Aqua Graze™

Acclaim™

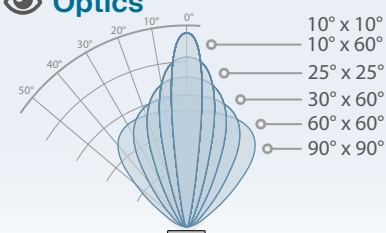**Aqua Graze™** fixtures are high output, submersible linear LED fixtures suitable for use in all aquatic locations down to a depth of 10' (3m). A range of emitter types, lens options and full UL676 Pool & Spa certification make these fixtures particularly suited for exterior façade washing as well as fountain, pond and landscape applications.

Two length options (1' and 4') are available, both featuring sturdy mount brackets that allow the fixture to be rotated 53° from vertical in either direction. Each fixture is supplied pre-fitted with a 98' (30m) STOW cable ready for long term installation in the most testing environments.

At a glance

👁 Optics

10° x 10°
10° x 60°
25° x 25°
30° x 60°
60° x 60°
90° x 90°

🖌 Emitters

Fixed White (2700K, 3000K, 3500K or 4000K)

or

Dynamic White (DW) (2400K to 5500K)

or

RGBW (W=3000K, 4000K or 6000K)

or

RGBA

▤ Sizes

1' (305mm) ▶

4' (1220mm) ▼

🔌 Power

Low voltage: **24VDC** via Aqua Driver

🌡 Temperature

-40° F to **122° F**
-40° C to **50° C**

🌧 Protection

Ingress: **IP68**
Impact: **IK08**

📊 Output

Up to **729** lumens per linear foot

🔧 Material

Dark gray anodized oxidation aluminum body Marine environment ready

Configure your product

AQG-281-   **N**

Example final code: **AQG-281-DKLN**

Size:
A = 1' (305mm)
D = 4' (1220mm)

Optics:
C = 10° x 10°
F = 25° x 25°
H = 40° x 40°
K = 60° x 60°
L = 90° x 90°
P = 10° x 60°
Q = 30° x 60°

Emitters:
A = 2700K
C = 3000K
D = 3500K
E = 4000K
X = DW (2400K-5500K)
U = RGBW, W=3000K
L = RGBW, W=4000K
W = RGBW, W=6000K
J = RGBA

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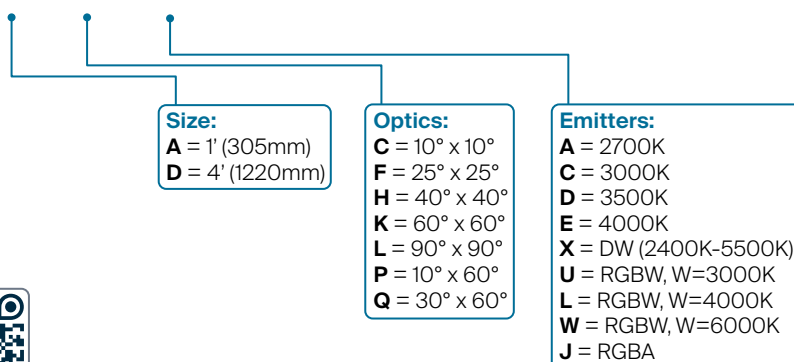
PROJECT	FIRM	ORDER #	TYPE	QTY

