Acclaim™

aria
wireless

OutdoorLink
system

Dyna Accent™

Contents

Introduction

Welcome

Welcome to the Dyna Accent range from Acclaim Lighting. These rugged LED-powered fixtures are designed to replace traditional external flood lights while using a fraction of the power. Featuring a die-cast aluminum body throughout with full IP66 environmental rating, these fixtures are built to last. A choice of standard gray, black or white finishes plus special-order custom colors are available.

The Dyna Accent range includes the following options:

- Fixed white - 2700K, 3000K, 3500K, 4000K or 5700K emitters, (all with 5° beam angle),
- RGBW - Red, green, blue and white LED emitters, (all with 10° beam angle),

External control using the industry standard DMX-512A is supported via either the cord or the in-built Aria™ wireless receiver. The industry standard RDM *(Remote Device Management)* format is used for configuration. Dyna Accent features automated operation when light levels fall below a certain level together with a timer for auto shut off.

A clear daylight-readable OLED touch-screen user display provides access to a comprehensive configuration menu system (see page 19). Alternatively, the industry standard RDM (Remote Device Management) format can be used to configure the DMX start address and wireless channel (see page 29).

The internal auto-sensing power supply can accept mains inputs between 100 to 277VAC at 50 or 60Hz. Maximum power consumption is just 40 or 41W, depending on the model.

Optional spread lenses and snoots are available.

All models can be specified with Outdoor Link System connectors pre-fitted instead of bare tails. OLS greatly simplifies the task of distributing power and control to multiple fixtures (see pages 15 and 16).

OutdoorLink system

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 a correctly fused, earthed and environmentally protected location.

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.

Supplied items
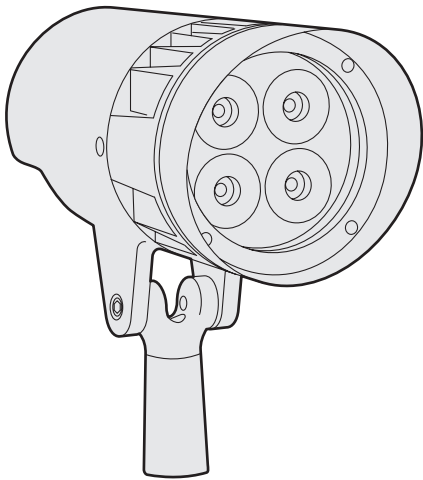
Optional extras

Spread lens
*20°, 40°, 60° or
10° x 60° available*

**Ground spike (plus
threaded joiner)**
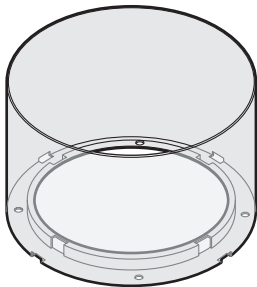
4" (100mm) Snoot
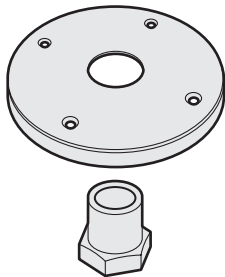
Base plates
*2 versions available,
for use either with
4" electrical boxes,
or for direct surface
mounting*
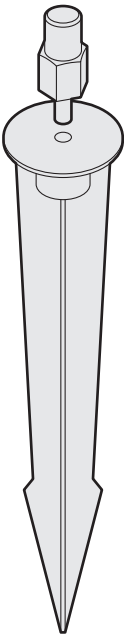
Outdoor Linking System part codes
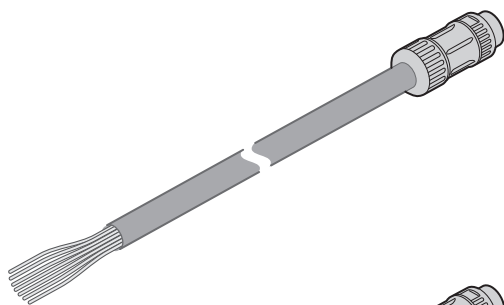
Feed cables

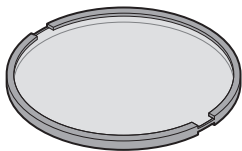|	
1' (30cm)	OLSF1#-V2
5' (1.5m)	OLSF5#-V2
10' (3m)	OLSF10#-V2
25' (7.6m)	OLSF25#-V2
50' (15.2m)	OLSF50#-V2

 # = color: G-Gray, B-Black, W-White, C-Custom (RAL# required)
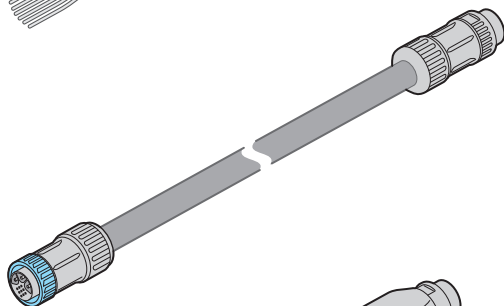
Link cables

1' (30cm)	OLSL1#-V2
5' (1.5m)	OLSL5#-V2
10' (3m)	OLSL10#-V2
25' (7.6m)	OLSL25#-V2
50' (15.2m)	OLSL50#-V2

 # = color: G-Gray, B-Black, W-White, C-Custom (RAL# required)
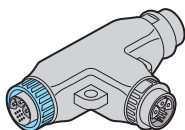
T-junction

OLST2-B	Black
OLST2-W	White
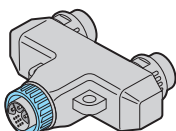
Y-junction

OLSY2-B	Black
OLSY2-W	White
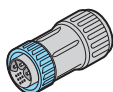
End cap with DMX termination

OLSEC-B	Black
OLSEC-W	White
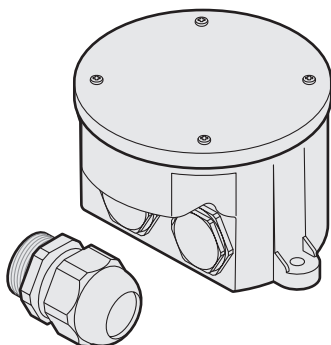
IP66 junction box plus outlet cable gland
See page 14
AJBOX1

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Installation

Tilt adjustment

The Dyna Accent fixture uses two bolts to adjust and lock off its tilt angle. A 1/4" (6mm) Allen wrench (hex key) is used to adjust the tilt angle.

