SOLAR RAY™

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1. GETTING STARTED

What's In The Box?

- 1 x Solar Ray™ Matrix Module
- 1 x ¼ Turn Quick Clamp Bracket
- An Ever-So-Handy Power Cord
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on your purchase of the Solar Ray™, the blindingly bright LED matrix module that is equipped shine like the sun! So, now that you've got your Solar Ray™ (or hopefully, Solar Rays!), you should carefully unpack the box and check the contents to ensure that all parts are present and in good condition. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Powering Up!

All fixtures must be powered directly off a switched circuit and **cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch**.

AC Voltage Switch - Not all fixtures have a voltage select switch, so please verify that the fixture you receive is suitable for your local power supply. See the label on the fixture or refer to the fixture's specifications chart for more information. A fixture's listed current rating is its average current draw under normal conditions. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Warning! *Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Ground (Earthing).*

Getting A Hold Of Us
If something is wrong, please just visit our website at www.blizzardlighting. com and open a support ticket. We'll be happy to help, honest.

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SAFETY INSTRUCTIONS

> Please read these instructions carefully. They include important information about the installation, usage and maintenance of this product.

• Please keep this User Guide for future use. If you sell the unit to someone else, be sure that they also receive this User Guide.

• ALWAYS make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.

• This product is intended for indoor use only.

• To prevent risk of fire or shock, do not expose fixture to rain or moisture.

• Make sure there are no flammable materials close to the unit while operating.

• The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.

• ALWAYS disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type.

• ALWAYS secure fixture using a safety chain. NEVER carry the fixture by its cord.

• DO NOT operate at ambient temperatures higher than 104°F (40°C).

• In the event of a serious operating problem, stop using the unit immediately. NEVER try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

• NEVER connect the device to a dimmer pack.

• Make sure the power cord is never crimped or damaged.

• Never disconnect the power cord by pulling or tugging on the cord.

• Avoid direct eye exposure to the light source while it is on.

Caution! There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please visit www.blizzardlighting.com/tickets to request support via our online support ticket system.

2. MEET THE SOLAR RAY LED FIXTURE

MAIN FEATURES

- 25* high efficiency 3-Watt Edison LEDs
- Projects intense narrow beams of 2,800k warm white light
- Flexible panel system with integrated locks
- Easy configuration and setup via built-in LCD control panel
- Individual pixel control in 25-channel DMX mode
- 29 built-in programs + auto run with speed adjustment
- Kling-Net/Art-Net support allows auto-configuration over Ethernet
- 8° beam angle, pitch: 60 mm
- DMX Channels: 6/25
- Strobe Rate: 0-20 Hz
- Strong cast aluminum housing
- Internal Protection: IP20
- Smooth dimming curve with flicker-free operation (400Hz)

ADDITIONAL FEATURES

- High-performance fanless convection cooling
- Mounting bracket with dual locking knobs & ¼ turn quick clamp bracket
- 2x RJ45 Ethernet in/out data connections
- 3-pin DMX input/output
- PowerCon™ compatible AC power in/out connectors

DMX Quick Reference - 6/25-Channel Modes

Channel	6-Channel	25-Channel
1	Master Dimmer	LED 1 Intensity (0% <--> 100%)
2	Strobe	LED 2 Intensity (0% <--> 100%)
3	Dimmer	LED 3 Intensity (0% <--> 100%)
4	Auto Programs 1-15	LED 4 Intensity (0% <--> 100%)
5	Auto Programs 16-29	LED 5 Intensity (0% <--> 100%)
6	Speed (slow <-> fast)	LED 6 Intensity (0% <--> 100%)
7-25	---	LED 7-25 Intensity (0% <--> 100%)

