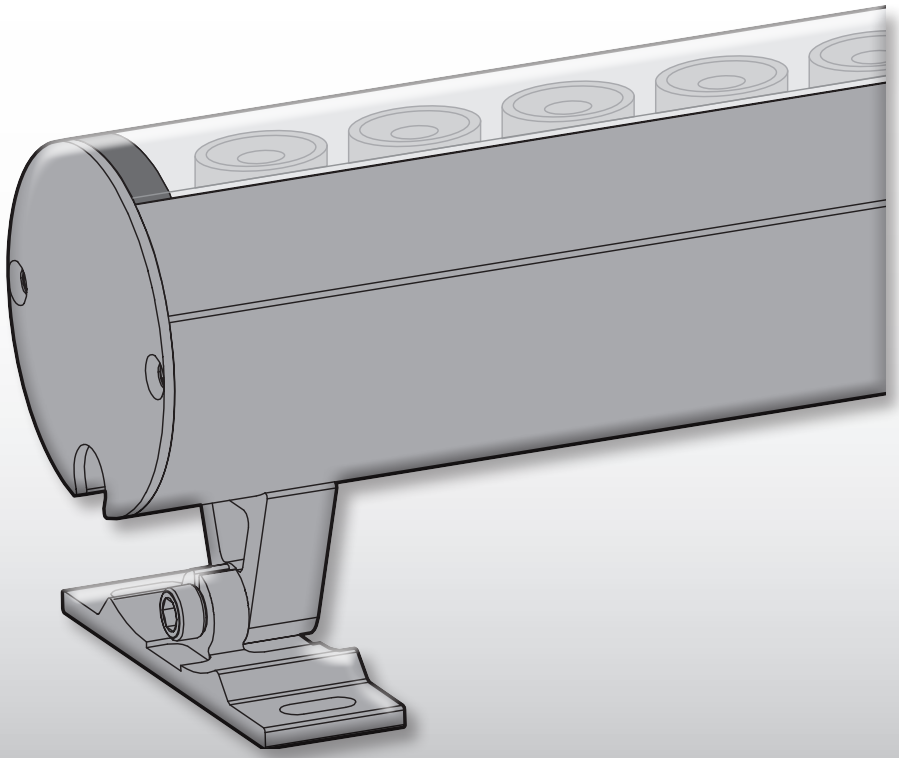
Acclaim™



Aqua Graze™

User guide

Contents

Introduction

Welcome

Welcome to the Aqua Graze and Aqua Driver from Acclaim Lighting. This range of high output, submersible LED flood fixtures offer IP68 submersible properties thanks to their anodized oxidation aluminum housings and fully sealed joints.

There are two sizes of fixture:

- Aqua Graze 1' with 12 LED emitters
- Aqua Graze 4' with 48 LED emitters

With a comprehensive choice of emitter types:

- 2700K, 3000K, 3500K or 4000K white
- Dynamic White (2400K to 5500K)
- RGBW (W=3000K, 4000K or 6000K)
- RGBA

And an appropriate range of lens options:

- 10^{o} x 10^{o}
- 10^{o} x 60^{o}
- 25^{o} x 25^{o}
- 30^{o} x 60^{o}
- 60^{o} x 60^{o}
- 90^{o} x 90^{o}

The accompanying Aqua Driver controllers (Aqua Driver 150 to control up to four fixtures; Aqua Driver 400 to control up to eight fixtures) operate from mains inputs ranging from 100 to 277VAC, 50/60Hz (autosensing) and provide constant current PWM drive to the output ports. The Aqua Driver units can either operate independently to provide static dimming or multiple chases, or can accept a DMX input for inclusion into an external control system.

The Aqua Driver units are housed within black power-coated steel enclosures with IP20 ratings for dry indoor locations. The driver units are designed to be wall mounted.

Safety

- Ensure that the power input is supplied from a correctly fused, earthed and environmentally protected location.
- While Aqua Graze fixtures are rated to IP68* for submersible operation, the Aqua Driver units have IP20 ratings, for dry location installations only.

Maintenance

CAUTION: Always isolate mains power before starting maintenance operations.

- Ensure that all mounting (and device) screws/bolts are fully tight and free of corrosion.
- Ensure there is no deformation to the housing, lenses or fixing points.
- Check that all power supply cables are free from physical damage or material fatigue.
- Use only genuine spare parts supplied by Acclaim Lighting.

Cleaning

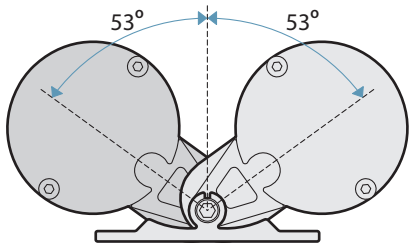
- Use a moist, lint-free cloth when cleaning each fixture.
- Never use alcohol or solvents.

Installation

Aqua Graze mounting and adjusting

When installing Aqua Graze fixtures, ensure that the surface is level and that nothing is protruding to damage the mounting brackets. Suitable mounting surfaces include steel, aluminum, concrete or wood structures.

Each mount bracket has two slots measuring 0.39" x 0.18" (10 x 4.5mm) and the base has a thickness of 1/8" (3mm). Select bolts or screws (not supplied) that fit the mount bracket base(s) correctly and are particularly suited to the mounting surface.