Specifications

Emitters	2700K, 3000K, 3500K, 4000K, DW (2400K-5500K), RGBW (W=3000K, 4000K or 6000K) or 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 729 lumens per linear foot (3000K, 10° x 60°)
Lumen maintenance	L_{70} 150,000 hours (@ 25° C)
Control	0-100% dimming through DMX (via Aqua Driver 150 or 400)
Fixtures per driver	Aqua Driver **150**: up to 4 fixtures; Aqua Driver **400**: up to 8 fixtures (see page 6)
Operating voltage	24VDC, constant current via Aqua Driver 150 or 400. Aqua Drivers require 100-277VAC, 50/60Hz
Power consumption	**1'**: 12W **4'**: 48W
Connection	98' (30m) STOW cable included (sealed at the fixture end, terminal block at the driver end)
Mounting	Two 53° swivel mounting brackets included
Material	Anodized oxidation aluminum body with glass top lens
Finish	Dark gray, marine environment ready
Ambient temperature range	–40° F to 122° F (–40° C to 50° C)
Ingress protection	IP68, submersible to 10' (3m)
Impact protection	IK08, protection against 5 joule impact (40cm distance) - walk over rated
Warranty	5 years, limited
Weight	**1'**: 1.5 lbs (0.68 kg) **4'**: 6 lbs (2.72 kg)
Dimensions	**L**x**W**x**H:** 12" or 48" x 2.56" x 2.95" (305 or 1220 x 65 x 75mm). See also page 4
Certifications	cETLus Intertek CE UL676 Pool & Spa

Photometrics

For all available IES files, please visit acclaimlighting.com/aqua-graze

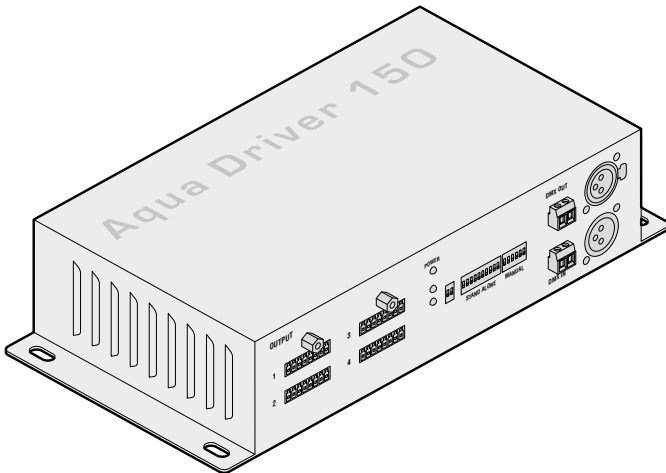| Color or color temperature	Lumens	Center Candela	Efficacy (lm/W)	CRI (Ra)	TM30
3000K (10° x 60°)	729	2,090	56	81.4	81.1
RGBW (10° x 60°)	613	1,936	37	–	–

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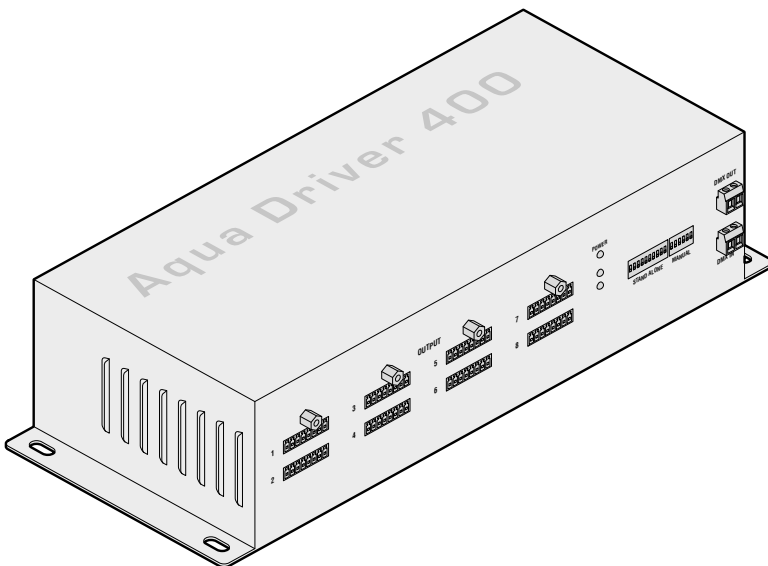
Related components