Figure 1: The Solar Ray™ Pin-Up Picture

Strong Die-Cast Aluminum Housing

25x 3-Watt Edison Warm White LEDs

Mounting bracket with ¼ turn quick clamp bracket connections

Figure 2: The Rear Connections

4-Button LCD Control Panel

Fuse

Signal Status LED

Power In

Power Out

3-Pin DMX In

3-Pin DMX Out

RJ45 Art-Net/Kling-Net

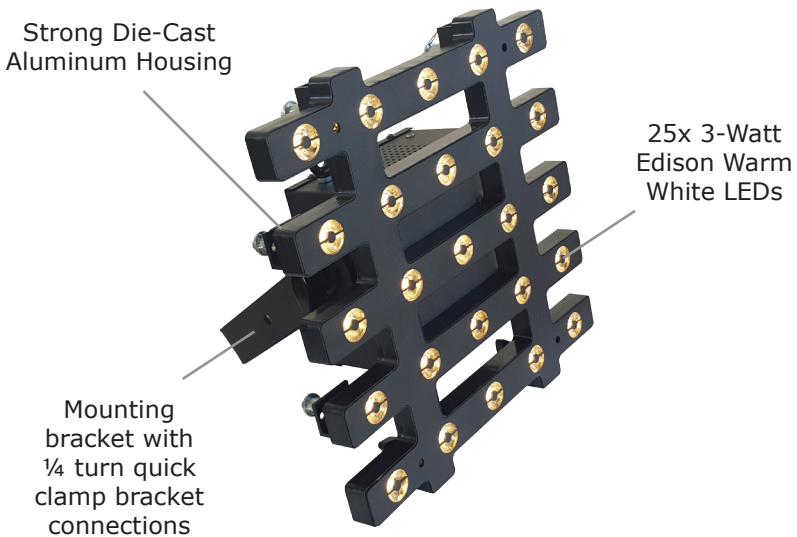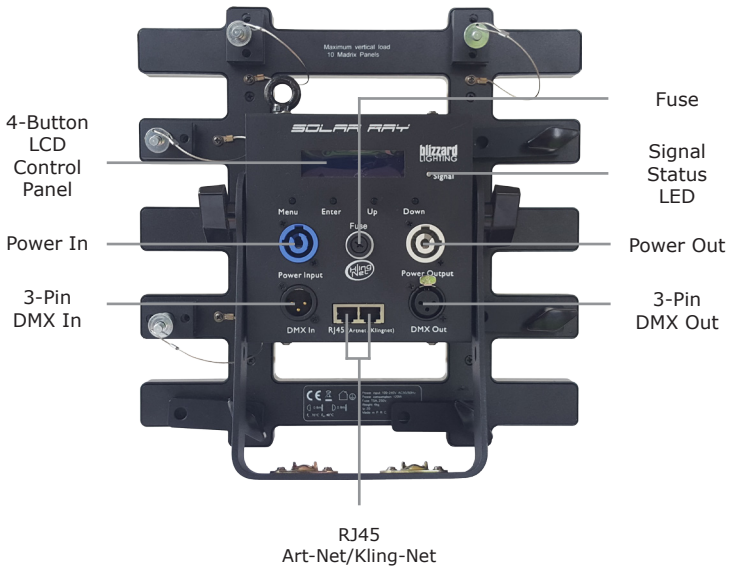Page 6

3. SETUP

Before replacing a fuse, disconnect power cord. ALWAYS replace with the same type and rating of fuse.

Fuse Replacement

With a phillips head screwdriver, unscrew the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type of fuse. Reattach the fuse holder, and then reconnect power.

DMX-512 Connections

You can use a serial data link to run light shows using a DMX-512 controller or to run shows on two or more units set to sync in master/slave operating mode. The combined number of channels required by all units on a serial data link determines the number that the data link can support.

Equipment setup in a serial data link must be daisy chained in one single line. Also, connecting more than 32 units on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal. The maximum recommended cable-run distance is 500 meters (1640 ft). The maximum recommended number of items daisy chained on a serial data link is 32 units.