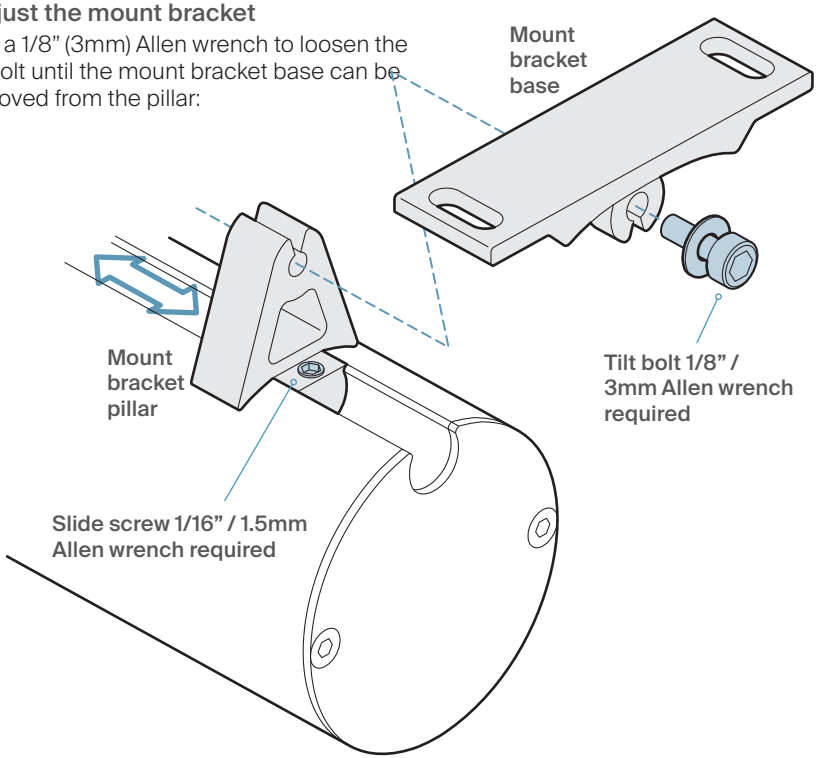


The Aqua Graze can be tilted roughly 53° in each direction from vertical. Use a 1/8" (3mm)Allen wrench to loosen the tilt bolts on the mounting brackets at each end of the fixture.

If a mount bracket needs to be moved along the length of the fixture, you will need to temporarily remove the mount bracket base in order to gain access to the slide screw.

To adjust the mount bracket

1 Use a 1/8" (3mm) Allen wrench to loosen the tilt bolt until the mount bracket base can be removed from the pillar:



2 Use a 1/16" (1.5mm) Allen wrench to loosen the slide screw and move the pillar to the required position.

3 Re-tighten the slide screw.

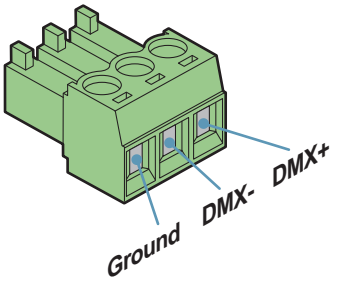
4 Refit the base onto the pillar and tighten the tilt bolt.

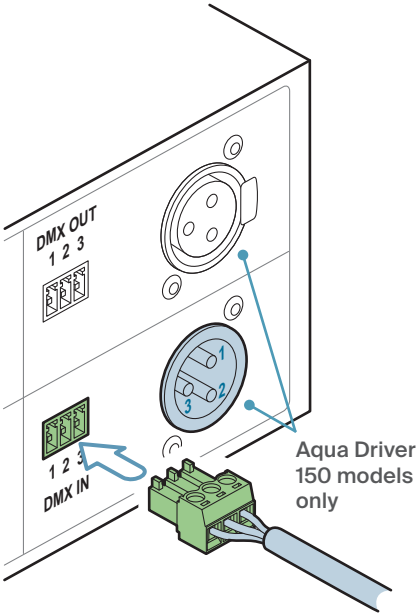
Aqua Driver mounting

Both Aqua Driver models can be wall mounted either vertically or horizontally as required. Two slotted holes (Ø 0.23" x 0.47" / Ø 6 x 12mm) are available on each side for mounting purposes - see "Dimensions" on pages 20 and 21.

Control input connections

Both Aqua Driver models can either operate in a standalone manner or be controlled by DMX. Three-pin terminal block IN and OUT ports are located on the front panel. In addition, the Aqua Driver 150 also provides 3-pin XLR IN and OUT sockets. See below for useful DMX tips. Connect your DMX cables to the terminal blocks as shown here:





Insert the terminal block into the DMX socket and ensure that it fully clicks into place. Repeat for the DMX OUT if the control signal needs to be fed to another device.

Tips for achieving successful DMX control

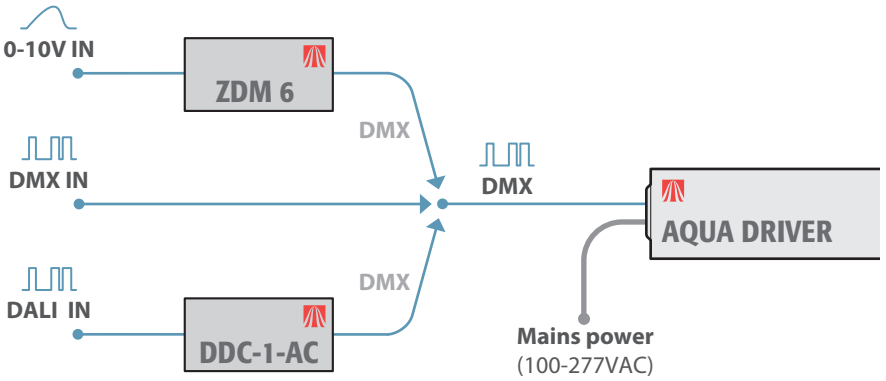
- Do not exceed a total cable length of 3,900 ft (1200m) without buffering.
- Do not exceed a total of 32 devices/fixtures on a single line without buffering.
- Use only connection cables with a characteristic impedance of 120Ω, preferably where the DMX + and DMX – data lines are twisted around each other and the ground link exists as a coaxial screen surrounding the inner cores, such as Belden® 9842 or equivalent.
- Connect a 120Ω terminating resistor between the DMX + and DMX – output connections of the final fixture.
- Do not introduce a passive Y-split into the control cabling. If it is necessary to split the control link in order feed fixtures located in different directions, use a powered DMX splitter/buffer.
- Ensure that the DMX + and DMX – connections do not become crossed at any point.

Alternative control inputs

Aqua Drivers use DMX as their native control method, however, it is possible to use other common control protocols when required, such as 0-10V (source or sink) or DALI.

Control inputs via converters

- DMX - connect a DMX input directly to the Aqua Driver.
- 0-10V - use an Acclaim Lighting ZDM 6 (or similar) to convert one or more analog control feeds into a combined DMX feed[1].
- DALI - use an Acclaim Lighting DDC-1-AC (or similar) to convert one or more DALI channels into a combined DMX feed[1].