Tilt adjustment bolt

Tilt adjustment bolt

1/4"(6mm) Allen wrench (supplied)
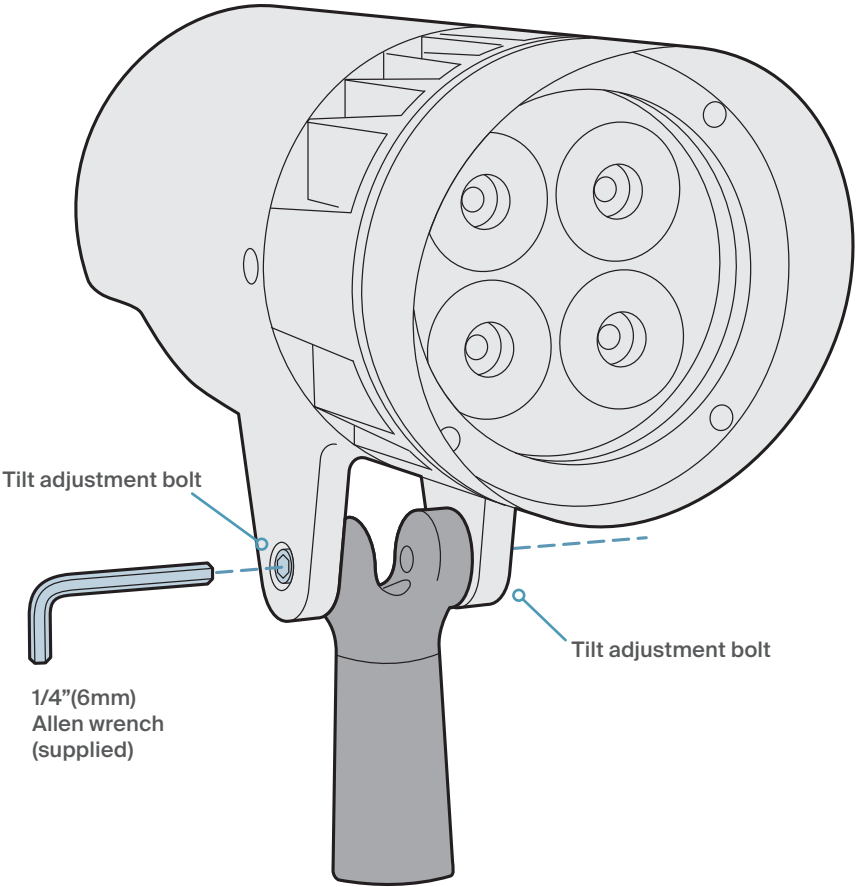
The tilt angle of the Dyna Accent head is adjustable through a range of nearly 180 degrees. See next page.

Tilt range

The head of the Dyna Accent can be rotated through almost 180 degrees, although the downward tilt limit is restricted slightly when used with either of the base plate options.

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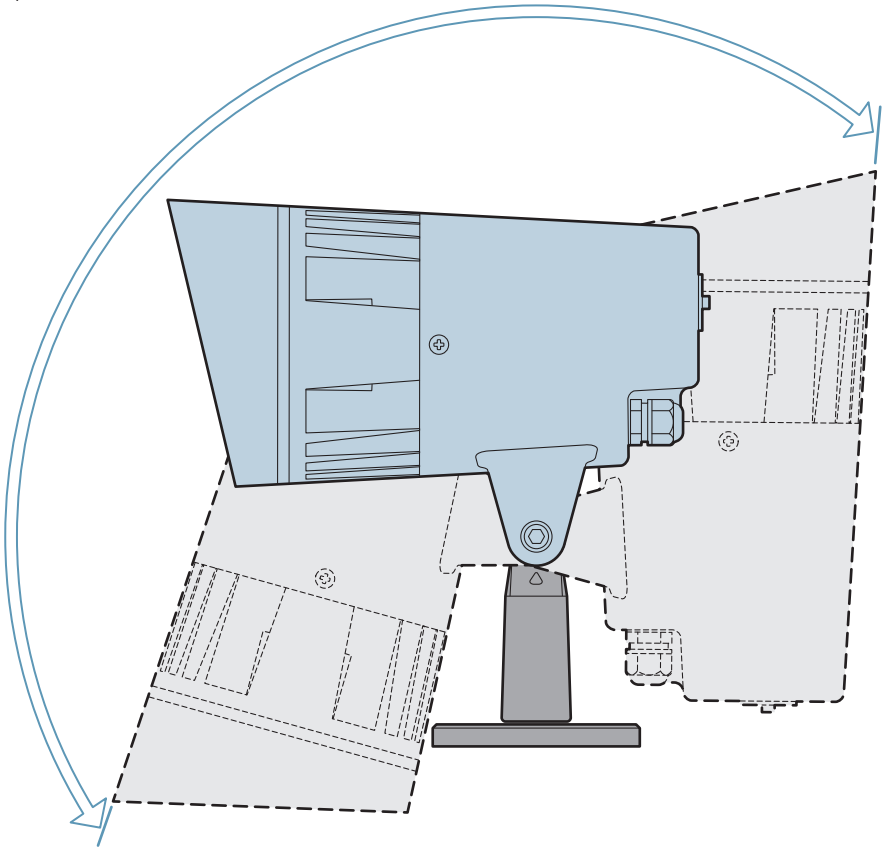
Fitting a base plate

Two types of base plate are available, both have an outside diameter of 4.45" (113mm); one is solid, for direct surface mounting, while the other is hollow for use on standard 4" round electrical outlet boxes. Both base plate types are attached to the Dyna Accent fixture in the same way. See "Dimensions" on page 36. *Note: The pillar has a standard internal 1/2" NPT pipe thread.*

To fit a base plate

1 First determine whether the cord will run down through the pillar and through the base plate, or will run externally. *Note: When using the Outdoor Linking System option, it will not be possible to thread the cord through the pillar due to the pre-fitted OLS connector.*

2 If the cord is run down inside the pillar, thread the cord through the center hole of the plate and also through the large *Lock nut*.

