elektraLite

Mini Stingray 30w IP

Variable White

(Version 1.0).
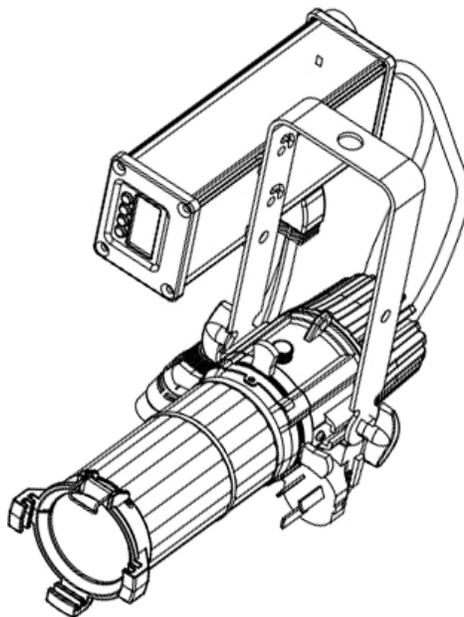
1. Unpacking

Thank you for choosing the **Elektralite Variable White 30w IP Mini Stingray** fixture. For your own safety, please read this manual before installing the fixture. This manual covers important information on installation and applications. Please keep this manual for future reference.

To keep this simple, we are going to refer to the fixture as the **SRAYM VW 30w IP** throughout the manual.

The **SRAYM VW 30w IP** fixture uses a single COB led with a balanced array of elements giving incredible output. Please unpack it carefully and check whether it was damaged in shipping.

The following items should be in the box with the fixture:-

Power cable with Edison connector

Jumper cable to extend DMX/power supply box away from the fixture's yoke arm.

2. Safety Instructions.

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual. The **SRAYM VW 30w IP** is a high voltage fixture. Be careful when dealing with high voltages.

Please read this manual. If you do not read this manual and damages occur to the SRAYM VW 30w IP, then it could void the warranty.

During shipping, **SRAYM VW 30w IP** may have been exposed to high temperature changes or humidity changes. So, as a precaution, do not switch **SRAYM VW 30w IP** on immediately. Give the fixture a few minutes to adjust.

The electric connection must be carried out by a qualified person.

Always disconnect the **SRAYM VW 30w IP** from the power source, when the device is not in use or before cleaning it. Only unplug **SRAYM VW 30w IP** from the power cord. Never pull out the plug out by pulling on the power cord.

Please keep the **SRAYM VW 30w IP** away from children and the general public. Please be intelligent and use common sense when operating the **SRAYM VW 30w IP**.

3. General Guidelines.

The **SRAYM VW 30w IP** is a lighting fixture for professional use. This is not a toy. The body can get very hot, so USE EXTREME CAUTION when handling. Heat resistant gloves maybe be needed if the fixture is not turned off and allowed to cool down.

The **SRAYM VW 30w IP** should only be operated at 120-240 volts 50/60 Hz.

The **SRAYM VW 30w IP** should not be operated 24/7 (24 hours a day; 7 days a week). The **SRAYM VW 30w IP** needs operation breaks to ensure that it will work for a long time without problems. Please do not shake the **SRAYM VW 30w IP** and avoid using brute force when installing or operating it.

When choosing the location to install the **SRAYM VW 30w IP**, please make sure that it is not exposed to extreme heat or dust.

The minimum distance between the **SRAYM VW 30w IP** and the illuminated surface must be more than 3 feet.

Always mount the **SRAYM VW 30w IP** with an appropriate safety cable/chain.

Operate the **SRAYM VW 30w IP** only when you are familiar with the features on the fixture. Do not permit operation by persons not qualified to operate it.

All modifications to the **SRAYM VW 30w IP will invalidate the warranty. There are absolutely no exceptions.**

If **SRAYM VW 30w IP** is operated in any way different to the one described in this manual, the **SRAYM VW 30w IP** maybe damaged and the guarantee/warranty will be void.

4. Main Features.

• 1*30W COB LED with variable white color range from 2800K -6000K.

• Color Rendering Index (CRI): Ra≥95+

• Optimized high definition optical system for improved photometric performance and field uniformity

• Camera quality rotating optical zoom mechanism which is interchangeable between 15º-30º or 25º-50º.

