

AL Graze AC

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INTRODUCTION

WELCOME

Welcome to the AL Graze AC range from Acclaim Lighting. These aluminum bodied wet location (IP66) fixtures are designed specifically to graze indoor and outdoor surfaces in close proximity. Available in 1' and 4' lengths these robust units can be connected in series to greatly simplify installation.

AL Graze AC models are powered by direct mains input (100-277VAC 50/60Hz) and are controlled by an external DMX input - all within a combined IP66-protected input link. RDM (Remote Device Management) is used via the DMX link to configure the addressing and mode options (see page 11).

The range of emitter colors available are dependent on the chosen control method:

- 2700K white
- 3000K white
- 3500K white
- 4000K white
- RGB
- RGBW
- RGBA
- Dynamic White (2400K-5500K) *Dynamic White models use a mixture of white emitters.*

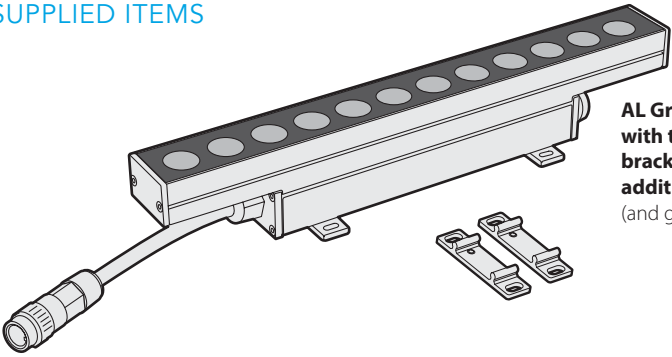
Additionally, to ensure the correct fit with your installation, you have four beam angle options:

- 10° x 10°,
- 10° x 60°,
- 30° x 60°, or
- 60° x 60°.

SAFETY

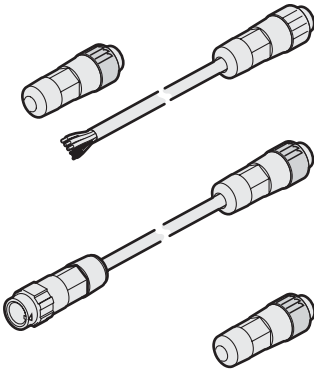
- Ensure that the power input is supplied from a correctly fused, earthed and environmentally protected location.

SUPPLIED ITEMS



AL Graze AC 1' or 4'
with two swivel mount
brackets fitted plus two
additional flat brackets
(and grub screws)

OPTIONAL EXTRAS



Feed cables plus end cap (terminator)

10' (3m)	[H6FC10]
50' (15m)	[H6FC50]

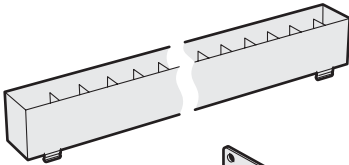
Link cables

1' (30cm)	[H6LC1]
5' (1.5m)	[H6LC5]
10' (3m)	[H6LC10]



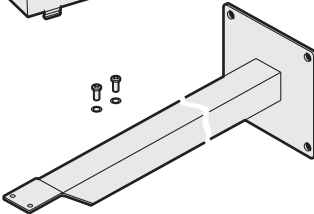
End cap (terminator)

[H6EC]



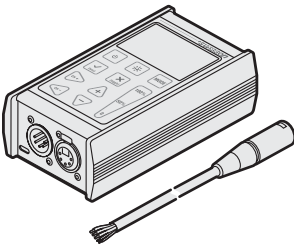
Louver

1' (30cm)	[AGLV12]
4' (122cm)	[AGLV48]



Extender bars

6" (15cm)	[ALHEB6]
12" (30cm)	[ALHEB12]
36" (90cm)	[ALHEB36]



DMX/RDM tool plus male 5pin XLR lead [XMT350]

INSTALLATION

When installing each AL Graze AC fixture, ensure that the surface is level and that nothing is protruding to damage the mounting bracket(s). Suitable mounting surfaces include steel, aluminum, concrete or wood structures.

Each mount bracket has two slots measuring 0.35" x 0.16" (9 x 4mm) and the base has a thickness of 0.14" (3.5mm). Select bolts or screws (not supplied) that fit the mount bracket base(s) correctly and are particularly suited to the mounting surface.

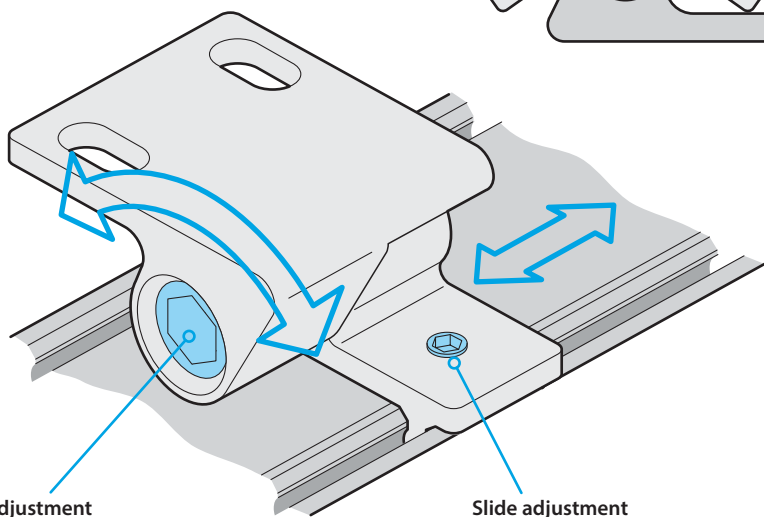
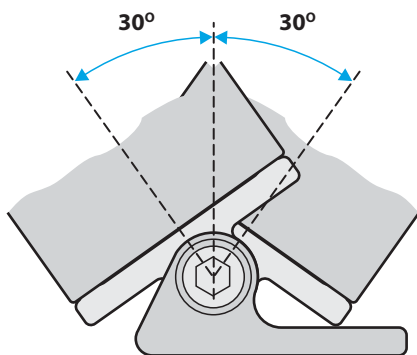
Ensure that each mount bracket is securely fixed to the mounting surface with appropriate screws/bolts. If necessary, use a 1/16th (1.5mm) Allen wrench to loosen each mount bracket to allow them to slide along the length of the fixture to the required position before re-tightening.

Note: It may be necessary to temporarily remove the mounts from the AL Graze AC unit in order to fix them to the surface. See page 5 for details.

MOUNT ADJUSTMENT

The two standard swivel mount bracket(s) supplied attached to each AL Graze AC fixture allow tilt angles, in both directions, of roughly 30 degrees from vertical to be achieved. Use a 1/16th (4mm) Allen wrench to adjust the tilt angle.

Replacement flat brackets are also supplied with each fixture. See page 5 for details.

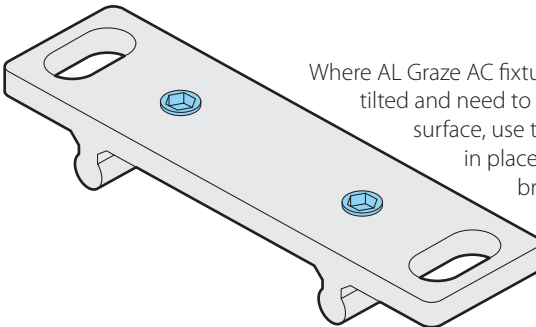
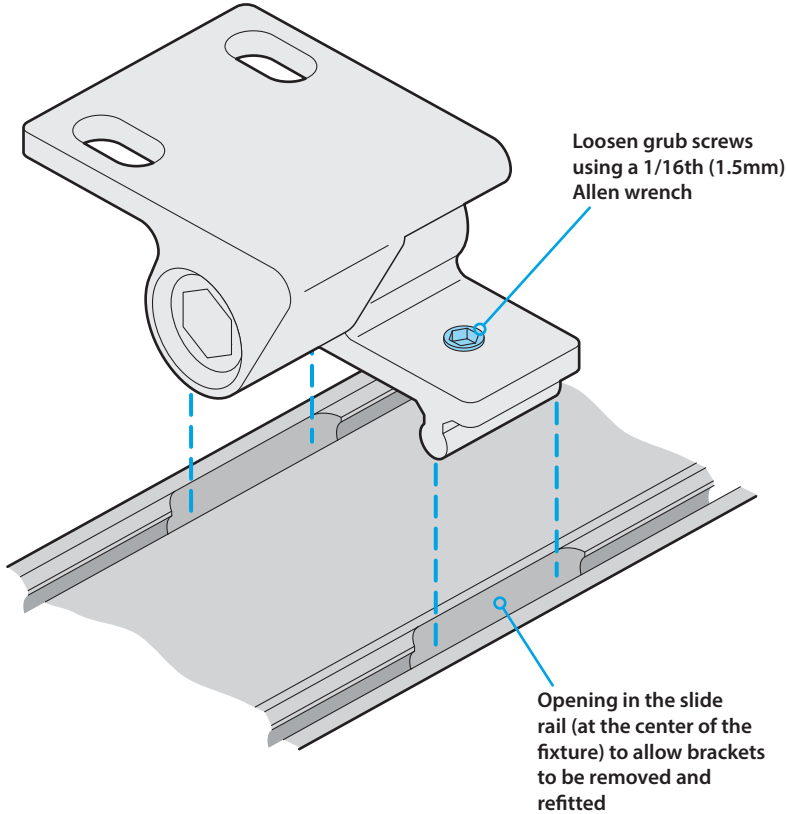


Tilt adjustment
(3/16th / 4mm Allen wrench required)

Slide adjustment
(1/16th / 1.5mm Allen wrench required)

REMOVING AND REPLACING BRACKETS

Two types of mount brackets are supplied with each AL Graze AC fixture and these are easily changed. Use a 1/16th (1.5mm) Allen wrench to loosen the two grub screws on each bracket. Then slide the bracket to the center of the fixture where the rails widen to allow the feet of the bracket to be released.



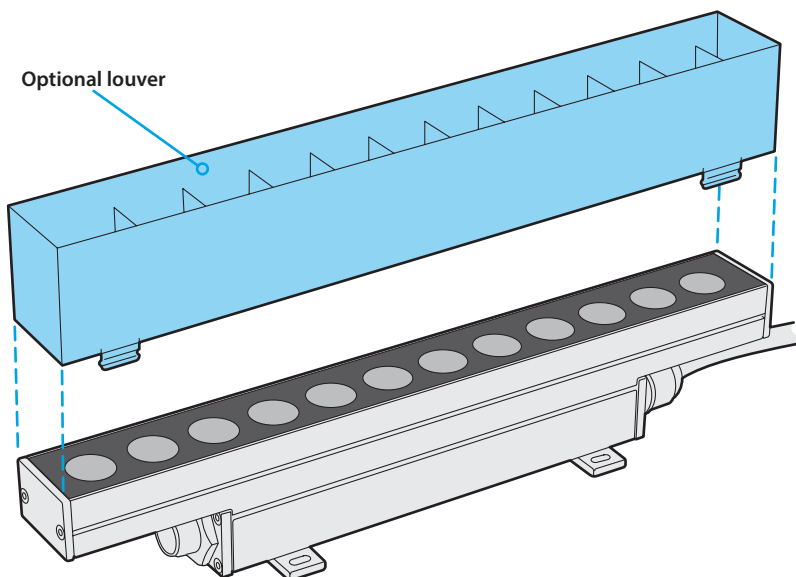
Where AL Graze AC fixtures do not need to be tilted and need to be closer to the mounting surface, use the supplied flat brackets in place of the swivel mount brackets.

FITTING A LOUVER

Optional louvers are available for both sizes of AL Graze AC fixture; these can be quickly fitted to eliminate all sideways light spill.

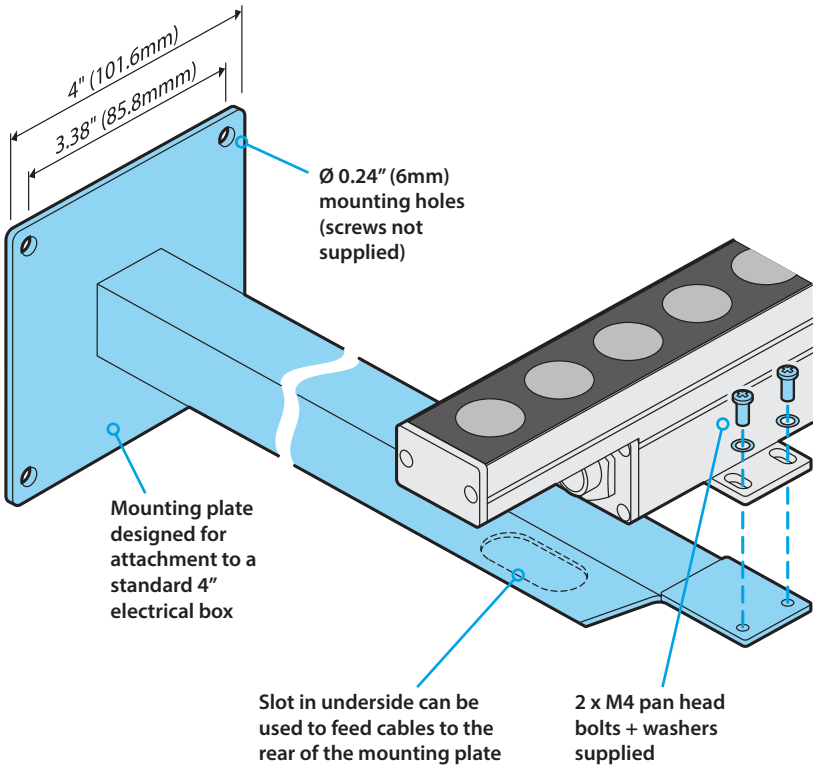
TO FIT A LOUVER

- 1 Lower the louver over the front face of the AL Graze AC until the four tabs of the louver click into place around the upper body of the fixture.



FITTING EXTENDER BARS

A common fixing method is to use optional extender bars. These are available in 6", 12" and 36" lengths. Two extender bars are required for each AL Graze AC fixture.

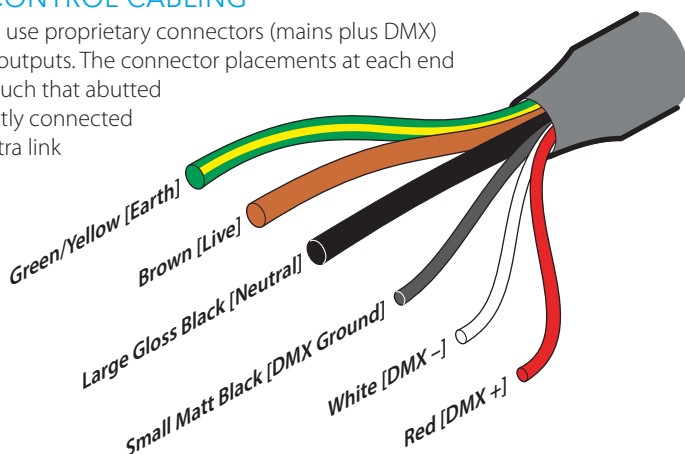


Note: When feeding cables through the extender bar check for any metal burrs that may have formed during manufacture - take care not to snag cables.

POWER AND CONTROL CABLING

AL Graze AC fixtures use proprietary connectors (mains plus DMX) for their inputs and outputs. The connector placements at each end of every fixture are such that abutted fixtures can be directly connected without need for extra link cables.

The contacts of the required feed-in cable (available as a separate item) are arranged as shown here:



Note: Ensure that the mains power is supplied from a suitably protected source and initial connections are made within IP rated enclosures.

Note: Acclaim requires Belden 9842 or approved equivalent for all DMX wiring applications.

IMPORTANT: These connectors are not rated for live connection or disconnection. Check that power is isolated before making or breaking any links. Ensure the connectors have locked and are seated correctly before applying power.

Acclaim recommends taking proper precautions for external surge protection, as control and power electronics can be damaged by major events.

IN-RUSH CURRENTS

Although LED fixtures are low power devices compared to their traditional source equivalents, their power supplies exhibit a trait known as 'in-rush' when they are first powered on. This is caused by the various components within the switched mode power supplies initially topping themselves up with power. The in-rush period lasts only milliseconds and does not cause any effect when a handful of units are powered on at the exact same time. However, if many fixtures are linked to the same power input, they will momentarily pull a current that may greatly exceed their normal operating level. This may affect over-current trips when power is applied and should be anticipated when planning the power panel size requirements.

INTERCONNECTING

Each AL Graze AC fixture has a short cabled power input plug at one end and an integral power/signal output socket at the other. When fixtures are daisy chained (and are directly abutted), the input plug of one fixture can connect directly to the output socket of the previous fixture. Alternatively, where fixtures are not abutted, one of the optional link cables can be used to make up the gap between any two fixtures.

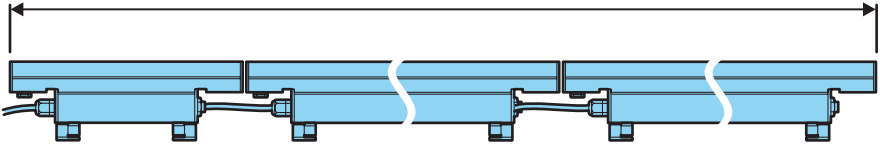
Ensure the output connector of the final fixture has an end cap fitted [AGHEC]. This will correctly terminate the DMX link and also prevent moisture ingress.

MAXIMUM NUMBER OF FIXTURES

The maximum number of fixtures that can be connected in a single series is as follows:

Maximum length of AL Graze AC fixtures:

50' (15m) @ 120VAC, 100' (30m) @ 277VAC



Runs can consist of mixtures of 1' and 4' fixtures.

DMX CHANNEL DESIGNATIONS

The various AL Graze AC variants apply their LED emitters to DMX channels in different ways, as summarized in the table below.

DMX	RGB (3CH DMX)	RGBW (4CH DMX)	RGBA (4CH DMX)	Dynamic White (2CH DMX)	Single color (1CH DMX)
1	Red	Red	Red	Warm White	All
2	Green	Green	Green	Cold White	
3	Blue	Blue	Blue		
4		Cool White	Amber		

The channel allocations above are shown beginning at DMX address 1. When you configure a fixture with an alternative DMX address, that value will become the first channel in the list shown above and the other channels will increment from there.

In most cases the DMX personality should not need to be changed although you are recommended to check that the correct one is set for your color model (see page 12).

OPERATION

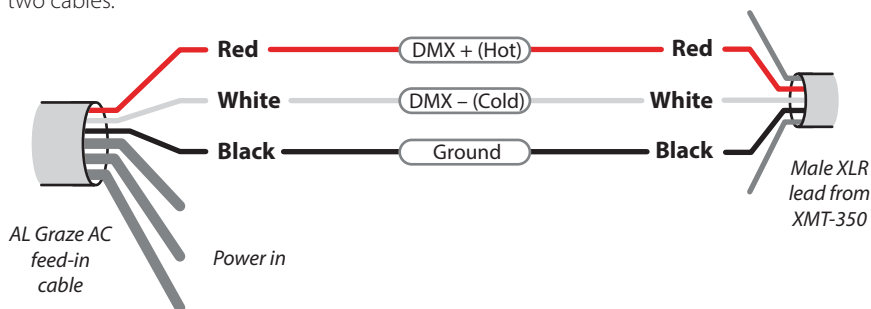
AL Graze AC fixtures have no external controls and instead rely on RDM (Remote Device Management) for all configuration via the DMX interface. This allows multiple devices to be configured either before or after installation.

The main item that needs to be configured on each fixture (via RDM) is the DMX address (see page 11). In most cases the DMX personality should not need to be changed although you are recommended to check that the correct one is set for your color model (see page 12).

Various third party DMX/RDM tools are available; we recommend the Acclaim Lighting XMT-350 for this task.

MAKING A TEMPORARY CONTROL LINK WITH THE XMT-350

Each Acclaim lighting XMT-350 DMX/RDM tool is supplied with a 5-pin male XLR lead that can be used to make a temporary control input link with the AL Graze AC feed-in cable. Use a 3-pin terminal block, wire nuts, conn blocks or Wago® connectors to temporarily join the two cables:



ADDRESSING FIXTURES

TO ADDRESS FIXTURES USING THE ACCLAIM LIGHTING XMT-350

- 1 Connect the XMT-350 to the DMX input line of either a single fixture or multiple fixtures in a pre-arranged daisy chain configuration (see page 9).
- 2 Power on the fixture(s) and the XMT-350.
- 3 On the XMT-350, press the **MODE** button, then use the arrow buttons to highlight the **RDM** function and press the **✓** button to select. The XMT-350 will search for RDM devices and after a short while the XMT-350 will display a list of all located fixtures:

MAIN	PATCH	OPTIONS	004/004
AL GRAZE AC DMX	001		
AL GRAZE AC DMX	005		
AL GRAZE AC DMX	009		
AL GRAZE AC DMX	013		

The fixture that is highlighted within the list should begin flashing its emitters to identify itself.

