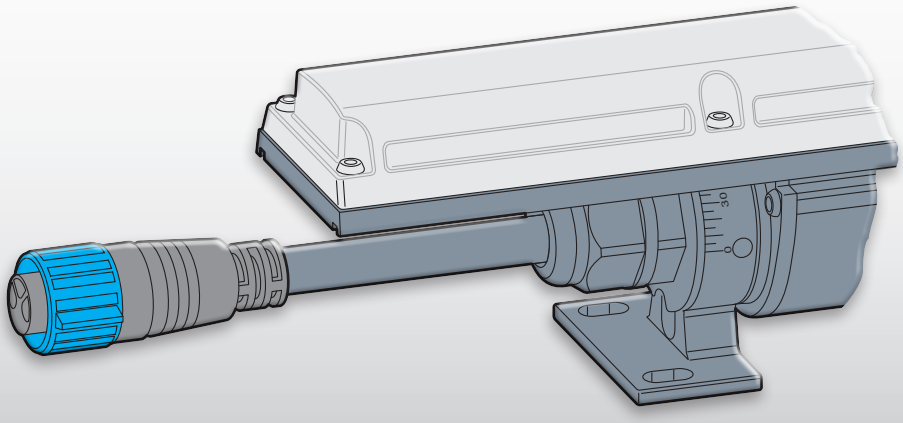
Acclaim™

XTRLink technology

SpectrumFour technology



Linear XTR H1™

User guide

Contents

Introduction

Welcome

Welcome to the Linear XTR H1™ range from Acclaim Lighting. These aluminum bodied, IP66-rated fixtures are available in 1' and 4' lengths and are easily interconnected in series to greatly simplify installation.

Linear XTR H1 fixtures belong to the Acclaim Lighting XTR Link™ family, which provide additional flexibility by automatically supporting different power configurations. Linear XTR H1 fixtures can be powered directly by a standard mains supply (100 to 277VAC at 50 or 60Hz) to achieve daisy-chained runs of up to 100 feet (30m). Alternatively, an optional XTR Driver unit can be used to raise the maximum length of a single daisy-chained run to 180 feet (55m).

In both 1' and 4' lengths, there are numerous emitter options, including multiple choices of static white, dynamic white, RGBW or RGBA, together with an extensive range of lens options to suit every installation. Additionally, optional glare shields and louvers allow the light output to be shaped further.

Control is achieved using the industry standard DMX-512A format, with RDM for configuration. DALI and 0-10V control inputs can also be used when optional converters are employed.

Safety

- When fixtures are mounted off-ground, ensure they are securely fitted to an appropriate mounting surface.
- Ensure that the power input is supplied from an environmentally protected location, is correctly fused and has a **valid protective earth that is tied to true earth**.

HIGH VOLTAGE

WARNING - HIGH VOLTAGE

This device produces high voltage outputs (up to 400VDC) which could cause severe personal injury or death if misused:

- **Always** isolate power before connecting or disconnecting links.
- Installation to be carried out by **certified electricians** only.
- Use only **approved** cables and connectors.
- Check all connections are correctly made **before** energizing.

Maintenance

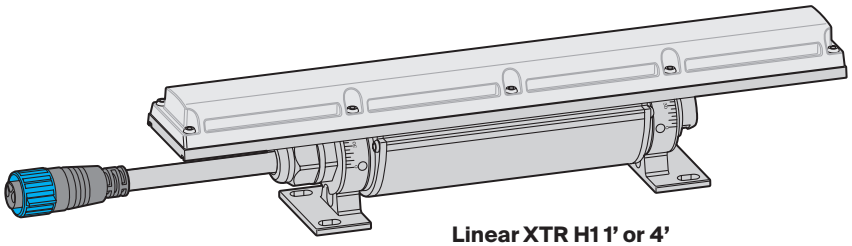
CAUTION: Always isolate mains power before starting maintenance operations.

- 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

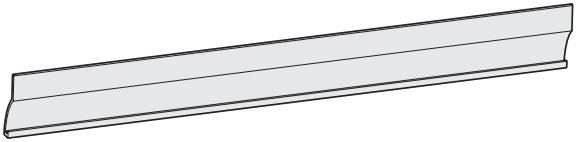
- Use a moist, lint-free cloth along with warm water when cleaning each fixture.
- Never use alcohol or solvents.

Supplied items



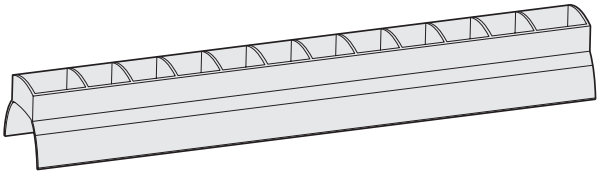
Linear XTR H1 1' or 4'
with two in-built swivel mounts

Optional accessories



Glare shield

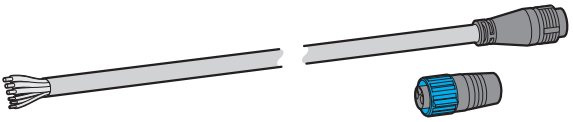
1' (30cm)	[XTRH1GS1]
4' (121cm)	[XTRH1GS4]



Louver

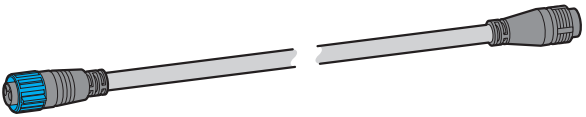
1' (30cm)	[XTRH1LV1]
4' (121cm)	[XTRH1LV4]

The 4' option consists of four 1' louvers, which are used together.



Feed cables
(incl terminator end cap)

10' (3m)	[XTRFC10]
50' (15m)	[XTRFC50]
100' (30m)	[XTRFC100]



Link cables

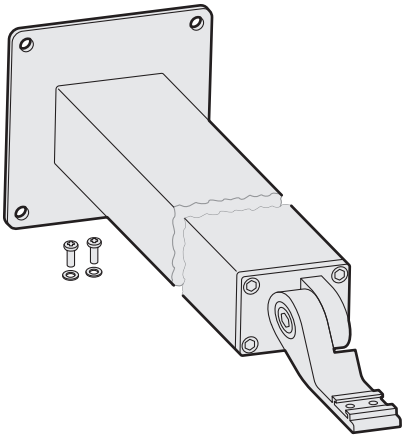
6" (15cm)	[XTRLC0.5]
1' (30cm)	[XTRLC1]
5' (1.5m)	[XTRLC5]
10' (3m)	[XTRLC10]
50' (15m)	[XTRLC50]
100' (30m)	[XTRLC100]

Multi-protocol drivers
(to enable longer runs)

XTR Driver 4000	[XTRD4000]
XTR Driver 8000	[XTRD8000]

Terminator end cap
[XTREC]

Optional accessories (continued)

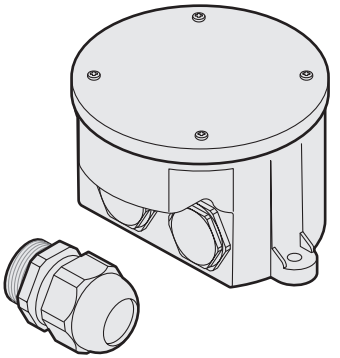


Extender bars
(incl locking bolts and washers)

6" (15cm)	[XTHEB05]
1' (30cm)	[XTHEB1]
2' (60cm)	[XTHEB2]
3' (91cm)	[XTHEB3]

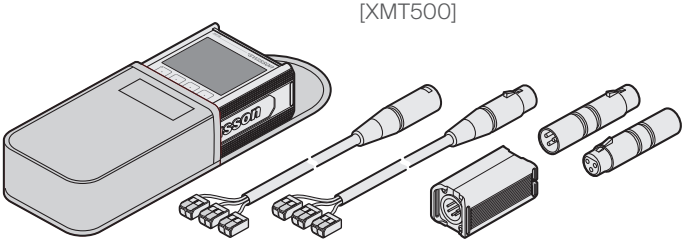
Aluminum body

Wall mounting screws not included



IP66 junction box
(incl outlet cable gland)
[AJBOX1]

DMX/RDM/Art-Net/sACN tool
(incl cable dongle, 3/5-pin converters, bare cable connectors and pouch
[XMT500]

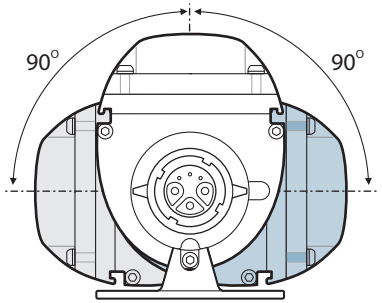


Installation

When installing each Linear XTR fixture, ensure that the surface is level. Suitable mounting surfaces include steel, aluminum, concrete or wood structures.