Data/DMX Cabling

To link your equipment together via DMX in/out you'll need data cables. You should use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

For instance, Belden© 9841 meets the specifications for EIA RS-485 applications. Standard microphone cables will "probably" be OK, but note that they cannot transmit DMX data as reliably over long distances. In any event, the cable should have the following characteristics:

> *2-conductor twisted pair plus a shield*
> *Maximum capacitance between conductors – 30 pF/ft.*
> *Maximum capacitance between conductor & shield – 55 pF/ft.*
> *Maximum resistance of 20 ohms / 1000 ft.*
> *Nominal impedance 100 – 140 ohms*

Power Linking

You can link up to 9 Solar Ray™ units (max) at 110V, or 18 (max) units at 220V. Never exceed this number. Power linking cords can be purchased separately.

Mounting & Rigging

- The construction must be able to support 10 times the total weight of the devices.

- The installation must always be secured with a safety cable.

- Never stand directly below the device when it is being mounted, removed or serviced. Have a qualified technician check the device annually and once before you bring it into service.

- Overhead mounting requires extensive experience: calculating workload limits, and determining the installation material to be used. Have the material and the device itself checked regularly.

- For truss mounting, use an appropriate clamp (not included) and fit an M10 bolt through the center of the mounting bracket.

- Adjust the desired inclination angle via the mounting bracket and tighten the bracket screws.

- Connect the device to the mains with the power plug. All devices must be powered directly off a grounded switched circuit. Do not connect to a dimmer pack.

- The device has a power output to supply power to another device. When connecting several devices in a daisy chain via this output, make sure that the total current does not exceed the power line's nominal current.

Making A Wall of Solar Ray™ Fixtures

1. Mount the first unit on a truss via its mounting bracket, and an appropriately rated clamp to accommodate the total weight of connected fixtures.

2. Rotate both fixture connector plates on connecting side(s) to the extended position, and tighten them down securely.

3. Set the next fixture in place, and fasten them together using the attached locking push-button safety pins.
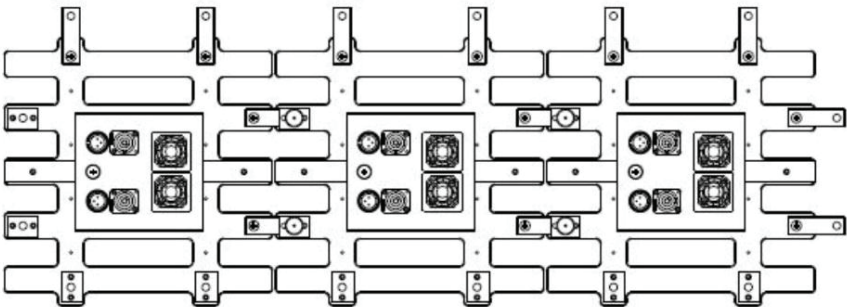
Connection Example

Here is just one of many possible fixture connection setups.

No matter what type of configuration your choose to connect your fixtures together in, always be sure that each fixture is individually secured with a safety cable.
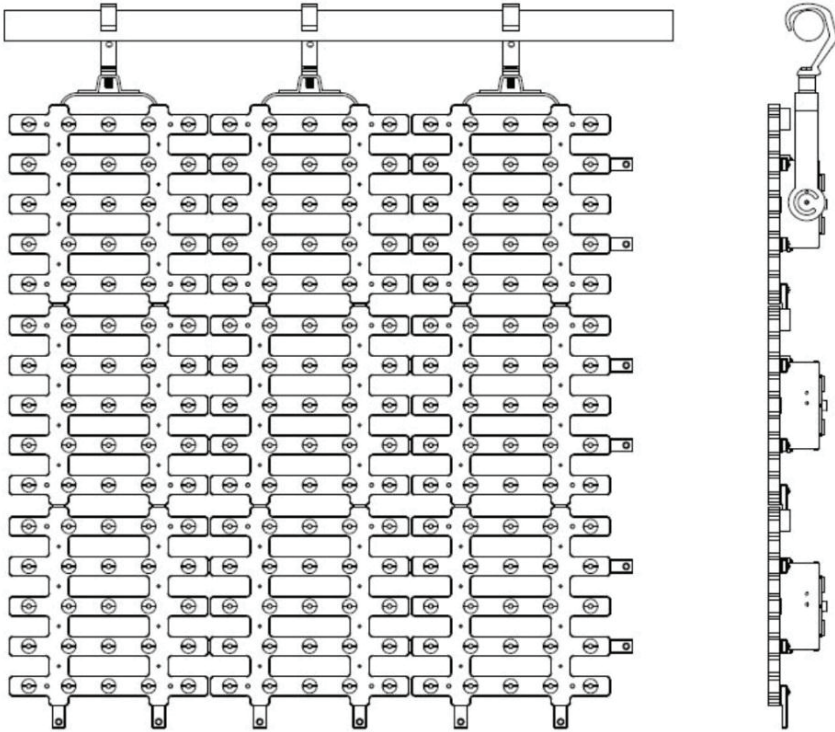
4. OPERATING ADJUSTMENTS