• Glass reflector that removes greater than 90% infrared radiation (heat) and reflects greater than 95% of visible light

• Housing made utilizing rugged, die-casting aluminum with high temperature rating.

• Flat even field giving a spot image

• Smooth manual combination zoom and focus system.

• Beam edge continually adjustable hard-to-soft

• Metal gobo slot (for use with gobo holder : sold separately. Gobo size is E but the Image size must not exceed 22mm).

• Control : DMX, Manual/Static (set it and leave it), master/slave and RDM.

• 4 Metal shutter blades laser cut edges to give perfect visual cuts.

• 0-100% Smooth and precise linear dimmer

• High speed strobe effect with speed control.

• 4-Button digital display

• 5-Pin XLR connectors IN and THRU

• Choice of 4 dimmer curves

• -30~40°C Max ambient temperature.

• IP65 protection rating.
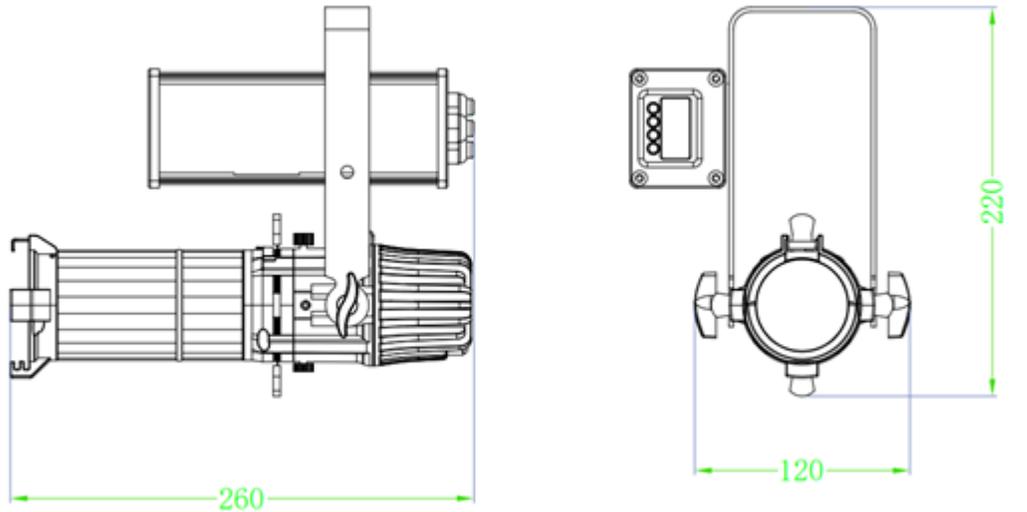
All measurements are in mm. I inch is equal to 25.4mm.

4. Changing Lenses.

The **SRAYM VW 30w IP** camera zoom lens mechanism can be interchanged. Rotating the lens at the base allows the zoom lens to be removed. However be very careful, the zoom lens is heavy and if not careful, it could slip out of hands and fall to the ground, resulting in possible damage to the lens.

5. Installation

Please ensure that the **SRAYM VW 30w IP** is hung using the appropriate "C" clamp or half cheeseboro. A safety chain or cable should also be used as a secondary point of holding the fixture in case the clamp comes loose. **Never hang the fixture without a safety chain or cable.**

If you are not qualified or have any doubts about hanging the **SRAYM VW 30w IP** then do **NOT** hang it.

Do not clamp the cable to the U bracket or clamp. That is <u>not</u> a secondary safety point.

A secondary safety point is any point that will adequately hold the **SRAYM VW 30w IP** if the "C" clamp or half cheesboro fails. Then the safety cable would be the backup and stop the fixture from falling to the ground. So do **NOT** fix the safety to the same place that the "C"clamp is attached.