Driver
Aqua Driver 150

100-277VAC 50/60Hz input, 24VDC plus PWM outputs
Supports up to **four** 1' or up to **two** 4' Aqua Graze fixtures
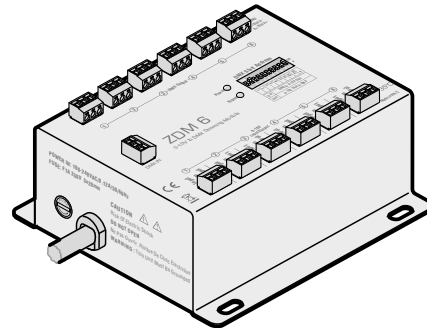
Part #   **ADR157**

Aqua Driver 400

100-277VAC 50/60Hz input, 24VDC plus PWM outputs
Supports up to **eight** Aqua Graze fixtures (all 1' or all 4')

Part #   **ADR400**

Signal converters (see page 5)

Multi-channel (0-10V) converter   **ZDM6**
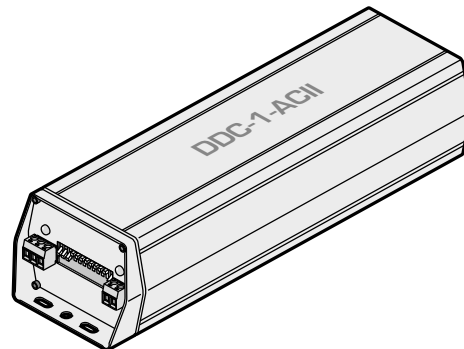
DALI multiple channel converter   **DDC 1 AC**

*Note: The Aqua Driver 150 and 400 models both support Aqua Graze fixtures that are **either** 1' **or** 4' in length. Different lengths cannot be mixed on the same driver - and the appropriate drive current must be configured before power on. Please see page 6 for details.*

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PROJECT	FIRM	ORDER #	TYPE	QTY

Dimensions

1' (305mm)

3.07" (78mm)

Ø0.47" (Ø12mm)

1.97" (50mm)

2.95" (75mm)

0.39 x Ø0.18" (10 x Ø4.5mm)

2.13" (54mm)

2.56" (65mm)

4' (1220mm)

23.94" (608mm)

Ø0.47" (Ø12mm)

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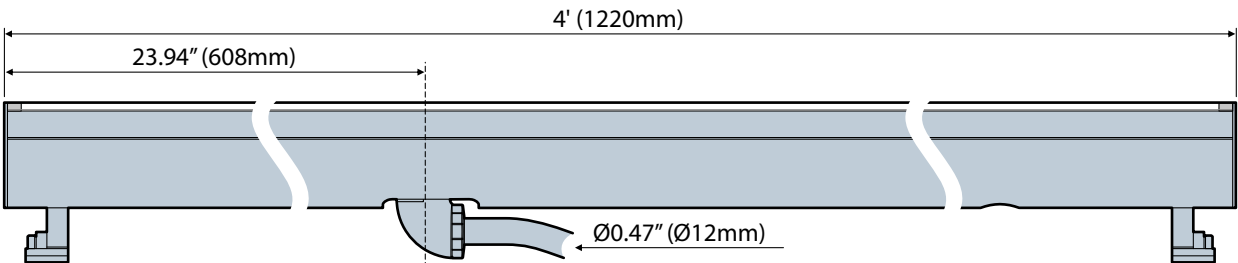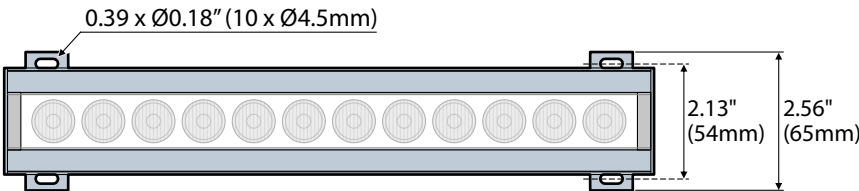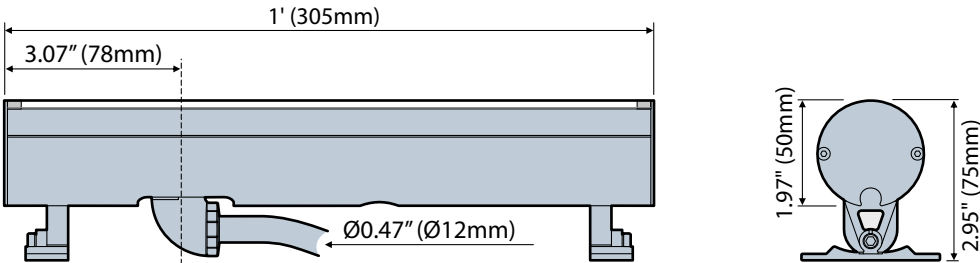
Alternative control inputs