Pillar
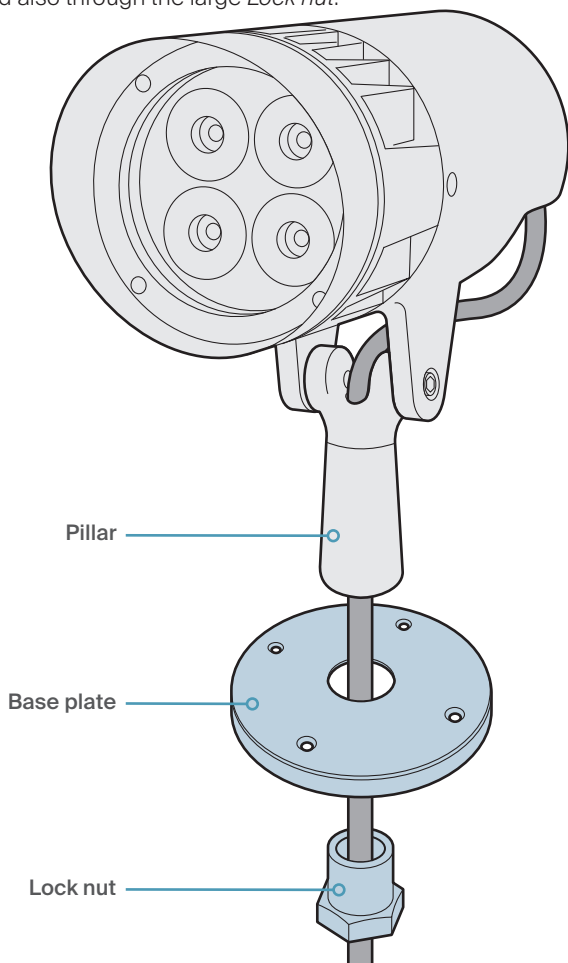
Base plate

Lock nut

3 Bring the lock nut up through the center hole of the base plate and insert it into the internal thread of the pillar. Tighten using a 1" (26mm) wrench.

4 Secure the base plate to the surface/electrical outlet box using four suitable screws or bolts (preferably with countersunk heads).

Pan adjustment

When the Dyna Accent fixture is used with one of the base plates, make pan adjustments by loosening the lock nut on the underside of the base plate (using a 1" (26mm) wrench). When the desired pan position is achieved, tighten the lock nut.

Lock nut

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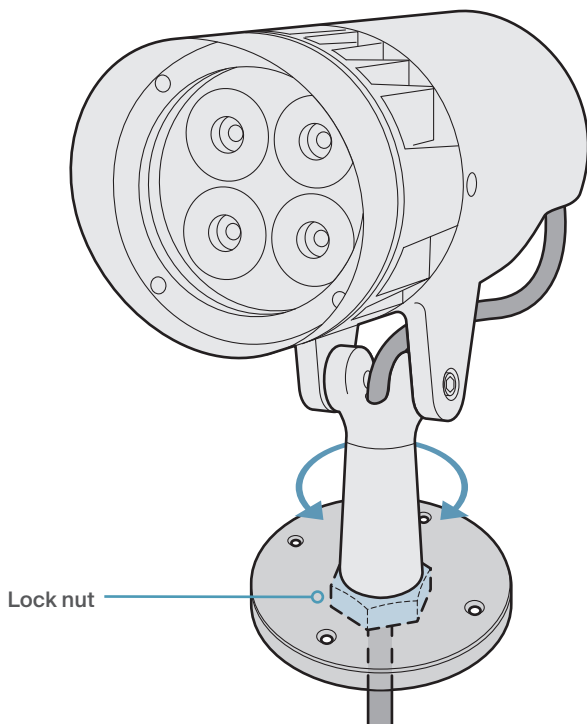
Fitting a ground spike

The optional ground spike kit provides extra flexibility for landscape illumination projects.

Note: This procedure can be carried out in any order, however, if you attach the fixture to the spike once it is in the ground, the actions of attachment could loosen the spike's grounding, particularly in soft soil. Conversely, in hard soils it may be necessary to first drive the spike into the ground using a mallet and a suitable piece of wood as a drift (to protect the top of the spike).

1 If the cable is running through the pillar, remove it now. Screw the threaded *Joiner* into the base of the fixture's pillar and tighten using a 15/16" (24mm) wrench:

2 Screw the small thread of the joiner into the top of the ground spike and use the same wrench to tighten it in place.

3 Push the spike into the ground. If necessary, use a piece of wood, each side of the joiner, to apply suitable downward pressure directly to the top surface of the spike. Do not push down hard on the fixture itself.

Threaded joiner

Ground spike
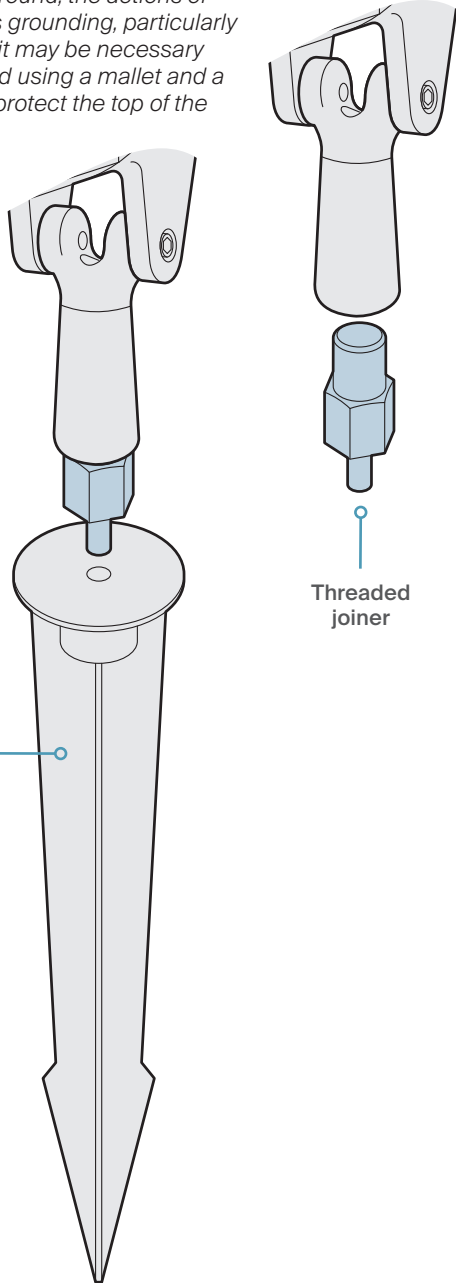
Fitting a spread lens

The standard beam angle is either 5 or 10 degrees, depending on model. These can be adjusted by inserting an appropriate spread lens into the inside of the front panel.

To fit a spread lens

Notes: This operation is best achieved with the Dyna Accent front face lying horizontally. Install spread lenses only in dry conditions to avoid any build up of condensation.

1 Using a Phillips screwdriver, slightly loosen each of the four screws that secure the front hood to the main body of the fixture. Once all screws have been suitably loosened, remove all four of them and lift off the hood.

2 Remove the protective films from both sides of the spread lens.

3 Ensure that the black rubber gasket is correctly in place around the circumference of the spread lens. Find the *drain recesses* on each side of the rubber gasket and ensure that these are aligned with the two drain holes of the Dyna Accent.

4 Place the hood over the spread lens and Dyna Accent front face, ensuring that the *Drain hole* of the hood aligns with the drain recess in the rubber gasket of the lens.

