

# Design Spot 300 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 Design Spot 300E Pro<sup>™</sup> 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 Design Spot 300E  $\operatorname{Pro}^{\mathbb{M}}$  by Elation Professional®. Every Design Spot 300E  $\operatorname{Pro}^{\mathbb{M}}$  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.

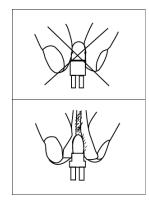
Forum:	www.ElationLighting.com/forum
E-mail:	support@elationlighting.com
Fax:	(323) 832-9142
Voice:	(323) 582-3322

*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 Design Spot 300E Pro<sup>™</sup> 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.



**DISCHARGE LAMP WARNING**: This fixture is fitted with a discharge lamp, which is highly susceptible to damage if improperly handled. Never touch the lamp with your bare hands, as the oil from your hands will shorten lamp life. Also, never move the fixture until the lamps have had ample time to cool. Remember, lamps are not covered under warranty conditions.

**UV RADIATION:** This fixture emits intense UV radiation, which is harmful to the eyes and skin. The intense luminance of the lamp can cause severe damage to the retina. Never operate this fixture with the protective covers removed, these covers have been specially designed to shield against UV radiation.

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

Avoid switching the fixture on and off repeatedly in short intervals, as this will reduce lamp life and intensity.

To achieve the intensity associated with discharge lamps, these lamps use a gas sealed in a high-pressure environment to emit a brilliant output. Due to the high pressure involved with

the construction of the lamp, the lamp may explode during prolonged extensive use. This risk is increased with age; added care is encouraged when dealing with older lamps. Thus, lamp should always be replaced at the end of their recommended duty cycle. Extreme caution should be used when operated this or any fixture fitted with a gas discharge lamp.

#### 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.

All electrical connections must performed by qualified personal.

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.

This fixture is designed for use indoors. Use of this fixture outdoors will void the manufactures warranty.

Please be aware that damages caused by manual modifications to the device are not subject to warranty.

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# 2. SAFETY INSTRUCTIONS



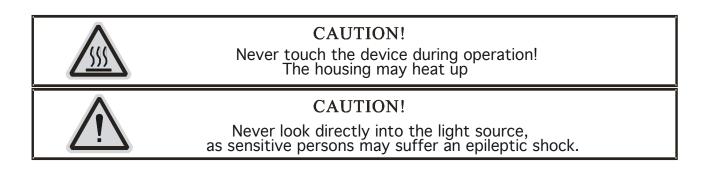
The Design Spot 300E Pro<sup>™</sup> is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. Elation will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

- 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 personnel injuries and/or damage to the fixture.
- 3. Be sure to unplug the Design Spot 300E Pro<sup>™</sup> from the power outlet before performing any service related issues.
- 4. Lamp Replacement; Allow at least 15 minutes after disconnecting main power before you open the Design Spot 300E Pro<sup>™</sup>. To prevent personal injury, never touch the lamp if you are not absolutely sure it has cooled.
- 5. Never look directly into the lamp beam. You risk injury to your retina, which may induce blindness.
- 6. Be sure to track and record the lamp running time. The lamp should be changed at the end of the specified lamp life, regardless of lamp output. You may also have to change the lamp if it shows any deformations or damage. The same is with all glass components, color filters, lenses and mirrors.
- 7. For safe operation, follow the Installation guide described in chapter two of this manual. Operating the Design Spot 300E Pro<sup>™</sup> without suited safety aids such as safety cables or clamps can increase the risk of damage and/or personal injury.
- 8. Qualified and certified personnel should only perform installation.
- 9. 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.

- 10. To reduce the risk of fire or shock, do not expose this fixture to rain or moisture.
- 11. 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 540° or 630° (User selectable) / Tilt 265°
- 3 operation mode: DMX controlled, stand alone or sound activated
- 8 user replaceable colors plus white (including UV filter)
- User selectable color change (mode 1: full colors, mode 2: split-colors)
- CMY Variable Color Mixing
- Two Gobos Wheels:
  - Rotating gobo wheel with 6 rotating gobos plus open, all gobos can be easily replaceable and gobo indexing
  - Static gobo wheel with 7 static gobos plus open with different speed gobo shaking and gobo indexing
- Strobe effect: 0~18 flashes per second or random strobe
- Prism and prism rotation, with 16 prism macros
- Frost Filter for Soft and Hard Edge Spot
- Bright Phillips MSR Gold 300/2 Fast Fit Lamp (300w / 8000K / 750Hrs / 22,000Lm)
- Dimmer intensity from 0%~100%
- Electronic Power Supply (120v/60Hz)
- 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
- Built-in Iris (5% ~ 100%), with Iris Pulse Effect
- Glass Dichroic Reflector for Even Lamp Output
- Anti-Reflective Coated Lenses
- USITT DMX-512 Complaint (3-pin and 5-pin DMX Connections)
- Electronic Zoom (16° ~ 41°)
- Electronic Focus via DMX
- Pan and Tilt Locking System
- 8 User Assignable Program Presets Internal Program: Edit and save programs to the incorporated EEPROM. Maximum of 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 be sure to use mounting hardware 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. LAMP INSTALLATION INSTRUCTIONS

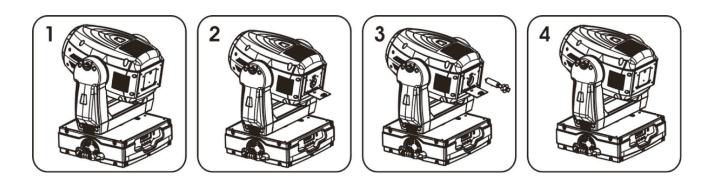
## Installing or replacing the lamp

For a proper and safe lamp change, please read this chapter carefully and follow all instructions.

## Safety Regulations

- Disconnect the unit's main power supply.
- Allow the unit to cool for at least 10 minutes before attempting any type of service.
- Before the Design Spot 300E Pro<sup>™</sup> is put into operation be sure all covers have been replaced, otherwise you risk damage to the retina and expose to UV radiation!
- When replacing an old lamp always be sure to replace with an approved replacement. Be sure the replacement lamp meets or exceeds the original lamp specifications, failure to do so may damage the fixture and void the manufactures warranty. Be sure to follow all the lamp handling procedures included with the new lamp. Never handle the new lamp with your bare hands as the oils from your skin may damage the lamp and cause premature lamp failure.