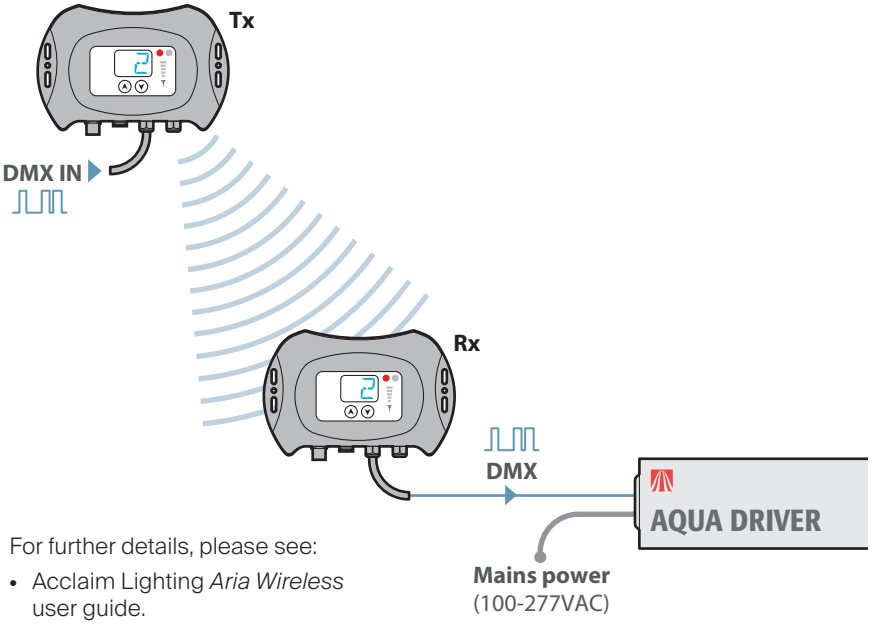


Notes:

[1] When using Acclaim Lighting ZDM 6 or DDC-1-AC modules it is possible to convert multiple inputs into separate DMX channels within a consolidated feed. The ZDM 6 can convert up to six 0-10V inputs into DMX channels, whereas the DDC-1-AC can convert a maximum of 64 DALI channels (although large numbers of channels are not recommended due to the timing limitations of the DALI standard).

Optional wireless control

Using optional Acclaim Lighting Aria modules it is possible to wirelessly transmit a DMX signal to an Aqua Driver over distances up to 2600 feet (792m).

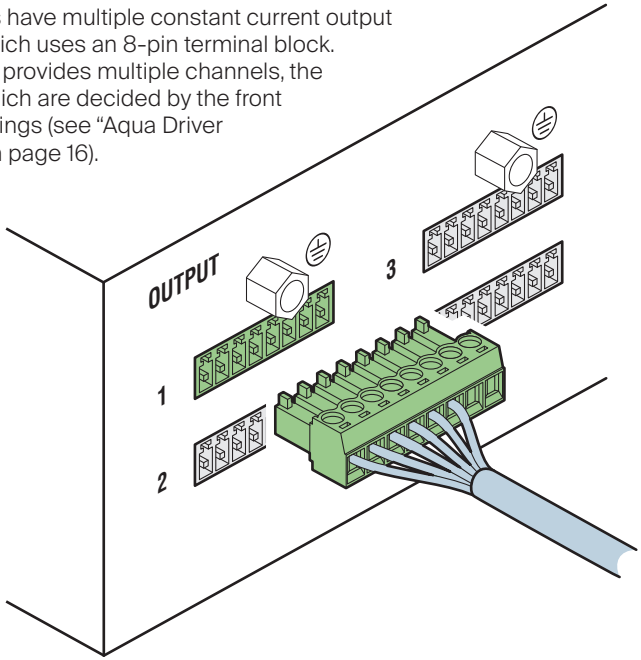


For further details, please see:

- Acclaim Lighting *Aria Wireless* user guide.

Output connections

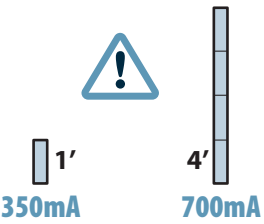
The Aqua Drivers have multiple constant current output ports, each of which uses an 8-pin terminal block. Each output port provides multiple channels, the addressing of which are decided by the front panel switch settings (see “Aqua Driver mode control” on page 16).



Port connection cables

Each Aqua Graze fixture is supplied with a 98’ (30m) cable terminated in an 8-pin terminal connector. In situations where this supplied cable is shortened and then wired into a separate supply cable, ensure the conductors of the supply cable are of sufficient size and that the total cable length (including that which remains of the Aqua Graze cable) is not exceeded:

Conductor size	Maximum length (including Aqua Graze cable)
• 18 AWG (0.823mm^2)	Up to 100’ (30m)
• 14 AWG (2.081mm^2)	Up to 125’ (38m)
• 12 AWG (3.309mm^2)	Up to 150’ (45m)

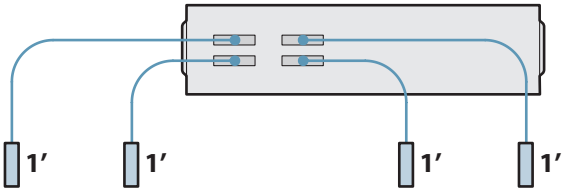


IMPORTANT: 1’ fixtures require a different drive current setting to the longer 4’ fixtures - it is vitally important to select the correct setting to avoid damage to the fixtures. The drive current setting affects all outputs equally, so it is not possible to mix the two sizes on the same driver unit. See “Fixture drive current selection” on page 10.

Fixture support with Aqua Driver 150

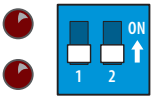
Aqua Graze 1’ fixtures

Up to **four** Aqua Graze 1’ fixtures can be used on a single Aqua Driver 150. Any of the port grouping options (*1 Group, 2 Group* or *4 Group - see page 11*) are appropriate for these fixtures.



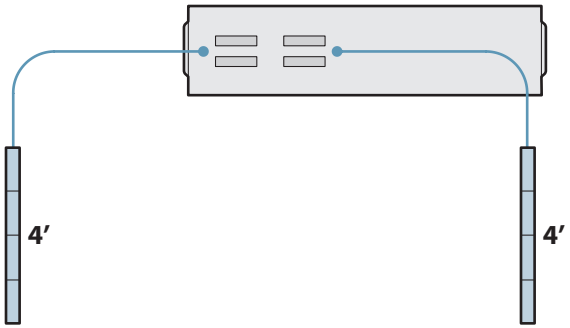
1’ fixtures require a 350mA drive current

On the 2-way switch block, ensure both switches are in the OFF position. Both of the adjacent indicators will be OFF during operation.



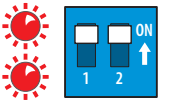
Aqua Graze 4’ fixtures

A maximum of **two** Aqua Graze 4’ fixtures can be used on a single Aqua Driver 150. Any of the port grouping options (*1 Group, 2 Group* or *4 Group - see page 11*) are appropriate for these fixtures.