Aqua Driver/Aqua Graze fixtures 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 feed cable.
- 0-10V – use an Acclaim Lighting ZDM 6 to convert one or more analog control feeds into a combined DMX feed.
- DALI – use an Acclaim Lighting DDC-1-AC to convert one or more DALI channels into a combined DMX feed.

0-10V IN

ZDM 6

DMX

DMX IN

DMX

DALI IN

DDC-1-AC

DMX

Mains power
(100-277VAC)
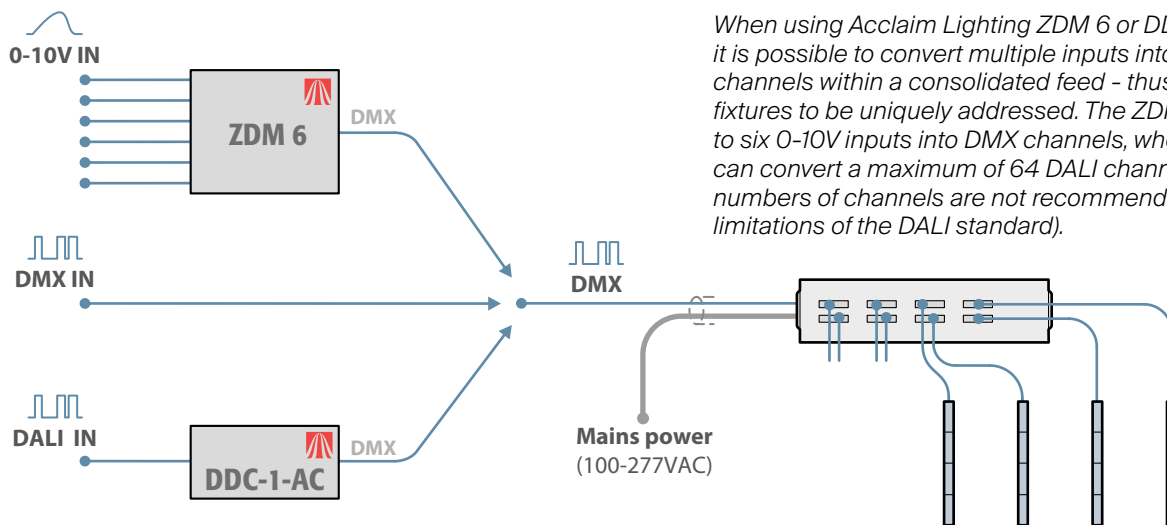
When using Acclaim Lighting ZDM 6 or DDC-1-AC modules it is possible to convert multiple inputs into separate DMX channels within a consolidated feed - thus allowing multiple fixtures to be uniquely addressed. The ZDM 6 can convert up to six 0-10V inputs into DMX channels, whereas the DDC-1-AC can convert a maximum of 64 DALI channels (although large numbers of channels are not recommended due to the timing limitations of the DALI standard).

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Driver connections

The various sizes of Aqua Graze fixtures use one of two drive currents: 350mA or 700mA. The Aqua Driver modules can either be switched to one current setting or the other. This means that it is not possible to mix 1' and 4' models on the same driver.