## Installation Procedure:



- 1. Set the fixture on a flat surface and turn the <sup>1</sup>/<sub>4</sub>" turn locking screw counter-clockwise until they unsecured.
- 2. Flip down the lamp cover to access the lamp.

- 3. Gently remove the old lamp by grasping the ceramic base and turning it counter-clockwise until it is loose.
- 4. Insert the new lamp securely, locking the lamp by turning it clockwise until it locks in place. Before reassembling the unit, be sure the new lamp is securely seated in the lamp socket. Always be sure to only use specified lamp types! (MSR 300/2 FastFit).
- 5. Once the lamp has been inserted and secured into the socket, follow the lamp optimization instructions outlined below, then lock the lamp cover back in to place by turning the <sup>1</sup>/<sub>4</sub>" turn locking screws clockwise.
- 6. Reset the lamp run time in the system menu.
- 7. Always be sure to optimize the lamp after lamp replacement.



CAUTION! Do not operate this device with open cover

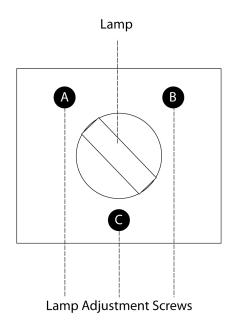
#### Lamp Optimization

The lamp orientation and optimization must be adjusted after every lamp change. This procedure centers the lamp in the reflector. Proper optimization will increase lamp life and ensure a bright crisp output. Improper optimization may add a yellow tint to the lamp output and reduce intensity. The minimum deviation amount is 1.0mm. Running the fixture within a lower deviation can cause damage to the lamp and/or lens.

The **Design Spot 300E Pro**<sup>™</sup> lamp holder is aligned at the factory. However, due to slight imperfections in all lamps, fine adjustments will improve light performance. Please follow the procedure below for proper lamp optimization:

- 1. Using a DMX controller or the control panel on the unit, strike the lamp and focus the light on a flat surface (beam open, white, no gobo, no effect).
- 2. Center the hot-spot (the brightest part of the beam) using the 3 adjustment screws located under the lamp cover labeled A, B, and C as illustrated on the next page. Turn one screw at a time to drag the hot-spot diagonally across the projected image. If you cannot detect a hot-spot, adjust the lamp until the light is even.

3. To reduce a hot-spot, pull the lamp in by turning all three screws clockwise a 1/4-turn at a time until the light is evenly distributed.



Please remember that a MSR GOLD 300/2 lamp is not a hot-restrike lamp therefore, you must wait approximately 15 minutes before you can attempt to strike the lamp once it has been turned off.

# 6. MOUNTING AND INSTALLATION

## Cautions:

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

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.

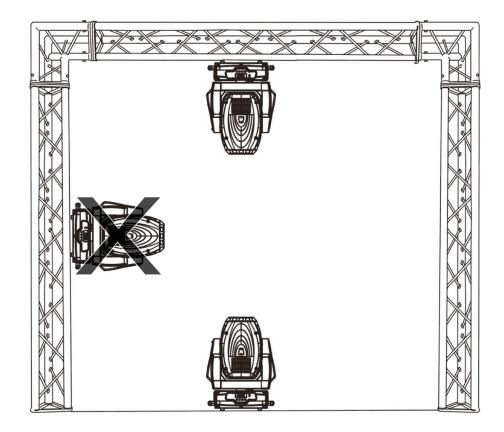


Caution! When install the fixture be sure there is no highly inflammable material within a distance of 1.5 feet

## Mounting

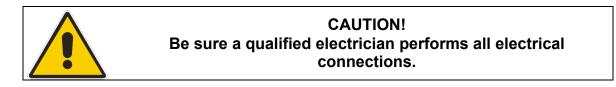
The Design Spot 300E Pro<sup>™</sup> is fully operational in two different mounting positions, hanging upside-down from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.





#### 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.

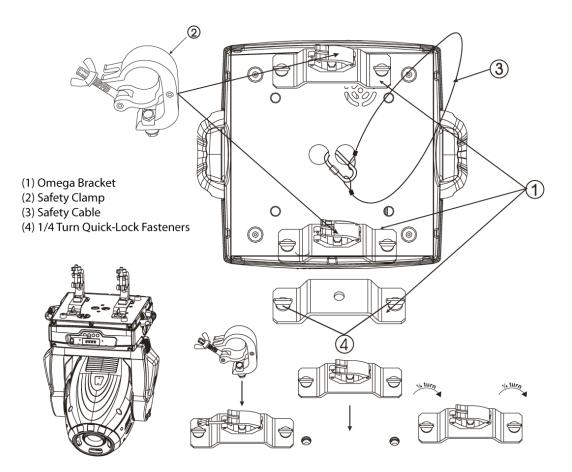


Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

#### **Clamp Mounting**

The Design Spot 300E Pro<sup>™</sup> 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 Design Spot 300 Pro™

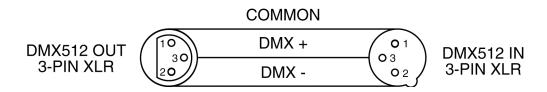
Regardless of the rigging option you choose for your DESIGN SPOT 300 Pro<sup>™</sup> always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

## 7. UNDERSTANDING DMX

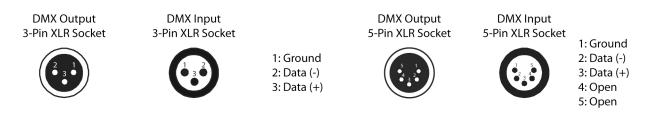
**DMX-512:** DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. DMX allows all makes and models of different manufactures to be linked together and operate from a single 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 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 Design Spot 300 Pro<sup>™</sup> can be controlled via DMX-512 protocol. The Design Spot 300 Pro<sup>™</sup> is a 22 channel DMX fixture (22 default, can also be 20 or 33). 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 on the next page 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  $4^{TM}$  or DMX Branch/ $4^{TM}$ .

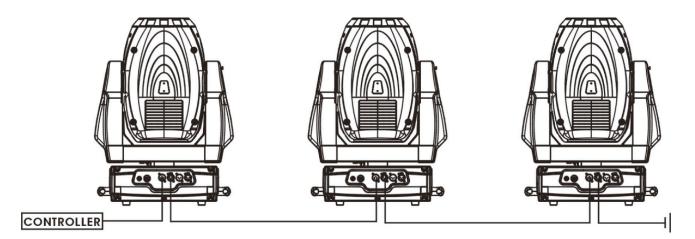


Be sure to follow the above figure when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit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



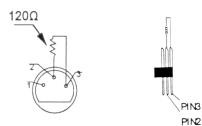
#### DMX-512 control connection

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  $4^{TM}$  or DMX Branch/ $4^{TM}$ .