The Control Panel

All the goodies and different modes possible with the Solar Ray™ are accessed by using the control panel on the rear of the fixture. There are 4 control buttons below the LCD display which allow you to navigate through the various control panel menus.

<MENU>

Is used to navigate to the previous higher-level menu item.

<ENTER>

Is used to select and confirm/store the current selection.

<UP>

Scrolls through menu items and numbers in ascending order.

<DOWN>

Scrolls through menu items and numbers in descending order.


```
    DMX CH Mode
  Addr: 001 [25CH]
```

●   ●   ●   ●
Menu   Enter   Up   Down

The control panel LCD display shows the menu items you select from the menu map on page #11. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press **<ENTER>**.

Use the **<UP>** and **<DOWN>** buttons to navigate the menu options. Press the **<ENTER>** button to select the menu function currently displayed, or to enable a menu option. To return to the previous option or menu without changing the value, press the **<MENU>** button.

Control Panel Menu Structure

DMX Address	001-512	To choose the DMX address
DMX CH Mode	6CH	6-channel DMX mode
	25CH	25-channel DMX mode
Auto Mode	Speed	Speed adjustments (1-9)
	Program	Built-in programs (1-29) + Mix Mode
Slave Mode	Yes/No	Sets fixture to run in slave mode
Sound Mode	Yes/No	Sound active mode
Network Settings	IP Address	IP address settings
	Subnet Mask	Subnet mask settings
	Net Subnet Unive	Net subnet universe settings

DMX Mode
Allows the unit to be controlled by any universal DMX controller.

Change the Starting DMX Channel:
1.) The default DMX channel appears as **001** on the LCD readout. To select a different starting DMX channel, use the **<UP/DOWN>** buttons to navigate to **DMX Address**, and press the **<ENTER>** button. Then use the he **<UP/DOWN>** buttons to select a value ranging from 001-512, and press the **<ENTER>** to confirm your choice.

Setting the DMX Channel Mode:
1.) To select a DMX channel mode, use the **<UP/DOWN>** buttons to navigate to **DMX CH Mode**, and press the **<ENTER>** button. Then use the **<UP/DOWN>** buttons until the display reaches your desired channel mode. Press the **<ENTER>** button to confirm.

Slave Mode:
1.) To set a fixture to run in slave mode, use the **<UP/DOWN>** buttons to navigate to **Slave Mode**, and press the **<ENTER>** button. Then use the **<UP/DOWN>** buttons to highlight either **Yes** or **No**. Press the **<ENTER>** button to confirm your choice.

Network Settings:
Set multiple units to run extended patterns via Net Subnet Universe value settings.

Extended View Mode:
1.) While in master/slave mode, to run extended patterns between multiple fixtures; set the Net Subnet Universe setting of each fixture to have a different value: ex., for 9 fixtures use the values 01-09. In contrast, matching Net Subnet Universe values will result in identical/individual patterns that will not extend the view between the group of fixtures.