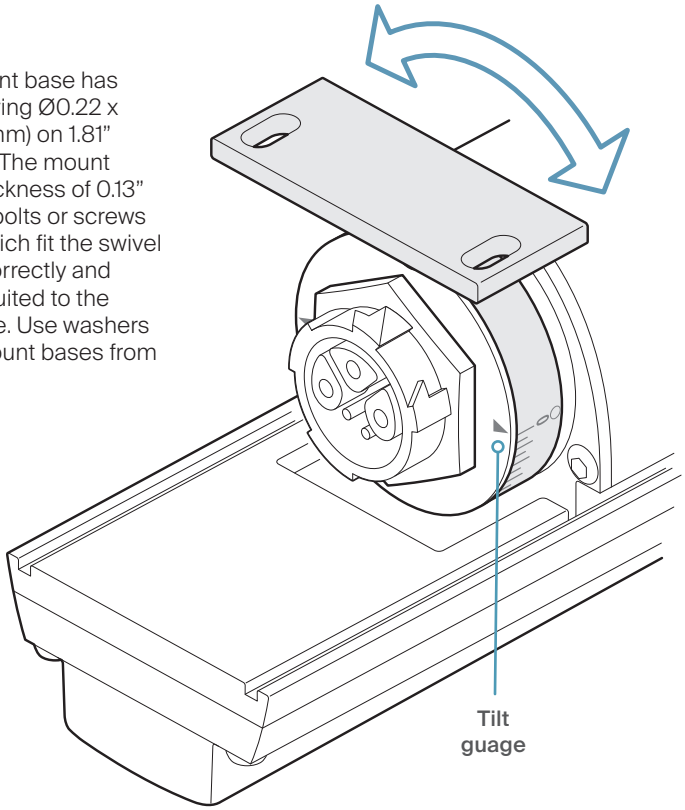
Mounting

Each Linear XTR is supplied with two in-built swivel mounts which allow you to attach the fixture to suitable surfaces.



The fixture body can be tilted in either direction from vertical to horizontal in thirteen steps, with each step roughly equaling 7° of rotation. Tilt gauges are located both sides of each swivel mount. Internal ratchets in each swivel mount ensure that the chosen angle is retained without the need for tools.

Each swivel mount base has two slots measuring Ø0.22 x 0.39" (Ø5.5 x 10mm) on 1.81" (46mm) centers. The mount bases have a thickness of 0.13" (3.3mm). Select bolts or screws (not supplied) which fit the swivel mount base(s) correctly and are particularly suited to the mounting surface. Use washers to protect the mount bases from damage.



To mount the fixture

1 Where necessary, prepare four pilot holes in the mounting surface which align with the swivel mount base slots (see page 25).

2 Rotate both swivel mounts all the way over to allow access to the slots on one side.

3 Secure the two slots and then carefully rotate the fixture body all the way in the other direction to gain access to the slots on the other side.

Using optional extender bars

Optional extender bars are available to allow each Linear XTR H1 fixture to be held a certain distance from a vertical mounting surface. Four extender bar lengths are available (see page 3 for part numbers and page 26 for dimensions). Each extender bar is manufactured primarily from aluminum to minimize weight. Each 1' Linear XTR H1 fixture requires one extender bar, while 4' models require two extender bars of equal length (see opposite).

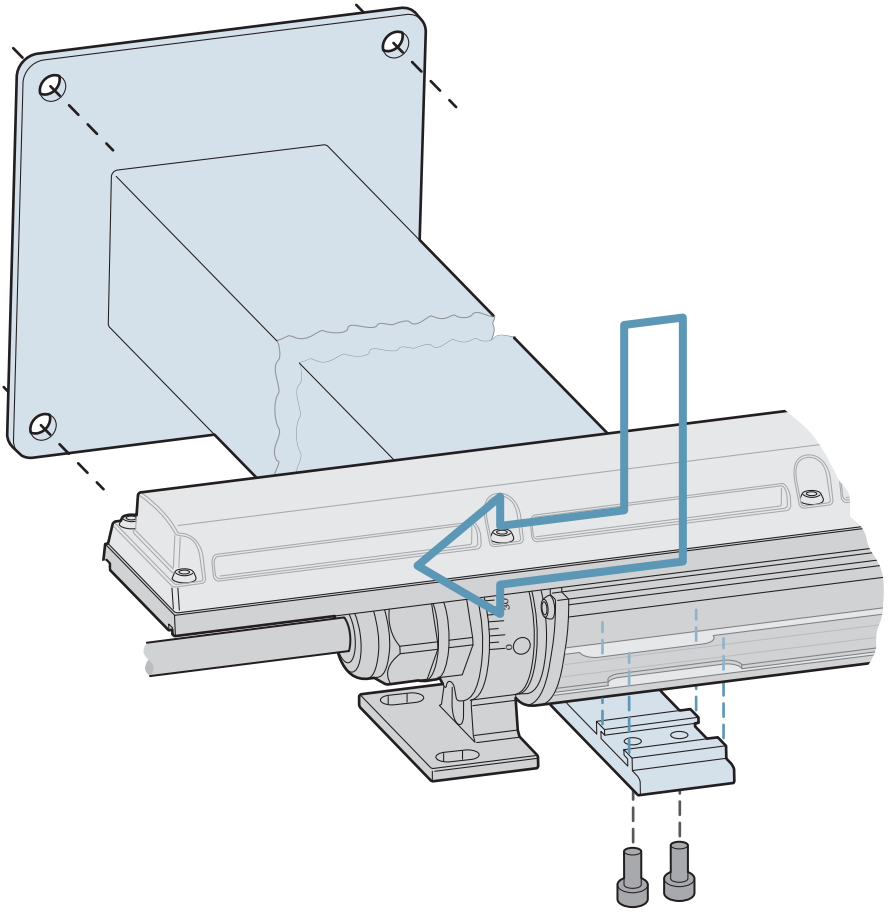
There are four Ø0.26" (Ø6.5mm) holes in the backplate to allow for secure attachment to the mounting surface. Suitably sized wall screws (and wall plugs, if necessary) should be chosen based on the mounting surface.

To mount a 1 foot fixture on a single extender bar

1 On the underside of the Linear XTR H1, locate the two grooves that run the entire length of the main body. Towards one end of the fixture you will see two small openings, which make the grooves wider. Place the openings of the fixture over the two right-angled tabs that are located at the end of the extender bar.

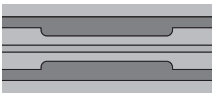
2 When the tabs are inserted, slide the fixture along so that the extender arm tabs engage fully with the grooves.