- 4 On the XMT-350, press the right arrow button to change to the **PATCH** tab:

MAIN	PATCH	OPTIONS	004/004
▶ RESTART PATCHING			
AL GRAZE AC DMX	(001)		
AL GRAZE AC DMX	005		
AL GRAZE AC DMX	009		
AL GRAZE AC DMX	013		

Note: DMX addresses shown in brackets, e.g. (001), have been temporarily assigned by the XMT-350, but are not yet stored within the fixture(s).

- 5 If necessary, use the up/down buttons to choose an alternative fixture.
- 6 Press the **✓** button to set the address for the currently highlighted fixture:

ACTUAL ADDRESS:	001
PATCH TO ADDRESS:	001
✓ OK	✗ CANCEL

- 7 Use the up/down buttons to set the required DMX address and then press the **✓** button to store it within the fixture.
- 8 The highlight will automatically move to the next fixture so that you can address it. Repeat steps 5 to 7 until all fixtures are addressed.

DMX PERSONALITY MODE SELECTION

AL Graze AC fixtures provide a range of personality modes to suit the various color configurations which are set at manufacture. Once set, it should not be necessary to change the personality mode for a fixture, however, the method for doing so is covered here for completeness. For a summary of how channels are allocated in all the model variants, see *DMX channel designations*, on page 9.

Using an RDM (Remote Device Management) tool, you can quickly change between the various DMX personality modes. Various third party DMX/RDM tools are available; we recommend the Acclaim Lighting XMT-350 for this task.

TO CHANGE PERSONALITY MODES USING THE ACCLAIM LIGHTING XMT-350

- 1 Connect the XMT-350 to the DMX input line of either a single fixture or multiple fixtures in a pre-arranged daisy chain configuration.
- 2 Power on the fixture(s) and the XMT-350.
- 3 On the XMT-350, press the **MODE** button, then use the arrow buttons to highlight the **RDM** function and press the **✓** button to select. The XMT-350 will search for RDM devices and after a short while the XMT-350 will display a list of all located fixtures:

MAIN	PATCH	OPTIONS	004/004
AL GRAZE AC DMX			001
AL GRAZE AC DMX			005
AL GRAZE AC DMX			009
AL GRAZE AC DMX			013

The fixture that is highlighted within the list should begin flashing its emitters to identify itself.

- 4 If necessary, use the up/down buttons to highlight an alternative fixture.
- 5 On the XMT-350, press the **✓** button to view details for the chosen fixture and then use the down button to highlight the **DMX PERSONALITY** entry:

AL GRAZE AC DMX	
LABEL:	N/A
MODEL:	AL GRAZE AC DMX
MAN:	ACCLAIM LIGHTING
DMX START ADDRESS:	-
DMX PERSONALITY:	3CH DMX
DMX SLOTS:	3

- 6 Press the **✓** button to view the personality options:

AL GRAZE AC DMX	
001:	4CH DMX
002:	4CH FIX
003:	3CH DMX
004:	3CH FIX
005:	2CH DMX
006:	2CH FIX

Note: Use the appropriate xCH DMX setting for your color model (see page 9). The xCH FIX settings are not appropriate for external control.

- 7 Use the up/down buttons to highlight the required personality and then press the **✓** button to store it within the fixture.
- 8 Press the **X** button to return to the previous screen.

TESTING EMITTER OUTPUT

After you have addressed each AL Graze AC fixture we recommend that you also test each one prior to installation. This can be achieved with your RDM (Remote Device Management) tool. Various third party DMX/RDM tools are available; we recommend the Acclaim Lighting XMT-350 for this task.