#### 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 base 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 you 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 Design Spot 300  $Pro^{TM}$ , which is a 22 channel fixture (default), you should set the starting DMX address of the first unit to 1, the second unit to 23 (22 + 1), the third unit to 45 (22 + 23), and so on.

**Note:** During start-up the Design Spot 300 Pro<sup>™</sup> will automatically detect whether a DMX data signal is being received or not. If DMX data signal is being received, the display will show **"Address 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 Design Spot 300 Pro<sup>™</sup> 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 base of the fixture allows you to access the main menu and make all necessary adjustments to the **Design Spot 300 Pro<sup>TM</sup>**. 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 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.

## Default settings shaded.

	Set DMX Address	A001~AXXX	DMX address setting
ion e	Value Display	PAN	DMX value display
Function Mode	Set To Slave	Slave1,Slave2,Slave3	Slave setting
	Auto Program	Master / Alone	Auto program
	Music Control	Master / Alone	Music control

	<b>_</b> , , ,		. —:		· · · · · · · · · · · · · · · · · · ·	
Information	Time Information		irrent Time	XXXX(Hours)	Power on running time	
		Total Life Hours		XXXX(Hours)	Fixture running time	
		Last Run Hours		XXXX(Hours)	Fixture Last times clear	
			mp Hours	XXXX(Hours)	Lamp running time	
			mp Off Time	XXXX(Minute)	Lamp off time	
		Tir	ner Password	Password=XXX	Timer Password 038	
		Cle	ear Last Run	ON/OFF	Clear Fixture Last time	
		L-Timer Password		Password=XXX	Lamp Password	
					Code="038"	
		Cle	ear Lamp Time	ON/OFF	Clear lamp time	
	Temperature Info		ad Temperature	XXX C°/F°	Temperature in the head	
	Software Version	Ve	r1.1	Software version of each		
				IC		
	Lamp On or Off		ON/OFF		Lamp on/off	
	Automatic La-On		ON/OFF		Lamp on/off when Power	
otro	Lamp On Via DM	Х	ON/OFF		on	
_amp Control	Lamp Off Via DM	Х	ON/OFF		Lamp on via DMX	
du	Lamp Off No DM>	ĸ	OFF, 0FF~19M		Lamp off via DMX	
Lar	Lamp On at Temp	).	20~79 C°,45C° /68	3~174F° 113F°	Lamp off if no DMX	
	Lamp Off at Temp	).	. 80~139C°, 130C° /176~282F°, 266F°		Lamp restart at temp.	
					Lamp off at temp.	
	Status Settings	Add	lress via DMX	ON/OFF	Change address via	
					controller	
		No DMX Status		Close/Hold/Auto/Music	Operation mode with no	
					DMX	
		Pan Reverse		ON/OFF	Pan Reverse movement	
		Tilt Reverse		ON/OFF	Tilt Reverse movement	
		Pan Degree		630/540	Pan Degree Select	
		Feedback		ON/OFF	Movement Feedback	
		Movement Speed		Speed 1~ 4	switch	
>		Mic Sensitivity		0~99%	Movement Mode Select	
alit					Sensitivity of Mic.	
Personality	Service Setting	Ser	vice Password	Password=XXX	Service Code"=050"	
Jer.		Fan Voltage		High/Low	Fan Voltage Select	
		Gobo Speed		Quick/Slow	Gobo Change Speed	
	Fans Control	Auto Fans Speed			Fans Speed Mode Select	
		High Fans Speed				
		Low	/ Fans Speed			
	Display Setting	Shu	Itoff Time	Display shutoff time		
	Temperature	Cel	Celsius		Temperature switch	
	C/F	Fah	renheit	between C°/F°		
	Initial Effect		PAN PAN =XXX		Initial effect position	
	Wireless DMX		De-Act WDMX		De-activate WDMX	
			vate WDMX		Activate WDMX	
	©Elation Professional Los Angeles Ca 22				Activate WDMX	

		Act & Data Out Rest WDMX Memory			Act & Data Out Reset Wireless DMX Memory	
	Reset Default	Reset Default ON/OFF				Restore factory set.
	Reset All					Reset all motors
L	Reset Pan & Tilt		Reset Pan/Tilt Motors			
Reset Function	Reset Colors		Reset All Color Motors			
	Reset Gobos		Reset gobos			
etF	Reset Shutter		Reset shutter and/or			
Ses	Reset Others		dimmer			
			Reset other motors			
	Test Channel	PAN	Test function			
st	Manual Control	PAN		PAN =XXX		Fine adjustment of the
٧dju				· ·		lamp
Effect Adjust	Calibrate Values	· Password	Password=XXX		=XXX	Calibrate and adjust
Effe		Color wheel:		Color wheel=XXX:		motors and wheels (Pass
-	Color wheel.					code "050")
	User Mode	Standard Mode				User's mode to change
et		Basic Mode				channel numbers
e Set		Extended Mode				
lode		User Mode A				
S ∑		User Mode B				
Users Mode		User Mode C	1			
	Edit User Mode	Max Channel	Max Channel = XX		(X	Preset User modes
		PAN:		= CH01		
	Select	Auto Pro Part 1		ram 1 ~ 10	Program 1	Select programs to be run
	Programs	Auto Pro Part 2	•	ram 1 ~ 10	Program 2	
		Auto Pro Part 3		ram 1 ~ 10	Program 3	
c	Edit Program Program 1 :		-	ram Test	("STEP XX")	Testing program
Jran			Step 01=SCxxx			Program in loop
Edit Program		Program 10	Step 64=SCxxx			Save and exit
lit P	Edit Scenes	Edit Scene 001		Tilt,	Pan=xxx	Save and automatically
Ш				cne Time	TIME=xx.xs	return manual scenes edit
		250				
			Input By			Allows use of an external
			Outs	ide		DMX controller.
	Rec. Controller	XX~XX	Automatic scene recorder			

## 8.1 Function Mode:

**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 for 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 9/Page 33 of this user manual.

#### 8.1.2 "Value Display" - 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 "Set to Slave" - 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 Music 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 none destructive and will remain in the fixtures memory indefinitely.

## **Total Lamp Time**

This function tracks the total number of lamp running hours. Where "XXXX" represents the number of hours the lamp has been running. This counter should be reset after every lamp change.