3 Insert and tighten the two supplied locking bolts than adjust the rotating arm angle to suit.



Mounting 4-foot fixtures on optional extender bars

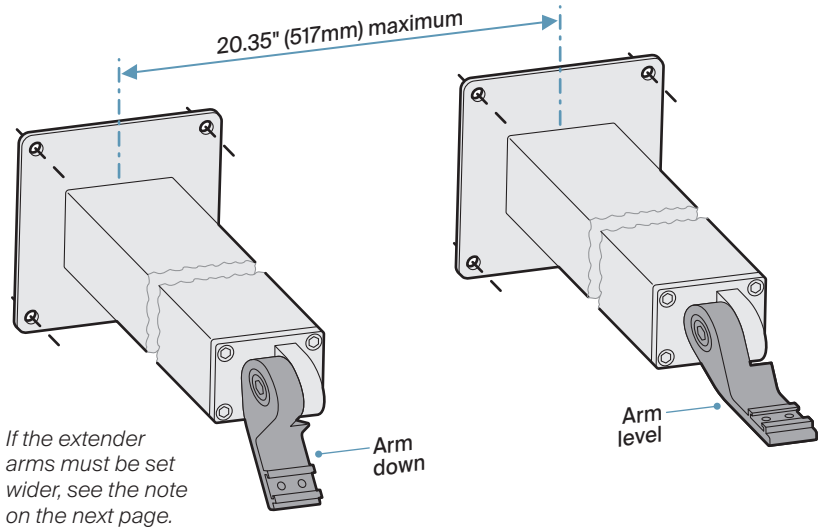
When mounting 4-foot Linear XTR H1 fixtures away from a surface, two extender bars must be used.



On the underside of each 4-foot Linear XTR H1 fixture, there are two narrow grooves that run the entire length of the main body. At the center of the fixture you will see two small openings (1.18"/30mm long), which make the grooves wider and allow the extender arms to be inserted. It is necessary to insert each arm into the grooves separately and then slide them along.

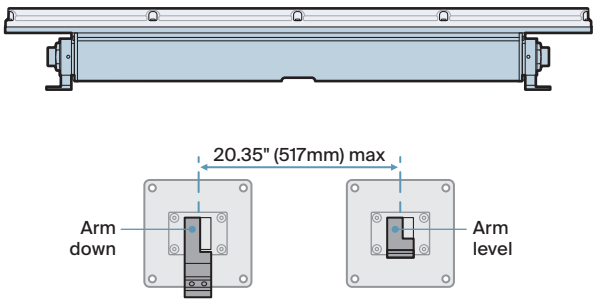
To mount a 4 foot fixture on two extender bars

1 Mount the two extender bars on the wall surface so that they are level and their centers are no further apart than 20.35" (517mm). Use a ¼" (6mm) hex wrench to slightly loosen the bolts that secure the small rotating arms:



If the extender arms must be set wider, see the note on the next page.

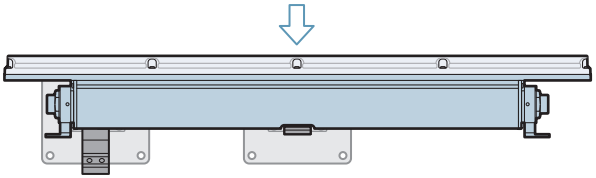
2 On one of the extender bars, place its small rotating arm in a level position; on the other extender bar, rotate the small arm fully downwards, so that it is out of the way:



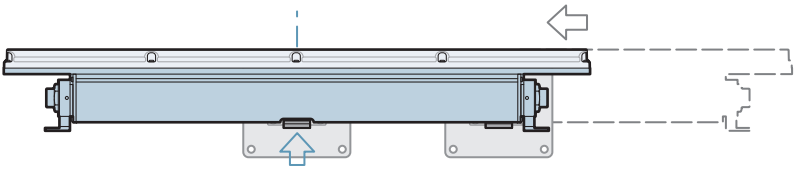
(diagrams not shown to scale)

continued

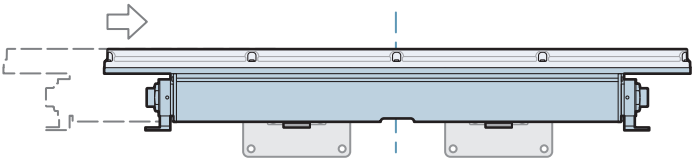
3 Place the center of the Linear XTR H1 4-foot fixture onto the first (level) arm so that the tabs of the arm insert into the widened part of the fixture's grooves:



4 Slide the fixture along so that the tabs of the first arm travel along the grooves - until the center of the fixture reaches the second arm. Rotate the second arm up so that it engages with the widened part of the fixture's grooves:



5 Slide the fixture back along until its center point is between the two extender arms:



6 On each arm, insert the two supplied locking bolts and tighten until they hold the fixture firm.

7 Rotate the two arms (and the fixture) until they form the correct tilt angle, then tighten the arm bolts using a ¼" (6mm) hex wrench.

If the extender arm spacing must be more than 20.35" (517mm)

It is possible to attach the fixture to arms that are set wider, although the process may require a second person to hold the fixture steady while mounting takes place.

1 Mount one of the extender arms onto the wall surface and also arrange the position/fixings for the second arm, but keep it unmounted for the moment.

2 Attach the unmounted extender arm onto the fixture and slide it along the grooves (as described in the previous procedure).

3 Place the fixture onto the extender arm that is already attached to the wall and then slide the fixture along it until the unmounted arm is positioned at the place where it will be mounted.

4 Fix the unmounted arm to the wall surface.

5 On each arm, insert the two supplied locking bolts and tighten until they hold the fixture firm.

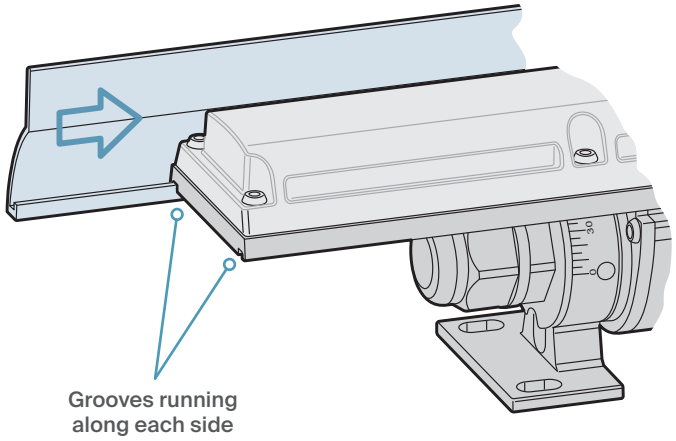
6 Rotate the two arms (and the fixture) until they form the correct tilt angle, then tighten the arm bolts using a ¼" (6mm) hex wrench.

Fitting an optional glare shield

Optional glare shields are available, which can be fitted on either side of the fixture to help conceal the emitters from side view.

To insert a glare shield

1 Align the glare shield (on either side of the fixture) so that its lower lip meets with the groove running along the underside of the fixture.



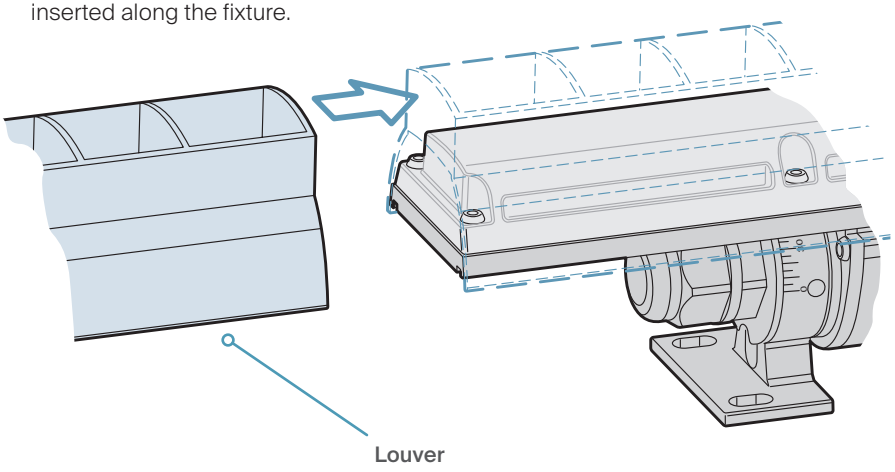
2 Slide in the glare shield until it is fully inserted along the fixture.