Stand-Alone, & Sound Active Modes:
Allows a single or Master/Slaved units to run factory installed programs at user selectable speeds.

Auto Mode:
1.) To run any of the fixture's individual programs or all of them in "Mix Mode", use the **<UP/DOWN>** buttons to navigate to **Auto Mode**, and press the **<ENTER>** button. You can then adjust the speed setting from 1-9 (slow <-> fast), or press the **<UP/DOWN>** buttons to navigate to **Program** to select any of its 29 programs, or **Mix Mode** to cycle through them all. Press the enter button to confirm your choice.

Sound Active Mode:
1.) To use sound active mode, select **Sound Mode** from the main menu then press the **<ENTER>** button. Sound active will now be actively running, using the currently set auto program or Mix Mode.

DMX Values In-Depth (6-Channel Mode)

Channel	Value	What It Does
1	000 <--> 255	**Master Dimmer (0% <--> 100%)**
2	000 <--> 255	**Strobe (Slow <--> Fast)**
3	000 <--> 255	**Dimmer (0% <--> 100%)**
4		**Auto Programs (1-15)**
	000 <--> 015	No Function
	016 <--> 031	Program 1
	032 <--> 047	Program 2
	048 <--> 063	Program 3
	064 <--> 079	Program 4
	080 <--> 095	Program 5
	096 <--> 111	Program 6
	112 <--> 127	Program 7
	128 <--> 143	Program 8
	144 <--> 159	Program 9
	160 <--> 175	Program 10
	176 <--> 191	Program 11
	192 <--> 207	Program 12
	208 <--> 223	Program 13
	224 <--> 239	Program 14
	240 <--> 255	Program 15
5		**Auto Programs (16-29) + Mix Mode**
	000 <--> 015	No Function
	016 <--> 031	Program 16
	032 <--> 047	Program 17
	048 <--> 063	Program 18
	064 <--> 079	Program 19
	080 <--> 095	Program 20
	096 <--> 111	Program 21
	112 <--> 127	Program 22
	128 <--> 143	Program 23
	144 <--> 159	Program 24
	160 <--> 175	Program 25
	176 <--> 191	Program 26
	192 <--> 207	Program 27
	208 <--> 223	Program 28
	224 <--> 239	Program 29
	240 <--> 255	Program - Mix Mode
6	000 <--> 255	**Auto Program Speed (Slow <--> Fast)**

DMX Values In-Depth (25-Channel Mode)

Channel	Value	What It Does
1	000 <--> 255	LED 1 Intensity (0% <--> 100%)
2	000 <--> 255	LED 2 Intensity (0% <--> 100%)
3	000 <--> 255	LED 3 Intensity (0% <--> 100%)
4	000 <--> 255	LED 4 Intensity (0% <--> 100%)
5	000 <--> 255	LED 5 Intensity (0% <--> 100%)
6	000 <--> 255	LED 6 Intensity (0% <--> 100%)
7	000 <--> 255	LED 7 Intensity (0% <--> 100%)
8	000 <--> 255	LED 8 Intensity (0% <--> 100%)
9	000 <--> 255	LED 9 Intensity (0% <--> 100%)
10	000 <--> 255	LED 10 Intensity (0% <--> 100%)
11	000 <--> 255	LED 11 Intensity (0% <--> 100%)
12	000 <--> 255	LED 12 Intensity (0% <--> 100%)
13	000 <--> 255	LED 13 Intensity (0% <--> 100%)
14	000 <--> 255	LED 14 Intensity (0% <--> 100%)
15	000 <--> 255	LED 15 Intensity (0% <--> 100%)
16	000 <--> 255	LED 16 Intensity (0% <--> 100%)
17	000 <--> 255	LED 17 Intensity (0% <--> 100%)
18	000 <--> 255	LED 18 Intensity (0% <--> 100%)
19	000 <--> 255	LED 19 Intensity (0% <--> 100%)
20	000 <--> 255	LED 20 Intensity (0% <--> 100%)
21	000 <--> 255	LED 21 Intensity (0% <--> 100%)
22	000 <--> 255	LED 22 Intensity (0% <--> 100%)