A DIN Rail Bracket is available as an accessory to mount the DMX/power supply box off the Yoke arm and remotely onto a DIN rail.
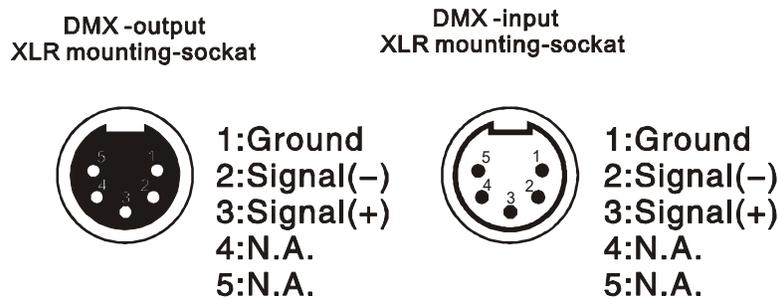
Installation during construction.

Many times fixtures are installed during the construction phase of a building. It is imperative that the fixture is protected during this phase. A lot of dust is usually created. This dust can adversely affect the fixture. Specifically, of course, in coating the lenses and therefore reducing the output. It can also damage electronics which can lead to the fixture failing immediately or prematurely in its life cycle. If covering the fixture is determined to be the best solution, MAKE SURE THE FIXTURE IS DISCONNECTED FROM ALL ELECTRICAL POWER. The fixture does generate heat and it can burn items that are brought within close proximity. So do not have power to the fixture.

6. DMX-512 Control and Power input Connections

Connect an XLR cable (not provided) to the female 5-pin XLR output of the DMX controller The other end should be connected to the male 5-pin XLR input of the **SRAYM VW 30w IP**. Then daisy-chain out of the first **SRAYM VW 30w IP** and into the next **SRAYM VW 30w IP** or other dmx device. Never **"Y"** split the DMX connection.

If you need more cable, then it should be two core, 120 ohms (not Mic cable!) screened cable fitted with a 5 pin XLR input and output connector. Please refer to the diagram below.

DMX -output
XLR mounting-sockat

1:Ground
2:Signal(–)
3:Signal(+)
4:N.A.
5:N.A.

DMX -input
XLR mounting-sockat

1:Ground
2:Signal(–)
3:Signal(+)
4:N.A.
5:N.A.

DMX-512 connection with DMX terminator

For installations where the DMX cable has to run a long distance or is in an electrically "noisy" environment, it is recommended that a DMX terminator is used. This helps prevent corruption of the digital control signal. The DMX terminator is simply a 5 pin XLR plug (male) with a 120 Ω resistor connected between pins 2 and 3. It is then plugged into the output XLR socket of the last **SRAYM VW 30w IP** or other dmx device in the chain. Please see illustration below.

120
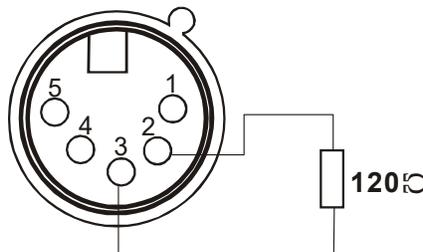
7. Menus in the fixture.

MENU OPERATIONS

A.001 (1~512)

Sod.1 (1~2)

StAt → **d.255** (0~255)

......

→ **St.00** (0~20)

FrE9 → **1.10**

CurU → **StAn**

tEMP → **0**

→ **t.080** (40~120)

d.SP

rESt

Menu rules:

The 1st column is the main menu. Pressing the Menu button will advance to the next main menu option. To gain access to the 2nd column, press ENTER.

If any Menu contains a decimal point, it means that there is a numerical value after the decimal point. It can be adjusted by using the ↑ or ↓ buttons. The numerical range is shown in the parentheses e.g. 0~255.

Data will always be saved after pressing the Menu button.
Pressing the Menu button will also advance to the next main menu entry (e.g. A001 to Sod.1)
If in a Submenu, then pressing the Menu button will exit out of the Submenu.