## Lamp Off Time

This function displays the running time of the lamp from the last power on. The display shows "XXXX", where "XXXX" represents the number of hours the lamp has been running since it was last struck. This counter is automatically reset after every power-on.

## Clear Lamp Time

This function resets the lamp "ON" time to zero. Please reset the lamp "ON" time at every lamp replacement. This procedure tracks the lamp running time so the lamp can be replaced at the end of it's recommended duty cycle.

- Select "Clear lamp time" in the system menu.
- The LCD will display "ON" or "OFF." Were "ON" will reset the lamp time.

- Press enter to confirm.
- Press the Mode/Esc-button to return to the main menu.

#### 8.2.2. Temperature Info.

This function will detail the internal head temperature in either Celsius or Fahrenheit.

#### 8.2.3. Software version

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

- Select "Software Version" 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 Lamp Control:

## 8.3.1 Lamp On or Off

This function allows manual control of the lamp power via the on-board system menu.

- Select "ON" if you wish to strike the lamp or "OFF" to switch it off.
- Press "ENTER" to confirm.
- Press the Mode/Esc-button to return to the main menu.

## 8.3.2 Automatic La-On

When in the "ON" position, this function will automatically turn the lamp on when power is applied to the fixture

## 8.3.3 Lamp On Via DMX

When engaged, this function will allow the lamp to be switched "on" via a DMX controller. Select "**ON**" to enable this function or "**OFF**" to disable it.

#### 8.3.4 Lamp Off Via DMX

When engaged, this function will allow the lamp to be switched "off" via a DMX controller. Select "**ON**" to enable this function or "**OFF**" to disable it.

#### 8.3.5 Lamp Off No DMX

When engaged, this function will automatically switch the lamp "off" when the fixture loses a DMX signal. The function can be set with a delay time of 1 ~ 19 minutes. To disable this function select "**OFF**" in the system menu. To enable this function select "XX M" Where XX represents the hold time before lamp shut down.

#### 8.3.6 Lamp On at Temp.

The fixture is designed to shut the lamp off when an excessive temperature is sensed inside the head by the on-board CPU. The lamp is shut down to prevent damage to the lamp and avoids possible internal damage to the head. This function sets the minimum temperature for lamp restrike after the lamp has been automatically shut off.

#### 8.3.7 Lamp Off at Temp.

The fixture is designed to shut the lamp off when an excessive temperature is sensed inside the head by the on-board CPU. The lamp is shut down to prevent damage to the lamp and avoids possible internal damage to the head. This function sets the maximum internal operating temperature of the head before the lamp will automatically be shut down. This function can be set to activate at an internal temperature between 80° C and 139° C. Inside temperatures below 90° C are not critical. Temperatures above 90° C should lead to the lamp being switched off. Please note that the outside temperature should not exceed 45° C.

#### 8.4 Personality:

#### 8.4.1 Status setting

**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 33 of this manual "Remote DMX addressing."

**No DMX Status –** This function dictates how the fixture will function if it looses 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 flags will close. "Hold" – Fixture will remain at it's last settings. "Auto" – Fixture will go into stand-alone mode, running the built-in program. "Music" – 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.

**Fine Resolution –** This function changes the DMX channel operation from 8bit (14 channels) to 16bit (16 channels). This function is "on" by default, which allows for the "Pan Fine" and "Tilt Fine" channels to be accessed. When this function is turned off the fixture will operate without access to the "Pan Fine" and "Tilt Fine" DMX channels, thus reducing the overall DMX channels needed to operate the unit to 14.

**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.

**Dimmer Speed –** This function changes the functionality of the dimmer shutters from a slower speed to a faster speed. This function is set to "Slow" as default to support and match the slower speed of the first generation Design Spots. If this fixture will not be mixed with older generation Design Spots this setting may be changed to quick to allow for more dramatic dimmer operation.

**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. Use this function intergrading Design Spot 300 Pro into lighting rigs that included Design Spot 250s. 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 DS-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%.

**8.4.2 Service Settings –** These adjustments and settings should only be performed by a technician familiar with the functionality of professional lighting fixtures. Incorrect setting of these functions may result reduced performance or damage to the fixture.

*Service Password:* The correct password must be entered before attempting wheel calibration, changing fan voltage, or changing the gobo speed.

Fan Voltage: This function will change the fan voltage from either "Low" or "High."©Elation Professional, Los Angeles Ca.29www.ElationLighting.com

Low will send normal voltage to the fan, for normal operation. High will send slightly higher voltage to fans that allows the fans to operate at higher than normal speeds. This setting should only be used in extreme cases of higher than normal temperatures. Using the fans in "HIGH" mode will decrease fan life over time. Low is the default setting.

*Gobo Speed:* This function will change the speed at which the gobo wheel moves. This function allows Design Spot 300 Pros and Design Spot 250s to be implemented together in the same rig. There are two different settings, "Quick" and "Slow." Slow will move the gobo wheel at a speed that matches the first generation Design Spot 250. The "Quick" setting will advance the wheel at a new, faster rate than the original Design Spot 250. "Quick" is the default setting.

8.4.3 Fans Control - This function is used to change the functionality of the internal cooling fans. The available selections are: 1) "AUTO" – The fans will automatically switch between low and high speeds depending on the internal operating temperature. 2) "HIGH" – The fans will run in high-speed mode regardless of operating temperature. 3)
"LOW" – The fans will remain in low speeds regardless of internal operating temperature.

**8.4.4 Display Settings –** 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 time delay the fixture will before it turns off. This function is disabled as default.

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

**8.4.6 Initial effect –** 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.

**8.4.7 Wireless DMX –** This function will control all aspects of the build-in wireless DMX receiver. See page 38 for detailed operating instructions.

**8.4.87 Restore Default –** This function is used to restore the factory settings of the device. All settings will be set back to the default values (shaded). Any edited scenes will be lost.

**8.5 Reset Functions:** 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.

- > Reset All: This function will reset all internal motors to the home position.
- Reset Pan and Tilt: This function will only reset the pan and tilt motors to the home position.
- > **Reset Colors:** This function will only reset the color wheel to the home position.
- **Reset Gobos:** This function will only reset the gobo wheels to the home position.
- **Reset Shutter:** This function will only reset the blackout shutter to the home position.
- Reset Others: This function will reset all other motors not associated with any in the previously listed reset commands to the home position.