Fitting an optional louver

Optional louvers are available, which can be fitted to eliminate side spill in all directions. *Note: The option for 4' Linear XTR fixtures consists of four 1' louvers, which are used together.*

To fit a louver

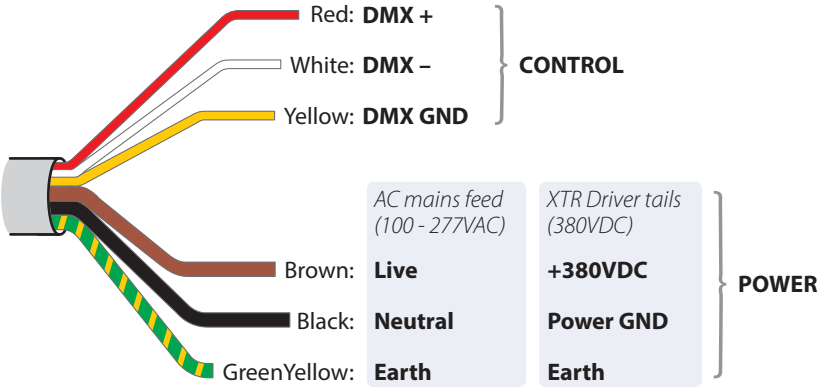
1 Align the louver with the fixture and slide it over the emitter housing until it is fully inserted along the fixture.



Power

Power and control are combined within the IP66-rated feed and link cables using a proprietary design. Connector placements are such that abutted units can be directly connected without need for extra cables.

The color designations for the optional feed cable (and also XTR Driver output tails) are as follows:



Control cores:	24 AWG / 0.25mm^2	**IMPORTANT: Ensure that power earth and DMX GND are both tied to true earth.**
Power cores:	14 AWG / 2.5mm^2	

HIGH VOLTAGE

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This device produces high voltage outputs (up to 400VDC) which could cause severe personal injury or death if misused:

- **Always** isolate power before connecting or disconnecting links.
- Installation to be carried out by **certified electricians** only.
- Use only **approved** cables and connectors.
- Check all connections are correctly made **before** energizing.

Always follow these steps when using XTR cabling:

- **Ensure that the power input is isolated from the mains supply**.
- At each connection, release the cover caps from both the socket and plug.
- Align the orientation marks of the socket and plug - and then push them together so that the blue lock ring clicks fully into place.
- As each connection is made, ensure that the connector is fully locked onto the socket.
- **Any unused output ports must have their cover cap securely fixed in place.**
- Do not exceed the stated maximum fixtures in a daisy chain - see page 11.
- **At the final fixture in a daisy-chain run, install an XTR End Cap (see page 3) to seal off the power bus and also correctly terminate the DMX control feed.**
- To release a connection, ensure that the power input is isolated, then twist the blue lock ring of the plug counter-clockwise to release the connection.

Flexible power options

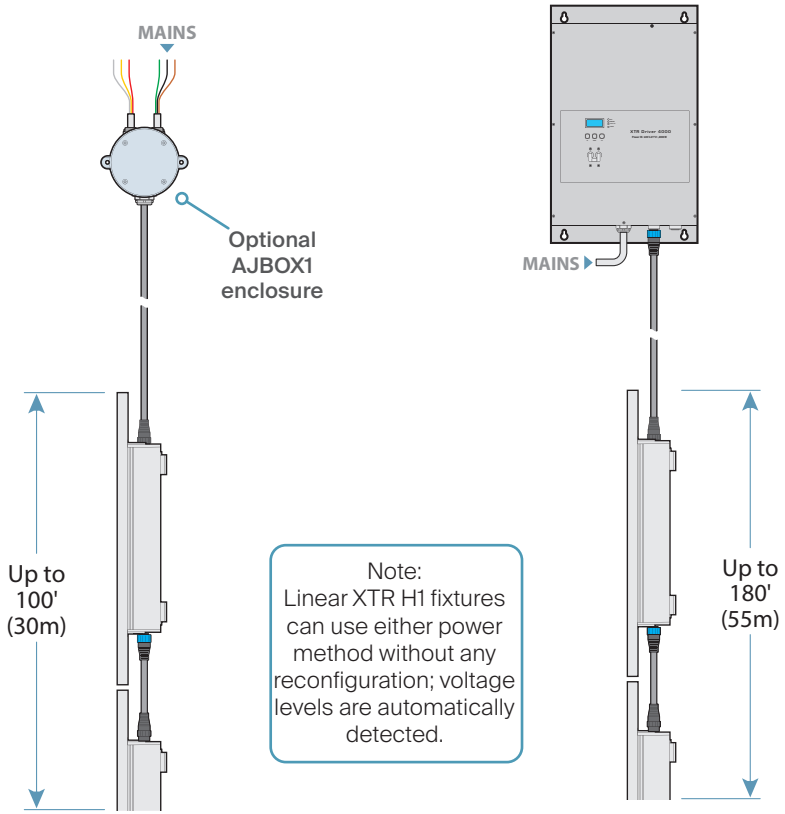
Linear XTR H1 fixtures support two different power options:

Standard mains supply

Using a feed cable, one or more Linear XTR H1 fixtures can be powered directly from a standard mains supply, ranging from 100 to 277VAC (50/60Hz).

XTR Driver supply

An optional XTR Driver 4000 or XTR Driver 8000 can be used to create a special high voltage supply (380VDC) in order to achieve greatly increased fixture run lengths.



Run lengths - fixture maximum

The maximum number of fixtures that can be driven in a single run is determined by the supply voltage and the collective power requirements for the fixtures. The maximum total lengths listed here can be formed from any combination of 1' or 4' fixtures. Fixtures with differing LED emitter specifications can be mixed freely as they all adhere to the same power specifications *(see also "Run lengths - overall maximum" on page 12)*.

Model	Power draw	100VAC 120VAC	230VAC 277VAC	XTR Driver 4000	XTR Driver 8000
H1	(22W/ft)	50'	100'	180'	2x 180'

Run lengths - overall maximum

In addition to remaining within the maximum permitted length of *fixtures* in a single run (as discussed on page 11), you also need to adhere to the working limits for the overall length of the **whole installation**, ie the total length fixtures in the run **plus** all their additional feed and link cabling, as listed below.

Note: These limits are imposed only by the power characteristics. The length of the DMX control feed to the first XTR fixture could be up to the usual DMX standard limit (3,900 feet/1200m) with appropriate cable choice (see 'Important cabling considerations' below).

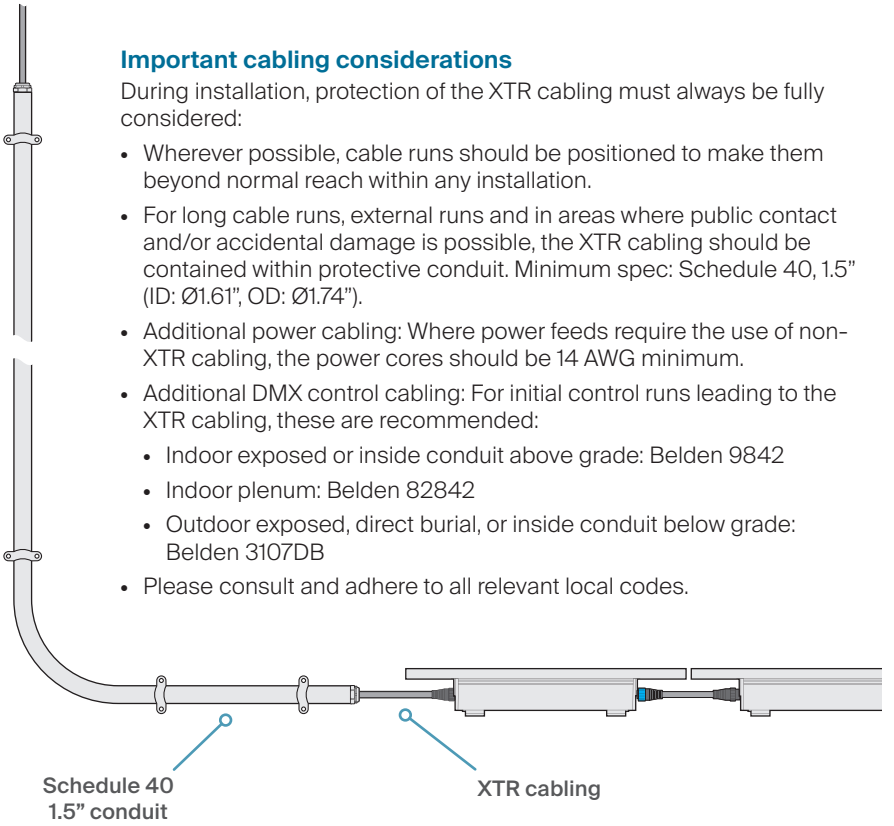
Supply voltage	Maximum overall run length (fixtures plus all extra cabling)
100/120VAC (10A max)	200' (61m)
230/277VAC (10A max)	400' (121m)
380VDC (XTR Driver)	800' (243m)