Menu		State	Operation		Remark
Main Menu	Sub Menu				
A.001	No Sub Menu	A: address. There is only	Use the ↑ or ↓	adjust DMX address	The display will flash if
		one profile for this fixture	Press ENTER	To save DMX address	no dmx signal is
					detected.
Sod.1	No Sub Menu	Sod: sound	Use the ↑ or ↓	Change sound sensitivity	
		Sound mode	ENTER	To save the data	
StAt	Multiple Sub Menus	StAt:	ENTER	Changes to the sub menu	
		Static mode			
	d.255	Dimmer	Use the ↑ or ↓	Save dimmer value	
	……	Color Temperature setting	Use the ↑ or ↓ then ENTER	Save Color temp value	
	St.00	St: strobe	Use the ↑ or ↓	Adjust strobe's flash rate	
		strobe and its speed	ENTER	Save strobe's flash rate	
FrE9	One sub menu	FrEq:frequency	ENTER		Change PWM Hz if
		frequency			flickering is in video or if
	1.10	Unit：KHz	Use the ↑ or ↓	Adjusts PWM frequency	audio high pitched noise
		Range：0.55~25.0	ENTER	Save the new Hz value	is noted.
CurU	One sub menu	CurV:curve	ENTER	Enter the vice menu	Explanations of the
		Dimmer curve			different curves is given
	StAn	StAn:Standard	Use the ↑ or ↓	Change curve	in this document section
			ENTER	Save the data	9.
	inCA	inCA: Incandescent	Use the ↑ or ↓	Change curve	
			ENTER	Save the data	
	LinE	LinE:Linear	Use the ↑ or ↓	Change curve	
			ENTER	Save the data	
	9uiC	quiC:Quick	Use the ↑ or ↓	Change curve	
			ENTER	Save the data	
tEПP	Two sub menu	tEMp: temperature	ENTER	enter the sub menu	**It is <u>strongly</u> advised**
		temperature control			**that no change is**
	0	current temperature	ENTER	enter the sub menu	**made to the**
					temperature settings.
	t.080	t: top	Use the ↑ or ↓	change the data of temperature protect	
		Set protection temperature	ENTER	save and switch	
diSP	No sub menu	diSP: display	ENTER	Turn display upside down	
		Turns display upside down			
rESt	No sub menu	reSt: reset	ENTER		**It is strongly advised**
		Resets all functions to default settings	Use the ↑ or ↓	Password required which is ↑ ↓ ↑ ↓ENTER	**not to do this as inputting all settings again can be very time consuming.**

8. Screen protect / Lock out.

Many users, particularly in the broadcaster industry asked us to have a lock out of the functions in the menu, to stop accidental changes in the settings. So when the fixture is first powered up the password will be needed. The screen will have 4 lines (- - - -) and the password must be keyed in. Use the up/down buttons and carefully do the following button pushes in this order "UP, DOWN, UP, DOWN, ENTER". This is the password.

If the wrong order is pressed or a wrong key, just continue to press a key until all 4 spaces are full. Then press ENTER. The 4 lines will return and the correct password can be input into the fixture. Do not forget the ENTER after UP, DOWN, UP, DOWN sequence is complete. (the screen shown below is what is seen as up, down, up, down is keyed into the fixture.

Also note that after 15-20 seconds, if no button is pressed, then the input of the password will be required.

# 9. CurU (Dimmer Curves).

The software has the ability to manipulate the way the dimming of the led reacts to the dmx input. By chosing one of the 4 CurU any change in the value of the dmx signal will result in different response times of the increase (or decrease) in brightness. This, in turn, will also affect the smoothness of the dimming.

Standard:- This is a simple curve where brightness change is most noticeable at the low and high ends of the intensity curve. Standard has a slight lag time when the dmx signal is changed to give a smooth intensity transition. It does also allow fast (bump) changes in the intensity as well. This the best choice in the majority of applications.
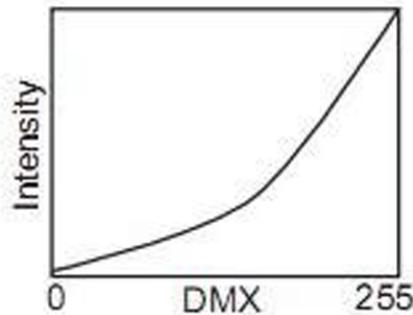