4’ fixtures require a 700mA drive current

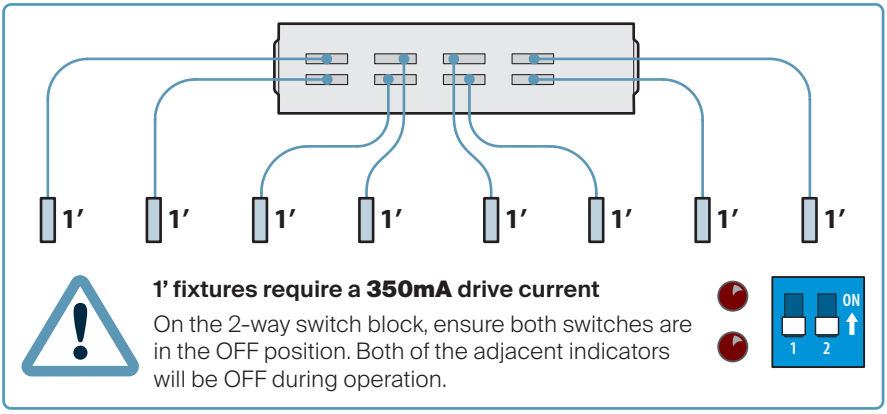
On the 2-way switch block, ensure both switches are in the ON position. Both of the adjacent indicators will be ON during operation.



Fixture support with Aqua Driver 400

Aqua Graze 1' fixtures

Up to **eight** Aqua Graze 1' fixtures can be used on a single Aqua Driver 400. Any of the port grouping options (*1 Group, 2 Group, 4 Group or 8 Group - see page 11*) are appropriate for these fixtures.

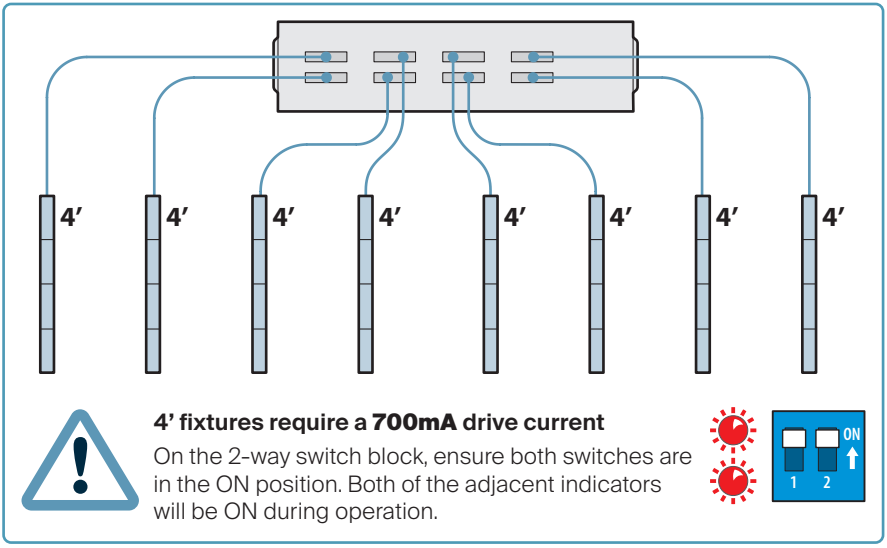


1' fixtures require a 350mA drive current

On the 2-way switch block, ensure both switches are in the OFF position. Both of the adjacent indicators will be OFF during operation.

Aqua Graze 4' fixtures

Up to **eight** Aqua Graze 4' fixtures can be used on a single Aqua Driver 400. Any of the port grouping options (*1 Group, 2 Group, 4 Group or 8 Group - see page 11*) are appropriate for these fixtures.



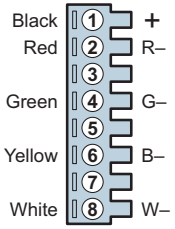
4' fixtures require a 700mA drive current

On the 2-way switch block, ensure both switches are in the ON position. Both of the adjacent indicators will be ON during operation.

Connector pin outs

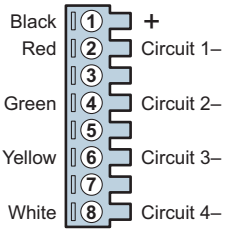
Aqua Graze RGBW/A

These connections are used for RGBW/A versions of the 1' and 4' Aqua Graze fixtures:



Aqua Graze White and Dynamic White

These connections are used for White/DW versions of the 1' and 4' Aqua Graze fixtures:



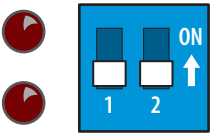
Fixture drive current selection

Aqua Graze 1' fixtures require a different drive current setting to the larger 4' fixtures - **it is vitally important to select the correct setting to avoid damage to the fixtures**. The drive current setting affects all outputs equally, so it is not possible to mix the 1' and 4' fixture lengths on the same driver.

Note: Changes to the drive current must be made while the Aqua Driver unit is powered down.

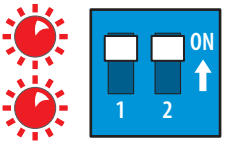
1' fixtures (350mA)

On the 2-way switch block, ensure both switches are in the OFF position. Both of the adjacent indicators will be OFF during operation.



4' fixtures (700mA)

On the 2-way switch block, ensure both switches are in the ON position. Both of the adjacent indicators will be ON during operation.



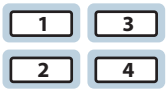
Port grouping

Aqua Driver 150

The four output ports can either be used individually under separate control or grouped in either pairs, or grouped all as one control block. The grouping status is determined by switches 1 and 2 of the 6-way switch block (see page 16).

4 Group

All four ports are controlled individually:

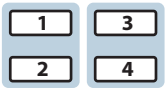


DMX channels required

White: 4 channels
DW: 8 channels
RGBW/A: 16 channels

2 Group

Ports 1 and 2 are controlled together as one group. Ports 3 and 4 are controlled as a separate group:

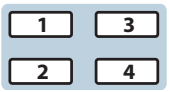


DMX channels required

White: 2 channels
DW: 4 channels
RGBW/A: 8 channels

1 Group

All four ports are controlled collectively:



DMX channels required

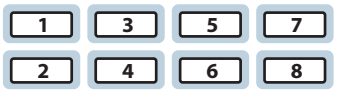
White: 1 channel
DW: 2 channels
RGBW/A: 4 channels

Aqua Driver 400

The eight output ports can either be used individually under separate control or grouped in either pairs, fours or grouped all as one control block. The grouping status is determined by switches 1 and 2 of the 6-way switch block (see page 16).