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DMX Values In-Depth (25-Channel Mode), continued

Channel	Value	What It Does
23	000 <--> 255	LED 23 Intensity (0% <--> 100%)
24	000 <--> 255	LED 24 Intensity (0% <--> 100%)
25	000 <--> 255	LED 25 Intensity (0% <--> 100%)

Kling-Net/Art-Net™ Connections

Each cell in the tables below represent the 25 LEDs per linked fixture, and their auto-assigned channel values in a 9 fixture setup.

Fixture 1: LED CH

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

Fixture 2: LED CH

26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50

Fixture 3: LED CH

51	52	53	54	55
56	57	58	59	60
61	62	63	64	65
66	67	68	69	70
71	72	73	74	75

Fixture 4: LED CH

76	77	78	79	80
81	82	83	84	85
86	87	88	89	90
91	92	93	94	95
96	97	98	99	100

Fixture 5: LED CH

101	102	103	104	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125

Fixture 6: LED CH

126	127	128	129	130
131	132	133	134	135
136	137	138	138	140
141	142	143	144	145
146	147	148	149	150

Fixture 7: LED CH

151	152	153	154	155
156	157	158	159	160
161	162	163	164	165
166	167	168	169	170
171	172	173	174	175

Fixture 8: LED CH

176	177	178	179	180
181	182	183	184	185
186	187	188	188	190
191	192	193	194	195
196	197	198	199	200

Fixture 9: LED CH

201	202	203	204	205
206	207	208	209	210
211	212	213	214	215
216	217	218	219	220
221	222	223	224	225

Troubleshooting

Symptom	Solution
No Light Output	Check to ensure fixture is operating under correct mode, IE sound active/auto/DMX/Etc., if applicable.
Chase Speed Too Fast/ Slow	Check to ensure proper setup of speed adjustment.
No Power	Check AC cord and circuit for malfunction.
Blown Fuse	Check AC cord and circuit for damage, verify that moving parts are not restricted and that unit's ventilation is not obstructed
Slow Movement	Check that speed channels are set appropriately.
No Response to Audio	Verify that the fixture is in "Sound Active" mode.
Fixture Not Responding / Responding Erratically	Make sure all connectors are seated properly and securely. Use Only DMX Cables and/or check cables for defects Install a Terminator. Reset fixture(s).
Fixture Moving On Its Own	Verify proper mode of operation. Is the fixture in "Auto" mode?

If your problem persists or isn't listed, please open a support ticket online at: www.blizzardlighting.com/support.

Dimensional Drawings

3.8"
96 mm

11.8"
300 mm

11.8"
300 mm

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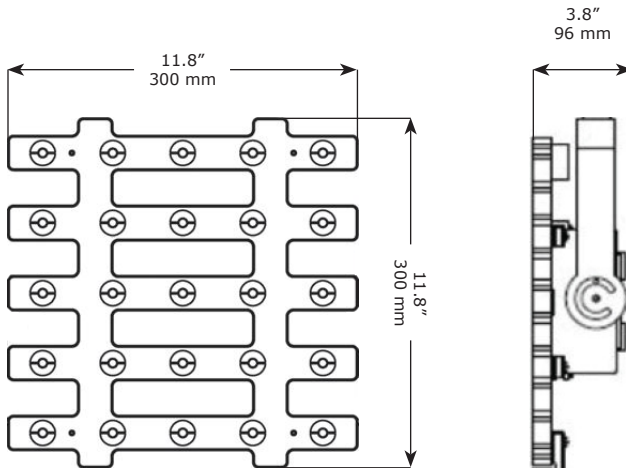
5. APPENDIX

A Quick Lesson On DMX

DMX (aka DMX-512) was created in 1986 by the United States Institute for Theatre Technology (USITT) as a standardized method for connecting lighting consoles to lighting dimmer modules. It was revised in 1990 and again in 2000 to allow more flexibility. The Entertainment Services and Technology Association (ESTA) has since assumed control over the DMX512 standard. It has also been approved and recognized for ANSI standard classification.