Incandescent:- The incandescent curve mimics the response of a tungsten lamp on a normal dimmer. The delay in intensity change is noticeable throughout all changes. So using the bump buttons to flash on and off the led will show a delay just like a Par lamp does (or did!).
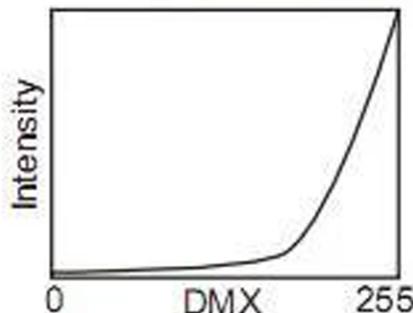
Linear :- Linear is exactly as the word describes. It's a straight line with no curves. There is a slight delay in response time to accommodate smoothness. However fast (bump) changes in the intensity can also be achieved.
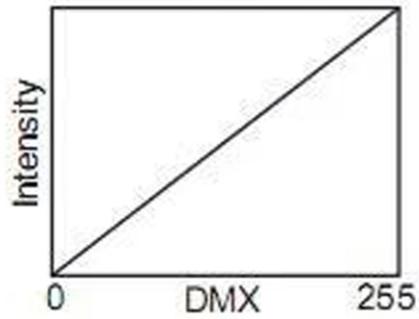
Quick :- Quick is the standard curve but with the smoothness removed. So no delay in reacting to any change in brightness. This gives a very "staccato" look to any changes in brightness.
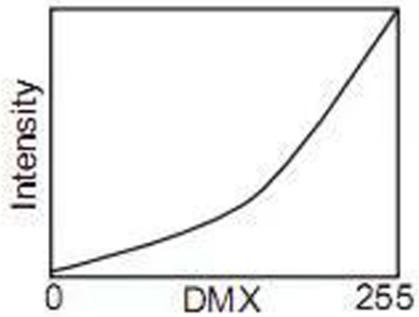
10. Fixture Personality (Profile).

There is just one fixture personality or profile for this fixture.

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Channel	Data Value	Function	Remark
1	000-255	Dimmer from 0% to 100%	
2	000-011	1st color temperature	
	012-019	2nd color temperature	
	020-235	......	Each 8 data value is for a color temperature
	236-243	30th color temperature	
	244-255	31st color temperature	
3	000-010	No Strobe	
	011-255	Strobe Speed (255 the fast)	
4	000-020	Dimmer delay 4	A change in the data value of Ch 1 will have the longest delay in the change in brightness of the led.
	021-040	Dimmer delay 3	A change in the data value of Ch 1 will have a longer delay in the change in brightness of the led.
	041-060	Dimmer delay 2	A change in the data value of Ch 1 will have the slightly longer delay in the change in brightness of the led.
	061-080	Dimmer delay 1	A change in the data value of Ch 1 will have the shortest delay in the change in brightness of the led. (*Used most frequently by operators*).
	081-199	Dimmer speed OFF	A change in the data value of Ch 1 will have no delay in the change in brightness of the led. Change will be instantaneous.
	200-240	Sound mode	The sound changes the color temperature.
	241-255	Sound mode	Sound changes cause a strobing effect.

11. Cleaning and maintenance.

Now ignoring maintenance and cleaning is very good way of creating problems "down the road" and many companies and installations do just that. However the net result is, no matter what the fixture, premature failure!

Changing the oil in a car most people do on a regular basis.

So with the fixtures, regular maintenance is an excellent practice, if you want the fixtures to last.

So what is the maintenance for the fixture? Keep it clean. Dust and dirt accumulation can stop the body's heat sink from adequately keeping the COB led cool. Heat can destroy the led, the lens and other components. So just keep it clean.

The lenses should also be cleaned so the light output is maintained. Use only a moist lint-free cloth. Never use alcohol or solvents to clean the fixture.

12. Accessories (not included with the fixture).

- Gel frame
- Gobo holder.
- Camera zoom lens either 15º-30º or 25º-50º whichever is not fitted.
- DIN Rail Bracket for mounting the DMX/Power supply remotely.

13. Technical Specification.

- Operating voltage 100 – 240v
- Frequency 50 – 60 Hertz
- Single COB Led with combination of Warm White & Cool White elements in fixed array.
- 397.39mm Length x 172.55mm width x 102.47mm height (15¾" x 7⅞" x 4¼") (Allow a further 50.8mm 2" for connectors) These dimensions above take into account the DMX box that is attached to the yoke arm on one side.
- Box dimensions 349.25mm x 165mm x 152.4mm (13.75" x 6.5" x 6")
- 2.18 kgs
- 5.0 pounds

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