8 Group

All eight ports are controlled individually:

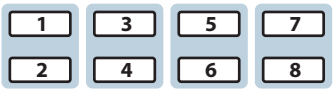


DMX channels required

White: 8 channels
DW: 16 channels
RGBW/A: 32 channels

4 Group

The eight ports are paired and jointly controlled as follows: Ports 1 and 2, ports 3 and 4, ports 5 and 6, ports 7 and 8:

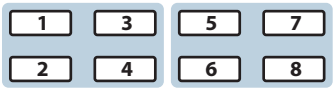


DMX channels required

White: 4 channels
DW: 8 channels
RGBW/A: 16 channels

2 Group

Ports 1, 2, 3 and 4 are controlled together as one group. Ports 5, 6, 7 and 8 are controlled as a separate group:

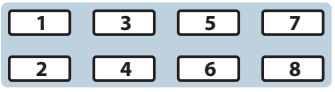


DMX channels required

White: 2 channels
DW: 4 channels
RGBW/A: 8 channels

1 Group

All eight ports are controlled collectively:



DMX channels required

White: 1 channel
DW: 2 channels
RGBW/A: 4 channels

DMX channel layouts

The number of DMX channels required to control the connected fixtures depends upon the following settings, which are configured using the 6-way switch block:

- Port grouping, and
- Fixture type

Aqua Driver 150

The various DMX channel requirements for the various port grouping and fixture type combinations on the Aqua Driver 150 are listed here:

DMX address	RGBW/A 4 Group	RGBW/A 2 Group	RGBW/A 1 Group
1	***Port 1:*** Red	***Ports 1 & 2:*** Red	***All:*** Red
2	***Port 1:*** Green	***Ports 1 & 2:*** Green	***All:*** Green
3	***Port 1:*** Blue	***Ports 1 & 2:*** Blue	***All:*** Blue
4	***Port 1:*** White/A	***Ports 1 & 2:*** White/A	***All:*** White/A
5	***Port 2:*** Red	***Ports 3 & 4:*** Red	
6	***Port 2:*** Green	***Ports 3 & 4:*** Green	
7	***Port 2:*** Blue	***Ports 3 & 4:*** Blue	
8	***Port 2:*** White/A	***Ports 3 & 4:*** White/A	
9	***Port 3:*** Red		
10	***Port 3:*** Green		
11	***Port 3:*** Blue		
12	***Port 3:*** White/A		
13	***Port 4:*** Red		
14	***Port 4:*** Green		
15	***Port 4:*** Blue		
16	***Port 4:*** White/A		

See “Port grouping” on page 11 and “External DMX control mode” on page 16 for DMX address configuration details.

DMX address	Dynamic White 4 Group	Dynamic White 2 Group	Dynamic White 1 Group
1	***Port 1:*** Cool	***Ports 1 & 2:*** Cool	***All:*** Cool
2	***Port 1:*** Warm	***Ports 1 & 2:*** Warm	***All:*** Warm
3	***Port 2:*** Cool	***Ports 3 & 4:*** Cool	
4	***Port 2:*** Warm	***Ports 3 & 4:*** Warm	
5	***Port 3:*** Cool		
6	***Port 3:*** Warm		
7	***Port 4:*** Cool		
8	***Port 4:*** Warm		

DMX address	White 4 Group	White 2 Group	White 1 Group
1	***Port 1:*** White	***Ports 1 & 2:*** White	***All:*** White
2	***Port 2:*** White	***Ports 3 & 4:*** White	
3	***Port 3:*** White		
4	***Port 4:*** White		

Aqua Driver 400

The various DMX channel requirements for the various port grouping and fixture type combinations on the Aqua Driver 400 are listed here:

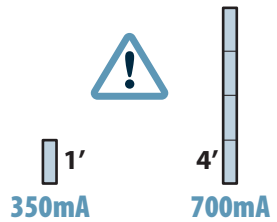
DMX address	RGBW/A 8 Group	RGBW/A 4 Group	RGBW/A 2 Group	RGBW/A 1 Group
1	***Port 1:*** Red	***Ports 1 & 2:*** Red	***Ports 1 to 4:*** Red	***All:*** Red
2	***Port 1:*** Green	***Ports 1 & 2:*** Green	***Ports 1 to 4:*** Green	***All:*** Green
3	***Port 1:*** Blue	***Ports 1 & 2:*** Blue	***Ports 1 to 4:*** Blue	***All:*** Blue
4	***Port 1:*** White/A	***Ports 1 & 2:*** White/A	***Ports 1 to 4:*** White/A	***All:*** White/A
5	***Port 2:*** Red	***Ports 3 & 4:*** Red	***Ports 5 to 8:*** Red	
6	***Port 2:*** Green	***Ports 3 & 4:*** Green	***Ports 5 to 8:*** Green	
7	***Port 2:*** Blue	***Ports 3 & 4:*** Blue	***Ports 5 to 8:*** Blue	
8	***Port 2:*** White/A	***Ports 3 & 4:*** White/A	***Ports 5 to 8:*** White/A	
9	***Port 3:*** Red	***Ports 5 & 6:*** Red		
10	***Port 3:*** Green	***Ports 5 & 6:*** Green		
11	***Port 3:*** Blue	***Ports 5 & 6:*** Blue		
12	***Port 3:*** White/A	***Ports 5 & 6:*** White/A		
13	***Port 4:*** Red	***Ports 7 & 8:*** Red		
14	***Port 4:*** Green	***Ports 7 & 8:*** Green		
15	***Port 4:*** Blue	***Ports 7 & 8:*** Blue		
16	***Port 4:*** White/A	***Ports 7 & 8:*** White/A		
17	***Port 5:*** Red			
18	***Port 5:*** Green			
19	***Port 5:*** Blue			
20	***Port 5:*** White/A			
21	***Port 6:*** Red			
22	***Port 6:*** Green			
23	***Port 6:*** Blue			
24	***Port 6:*** White/A			
25	***Port 7:*** Red			
26	***Port 7:*** Green			
27	***Port 7:*** Blue			
28	***Port 7:*** White/A			
29	***Port 8:*** Red			
30	***Port 8:*** Green			
31	***Port 8:*** Blue			
32	***Port 8:*** White/A			

See “Port grouping” on page 11 and “External DMX control mode” on page 16 for DMX address configuration details.