#### 8.6 Effect Adjust:

- 8.6.1 **Test Channel –** This menu function allows the user to select each individual fixture channel and test it's function independently from the control board.
- 8.6.2 Lamp adjustment (manual control) This function readies the fixture for lamp optimization in a simple single step procedure. This function will center the pan and tilt motors and at the same time 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. For more information on lamp optimization please see Section 5/Page 12.

8.6.3 Calibrate values – This function should only be performed by a qualified technician. This function allows a user to make small adjustments to the effect wheels (color, gobo, shutter, etc) to compensate for ware or in the event a sensor has been knocked slightly out of place. Because improper use of this function can result in undesired operation this function has been password protected. The password is 050 and must be entered each time the calibration menu function is entered. 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.

#### 8.7 User Mode Set:

- 8.7.1 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.
- 8.7.2 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.
- 8.8EDIT 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 37.
- 8.8.1 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."
- 8.8.2 Edit program This function allows the user to edit the built-in programs.
- 8.8.3 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
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step.

8.8.4 **Rec Controller -** The Design Spot 300 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 in to the fixture's built-in memory and then subsequently used to create the user-defined programs.

## 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 "Address=XXX." Tap the enter button to make changes to the address.
- 2. While the display 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. This function may be turned on and off, and is "ON" be 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. Press ENTER and be sure the function is turned on.
- 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.
- 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. OPERATION**

**Operating Modes**: The Design Spot 300 Pro<sup>™</sup> can operate in six different modes. This next section will detail the differences in the operating modes.

• **Auto Program Mode (Master)** - The fixture will chase through the built-in programs, sending a DMX control signal to all other fixtures connect via DMX cables instruction for a synchronized light show.

• *Auto 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.

• *Music 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.

• *Music 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 (Auto Program or Music Control): 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 when linking several Design Spot 300 Pro 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 slave fixture a designation (Slave 1, Slave 2, Slave 3...etc).
  - 10.3 Universal DMX Control: This function allows you to use a universal DMX-512 controller such as the Elation® Show Designer 2<sup>™</sup> or Elation® Show Designer 3<sup>™</sup> 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 Design Spot 300 Pro<sup>™</sup> uses 21 DMX channels. See page 41 for detailed description of the DMX traits. To control your fixture in DMX mode, follow the set-up procedures on pages 18-20 as well as the set-up specifications that are included with your DMX controller. Use the controller's faders to control the various DMX fixture traits. This will allow you to create your own programs.
    - Follow the instruction on page 23 to set the DMX address.
    - Be sure to use a terminator on the last fixture, especially for longer cable runs (more than a 100 feet).
    - For help operating in DMX mode consult the 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 a scene 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 21 of the channel's DMX traits.
  - "PAN" pan movement.

- "PAN-Fine" precision pan movement.
- "TILT" tilt movement.
- "TILT-Fine" precision tilt movement
- "Move Speed" adjust pan and tilt motor speed
- "Gobo Wheel 1" select gobos from gobo wheel 1
- "Gobo Rot. 1" adjust gobo 1 indexing or rotation
- "Gobo Wheel 2" select a gobo from gobo wheel 20
- "Prism" select a prism, prism macro, or frost
- "Prism Rot." adjust the prism indexing or rotation
- "Color Speed" adjust the CMY mixing speed
- "Color Macro" select a built-in color mixing macro
- "Cyan" adjust the cyan flag value
- "Magenta" adjust the magenta flag value
- "Yellow" adjust the yellow flag value
- "Color Wheel" select a color from the color wheel
- "Iris" adjust the iris value
- "Focus" adjust the focus value
- "Strobe" adjust the strobe
- "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 now two selections, "Master" and "Alone." Select "Master" when running multiple fixtures in a master/slave configuration. See section 10.2 "Master/ Slave Operation" on page 36 for proper set-up instructions. Select "Alone" when running a single fixture or when multiple fixtures in stand-alone mode. See section 10.1 "Stand-Alone Operation" on page 35 for proper set-up instructions.

# 12. USING THE BUILT-IN WIRELESS DMX SYSTEM

The Design Beam 1200C comes equipped with an Elation Wireless DMX Receiver built-in. This receiver is fully compatible with your existing Elation Wireless DMX System.

## 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 paring is unsuccessful repeat the process until the paring 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:

- 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 indictor 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 as least 5 seconds. This will automatically clear the link between the transmitter and any fixture that is powered on. All WDMX indictors will glow solid red if the procedure was successful.

#### 12.4 WDMX Indicators:

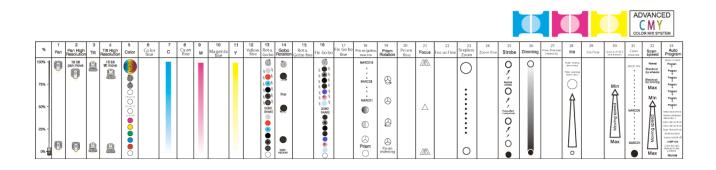
- 1) Rapid flashing Red/Green: Syncing in to a transmitter.
- Slow flashing Red/Green: Paired with a transmitter. Transmitter is not receiving a DMX signal from a controller.
- 3) Solid Green: Paired with a transmitter and receiving DMX data.
- 4) Solid Red: Not paired with a transmitter (free)

## **13. DMX CHANNEL TRAITS:**

The chart below details the channel layout for 22 DMX channels (default).

In 8bit mode the "Pan Fine" and "Tilt Fine" channels are not used, thus converting the fixture into a 20-channel DMX fixture. In extended mode the fixture will use 33 DMX channels (second chart).

																D		D		D	C	
%	1	2 Pan High	3	4 Tilt High	5	6	7	8	9 Ro ta.	10 Gobo	11	12 Prism/gobos	13 Prism	14	15 Stepless	16	17	18	19	20 Color	21 Scan	22 Auto
	Pan	Pan High Resolution	Tilt	Tilt High Resolution	Color	С	м	Y	Gobo	Rotation	FIX G 000	macros	Rotation	Focus	Zoom	Strobe	Dimming	Iris	Spe ed of CM Y and dimmer	macros	speed	Program
100% -	P	16 bit pan move		16 bit tilt move					() () ()	Ò	۵ ۱	MARCO16			$\bigcirc$	0	0	Puis e clo sing slow to fast Puis e opening		MACRO3 0	Normal Blackout by wheels	Music Control Program 7 Program
75% -		P			ð				505 505	9		MARCOB	Q			RANDOM		fast to slow			Blackout	6 Program 5 Program
										Stop	8 🔘 8 8 🏀 8				:	0		$\mathbf{\Lambda}$	Min		Max Min	4 Program 3 Program
50% -					(30.360K				GOBO SHAKE	9	gobo SHAKE	MARCO1	$\odot$			y Pulse-effect		Π	pee	MARCOB	$\widehat{\mathbf{A}}$	2 Program 1 Other Motor Re st
									SHAKE				Ø			0			ving sp	-	peeds	Shutter &Dimmer Motor Rest Goloos Motor Rest
25% -															:	1			Ŵ		Moving sp	Colors Motor Rest Scan Motor Rest All Motor Rest
0%-	P	P			0					GOBO INDEXING		Prism	Prism indexing		0	0		0	Max	MARCO1	Max	Lamp switch off LAMP ON Col or & Gobo change to a ny position Normal



# DMX channel function and values:

Mod	le/Cha	nnel	Value	Function
St	Ва	Ex		
4	4	4		Pan Movement 8bit:
1	1	1	0-255	Pan Movement (630°/540°)
•		•		Pan Fine 16bit
2		2	0-255	Fine control of Pan movement
•	•	•		Tilt Movement 8bit:
3	2	3	0-255	Tilt Movement (260°)
4		4		Tilt Fine 16bit
4		4	0-255	Fine control of Tilt movement
				Color Wheel:
			0-13	Open / white
			14-27	Color 1
			28-41	Color 2
			42-55	Color 3
			56-69	Color 4
5	3	5	70-83	Color 5
			84-97	Color 6
			98-111	Color 7
			112-127	Color 8
			128-189	Clockwise rainbow effect from fast to slow
			190-193	No rotation
			194-255	Counter-clockwise rainbow effect from slow to fast
		6		Color Wheel Fine:
		0	0-255	Color change to any position
6	4	7		Cyan Color:
0	4	'	0-255	Cyan (0-100%)
		8		Cyan Color Fine:
		0	0-255	Cyan Fine
7	5	9		Magenta Color:
1	5	3	0-255	Magenta (0-100%)
		10		Magenta Color Fine:
		10	0-255	Magenta Fine
8	6	11		Yellow Color:
0			0-255	Yellow (0-100%)
		12		Yellow Color Fine:
			0-255	Yellow Fine
9	7	13		Gobo Wheel 1(Rotating):
			0-9	Open
			10-19	Gobo 1

			20-29	Gobo 2
			30-39	Gobo 2 Gobo 3
			40-49	Gobo 3 Gobo 4
			40-49 50-59	Gobo 4 Gobo 5
			60-69	Gobo 6
			70-89	Gobo 1 shake slow to fast
			90-109	Gobo 2 shake slow to fast
			110-129	Gobo 3 shake slow to fast
			130-149	Gobo 4 shake slow to fast
			150-169	Gobo 5 shake slow to fast
			170-189	Gobo 6 shake slow to fast
			190-255	Clockwise gobo wheel rotation, slow to fast
				Gobo Indexing/Rotating (Coarse):
			0-127	Gobo indexing
10	8	14	128-189	Forwards gobo rotation from fast to slow
			190-193	No rotation
			194-255	Backwards gobo rotation from slow to fast
		15		Gobo Indexing (Fine):
		15	0-255	Fine indexing
				Gobo Wheel 2 (Fixed):
		-	0-13	Open/hole
			14-27	Gobo 1
			28-41	Gobo 2
			42-55	Gobo 3
			56-69	Gobo 4
			70-83	Gobo 5
			84-97	Gobo 6
11	9	16	98-111	Gobo 7
			112-127	Gobo 1 shake slow to fast
			128-143	Gobo 2 shake slow to fast
			144-159	Gobo 3 shake slow to fast
			160-175	Gobo 4 shake slow to fast
			176-191	Gobo 5 shake slow to fast
			192-207	Gobo 6 shake slow to fast
			208-223	Gobo 7 shake slow to fast
			224-255	Gobo wheel rotation from slow to fast
			22:200	Fixed Gobo Indexing Fine
		17	0-255	Fixed gobo Fine indexing
12	10	18	0 200	Prism / Gobo Macros:
14	10	10	0-31	Open
			32-63	Prism 1 – 3-Facet
			64-95	Prism 2 – 5-Facet
			96-127	Prism 2 – 5-racet Prism 3 - Infinite
			90-121	

			128-135	Macro 1
				Macro 1 Macro 2
			136-143	
			144-151	Macro 3
			152-159	Macro 4
			160-167	Macro 5
			168-175	Macro 6
			176-183	Macro 7
			184-191	Macro 8
			192-199	Macro 9
			200-207	Macro 10
			208-215	Macro 11
			216-223	Macro 12
			224-231	Macro 13
			232-239	Macro 14
			240-247	Macro 15
			248-255	Macro 16
				Prism Indexing/Rotation:
			0-127	Prism indexing
13	11	19	128-189	Clockwise Prism Rotation from fast to slow
			190-193	No rotation
			194-255	Counter-Clockwise Prism Rotation from slow to fast
		20		Rotating Prism indexing Fine
		20	0-255	Fine indexing
14	10	04		Focus:
14	12	21	0-255	Continuous adjustment from near to far
		22		Focus Fine:
		22	0-255	Continuous adjustment Fine
45	10	22		Zoom:
15	13	23	0-255	Zoom adjustment from small (16°) to large (41°)
		24		Zoom Fine:
		24	0-255	Zoom adjustment Fine
				Shutter, strobe:
			0-31	Shutter closed
			32-63	No function (shutter open)
			64-95	Strobe effect slow to fast
16	14	25	96-127	No function (shutter open)
			128-159	Pulse-effect in sequences
			160-191	No function (shutter open)
			192-223	Random strobe effect slow to fast
			224-255	No function (shutter open)
				Dimmer intensity:
17	17 15	26	0-255	Intensity 0 to 100%
		27	0 200	Fine Dimmer intensity:
		- 1		