350mA **700mA**

1'

4'
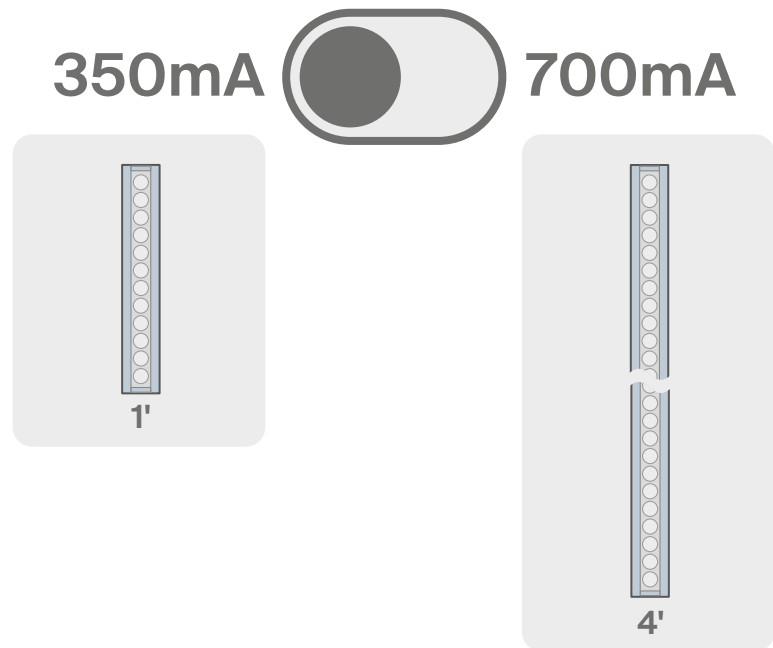
Aqua Driver 150

These drivers can supply either:
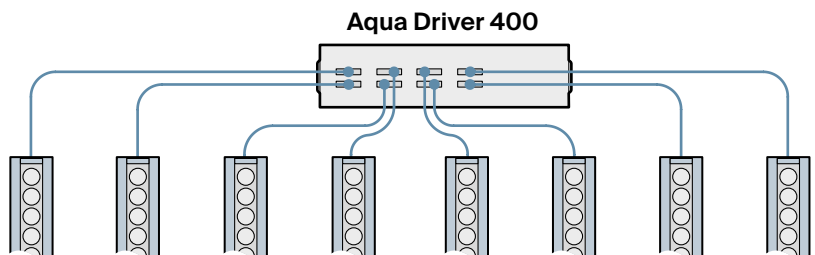
- Up to **four 1' fixtures** at the 350mA setting.
  or
- Up to **four 4' fixtures** at the 700mA setting.
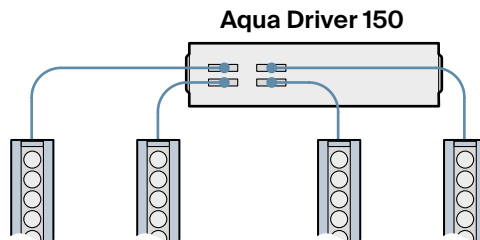
Aqua Driver 150

Aqua Driver 400

These drivers can supply either:

- Up to **eight 1' fixtures** at the 350mA setting.
  or
- Up to **eight 4' fixtures** at the 700mA setting.