DMX address	DW 8 Group	DW 4 Group	DW 2 Group	DW 1 Group
1	***Port 1:*** Cool	***Ports 1 & 2:*** Cool	***Ports 1 to 4:*** Cool	***All:*** Cool
2	***Port 1:*** Warm	***Ports 1 & 2:*** Warm	***Ports 1 to 4:*** Warm	***All:*** Warm
3	***Port 2:*** Cool	***Ports 3 & 4:*** Cool	***Ports 5 to 8:*** Cool	
4	***Port 2:*** Warm	***Ports 3 & 4:*** Warm	***Ports 5 to 8:*** Warm	
5	***Port 3:*** Cool	***Ports 5 & 6:*** Cool		
6	***Port 3:*** Warm	***Ports 5 & 6:*** Warm		
7	***Port 4:*** Cool	***Ports 7 & 8:*** Cool		
8	***Port 4:*** Warm	***Ports 7 & 8:*** Warm		
9	***Port 5:*** Cool			
10	***Port 5:*** Warm			
11	***Port 6:*** Cool			
12	***Port 6:*** Warm			
13	***Port 7:*** Cool			
14	***Port 7:*** Warm			
15	***Port 8:*** Cool			
16	***Port 8:*** Warm			

DMX address	White 8 Group	White 4 Group	White 2 Group	White 1 Group
1	***Port 1:*** White	***Ports 1 & 2:*** White	***Ports 1 to 4:*** White	***All:*** White
2	***Port 2:*** White	***Ports 3 & 4:*** White	***Ports 5 to 8:*** White	
3	***Port 3:*** White	***Ports 5 & 6:*** White		
4	***Port 4:*** White	***Ports 7 & 8:*** White		
5	***Port 5:*** White			
6	***Port 6:*** White			
7	***Port 7:*** White			
8	***Port 8:*** White			

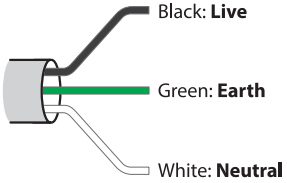
See “Port grouping” on page 11 and “External DMX control mode” on page 16 for DMX address configuration details.



IMPORTANT: 1’ fixtures require a different drive current setting to the longer 4’ fixtures - it is vitally important to select the correct setting to avoid damage to the fixtures. The drive current setting affects all outputs equally, so it is not possible to mix the two sizes on the same driver unit. See “Fixture drive current selection” on page 10.

Power input

The fixed power cord is supplied as standard with US color coding and bare tails. For international installations, wire according to local codes.



Power cord colors

The Aqua Driver power requirements are as follows:

- Voltage: 100-277VAC 50/60Hz

The red front panel indicator will illuminate when power is applied. The other two indicators located just below the power indicator are not used.

In-rush current

The Aqua Drivers use switched mode power supplies which exhibit a trait known as 'in-rush current' when they are first powered on. This is caused by the various capacitive components initially topping themselves up with power. The in-rush current period lasts only milliseconds, however, if you are using multiple units on a single supply, ensure that the breakers used are rated to support inrush currents without tripping during startup.

Aqua Driver mode control

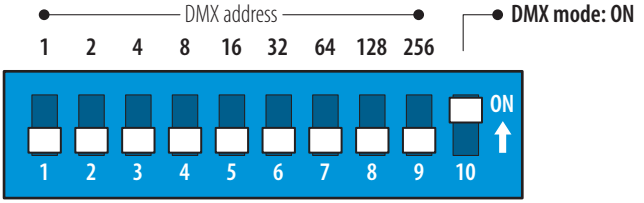
The manner in which the Aqua Driver output ports are grouped and operate is determined by the settings of the three switch blocks located on the front panel. There are three main ways to use the Aqua Driver:

- External DMX control mode,
- Standalone mode using internal chase programs,
- Standalone mode using adjustable static dimming.

External DMX control mode

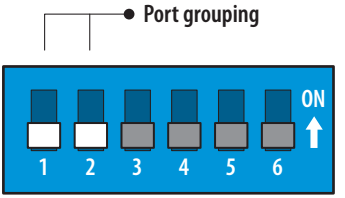
To allow DMX control you need to:

1 Set switch 10 of the 10-way switch block ON to choose DMX mode.



2 Select the required DMX base address using switches 1 to 9 of the 10-way switch block. Each of the nine switches is 'weighted' with a value as shown here. Numerous apps are available to assist you with configuring the correct switch combinations for a given DMX address. *Note: The total number of DMX channels required for control will depend upon the chosen port grouping and fixture types (see "DMX channel layouts" on page 12).*

3 Use switches 1 and 2 of the 6-way switch block to choose the required grouping of channel outputs as required by the Aqua Graze fixtures being connected and their required functions.

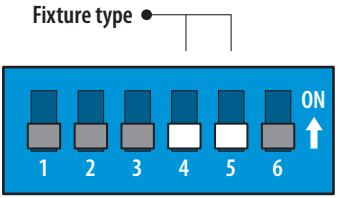


1	2	**Port grouping**	
		Driver 150	*Driver 400*
OFF	OFF	1 group	1 group
ON	OFF	2 group	2 group
OFF	ON	4 group	4 group
ON	ON	4 group	8 group

Note: Ensure the correct fixture current is selected - see page 10.

See "Port grouping" on page 11 for more details.

4 Use switches 4 and 5 of the 6-way switch block to set the type of Aqua Graze fixtures being used:



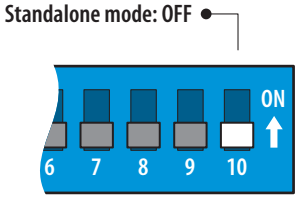
4	5	**Fixture type**
ON	OFF	White
OFF	ON	Dynamic White (DW)
ON	ON	RGBW/A

Note: The chosen fixture type (RGBW/A, DW or White) is applied globally to all ports. However, the electrical characteristics of the ports do not change (only their logical addressing configuration), so it is possible to mix white fixtures into an RGBW set up. As such, the various white emitters of the fixture would respond individually to the separate RGBW channel addresses.

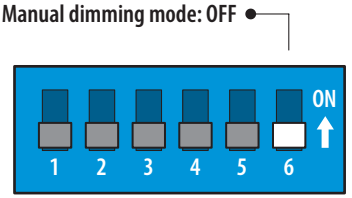
Standalone mode using internal chase programs

In standalone mode, all ports are treated as one group. *Note: all switch settings can be changed when the driver is off or on.* To configure the Aqua Driver for standalone chase mode you need to:

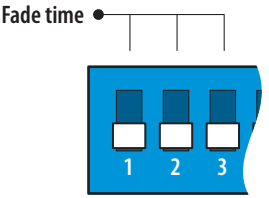
1 On the 10-way switch block, set switch 10 OFF to choose standalone mode.