			0-255	Dimmer intensity fine
				Iris:
40	40	~~~	0-191	Maximum diameter to minimum diameter
18	16	28	192-223	Pulse opening fast to slow
			224-255	Pulse closing slow to fast
		00		Iris Fine:
		29	0-255	Iris Fine
10	47	20		CMY & Color Macro Speed:
19	17	30	0-255	Speed maximum to minimum
				Pan/Tilt Movement Speed:
			0-225	Max to min speed
20	18	31	226-235	Blackout with movement
			236-245	Blackout when any internal wheel changes position
			246-255	No function
21	19	32		Color macros - CMY and color wheel:
			0-7	OFF
			8-15	Macro1
			16-23	Macro2
			24-31	Macro3
			32-39	Macro4
			40-47	Macro5
			48-55	Macro6
			56-63	Macro7
			64-71	Macro8
			72-79	Macro9
			80-87	Macro10
			88-95	Macro11
			96-103	Macro12
			104-111	Macro13
			112-119	Macro14
			120-127	Macro15
			128-135	Macro16
			136-143	Macro17
			144-151	Macro18
			152-159	Macro19
			160-167	Macro20
			168-175	Macro21
			176-183	Macro22
			184-191	Macro23
			192-199	Macro24
			200-207	Macro25
			208-215	Macro26
			216-223	Macro27