**Aqua Driver 400**

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Aqua Graze cabling

Cables

Each Aqua Graze fixture is fitted with a 98' (30m) STOW cable (**S**ervice, **T**hermoplastic, **O**il and **W**ater resistant). The cable is sealed at the rear of the fixture and has a terminal block at the driver end. The cable can be shortened and re-wired to the terminal block, as necessary. The outer diameter of the STOW cable is 0.47" (12mm).
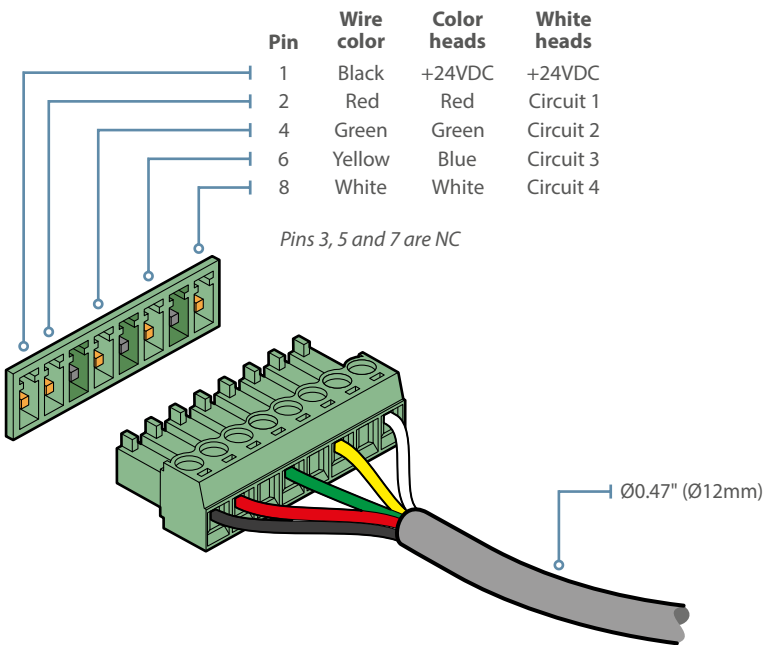

98' (30m)
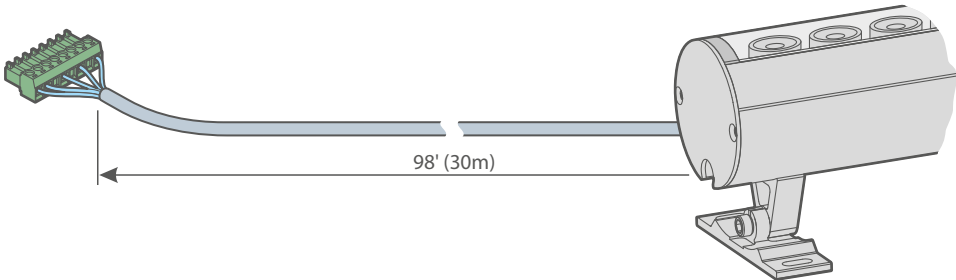
In situations where the Aqua Graze cable is connected to a supply cable before arriving at the driver, ensure the conductors of the supply cable are of sufficient size and that the total cable length (including the Aqua Graze cable) is not exceeded:

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)

Cable pinout

Each Aqua Graze cable has five wires connected to an 8-way terminal block:

Pin	Wire color	Color heads	White heads
1	Black	+24VDC	+24VDC
2	Red	Red	Circuit 1
4	Green	Green	Circuit 2
6	Yellow	Blue	Circuit 3
8	White	White	Circuit 4

Pins 3, 5 and 7 are NC

Ø0.47" (Ø12mm)

Mixing white and color Aqua Graze fixtures

Each Aqua Driver module uses switch settings to determine whether the attached fixtures have fixed white or color mixing emitters. The chosen setting is applied to all ports of the driver. However, the electrical characteristics of the ports do not change, only their logical addressing configuration. Therefore, if necessary, it is possible to integrate fixed white fixtures into a driver configured for color mixing.

When a fixed white model is attached to a driver running in color mixing mode, the various white emitter circuits of the fixture will respond individually to the equivalent RGBW/A DMX channel addresses. This behavior can be accommodated by grouping those channels together at the DMX controller.

Note: The restriction on not mixing 1' fixtures (whether fixed white or color mixing) with 4' fixtures still remains.

For full installation details, please refer to the **user guide**, available for free download here: