

PROJECT

FIRM

ORDER #

TYPE

QTY



Aqua Driver 4™ units provide four outputs to drive Aqua Drum E3 and S3 plus Aqua Linear 1' and 4' fixture heads. The various head types can be mixed on a single driver on condition that the emitter options are consistent across all connected heads.

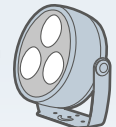
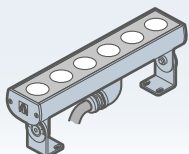
Aqua Sense technology automatically configures the current requirements of the connected heads at each power up. This ensures that the current settings are always correct for each head and no switch settings are required.

Aqua Driver 4 units are available in two versions to suit their mounting locations:

- **Standard** - features hardwire terminal blocks for landing fixture connections within a dry location. The unit has an overall IP44 rating.
- **Pool & Spa** - for when the driver needs to be mounted within pool and spa areas. Heads are linked via IP68-rated 6-way connectors. The unit has an overall IP66 rating.

The internal auto-switching power supply can operate from mains inputs ranging from 100-277VAC, 50/60Hz and up to 125W can be supplied to each output port.

At a glance

Power	Temperature	Protection	Control	Supported fixtures x4
100 to 277VAC 50/60Hz 600W	-40° F to 122° F -40° C to 50° C	Ingress: IP44 or IP66 Impact: IK10	 DMX	 Aqua Drum E3 and S3  Aqua Linear 1' and 4'

Order codes

AQDR4S Aqua Driver 4 Standard model (IP44)

AQDR4P Aqua Driver 4 Pool & Spa model (IP66)



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Specifications

Operating voltage	100-277VAC, 50/60Hz
Maximum input power	600W
Control	0-100% dimming via wired DMX
Output	24VDC, constant current
Maximum power per port	125W
Output connectors	Four separate 6-way ports using either terminal blocks or IP68 connectors (see page 6)
Mounting	4 x mounting slots Ø0.2" x 0.39" (Ø5 x 10mm) - see pages 4 and 5
Material	Aluminum
Finish	Black powder coat
Ambient temperature range	-40° F to 122° F (-40° C to 50° C)
Ingress protection	Standard model: IP44, dry location Pool & Spa model: IP66, wet location
Impact protection	IK10, protection against 20 joule impact (40cm distance)
Warranty	5 years, limited
Weight	Standard model: 10.58 lbs (4.8kg) Pool & Spa model: 12.12 lbs (5.5kg)
Dimensions	See pages 4 and 5
Certifications	   

Alternate power modes

To obtain the best possible performance, every Aqua Driver 4 can be configured in either 'Dry' or 'Wet' modes to reflect the positioning of the connected fixtures. In 'Dry' or non-submerged mode, the fixtures are scaled by 50% to ensure their emitters remain within the correct thermal envelope. When fixtures are fully submerged then 'Wet' mode can be invoked to remove the scaling and boost output. These changes are enacted by altering the pulse width modulation (PWM) patterns that control emitter dimming rather than adjusting the LED drive current; this ensures consistency in color mixing and color temperatures between modes.



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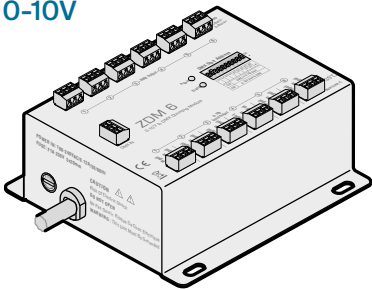
TYPE

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Related components

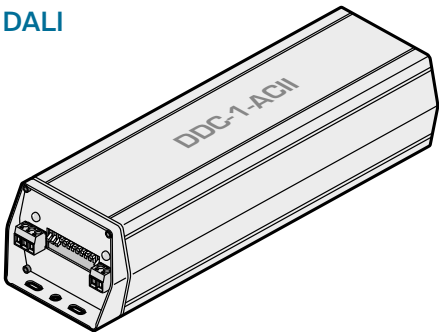
Signal converters (see page 12)

0-10V



Multi-channel (0-10V) converter **ZDM6**

DALI

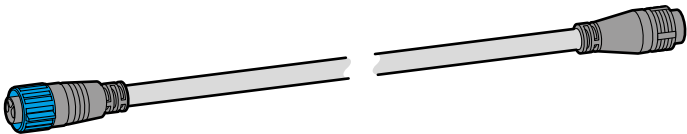


DALI 2 (DT6 & DT8) 64 channel converter **DDC 1 AC**

Cables

For use with Pool & Spa models only.

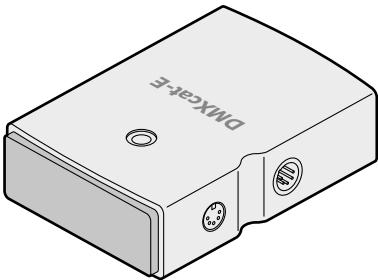
Link cables



1' (30cm)
5' (1.5m) **AQDLC1**
AQDLC5

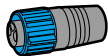
Configuration tool

Test and configuration tool kit



DMX/RDM, ArtNet, sACN, SMPTE LTC and Midi test/configuration tool **DMXcat-E**

Terminator (end cap)



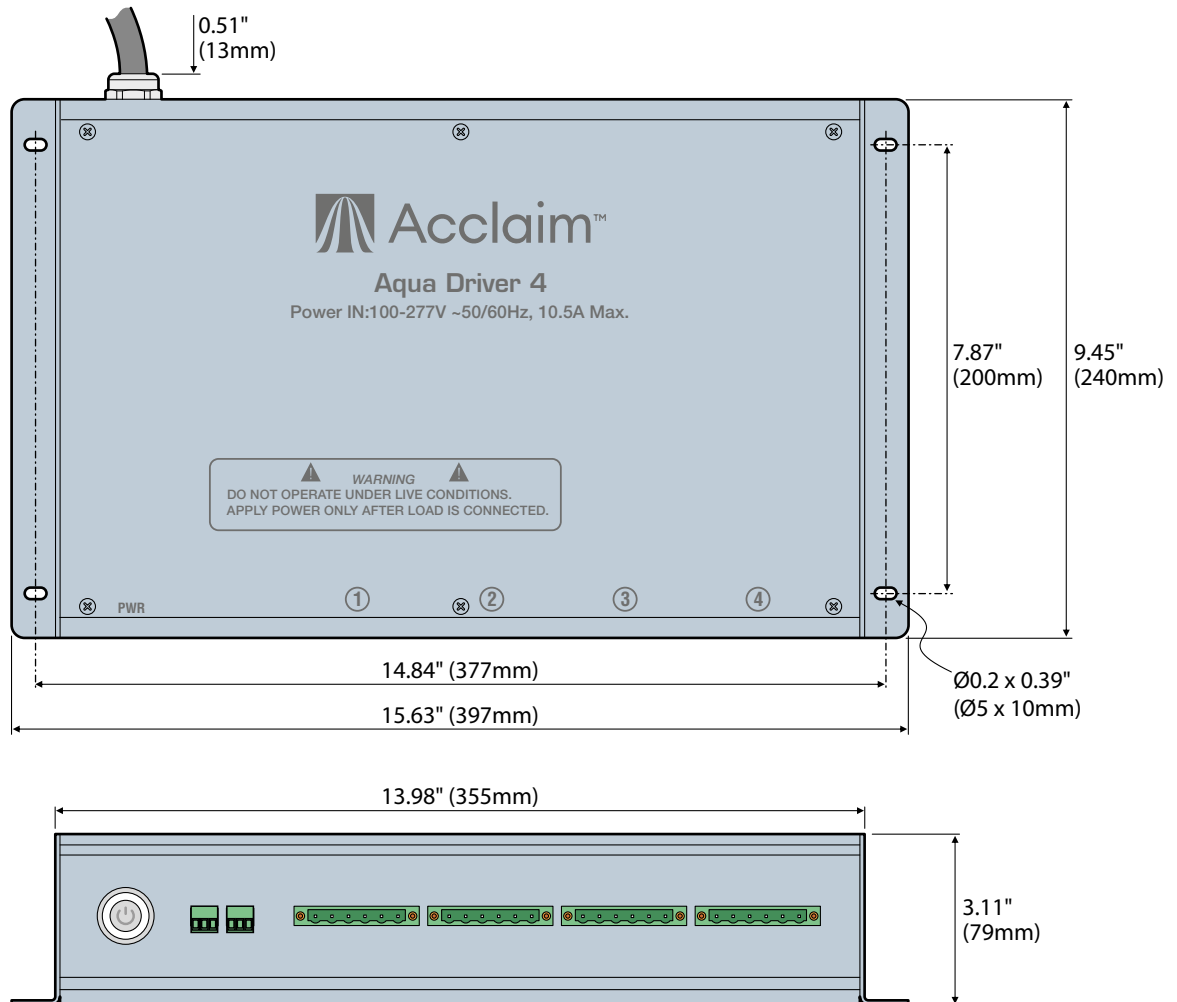
Terminator **AQDECT**



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Dimensions

Aqua Driver 4 Standard



Weight: 10.58 lbs (4.8kg)

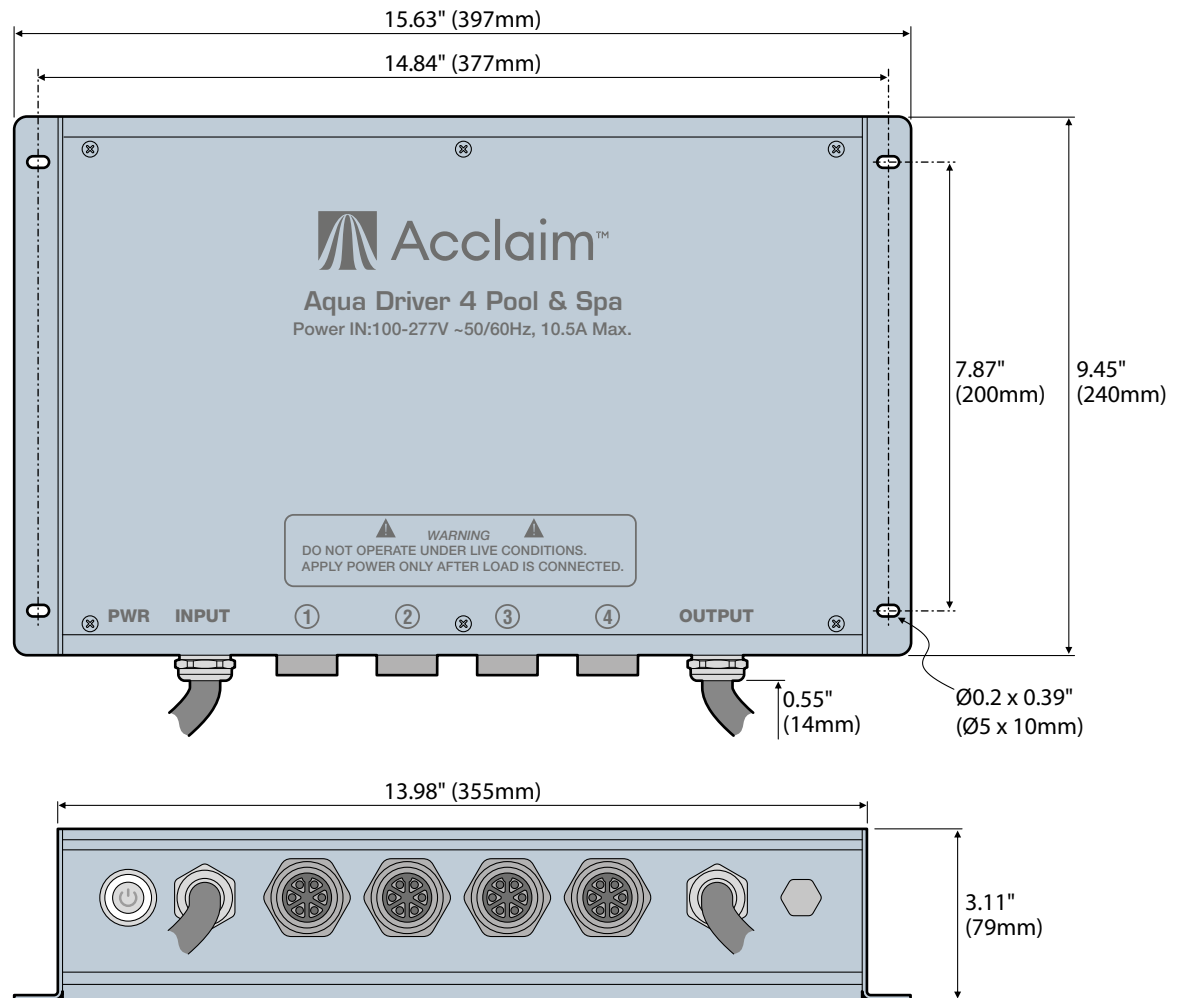
Note: Mixtures of Aqua-series heads can be mixed on a single Aqua Driver 4, e.g. Aqua Drum E3, Aqua Drum S3, Aqua Linear 1' and Aqua Linear 4' can all be driven from the same unit if required. All heads connected to the driver must have the same emitter options.



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Dimensions

Aqua Driver 4 Pool & Spa



Weight: 12.12 lbs (5.5kg)

Note: Mixtures of Aqua-series heads can be mixed on a single Aqua Driver 4, e.g. Aqua Drum E3, Aqua Drum S3, Aqua Linear 1' and Aqua Linear 4' can all be driven from the same unit if required. All heads connected to the driver must have the same emitter options.

Note: A 9' (3m) power/control feed in cable is supplied with the Pool & Spa model. Due to connector power restrictions, a maximum of three Aqua Driver 4 Pool & Spa units can be daisy chained together. Link cables and terminators are available for use with the output connection.

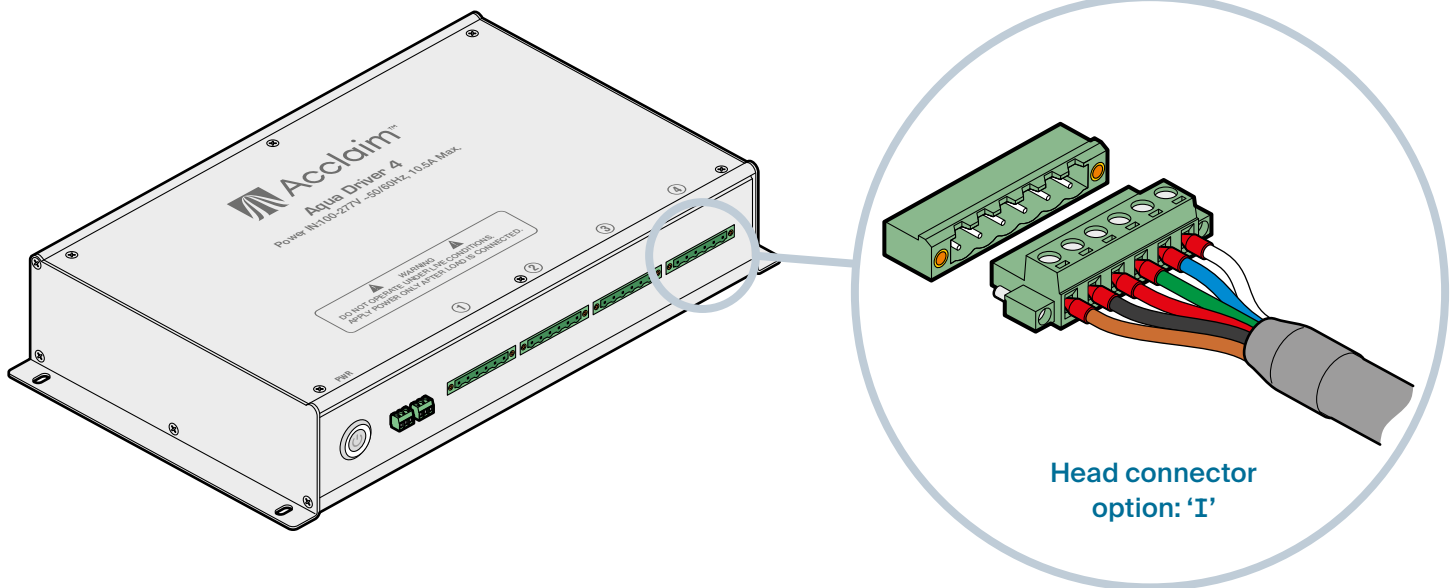


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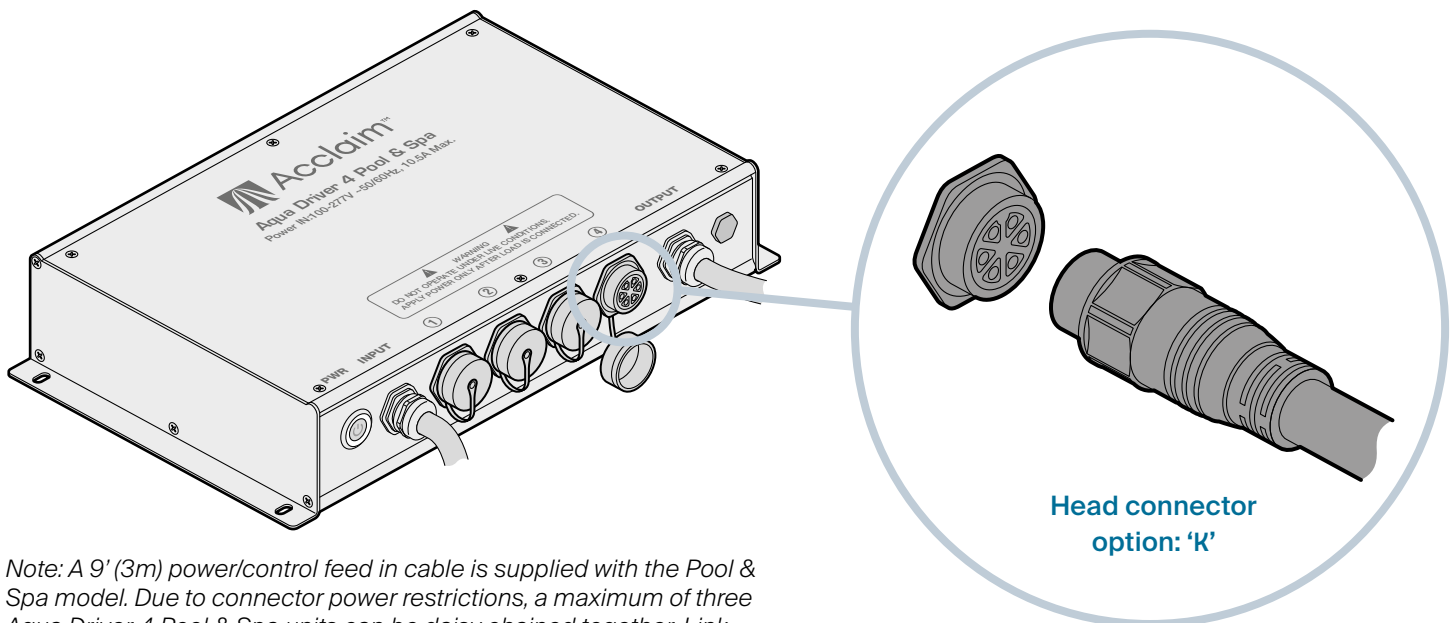
Head connector types

The two variants of Aqua Driver 4 use differing output sockets to suit the mounting locations of the driver units. Accordingly, each Aqua Drum and Aqua Linear head can be ordered with corresponding plugs to match the chosen driver variant: Standard (head connector option 'I') or Pool & Spa (head connector option 'K').

Aqua Driver 4 - Standard: terminal block head connectors



Aqua Driver 4 - Pool & Spa: IP68 head connectors



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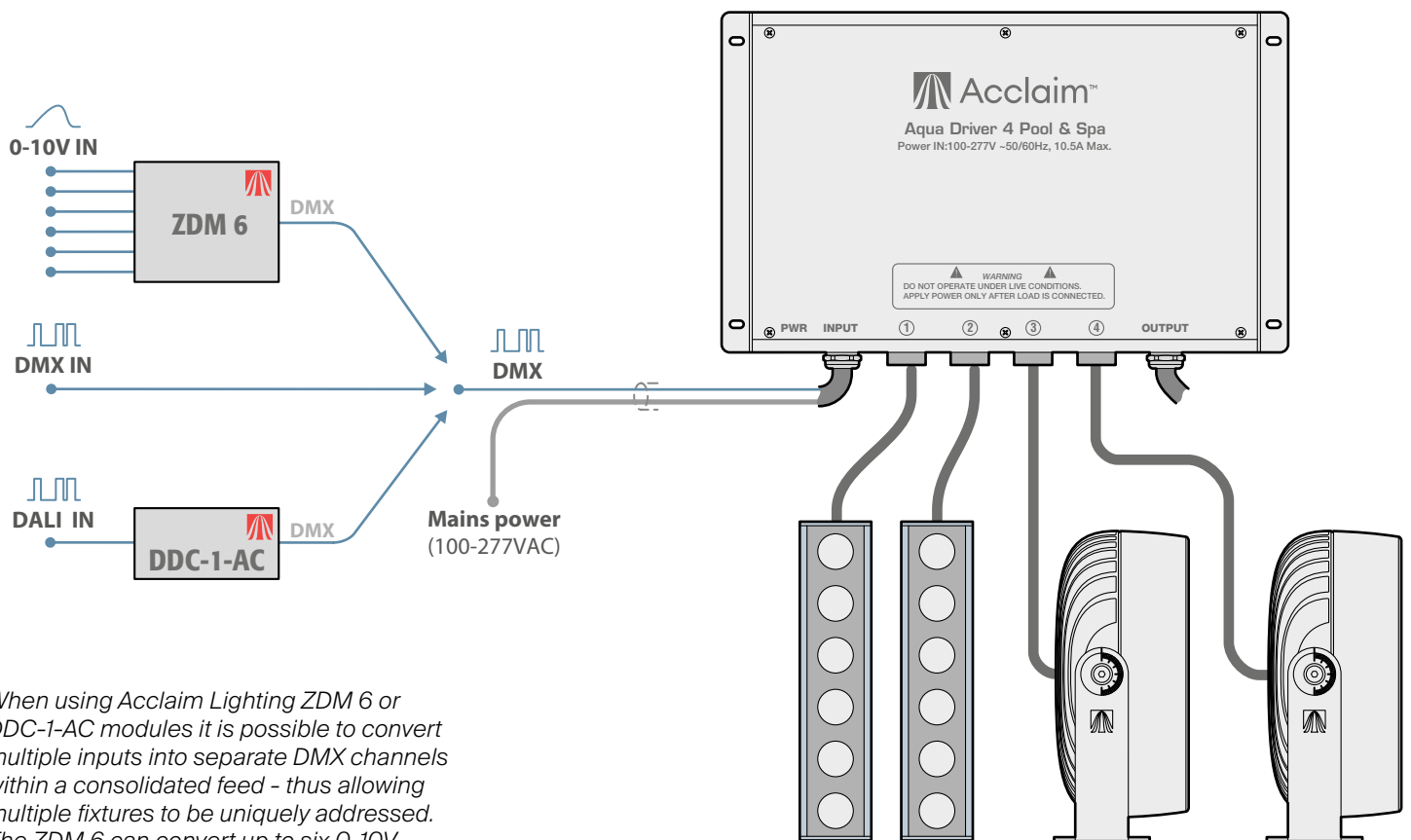
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Alternative control inputs

Aqua Driver/Aqua Linear 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.



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