IMPORTANT: Ensure the voltage drop across the entire run does not exceed 9%.

Important cabling considerations

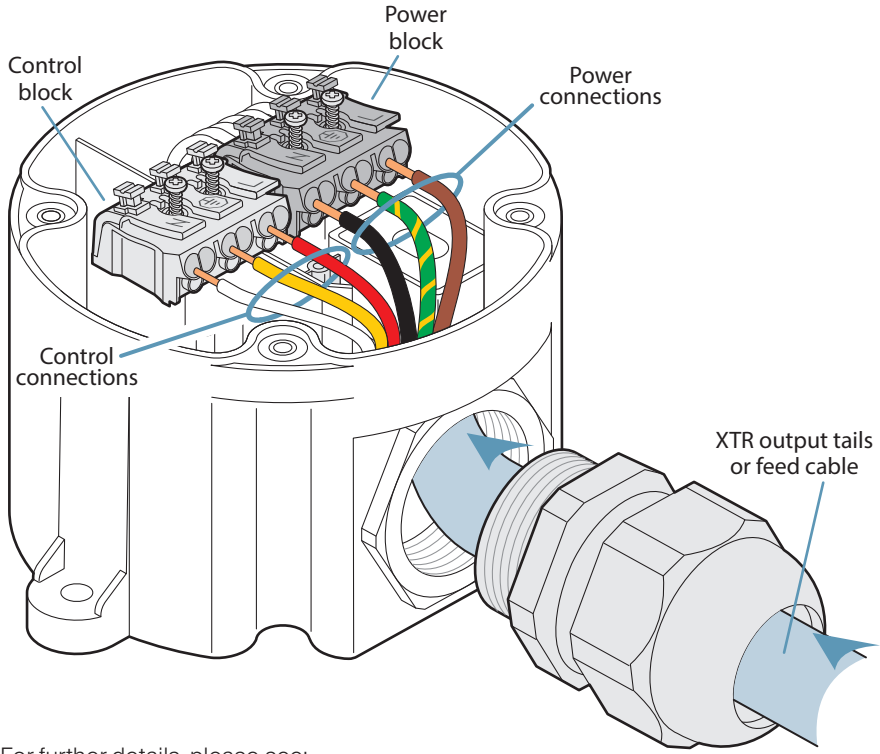
During installation, protection of the XTR cabling must always be fully considered:

- Wherever possible, cable runs should be positioned to make them beyond normal reach within any installation.
- For long cable runs, external runs and in areas where public contact and/or accidental damage is possible, the XTR cabling should be contained within protective conduit. Minimum spec: Schedule 40, 1.5" (ID: Ø1.61", OD: Ø1.74").
- Additional power cabling: Where power feeds require the use of non-XTR cabling, the power cores should be 14 AWG minimum.
- Additional DMX control cabling: For initial control runs leading to the XTR cabling, these are recommended:
  - Indoor exposed or inside conduit above grade: Belden 9842
  - Indoor plenum: Belden 82842
  - Outdoor exposed, direct burial, or inside conduit below grade: Belden 3107DB
- Please consult and adhere to all relevant local codes.



Optional AJBOX1 conduit connections

If an AJBOX1 is required, the XTR cable connections should be arranged on the internal connector blocks as shown here. The separate power and control conduit connections can be made on the other side of these connector blocks.



For further details, please see:

- Page 10 for wire colors.
- Acclaim Lighting *AJBOX1* user guide.
- Acclaim Lighting *XTR Driver* user guide.

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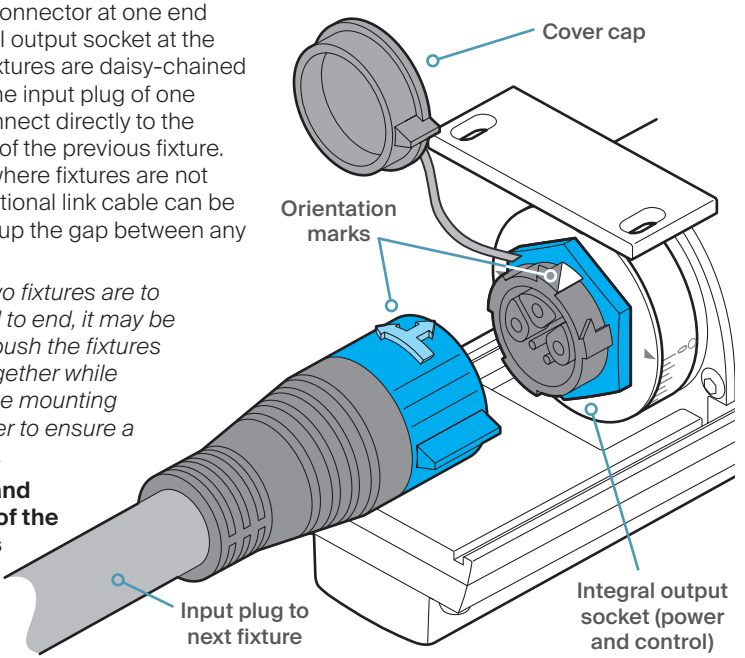
Interconnecting

Each Linear XTR H1 fixture has a short cabled input connector at one end and an integral output socket at the other. When fixtures are daisy-chained (end to end), the input plug of one fixture can connect directly to the output socket of the previous fixture. Alternatively, where fixtures are not abutted, an optional link cable can be used to make up the gap between any two fixtures.

Note: When two fixtures are to be placed end to end, it may be necessary to push the fixtures and cables together while attaching to the mounting surface in order to ensure a seamless gap.

Please read and adhere to all of the advice points listed below.



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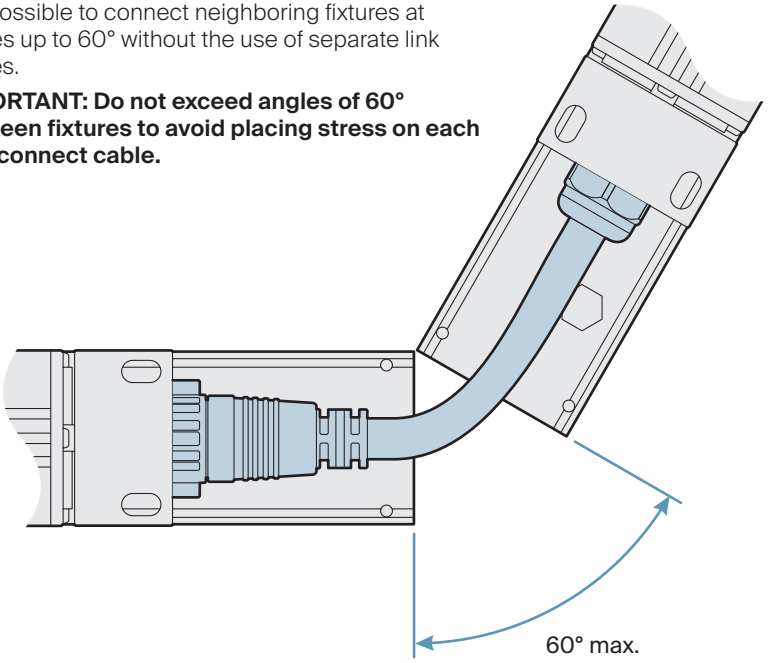
- **Any unused output ports must have their cover cap securely fixed in place.**
- Do not exceed the stated maximum fixtures in a daisy chain - see page 11.
- **At the final fixture in a daisy-chain run, install an XTR End Cap (see page 3) to seal off the power bus and also correctly terminate the DMX control feed.**
- To release a connection, ensure that the power input is isolated, then twist the blue lock ring of the plug counter-clockwise to release the connection.