5 Reintroduce the four screws and tighten sufficiently.

Hood

Drain hole

Spread lens

Drain recess

Drain hole

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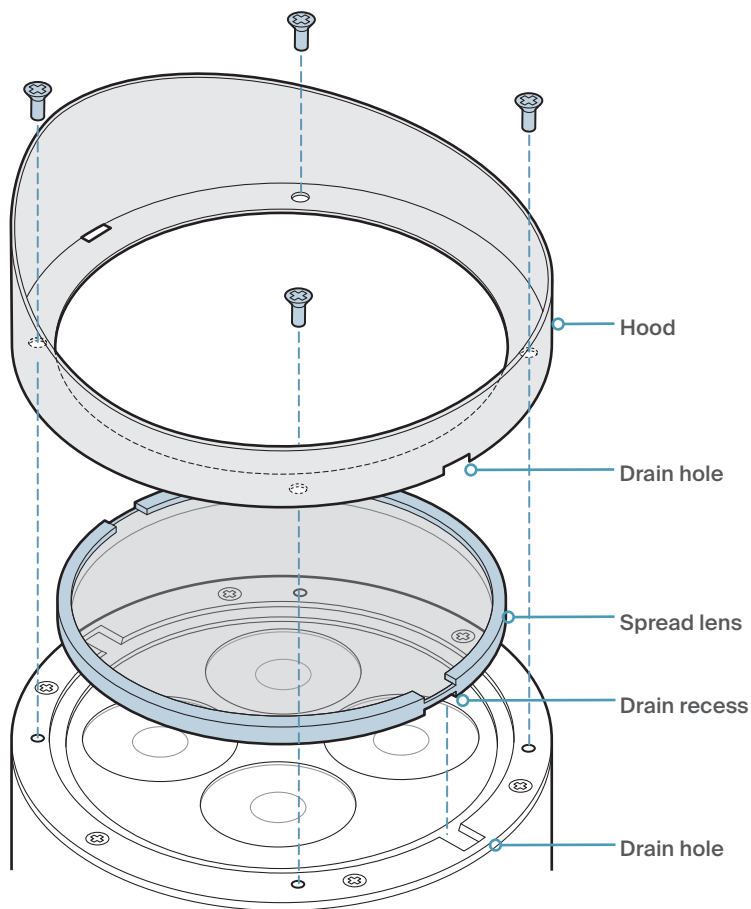
Fitting a snoot

In installations where any light spill from the Dyna Accent must be eradicated from a nearby surface, the optional 4" snoot is recommended.

Note: If required, a spread lens can be fitted together with the snoot, see page 10.

To fit a snoot

Note: This operation is best achieved with the Dyna Accent front face lying horizontal.

1 Using a Phillips screwdriver, slightly loosen each of the four screws that secure the hood to the main body of the fixture. Once all screws have been suitably loosened, remove all four of them and lift off the hood.

2 Place the snoot over the Dyna Accent front face in replacement for the hood. *Note: There are drain holes located every 90 degrees around the snoot circumference, so it can be attached in any orientation.*

3 Fit the four screws and their washers from the original hood and tighten sufficiently.

Snoot
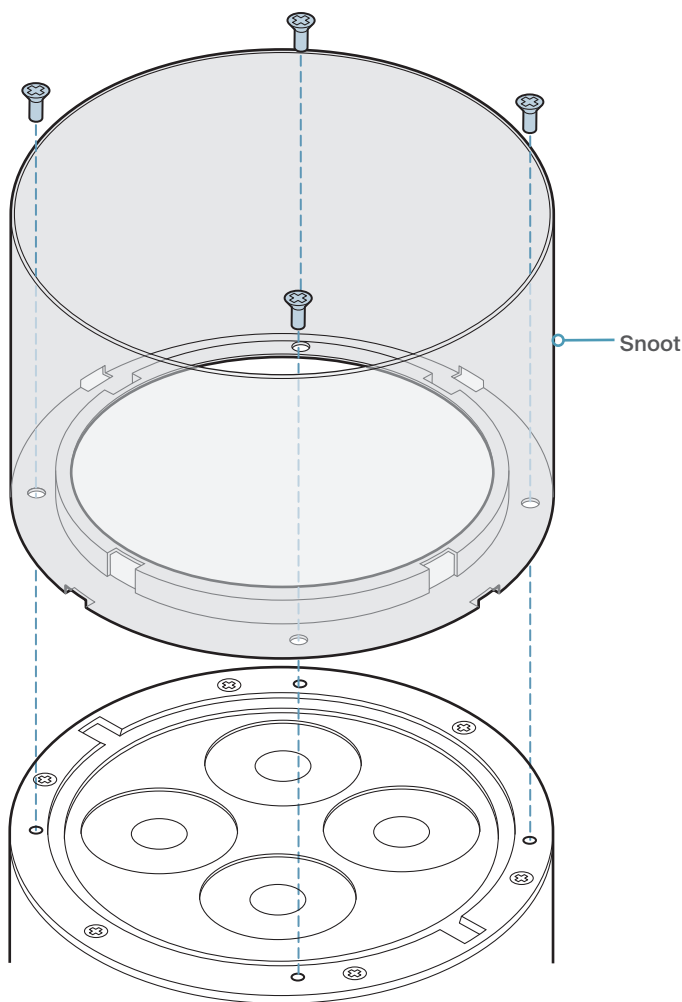
Power and control wiring

The combined power and control cord (roughly six feet, 1.8m in length) enters the casing via a water-tight gland at the rear of the fixture. The cord can be supplied either with bare tails or an Outdoor Linking System connector (see page 15).

For models with bare tails, the power cord color designations are as follows:

Green/Yellow [Earth]
Brown [Live]
Gloss Black [Neutral]
Matt Black [DMX Ground]
Gray [IN DMX −]
Red [IN DMX +]
Green [OUT DMX −]
White [OUT DMX +]
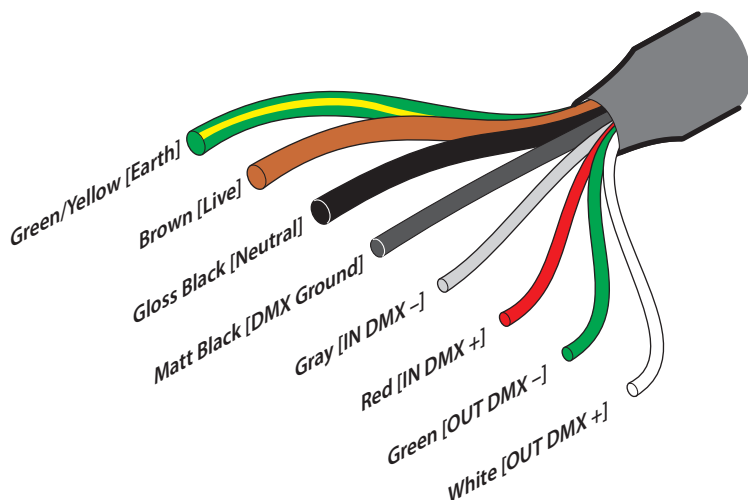
Power

The power requirements are as follows:

- Voltage: 100-277VAC 50/60Hz
- Power: 40 or 41W steady state (according to model)

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

The DMX header 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.