	1			
			224-231	Macro28
			232-239	Macro29
			240-247	Macro30
			248-255	Random CMY
				Lamp on/off, reset, internal programs:
			0-19	Color and gobo change normal
			20-29	Color change to any position
			30-39	Color and gobo change to any position
			40-59	Lamp on via console
			60-79	Lamp switch off via console
			80-84	All motor reset
			85-87	Scan motor reset (pan & tilt)
			88-90	Color motor reset (CMY & Color wheel)
~~~	20	22	91-93	Gobo motor reset (All gobo related motors)
22	20	33	94-96	Shutter & Dimmer motor reset
			97-99	Other motor reset
			100-119	Internal program 1 (secne1~8 of EEPROM)
			120-139	Internal program 2 (secne9~16 of EEPROM)
			140-159	Internal program 3 (secne17~24 of EEPROM)
			160-179	Internal program 4 (secne25~32 of EEPROM)
			180-199	Internal program 5 (secne33~40 of EEPROM)
			200-219	Internal program 6 (secne41~48 of EEPROM)
			220-239	Internal program 7 (secne49~56 of EEPROM)
			240-255	Music Control (Program 1)
L			270 200	

## 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" were as XX will represent a motor function. For example, when the display shows "Pan-ER," it means there is some type of error with the pan 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 3, and channel 5 all at the same time, you will see the error message "Pan-Er", "Tilt-Er," and "Color-Er" 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 error, 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.

#### 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).

#### 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).

#### Color-wheel error:

The color wheel 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 color wheel'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).

#### Cyan Color error:

(Cyan Color-wheel error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its drive circuit on the main PCB). The Cyan Color wheel is not located in the default position after the reset.

#### Magenta Color error:

(Magenta Color-wheel error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its drive circuit on the main PCB). The Magenta Color-wheel is not located in the default position after the reset.

#### Yellow Color error:

(Yellow Color-wheel error) This message will appear after the reset of the fixture and if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The Yellow Color -wheel is not located in the default position after the reset.

#### Rotating gobo-wheel error:

The gobo-wheel 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 gobo wheel'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).

#### Rotating gobo indexing error:

The gobo 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 gobo positioning 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).

#### Fix Gobo-wheel error:

This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its drive circuit on the main PCB). The fix gobo wheel is not located in the default position after the reset.

#### Prism-wheel error:

This message will appear after the reset of the fixture and if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The Prism wheel is not located in the default position after the reset.

#### Focus-error:

This message will appear after the reset of the fixture and if the magnetic indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The focus motor is not located in the default position after the reset.

#### Shutter, Strobe error:

(Shutter, Strobe-wheel error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Shutter, Strobe -wheel is not located in the default position after the reset.

#### Iris-error:

This message will appear after the reset of the fixture and if the magnetic indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its

driver circuit on the main PCB). The Iris motor is not located in the default position after the reset.

#### Zoom error:

(Zoom motor error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Step-less Zoom is not located in the default position after the reset.

# **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. Lose 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 serious 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 by a skilled installer and any safety problems should be addressed before attempting operation.



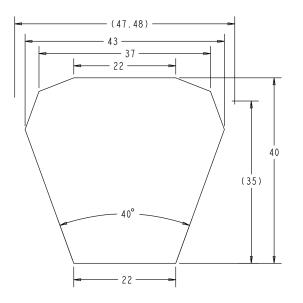
CAUTION! Disconnect from mains before starting maintenance operation.

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.

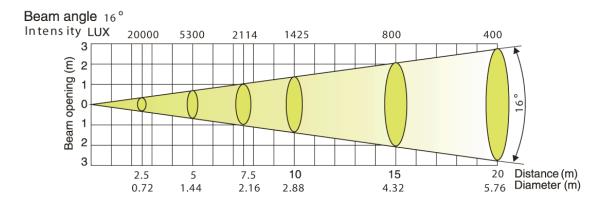
## **16. COLOR FILTER SIZE**

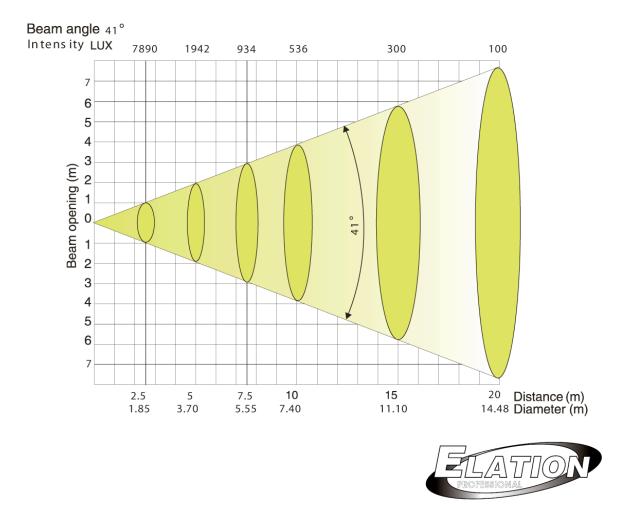


Dichroic Color Filter Size Design Spot 300E & Design Spot 575E

## 17. PHOTOMETRIC DATA:

# Design Spot 300E Pro - Photometric Data





www.ElationLighting.com

# 18. GOBOS:

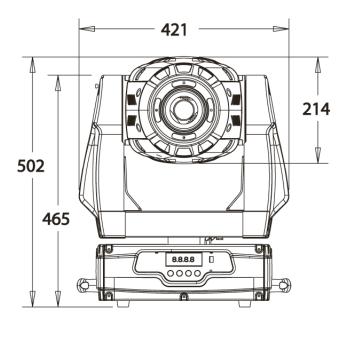
Fixed Gobo Wheel

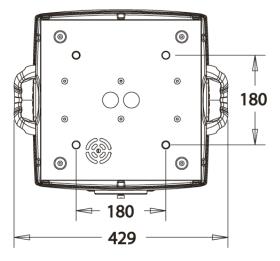


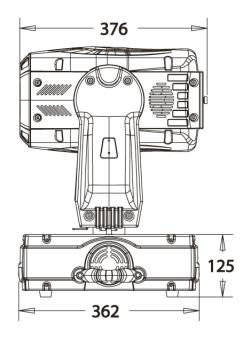
Rotating Gobo Wheel



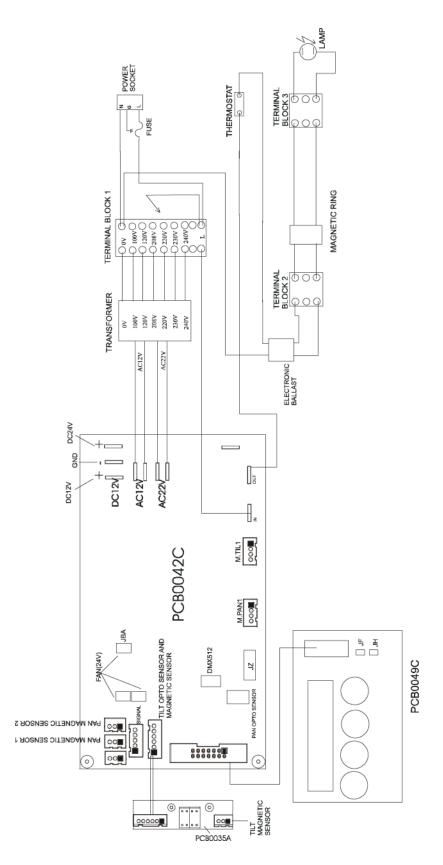
# **19. DIMENSIONAL DRAWINGS:**

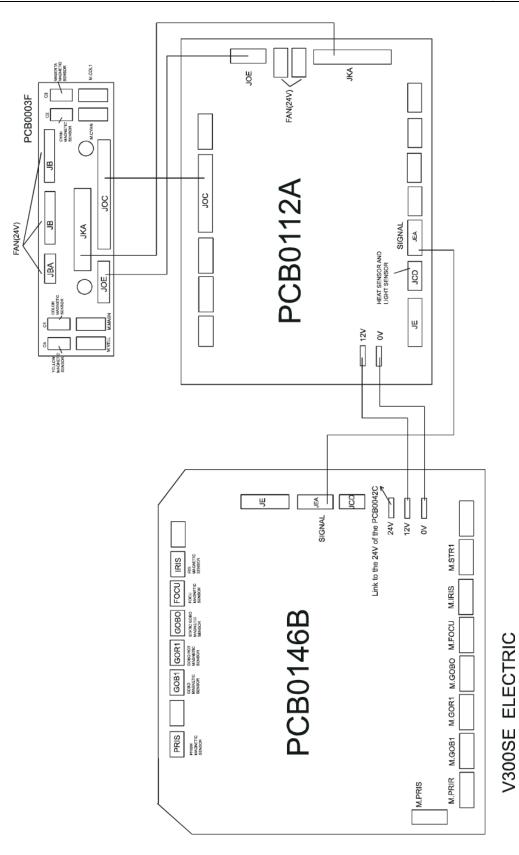






# **20. CIRCUIT SCHEMATICS**





# **21. TECHNICAL SPECIFICATIONS**

Power supply										
Power consumption	120v/60Hz									
	800 Watt, 4.5 A, electronic ballast, (blind current compensated)									
Fuse protection	120V = 8A/250V, GMA (5x20mm fine-wire fuse)									
	220V = 4A/250V, GMA (5x20mm fine-wire fuse)									
Lamp										
Туре	MSR GOLD 300/2 Fast Fit (Phillips)									
Life time	3000 Hrs									
Color temperature	8500° K									
Luminous flux	18.000 lm									
Optical system										
Parabolic dichroic glass ref	lector									
Variable beam angle 16° ~	41°									
Lenses hardened and temp	pered, anti-reflex coated									
Colors										
8 replaceable dichroic filter	plus white, half-color compatible									
Gobos										
Gobo-wheel 1: 7 interchang	geable rotating gobos plus "open", 3 glass Gobos									
Gobo-wheel 2: 6 interchang	Gobo-wheel 2: 6 interchangeable rotating gobos plus "open", 3 glass Gobos									
Gobo outside diameter 26.9 mm, image size 23 mm										
Gobo thickness (max): glas	Gobo thickness (max): glass = 1 mm, steel = 0.15 mm									
CMY Color mixing unit										
Cyan color filter 0 - 100%										
Magenta color filter 0 - 100	%									
Yellow color filter 0 - 100%										
Prism										
Rotating 3-face prism, rotat	ting and variable in speed									
Shutter / Strobe / Dimmer	•									
Strobe effect with variable s	speed 1 - 10 flashes per second									
Continuously mechanical dimmer 0 - 100%										
Iris										
Motor driven iris from open to close, variable speed, pulse effect										
Focus										
Motor driven focus from near to far away										
Zoom										
Zoom range 16° - 41°										
Effect wheel										
Rotating and indexed Effect wheel, different patterns, exchangeable										
DMX Channels										

24 (16bit – default) or 22 (8	24 (16bit – default) or 22 (8bit – user selectable)						
Drive							
Standard DMX-512, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1 or 5 pole XLR; n/a = Pin 5, n/a = Pin 4, [+] = 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							
Width of the base	18" / 46cm (Including Handles)						
Length of the base	13.75" / 35cm (Without Handles)						
Width of Head	18.5" / 47cm						
Height (head vertical)	25" / 63.5cm						
Weight (net)	26.3Kgs / 58Lbs						
Operating Noise Levels (Base level 46.8dB)							
Mode: Auto	1m = 55.9 dB						
Mode: High	1m = 56.2 dB						
Mode: Auto	1m = 51.6 db (Lamp off)						

# 22. 2-YEAR LIMITED WARRANTY

A. Elation Professionale hereby warrants, to the original purchaser, Elation Professionale 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<sup>®</sup> 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<sup>®</sup> Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

Elation Professional 6122 S. Eastern Ave. Los Angeles, CA. 90040 323-582-3322 / 323-832-9142 fax www.ElationLighting.com / Info@ElationLighting.com