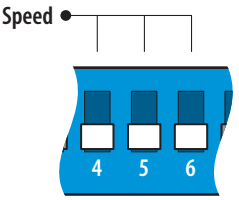
2 On the 6-way switch block, set switch 6 OFF to use chase programs, instead of dimming.



3 On the 10-way switch block, use switches 1 to 3 to choose the required fade time between chase steps. If all three switches are OFF, the chase states will snap between each other. All three switches ON will produce the smoothest fade *(Note: switch 3 is weighted as the most significant bit).*

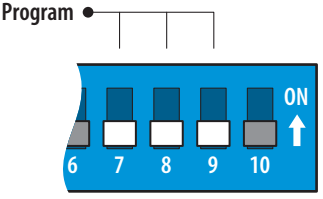


4 Use switches 4 to 6 of the 10-way switch block to choose the required speed of chase. If all three switches are OFF, the chase will run at its fastest speed, with 0.1 seconds between steps.



4	5	6	Speed
OFF	OFF	OFF	0.1 seconds
ON	OFF	OFF	0.2 seconds
OFF	ON	OFF	0.5 seconds
ON	ON	OFF	1 second
OFF	OFF	ON	5 seconds
ON	OFF	ON	10 seconds
OFF	ON	ON	20 seconds
ON	ON	ON	30 seconds

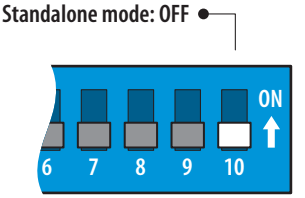
5 Use switches 7 to 9 of the 10-way switch block to choose the required program. If all three switches are ON, an Auto mode will cycle between all of the available programs.



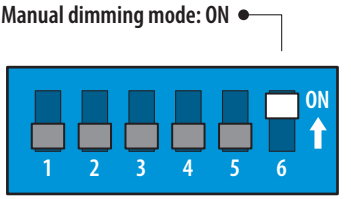
Standalone mode using adjustable static dimming

In standalone mode, all ports are treated as one group. *Note: all switch settings can be changed when the driver is off or on*. To configure the Aqua Driver for standalone static dimming you need to:

1 On the 10-way switch block, set switch 10 OFF to choose standalone mode.

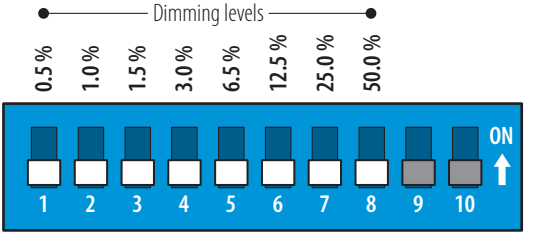


2 On the 6-way switch block, set switch 6 ON to choose manual dimming mode.



3 On the 10-way switch block, use switches 1 to 8 to choose the overall dimmed output for every connected Aqua Graze fixture.

Each of the 8 switches represents a particular dimming level. When a switch is ON, its corresponding dimming level is added to the overall output of all emitters; allowing stepped outputs from 0 through to 100% to be selected. For 100%, place all 8 of the switches in the ON position.



Further information

Aqua Graze and Driver specifications

Aqua Graze fixtures

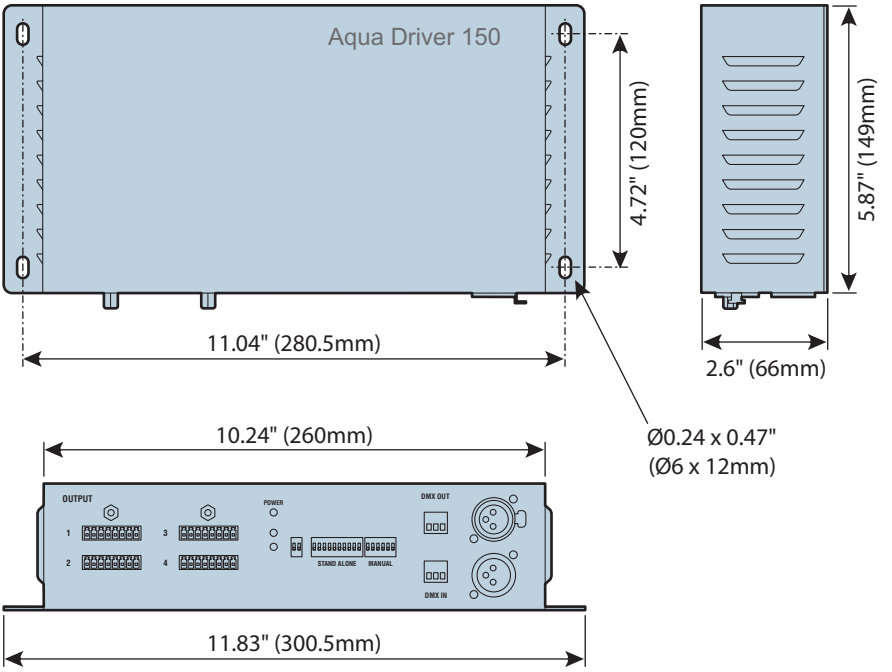
Emitters	2700K, 3000K, 3500K or 4000K, or DW (2400K-5500K) RGBW (W=3000K, 4000K or 6000K), RGBA
Optics	10° x 10°, 25° x 25°, 40° x 40°, 60° x 60°, 90° x 90°, 10° x 60° or 30° x 60°
Output	Up to 730 lumens per linear foot (3000K 10° x 60° variant)
Lumen maintenance (L_{70})	150,000 hours (25°C)
Operating voltage	24VDC constant current
Power consumption	12W (1' model), 48W (4' model)
Fixture cabling	98' (30m) STOW cable with terminal block termination
Housing	Anodized oxidation aluminum body, glass top lens
Mounting	53° swivel mounts included
Ingress protection	IP68, submersible up to 10' (3m)
Impact protection	IK06, protection against 1 joule impact
Operating temperature	-40°F to 122°F (-40°C to 50°C)
Weight	1.5 lbs/0.68kg (1' model), 6 lbs/2.72kg (4' model)
Certifications	C ETL LISTED US Intertek CE UL676 Pool & Spa

Aqua Driver 150 and 400 controllers

Control	DMX plus internal standalone chases and dimming
Input voltage	100 to 277VAC (50/60Hz) - auto sensing
Output	350 to 700mA constant current
Output ports	Aqua Driver 150: 4 Aqua Driver 400: 8
Operating temperature	0°F to 158°F (-20°C to 70°C)
Housing	Aluminum
IP rating	IP20, indoor dry location
IK rating	IK06, protection against 1 joule impact