Connecting units at angles up to 60°

It is possible to connect neighboring fixtures at angles up to 60° without the use of separate link cables.

IMPORTANT: Do not exceed angles of 60° between fixtures to avoid placing stress on each interconnect cable.

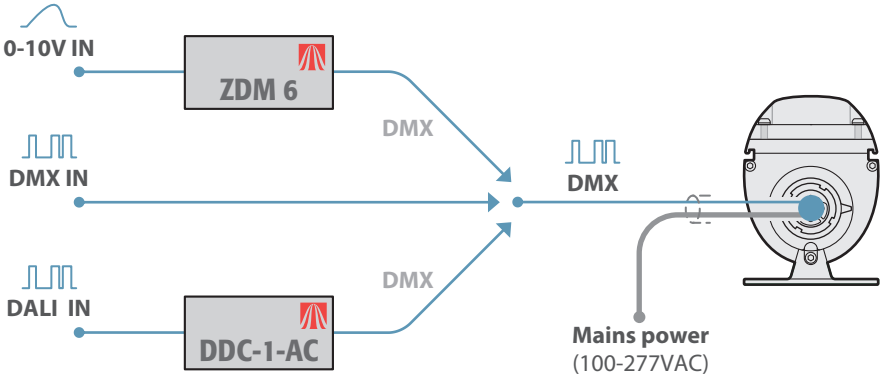


Control

Linear XTR H1 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.

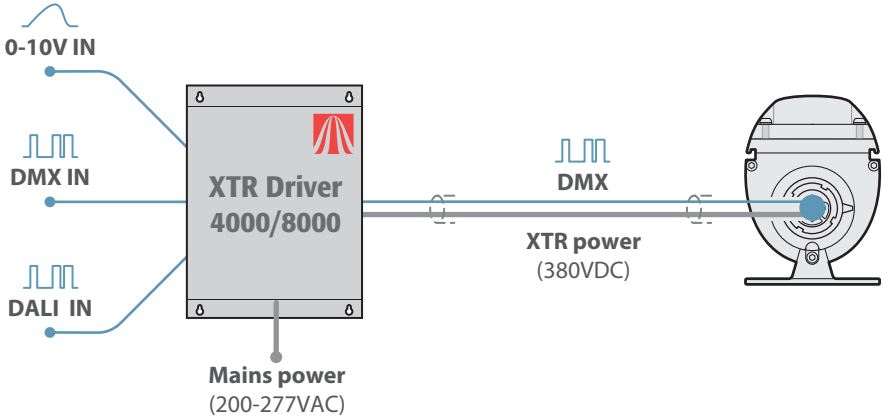
Control inputs via converters

- DMX - connect a DMX input directly into the feed cable.
- 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].



Control inputs via an XTR Driver

The XTR Driver 4000 and 8000 units can accept DMX, 0-10V or DALI control inputs directly. The latter two methods are converted within the driver[2] before being transmitted as DMX within the consolidated output, together with the high voltage XTR power.



Notes:

[1] When using Acclaim Lighting ZDM 6 or DDC-1-AC modules it is possible to convert up to six 0-10V feeds or up to 64 DALI channels into separate DMX channels within a consolidated feed - thus allowing multiple Linear XTR fixtures to be uniquely addressed.

[2] When using an XTR Driver, the internal conversion supports either a single 0-10V feed or a single 'broadcast' DALI channel - meaning that all Linear XTR fixtures will use the same single control address. To benefit from multiple channels, use a ZDM 6 or DDC-1-AC to externally convert signals.

DMX control considerations

The maximum number of fixtures that can be uniquely addressed in a run is determined by the length, emitter type and operation mode (see page 23) of each linear fixture, as summarized in the tables below. Additionally, any number of fixtures can be configured to use duplicate control addresses, as required.

1' (305mm) Linear XTR H1

Emitter options	*DMX channels used* Cell 1	*Total channels per fixture*	*Maximum unique fixtures*
W	1	**1**	**512**
DW	2	**2**	**256**
RGBW/A	4	**4**	**128**

4' (1220mm) Linear XTR H1 (operating in '1 Group' mode)

Emitter options	*DMX channels used* All cells combined	*Total channels per fixture*	*Maximum unique fixtures*
W	1	**1**	**512**
DW	2	**2**	**256**
RGBW/A	4	**4**	**128**

4' (1220mm) Linear XTR H1 (operating in '4 Group' mode)

Emitter options	*DMX channels used* Cell 1	Cell 2	Cell 3	Cell 4	*Total channels per fixture*	*Maximum unique fixtures*
W	1	1	1	1	**4**	**128**
DW	2	2	2	2	**8**	**64**
RGBW/A	4	4	4	4	**16**	**32**

Tips for achieving successful DMX control

- Attach an end cap [Part #: XTREC] to the output connector of the final fixture. The end cap will correctly terminate the DMX signal (and will also safely seal off the power bus).
- The DMX cable connected to the feed cable should be suited for RS-485 data transmission and have a characteristic impedance of 120 ohms, such as Belden 9842 or equivalent.
- 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 such as the Acclaim Lighting RDS 6: https://acclaimlighting.com/rds-6
- Ensure that the DMX + and DMX – connections do not become crossed at any point.

Recommended DMX initial feed cables

- Indoor exposed or inside conduit above grade: Belden 9842
- Indoor plenum: Belden 82842
- Outdoor exposed, direct burial, or inside conduit below grade: Belden 3107DB

XTR innovations to enable long runs

There are numerous challenges involved with creating long runs of high output LED fixtures, most notably concerning control and power; in response, Acclaim Lighting engineers have created ingenious solutions to ensure consistent and reliable operation:

Control

Long distances and high fixture counts are detrimental even to such a robust control solution as DMX; usually a maximum of 32 fixtures is possible before the signal-to-noise ratio threatens to affect operation. That is why every fixture in the Acclaim Lighting XTR range acts as its own signal isolator and conditioner before passing the control feed down the line. The result is a clean, reliable and [still] industry-standard control solution right to the end of the line. Additionally, as each fixture supports RDM, the passage of conditioned and isolated signals is fully bi-directional.

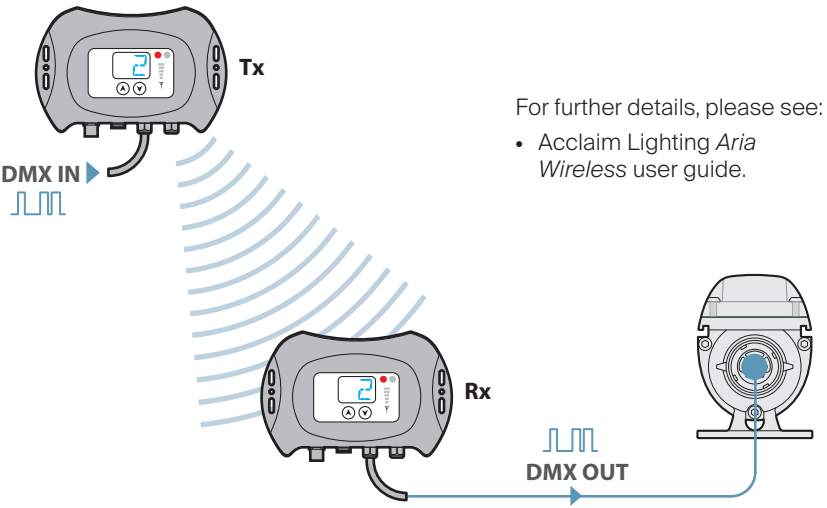
Power

Every XTR fixture conditions its own power using a high-efficiency internal switched-mode power supply. A well known feature of such devices is their behavior during the fractions of a second after power is first applied, known as 'in-rush current'. This is when their internal components top themselves up with charge to progress from empty to a working state, which causes a very brief rise above their usual maximum consumption level. If you place many such devices on the same power line and activate them all simultaneously, their collective temporary overruns can easily swamp an otherwise perfectly adequate power feed, causing breaker trips.

