® hereby warrants, to the original purchaser, Elation Professional® products to be free of manufacturing defects in material and workmanship for a period of two years, (730 days) from the date of purchase. 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, send the product only to the Elation Professional® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional® 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, Elation Professional® shall have no liability what so ever for loss of or damage to any such accessories, nor 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 Elation Professional® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional® factory unless prior written authorization was issued to purchaser by Elation Professional®; 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 check-up. During the period specified above, Elation Professional® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional®. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that

effect.

E. Elation Professional® 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.

F. 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 Elation Professional® 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 Elation Professional® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to Elation Professional® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

20. TECHNICAL SPECIFICATIONS

| | |
|--|---|
| Power supply | |
| Voltage Requirements | AC 100 ~240V / 50Hz~60Hz |
| Fuse protection | 5A/250V, GMA (5x20mm fine-wire fuse) |
| Power Consumption | 350 Watts |
| Light Source | |
| Type | OSRAM LED LERTDUW R S2W |
| Life time | 100,000 Hours (Rated) |
| Optical | |
| 9°~21° Beam Angle (Variable) | |
| Color Mixing | |
| RGBW Additive Color Mixing, 16.7 Million Color Possibilities | |
| Shutter / Strobe / Dimmer | |
| Strobe-effect with variable speed 1 - 13 flashes per second | |
| Continuously mechanical dimmer 0 - 100% | |
| DMX Channels | |
| 32 (16bit – default) or 20 (8bit – user selectable) or 42 (16bit – user selectable) | |
| DMX Drive | |
| Standard DMX-512, 3 pole & 5 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1. Starting DMX [001]. | |
| Pan / Tilt | |
| Pan movement | 630° in max. 2.0 seconds, 16 bit resolution |
| Tilt movement | 265° in max. 1.5 seconds, 16 bit resolution |
| Weights and measures | |
| Dimensions~ Head vertical | 9.06" (W) x 14.45" (L) x 19.49" (H) (230 x 367 x 495) mm |
| Weight (net) | 15Kgs / 33.07 Lbs |
| Operating Noise Levels (Base level 46.8dB) | |
| Mode: Auto | 1m = 51.1dB |
| Mode: High | 1m = 53.1dB |
| Mode: Auto | 1m = 47db (Lamp off) |
| Fixture | |
| IP Rating | IP20 |
| Maximum Ambient Temp | 45°C |

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

FAN

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