Ensure that:

- the mains input is derived from a suitable overload-protected supply.
- all cable access points, plus the enclosure cover are correctly sealed.
- all local codes are followed during planning and installation.
- only suitable cable connectors are used within the junction box.
- connections are made, inspected and certified by a qualified electrician.

In-rush current

Although LED fixtures are low power devices compared to their incandescent equivalents, their power supplies exhibit a trait known as 'in-rush current' when they are first powered on. This is caused by the various components within the switching power supplies topping themselves up with power. The in-rush current 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. For this reason it is advisable to limit the number of fixtures on any one power input.

Control

When connecting multiple fixtures, without the Outdoor Linking System options, connect the DMX control input lines to the first fixture and feed the output of that fixture to the next. The final fixture in the line should have a 120Ω terminating resistor connected between the DMX + and DMX – lines:
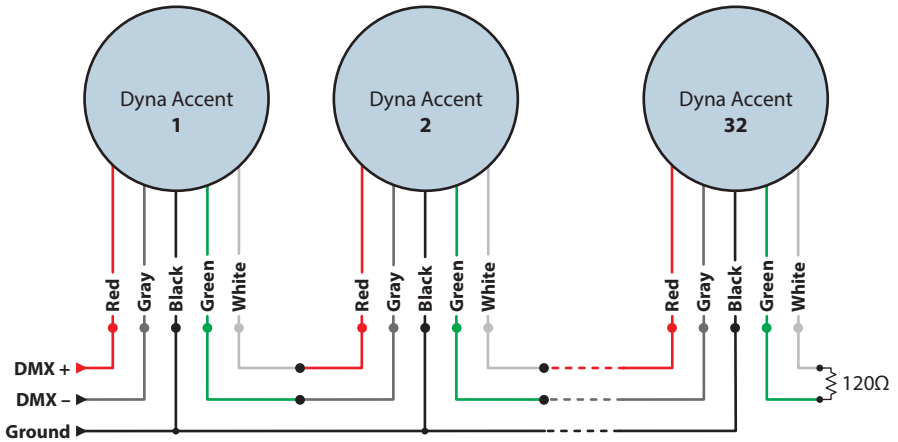
Note: Acclaim requires Belden 9842 or approved equivalent for all DMX wiring applications.

Tips for achieving successful DMX control

- Do not exceed a total cable length of 1,500 ft (457m) without buffering.
- Do not exceed a total of 32 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.
- 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.

Input wiring protection

Ensure that appropriate care is taken to protect the junction where the mains and control inputs are joined to the feed cable. The Acclaim Lighting AJBOX1 is an IP66-rated junction box which provides separated AC power and DMX control inputs for connection to a combined feed cable:

IP66 lid

Surge protector

Combined feed output (¾" NPT thread)

HV/LV barrier

AC power input (½" NPT thread)

DMX input (½" NPT thread)
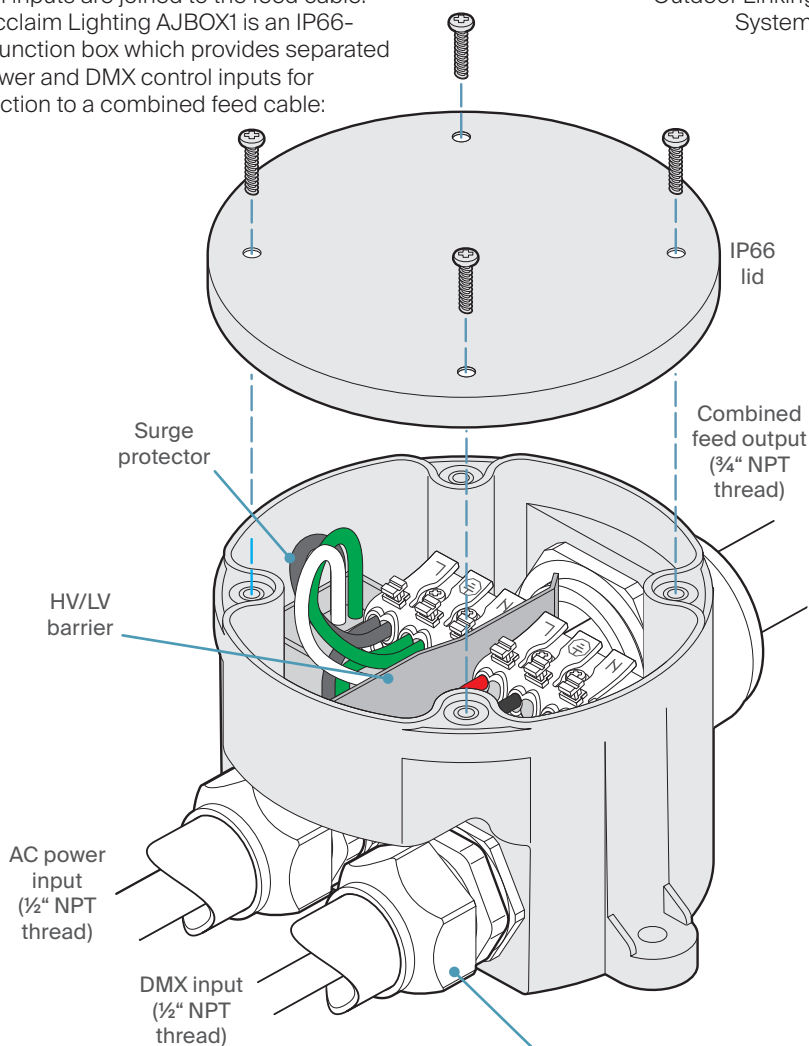
Input fixtures/glands

You will need to source 3rd-party conduit fixtures/cable glands for the inputs, as suits your installation. The large cable gland for the output is provided with the AJBOX1.

Shown here with cable gland inputs rather than conduit fixtures

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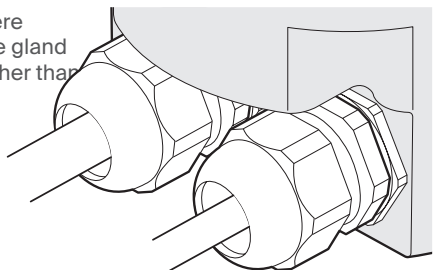
Cabling with OLS

Dyna Accents can be specified with Outdoor Link System connectors pre-fitted instead of bare tails. OLS greatly simplifies the task of distributing power and control to multiple fixtures.