To reliably solve this issue, the common high voltage power rail running through the XTR cables is not a 'dumb run' but rather a managed resource. Every XTR fixture energizes itself fully before passing power through to the next fixture in the chain. The delay at each fixture is measured in milliseconds, but it is sufficient to ensure that the installation as a whole never stresses the main power feed during the initial startup.

Optional wireless control

Using optional Acclaim Lighting Aria modules it is possible to wirelessly transmit a DMX signal to a Linear XTR run over distances up to 2600 feet (792m):



For further details, please see:

- Acclaim Lighting *Aria Wireless* user guide.

Operation

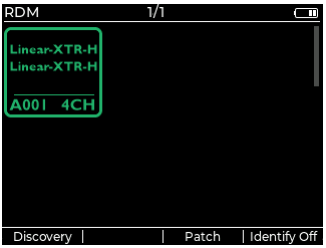
Linear XTR H1 fixtures have no external controls and instead rely on RDM (Remote Device Management) for all configuration via the DMX interface. This allows multiple devices to be configured either before or after installation.

Addressing fixtures

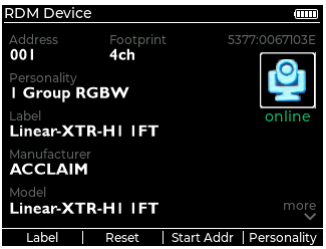
To configure the DMX address using the XMT-500

1 Connect the XMT-500 to the DMX input line of the Linear XTR H1 installation.

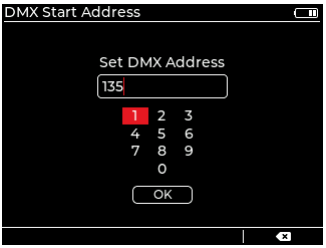
2 On the XMT-500 main menu, highlight the RDM app and press ☑ - the XMT-500 will search for RDM devices and after a short while it will display a list of all located fixtures:



3 Highlight the Linear XTR H1 fixture and press ☑ to view the fixture details:



4 Press the • **[Start Addr]** softkey to set the address:



- Use the arrow buttons to move the red highlight between digits.
- Press ☑ to enter a digit into the address box.
- Use the • **[⌫]** softkey to delete a digit.

5 When the address is complete, either long press ☑ or highlight **OK** and press ☑.

6 Press ↩ to return to the RDM app.

DMX channels

The number of channels required per fixture depends on the model and, for 4' models, also the cell mode (personality) - see page 23:

Emitter options	***1'*** *(or 4' in 1 Group mode)*	***4'*** *(in 4 Group mode)*
White	1	4
Dynamic white	2	8
RGBW/A	4	16

DMX cell addressing

The actual alignment of Linear XTR H1 fixture cells to DMX addressing is determined by the base address (see page 22) and, for 4' models, also the chosen cell mode (personality). For a fixture assigned with a start address of 1, the DMX addresses for each color of each cell are listed below. For details about choosing the cell mode (personality), see page 21.

1' (305mm) Linear XTR H1

INPUT	Cell 1
White	W: 1
Dynamic White	Warm: 1 Cold: 2
RGBW/A	R: 1 G: 2 B: 3 A / W: 4

4' (1220mm) Linear XTR H1 (operating in '1 Group' mode)

INPUT	All cells combined
White	W: 1
Dynamic White	Warm: 1 Cold: 2
RGBW/A	R: 1 G: 2 B: 3 A / W: 4

4' (1220mm) Linear XTR H1 (operating in '4 Group' mode)

INPUT	Cell 1	Cell 2	Cell 3	Cell 4
White	W: 1	W: 2	W: 3	W: 4
Dynamic White	Warm: 1 Cold: 2	Warm: 3 Cold: 4	Warm: 5 Cold: 6	Warm: 7 Cold: 8
RGBW/A	R: 1 G: 2 B: 3 A / W: 4	R: 5 G: 6 B: 7 A / W: 8	R: 9 G: 10 B: 11 A / W: 12	R: 13 G: 14 B: 15 A / W: 16

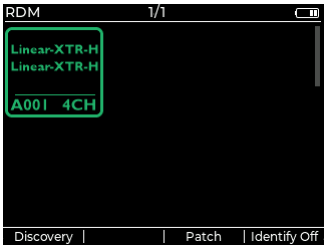
Setting the cell mode (personality)

The 4' (1220mm) models offer a choice of modes that determine whether all of the emitters act as a single 4' cell or as four separate 1' cells, each with their own set of DMX addresses - see page 23.

To set the cell mode using the XMT-500

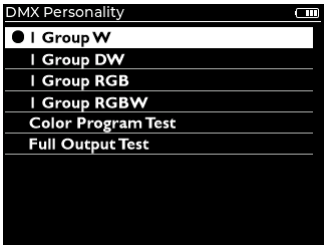
1 Connect the XMT-500 to the DMX input line of the Linear XTR H1 installation.

2 On the XMT-500 main menu, highlight the RDM app and press ☑ - the XMT-500 will search for RDM devices and after a short while it will display a list of all located fixtures:



3 Highlight the Linear XTR fixture and press ☑ to view the fixture details:

4 Press the • **[Personality]** softkey:



Note: You can optionally set the fixture to produce a static color or slow chase that will run whenever power is applied, either:

- **Color Program Test** *to set a chase, or*
- **Full Output Test** *to set all emitters to 100%.*

DMX control is ignored when in these modes.

5 Use the ⊕⊖ buttons to highlight the required cell mode:

- For white models, choose either **1 Group W** or **4 Group W**,
- For dynamic white models, choose either **1 Group DW** or **4 Group DW**,
- For RGBW or RGBA models, choose either **1 Group RGBW** or **4 Group RGBW**.

6 Press ☑ to set the highlighted cell mode and return to the previous page.

7 Press ↩ to return to the RDM app.

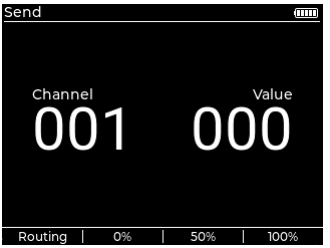
Testing emitter output

After you have addressed each fixture we recommend that you also test each one. This can be achieved using an RDM (Remote Device Management) tool; we recommend the XMT-500 for this task.

To test emitter output using the XMT-500

1 Connect the XMT-500 to the DMX input line of the installation.

2 On the XMT-500 main menu, highlight the Send app and press ☑:



3 Use the XMT-500 buttons to determine the values sent out to the fixture(s):

- Choose DMX channel: CH+ CH−
- Change the value: + −
- Use preset values: • **[0%] [50%] [100%]**
- View the Settings page: ⚙

*Note: If you wish to send DMX values to all addresses simultaneously (rather than cycling through them individually), when the XMT-500 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.*

Note: [Fixtures with white emitters only] If no control protocol is present, white light fixtures will default to full on.