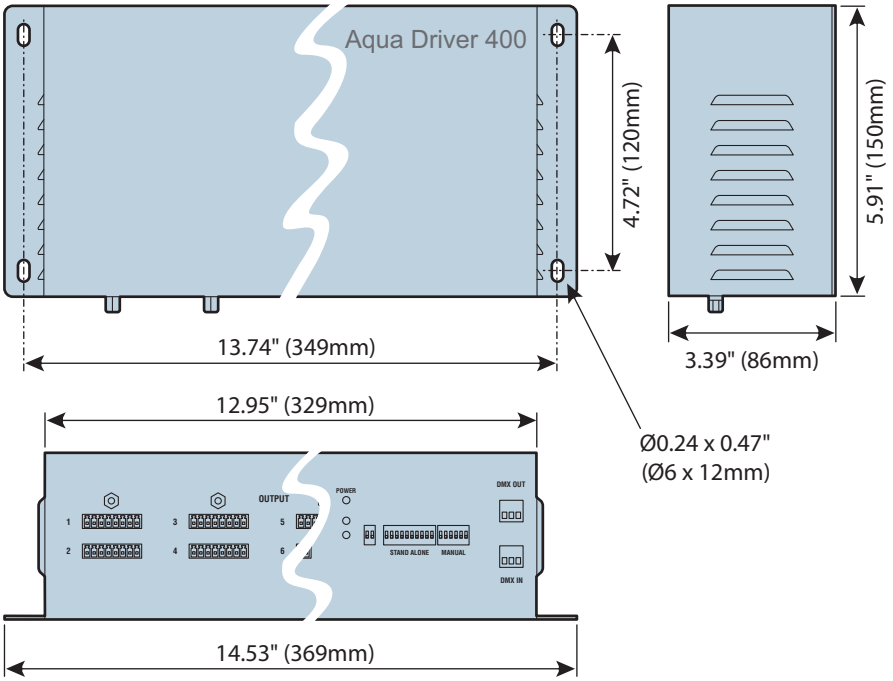
Dimensions

Aqua Driver 150

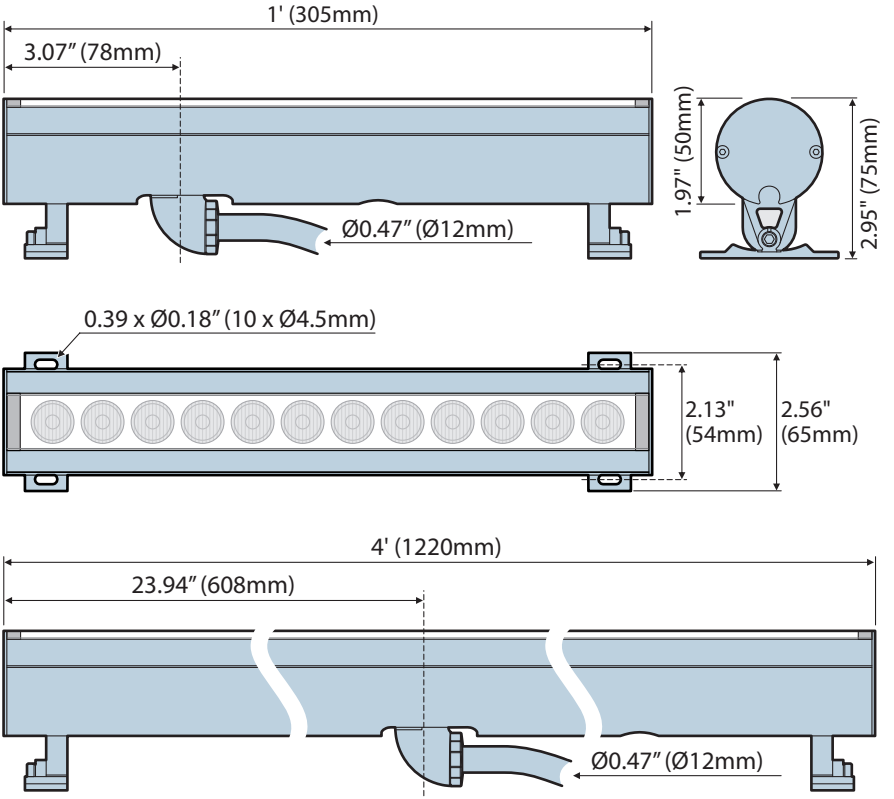


Weight: 2.6 lbs (1.18 kg)

Aqua Driver 400



Weight: 4.4 lbs (1.99 kg)



Fixture weights:
1' models: 1.5 lbs (0.68 kg)
4' models: 6 lbs (2.72 kg)

Limited product warranty

A. Acclaim Lighting™ hereby warrants, to the original purchaser, Acclaim Lighting finished products to be free of manufacturing defects in material and workmanship for a standard period of:

- Fixtures: 5 Years (1,825 days) from the date of purchase.
- Drivers, power supplies and accessories: 5 Years (1,825 days) from the date of purchase.
- Flex Products: 3 Years (1,095 days) from the date of purchase.
- Controllers: 2 Years (730 days) from the date of purchase.

It is the owner's responsibility to establish the date and place of purchase and warranty terms by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Acclaim factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Acclaim Lighting 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, Acclaim Lighting shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return there of. Acclaim reserves the right to replace the item with same or similar product at its discretion.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Acclaim concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Acclaim Lighting factory unless prior written authorization was issued to purchaser by Acclaim Lighting; 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 nor do we guarantee as part of this warranty any lumen performance during period. Parts not covered by this warranty include: fuses, external power supplies, third party items not manufactures by Acclaim lighting. During the period specified above, Acclaim Lighting 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 Acclaim Lighting under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Acclaim Lighting. At no time will installation or re-installation or products labor or liability costs will be assumed by Acclaim Lighting. All products covered by this warranty were manufactured after January 1, 2012, and bear identifying serial number marks to that effect.

E. Acclaim Lighting reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products describe above. Except to the extent prohibited by applicable law, all implied warranties made by Acclaim Lighting 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.

F. Marine or extreme weather location applications using Acclaim lighting products are subject to a 2 year limited warranty and Acclaim must be notified prior to delivery of units for such applications so that preventative treatment can be made to the products to ensure proper performance and product life with a special marine code coating / sealing process at an additional cost.

G. The consumer's and or dealer's sole remedy shall be such repair or replacement as is expressly provide above; and under no circumstances shall Acclaim Lighting be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product. This warranty is the only written warranty applicable to Acclaim Lighting products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

www.acclaimlighting.com