OutdoorLink system

OLS is a collection of feed and link cables (of various lengths) plus a T-junction and a terminator, all utilizing IP67-rated connectors together with robust all-weather construction. The input to each stage is signified by a connector with a blue collar, while all outputs have connectors with black collars. The blue and black connectors mate quickly and easily, with a twist of the collar to lock them securely in place.

A typical configuration is shown on the next page.
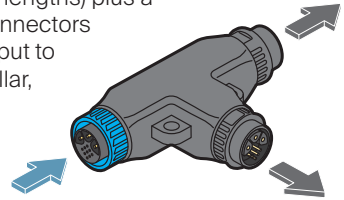
Limits

Feed current must not exceed 15A, which results in the realistic limits listed here:

Line voltage:	120VAC	230VAC	277VAC
Max power:	1,800W	3,450W	4,155W
Max run length:	150'	300'	350'
Max number of Dyna Accent fixtures:			
White:	32	32	32
Color:	32	32	32

Feed cable connections

Each feed cable provides bare tail connections suitable for termination within an all-weather junction box, such as the AJBOX1:

Red: **DMX IN +**
White: **DMX IN –** } **DMX IN**
Black: **DMX Ground**

Red/White: ✘
White/Black: ✘ } **Not used**

Brown: **AC Live**
Blue: **AC Neutral** } **POWER IN**
GreenYellow: **AC Earth**
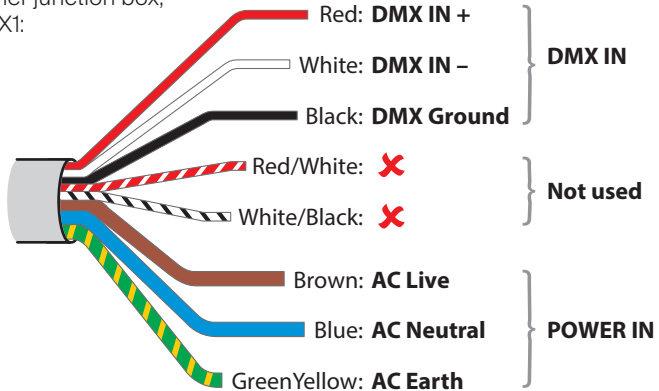
Typical OLS configuration

IMPORTANT: A terminator must be fitted to the final T-junction to simultaneously protect the live connections and correctly terminate the DMX control feed.

If a link cable is used between any T-junction and a fixture input, the total length (from the T-junction to the fixture) must not exceed 10' (3m) in length.

Power In ▶

DMX In ▶

AJBOX1
(see page 14)

OLSF#-V2 *Feed cable*
1' to 50'
(0.3 to 15.2m)

Dyna Accent with
5' (1.5m) cable and
OLS connector option

OLST2 *T-junction*

OLSL#-V2 *Link cable*
1' to 50'
(0.3 to 15.2m)

Dyna Accent with
5' (1.5m) cable and
OLS connector option

OLST2 *T-junction*

OLSL#-V2 *Link cable*
1' to 50'
(0.3 to 15.2m)

Dyna Accent with
5' (1.5m) cable and
OLS connector option

OLST2 *T-junction*

OLSEC *Terminator*

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Wireless control

The embedded Aria™ wireless system allows you to control any number of Dyna Accent fixtures that are within range of an Aria transmitter set to use the same wireless channel:

Tx

Optional Aria transmitter

DMX IN ▶
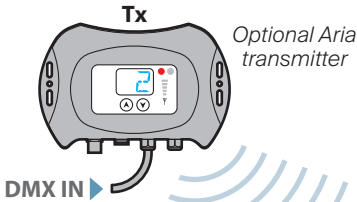
Notes:

The wireless channel is totally independent of the DMX address.

To aid clarity, the necessary power cables for each fixture are not shown in these diagrams.
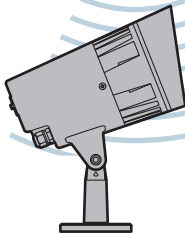
Wireless Addr: 2
DMX Addr: 100
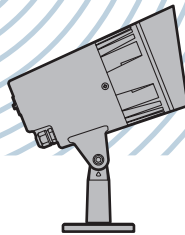
Wireless Addr: 2
DMX Addr: 104
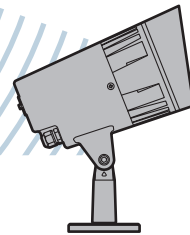
Wireless Addr: 2
DMX Addr: 108

Using a Dyna Accent as a wireless hub

When a Dyna Accent fixture receives a wireless input (and it has no wired DMX input), it will automatically output the full received DMX universe on its output wires. This means that you can wire through and control up to 32 non-Aria DMX fixtures (such as Pixel Graze), or more, if an active repeater is used.

Tx

DMX IN ▶
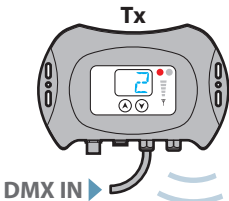
See "Configuring Aria wireless DMX" on page 25 for details about configuring the wireless channel.
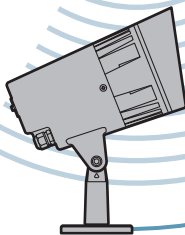
Wireless Addr: 2
DMX Addr: 100
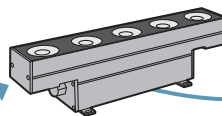
DMX Addr: 101
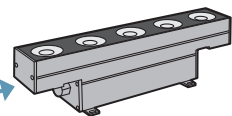
DMX Addr: 105

Non-Aria equipped fixtures (e.g. Pixel Graze)