Further information

Troubleshooting

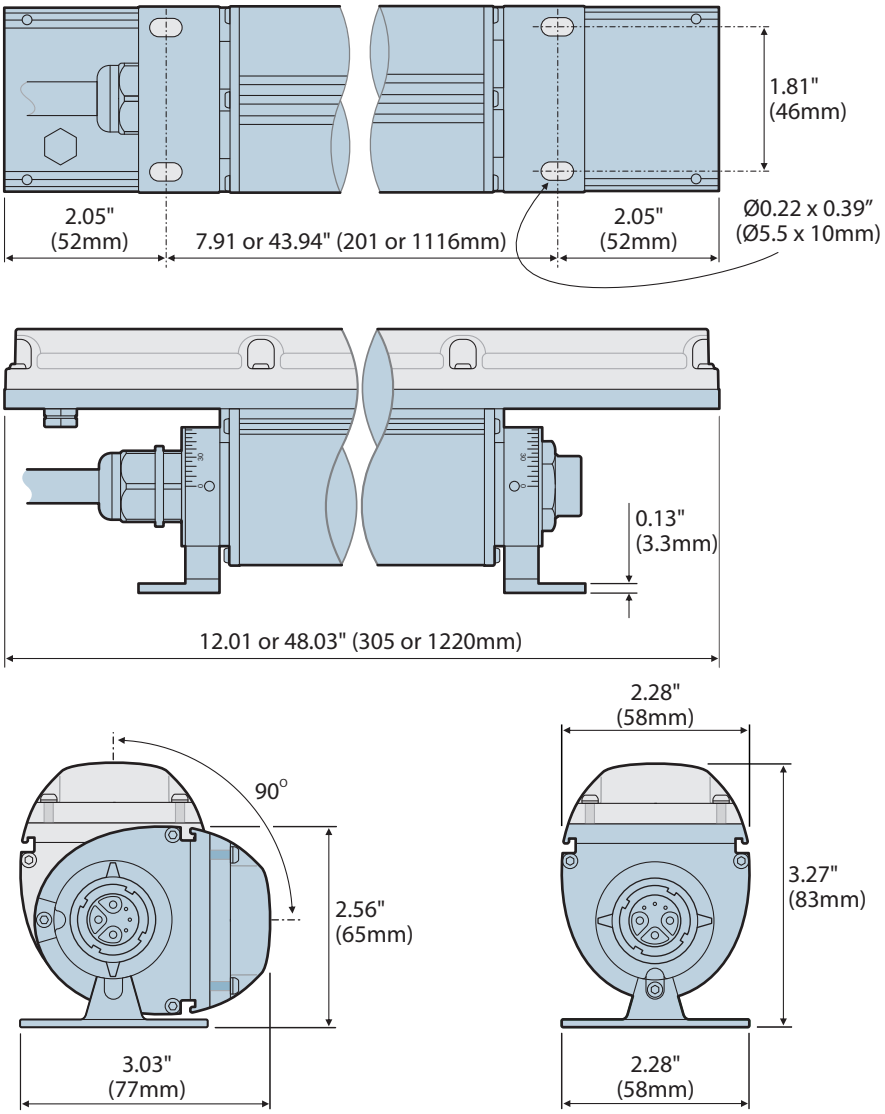
No light output is visible when expected

- Check that power is correctly applied to the fixture and that there is no damage to the power input cord.
- Use an RDM tool to perform an emitter test.
- Check that the DMX address set within the fixture matches that being output by the controlling source device.
- Check the DMX output near to the source to confirm a valid signal is being originated.
- Check that the DMX + (hot) and DMX - (cold) lines have not been crossed.
- [Fixtures with white emitters only] If no control protocol is present, white light fixtures will default to full on.

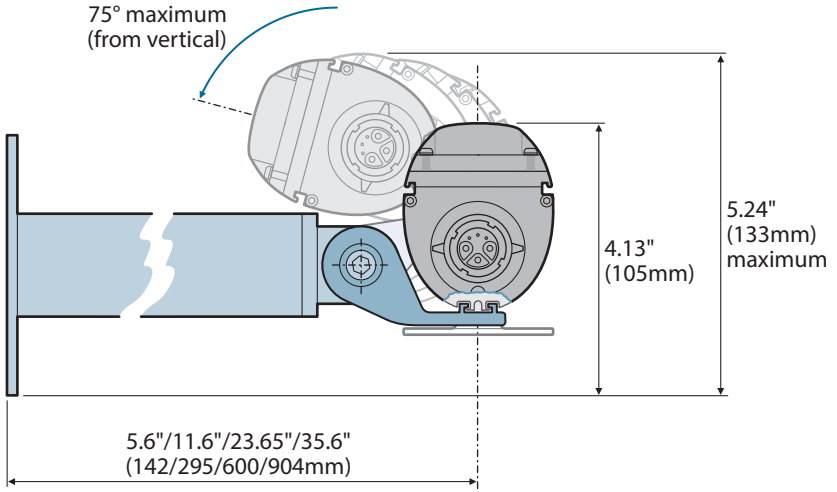
Specifications

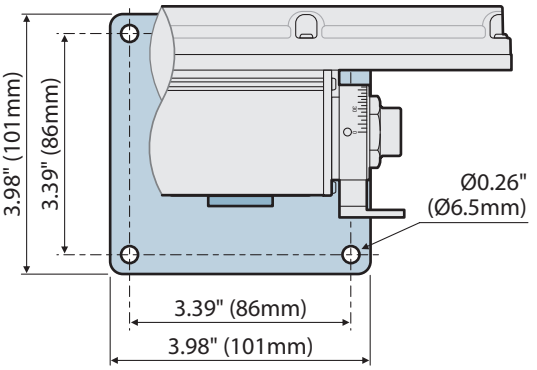
Emitters	2700K, 3000K, 3500K, 4000K, DW (2400K to 5500K), RGBW (W=3000K, 4000K or 6000K), Quad-color (Spectrum 4) RGBW (W=3000K, 4000K or 6000K) or RGBA
Optics	10° x 10°, 25° x 25°, 40° x 40°, 30° x 10°, 60° x 10°, 60° x 60°, 100° x 100°, 10° x 35°, 10° x 60°, 30° x 60°, 60° x 30°, 90° x 10° or Asymmetric wall wash (60° x 60°, 20° tilt)
Photometrics (1ft 10x60)	**3000K**: 1,430 lumens per foot **4000K**: 1,606 lumens per foot **RGBW**: 704 lumens per foot **DW**: 990 lumens per foot
Lumen maintenance	L_{70} @ 150,000 hours (25°C)
Control	0-100% dimming via DMX / RDM native, 0-10V (sink or source) or DALI via XTR Driver 4000 / 8000
Housing Lengths	**1'** (305mm) or **4'** (1220mm)
Maximum lengths in series	Up to 180' (55m) via XTR Driver 4000 / 8000 (see page 11)
Operating voltage	100-277VAC, 50/60Hz direct or 380VDC via XTR Driver 4000 / 8000
Power consumption	22W (1' model), 88W (4' model)
Ingress protection	IP66, wet location
Impact protection	IK10, protection against 5 joule impact (40cm distance)
Connectors	IP66 end to end multi-pin connection cables included
Housing	Aluminum body with PMMA top lens
Finish	Finished aluminum, black (RAL 9005), white (RAL 9003) or custom colors (provide RAL #) Optional marine coating available
Operating temperature	-40°F to 131°F (-40°C to 55°C)
Weight	**1'**: 2.82 lbs (1.28 kg) **4'**: 10.2 lbs (4.63 kg)
Certifications	Intertek, FC, CE, 3G LUMINAIRE VIBRATION

Dimensions


1.81"
(46mm)
2.05"
(52mm)
7.91 or 43.94" (201 or 1116mm)
2.05"
(52mm)
Ø0.22 x 0.39"
(Ø5.5 x 10mm)
0.13"
(3.3mm)
12.01 or 48.03" (305 or 1220mm)
90°
2.56"
(65mm)
3.03"
(77mm)
2.28"
(58mm)
3.27"
(83mm)
2.28"
(58mm)

Optional extender arm





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