DMX provides up to 512 control "channels" per data link. Each of these channels was originally intended to control lamp dimmer levels. You can think of it as 512 faders on a lighting console, connected to 512 light bulbs. Each slider's position is sent over the data link as an 8-bit number having a value between 0 and 255. The value 0 corresponds to the light bulb being completely off while 255 corresponds to the light bulb being fully on.

DMX is connected using a daisy-chain configuration where the source connects to the input of the first device, the output of the first device connects to the input of the next device, and so on. The standard allows for up to 32 devices on a single DMX link.

Each receiving device typically has a means for setting the "starting channel number" that it will respond to. For example, if two 6-channel fixtures are used, the first fixture might be set to start at channel 1 so it would respond to DMX channels 1 through 6, and the next fixture would be set to start at channel 7 so it would respond to channels 7 through 12.

The greatest strength of the DMX communications protocol is that it is very simple and robust. It involves transmitting a reset condition (indicating the start of a new "packet"), a start code, and up to 512 bytes of data. Data packets are transmitted continuously. As soon as one packet is finished, another can begin with no delay if desired (usually another follows within 1 ms). If nothing is changing (i.e. no lamp levels change) the same data will be sent out over and over again. This is a great feature of DMX -- if for some reason the data is not interpreted the first time around, it will be re-sent shortly.

Not all 512 channels need to be output per packet, and in fact, it is very uncommon to find all 512 used. The fewer channels are used, the higher the "refresh" rate. It is possible to get DMX refreshes at around 1000 times per second if only 24 channels are being transmitted. If all 512 channels are being transmitted, the refresh rate is around 44 times per second.

Art-net™ Protocol

Art-Net is a protocol for transmitting the lighting control protocol DMX512-A (with RDM) over the User Datagram Protocol of the Internet Protocol suite. The protocol was developed by Wayne Howell and his company, Artistic Licence Engineering (UK) Ltd, is open for implementation with attribution but without charge, and made available as a software development kit for convenience. It is typically implemented as lighting-control nodes in embedded controllers, driven from a lighting desk or similar software operating as a server. Art-Net compatible products are made available by dozens of companies.

ArKaos Kling-Net™

ArKaos has designed the Kling-Net protocol to allow the distribution of real-time video data to remote display devices, such as LEDs or LED panels, over Ethernet.

Many first time users are afraid of using LED lighting because of the complexity of networking and control issues. Using and networking LED lighting has required a high level of technical knowledge which has been a deterrent for many.

ArKaos wanted to remove all this complexity and replace it with an easy protocol which automatically takes care of the magic numbers for the user!

The purpose of Kling-Net is:

• To allow the automatic configuration and connection of display devices to a computer
• To add some 'intelligence' into display devices, which enables auto configuration
• To ensure a perfect time synchronization of multiple display devices
• To avoid using expensive hardware video converters to send video to display devices
• To allow the creation of an heterogenic network of display devices from different manufacturers, which can all be controlled from one computer

Keeping Your Solar Ray As Good As New

The fixture you've received is a rugged, tough piece of pro lighting equipment, and as long as you take care of it, it will take care of you. That said, like anything, you'll need to take care of it if you want it to operate as designed. You should absolutely keep the fixture clean, especially if you are using it in an environment with a lot of dust, fog, haze, wild animals, wild teenagers or spilled drinks.

Cleaning the optics routinely with a suitable glass cleaner will greatly improve the quality of light output. Keeping the fans free of dust and debris will keep the fixture running cool and prevent damage from overheating.