Configuration

The user display/control panel is located on the rear surface of the fixture and is concealed behind a removable panel. Use a 1/8th (3mm) Allen wrench (hex key) to remove the two bolts and the panel. Alternatively, remove one bolt and loosen the other to allow the panel to be swung out of the way.
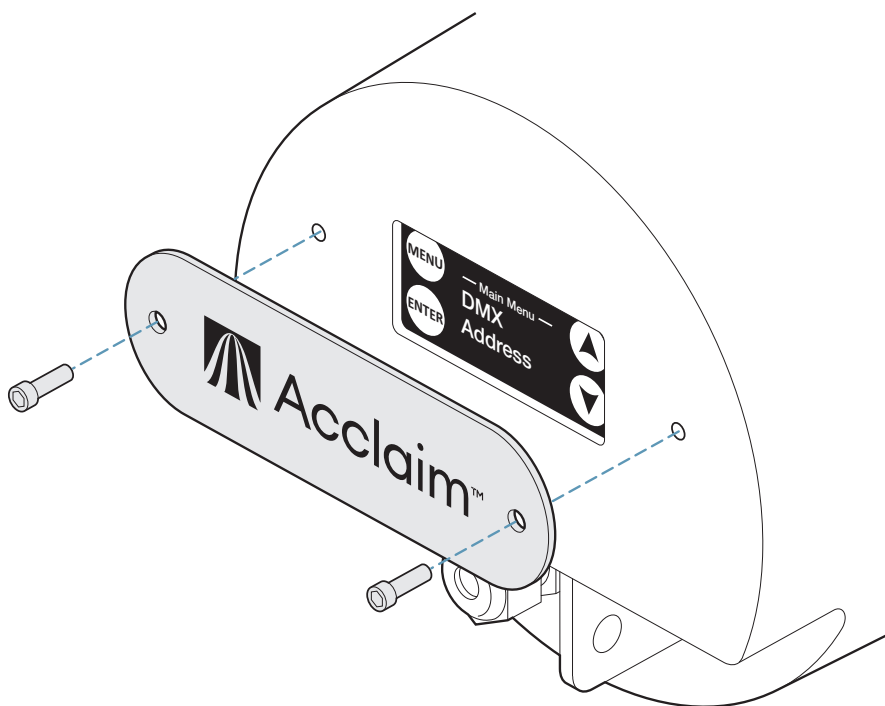
Operation of the fixture will commence as soon as power is applied and the user display on the rear panel will first show the model type and then show the current DMX address and number of channels. After a short period it will then blank out. The fixture may or may not immediately show output from its emitters - this will depend upon the settings within the menu and/or control input.

Note: The sealed control buttons use capacitive sensors similar to your smartphone screen and will not respond to touch if you are wearing gloves.

User display

Control buttons
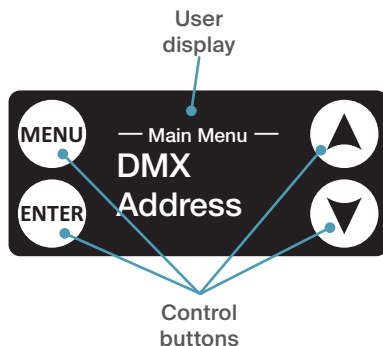
Entering the menu

Press and hold the **MENU** button for roughly 7 seconds until the *Main Menu* entry is shown, then use the buttons to navigate the menu, as described below. The menu will automatically exit roughly eight seconds after the last button press.

For a certain period after the menu has first been entered, and then exited, you will only need to tap any button to re-enter. After that period a locked symbol 🔒 will be shown and you will need to once again press and hold the **MENU** button for roughly 7 seconds to unlock it.

User display

MENU ── Main Menu ──
DMX
ENTER Address
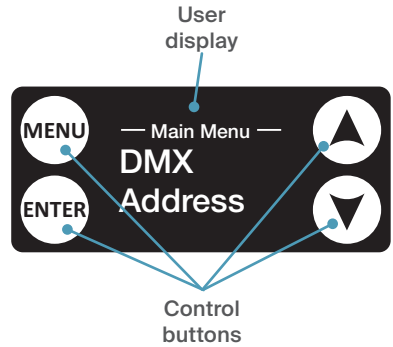
Control buttons

Menu navigation

Once you have entered the menu you can use the four control buttons to navigate around the menu and alter settings as necessary. The next page lists the main menu items.
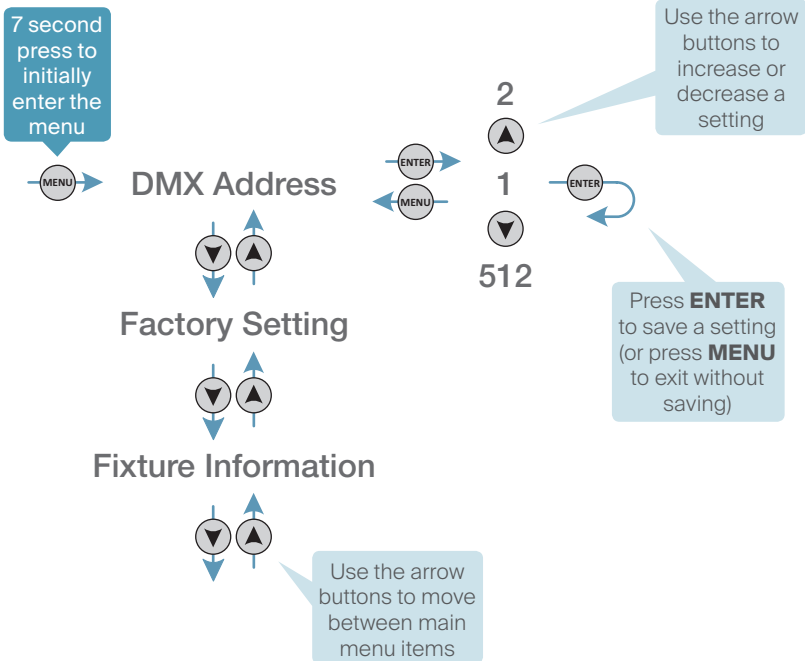
7 second press to initially enter the menu

MENU → DMX Address

Use the arrow buttons to increase or decrease a setting

2
▲
ENTER
1 ENTER
MENU
▼
512

Factory Setting

Press **ENTER** to save a setting (or press **MENU** to exit without saving)

Fixture Information

Use the arrow buttons to move between main menu items

DMX channels

The number of DMX channels required per fixture depends on the model:

- Fixed white models   1 DMX channel
- RGBW models   4 DMX channels

Main menu items

DMX Address — Allows you to set the DMX start address for this fixture. Depending on the model, between one and five DMX addresses are required. See page 21.

Factory Setting — Clears all user settings and returns all options to their default states. Also resets the DMX address to 1. See page 21.

Fixture Information — Provides various details including the current LED temperature, usage times and firmware version. See page 21.

Gamma — Defines the relationship between the input control values and how the various LED emitters respond across their dimming ranges, from 0 to 100%. See page 22.

Frequency — Determines the base frequency used to control the LED emitters. This can be changed to eliminate visible flickering on video images. See page 22.

Display Setting — Allows various changes to the user display, such as invert, backlight timeout, temperature units, etc. See page 23.

Internal Color Mode — Allows you to mix a static color that will be shown depending on the status of the DMX input and the setting of the Solo Behavior option. *Note: Single color models show Internal Output Mode.* See page 23.

System Test — Cycles through the various emitters to confirm correct operation. See page 24.

White Balance — Allows you to bias the red, green and/or blue intensities in order to achieve a particular white balance that will be reproduced when RGB mixes are requested. *Note: Not available on single color models.* See page 24.

Wireless DMX — Determines the configuration of the internal wireless DMX receiver. See page 25.