TO TEST EMITTER OUTPUT USING THE ACCLAIM LIGHTING XMT-350

- 1 Connect the XMT-350 to the DMX input line of either a single fixture or multiple fixtures in a pre-arranged daisy chain configuration.
- 2 Power on the fixture(s) and the XMT-350.
- 3 On the XMT-350, press the **MODE** button, then use the arrow buttons to highlight the **SEND** function and press the **✓** button to select.



- 4 Use the arrow buttons to determine the DMX output:
 - Use the left and right buttons to choose the DMX address,
 - Use the up and down buttons to increase/decrease the level at the chosen address.

*Note: If you wish to send DMX values to all addresses simultaneously (rather than cycling through them individually), when the XMT-350 is showing address 001, press the left button once to change to **ALL CHANNELS**. Now when you set the level it will affect all emitters equally.*

FURTHER INFORMATION

TROUBLESHOOTING

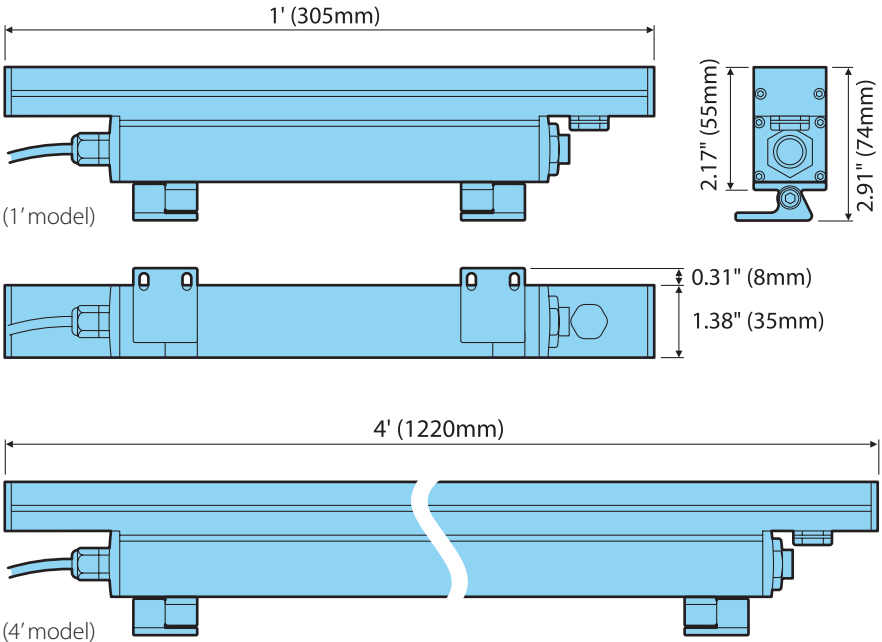
LUMINAIRE DOESN'T TURN ON

- Check that power is correctly applied to the fixture and that there is no damage to the power input cord.
- Use an RDM tool (such as the Swisson XMT-350) to check the settings and internal temperature of the fixture.
- Using an RDM tool, check that the DMX address set within the fixture matches that being output by the controlling source device.
- Check that the DMX + (hot) and DMX - (cold) lines on the incoming control link have not been crossed.

SPECIFICATIONS

Color models	2700K, 3000K, 3500K and 4000K white RGB, RGBW, RGBA or Dynamic White (2400-5500K)
Beam angle options	10° x 10°, 10° x 60°, 30° x 60° or 60° x 60°
Illuminance (lm/ft²)	419 (4000K 30° x 60° variant @ 100% - 1 foot section)
Lumen maintenance (L ₇₀)	150,000 hours (25°C)
Control	DMX512-A (+ RDM configuration)
Ingress protection	IP66, wet location
Fixture connectors	Cretop™, IP67 rated Combined AC power & DMX control
Maximum lengths in series	50' (15m) @ 120VAC, 100' (30m) @ 277VAC
Power input	100-277VAC 50/60Hz
Power consumption	9W (1' model), 36W (4' model)
Housing	Anodized brushed aluminum with glass lens
Mounting	30° swivel mounts included plus static flat brackets
Operating temperature	-4°F to 123°F (-20°C to 50°C)
Weight	1.25 lbs/0.6Kg (1' model), 5 lbs/2.3Kg (4' model)

Certifications



Release 1.1b

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.
- 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 thereof. 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 manufactured 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