In transit, keep the fixtures in cases. You wouldn't throw a prized guitar, drumset, or other piece of expensive gear into a gear trailer without a case, and similarly, you shouldn't even think about doing it with your shiny new light fixtures.

Common sense and taking care of your fixtures will be the single biggest thing you can do to keep them running at peak performance and let you worry about designing a great light show, putting on a great concert, or maximizing your client's satisfaction and "wow factor." That's what it's all about, after all!

Returns (Gasp!)

We've taken a lot of precautions to make sure you never even have to worry about sending a defective unit back, or sending a unit in for service. But, like any complex piece of equipment designed and built by humans, once in a while, something doesn't go as planned. If you find yourself with a fixture that isn't behaving like a good little fixture should, you'll need to obtain a Return Authorization (RA).

Don't worry, this is easy. Just go to our website and open a support ticket at www.blizzardlighting.com/tickets, and we'll issue you an RA. Then, you'll need to send the unit to us using a trackable, pre-paid freight method. We suggest using USPS Priority or UPS. Make sure you carefully pack the fixture for transit, and whenever possible, use the original box & packing for shipping.

When returning your fixture for service, be sure to include the following:

> 1.) Your contact information (Name, Address, Phone Number, Email address).
> 2.) The RA# issued to you
> 3.) A brief description of the problem/symptoms.

We will, at our discretion, repair or replace the fixture. Please remember that any shipping damage which occurs in transit to us is the customer's responsibility, so pack it well!

Shipping Issues

Damage incurred in shipping is the responsibility of the shipper, and must be reported to the carrier immediately upon receipt of the items. Claims must be made within seven (7) days of receipt.

Tech Specs!

Weight & Dimensions	
Width	11.8 inches (300 mm)
Depth	3.8 inches (96 mm)
Height	11.8 inches (300 mm)
Weight	8.9 lb. (4 kg)
Power	
Operating Voltage	100-240VAC, 50-60 Hertz
Power Consumption	75W, 1.02A, PF: .61
Light Source	
LED	25* 3-Watt Edison 2,800k Warm White LEDs
Optical	
Beam Angle	8 degree
Luminous Intensity	13,500 Lux @ 1m, 5,120 Lux @ 2m
Pixels	5 x 5
Pixel Pitch	60mm
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Control	
Protocol	Art-Net™, Kling-Net, USITT DMX-512
DMX Channels	6/25-Channels
Input/Output	3-pin XLR Male/Female
Other Operating Modes	Standalone, Master/Slave, Auto, Sound Active
Other Information	
"YOL9" - Cats	
Warranty	2-year limited warranty, does not cover malfunction caused by damage to LEDs.

DISCLAIMER:
The power connector fitted to the fixture and fixture cord are designed for compatibility with products manufactured by Neutrik AG, Neutrik USA and their related entities, however they are not manufactured by, affiliated with or endorsed by Neutrik AG, Neutrik USA, or any related entity. Neutrik® and powerCON® are registered trademarks of Neutrik AG.

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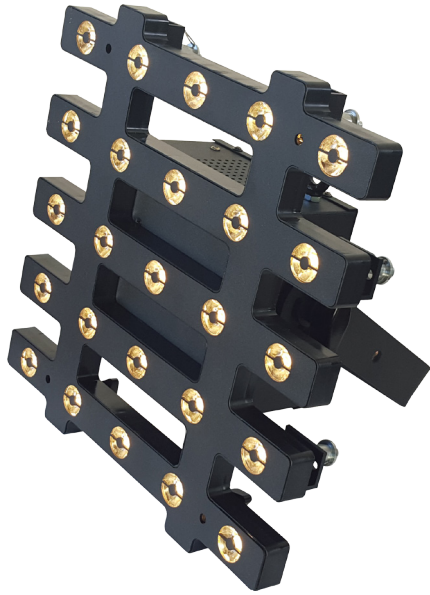
Enjoy your product!
Our sincerest thanks for your purchase!
--The team @ Blizzard Lighting