Photocell — Determines the configuration of the internal photocell automation features. See page 26.

Solo Behavior — Determines how the fixture should behave when there is no external control input. See page 27.

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Setting the DMX address

When external control (wired or wireless) is used, the DMX start address of the fixture needs to match the start address being used by the controlling device. Color fixtures use four DMX channels (for Red, Green, Blue and White), beginning with the one chosen here; white-only models require just one DMX channel.

Notes:

- *The DMX address can also be configured via RDM, see page 28.*
- *The DMX address is completely independent of the Aria wireless radio channel setting.*
- *When a valid DMX input is attached to the Dyna Accent fixture it will override any internal color output.*

To set the DMX address

1 Enter the user menu (see page 19).

2 Press **ENTER** to choose the *DMX Address* menu item.

3 Use the ⬇ and ⬆ buttons to choose a start address from 1 to 509 (512 on white-only models).

4 Press **ENTER** to save. The DMX start address is now fixed.

Returning to factory settings

This option returns the fixture to its default settings. The DMX address will be reset to 1.

To return to factory settings

1 Enter the user menu (see page 19).

2 Use the ⬇ button to locate the *Factory Setting* option and press **ENTER**. The display will show *Reset to Factory Defaults*.

3 Press **ENTER**. The display will show *Are you sure?*

4 Use the ⬇ button to show *Yes* and press **ENTER**.

Viewing fixture information

This option contains four useful information read-outs:

- **LED Temperature** - shows the current temperature measured at the centre of the LED emitter face. See page 23 for details about changing the temperature read-out units between $^\circ$F and $^\circ$C, and also about enabling over-temperature warnings.
- **Firmware Version** - displays the software versions for both the boot loader and the main application.
- **LED Usage** - displays the total number of hours that the LED emitters have been raised above 0% output.
- **Fixture Usage** - displays the total number of hours that the fixture has been powered on.

Note: All of these items are for information only, no changes are possible.
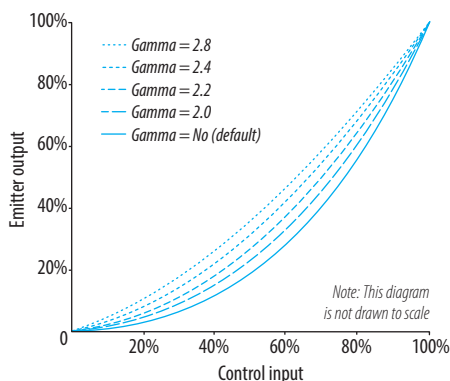
To view fixture information

1 Enter the user menu (see page 19).

2 Use the ⬇ or ⬆ buttons to locate the *Fixture Information* option and press **ENTER**.

3 Use the ⬇ or ⬆ buttons to locate the required read-out and press **ENTER**.

Adjusting the gamma setting

Like most light sources, the manner in which LED emitters operate means they exhibit a non-linear response. This means that to achieve changes in output levels which look proportional and correct to the eye (and particularly when filmed), it is necessary to vary the rate of change at the lower and upper ends of the dimming range in comparison to the middle. This is achieved using an in-built dimming response curve.

As a high specification fixture, the Dyna Accent provides the option to adjust the nature of the dimming response curve so that the emitters (for every color) respond differently for given control input levels. This is referred to as the *Gamma* setting. By default, the gamma setting is set to *No* to produce a mild and progressive response. If the gamma setting is enabled and increased, from *2.0* through to *2.8*, you will notice a higher response to dimming changes, particularly at the lower end. The graph above simulates the effects upon dimming (applied equally to each color) of choosing the various gamma setting options.

To adjust the Gamma setting

1 Enter the user menu (see page 19).

2 Use the ▼ or ▲ buttons to locate the *Gamma* option and press **ENTER**. The current Gamma setting will be shown.

3 Press **ENTER** and then use the ▼ or ▲ buttons to show the required gamma setting.

4 Press **ENTER** to set the new gamma value.

Adjusting the PWM frequency

As with most LED fixtures, the Dyna Accent dims its emitters by using a technique called *Pulse Width Modulation (PWM)*. This involves switching the emitters on and off at a high frequency and then varying the lengths of the respective on and off periods according to the required dimming level. The frequencies used all lie beyond the ability of the naked eye to distinguish the on/off transitions, however, some camera systems can detect flickers at certain frequencies. To solve this potential issue, the Dyna Accent allows you to change the default 1200Hz base PWM frequency to lower, or much higher ones that respond better to particular camera issues. Options range from 900 to 25,000Hz.

To adjust the PWM frequency setting

1 Enter the user menu (see page 19).

2 Use the ▼ or ▲ buttons to locate the *Frequency* option and press **ENTER**. The current PWM base frequency will be shown.

3 Press **ENTER** and then use the ▼ or ▲ buttons to show the required frequency.

4 Press **ENTER** to set the new value.

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Changing the display settings

This option contains four settings related directly to the user display:

- **Display Invert** - allows you to invert the text on the user display so that it reads correctly when the fixture is mounted upside-down.
- **Display Warning** - when set to On, a warning will appear on the display if the internal temperature becomes too high, either due to the external environment or an internal issue. The message reads: *Temperature warning - please check fixture*.

  Note: In addition to showing a warning, the fixture will protect its emitters by automatically reducing output to 50% if the maximum allowable operating temperature is exceeded. If the over-temperature condition persists for more than 10 minutes, the fixture will close itself down.

- **Temperature Unit** - allows you to change between °F and °C when displaying readings in the *Fixture Information > LED Temperature* section.
- **Backlight Timeout** - determines whether the user display should automatically blank out when it is not being used, or should remain on permanently to allow the DMX address to be seen at all times. When set to Off, the time-out feature will be disabled and the display will not blank out.

To change display settings

1 Enter the user menu (see page 19).

2 Use the ⏷ or ⏶ buttons to locate the *Display Setting* option and press **ENTER**.

3 Use the ⏷ or ⏶ buttons to locate the required sub-option and press **ENTER**.

4 Use the ⏷ or ⏶ buttons to change the sub-option setting and press **ENTER**.

Setting an internal color/output

This option allows you to mix a static color (or choose a white dimming level on single color models) which will be displayed whenever the following two criteria are met:

- The *Solo Behavior* option is set to *Internal Color Mode* (or *Internal Output Mode*) and,
- There is no DMX input signal.

Once configured, you need to activate the *Solo Behavior > Internal Color/Output Mode*. See page 27 (or page 31 if using RDM configuration).

To set an internal color/output

1 Enter the user menu (see page 19).

2 Use the ⏷ or ⏶ buttons to locate the *Internal Color Mode* (or *Internal Output Mode* - on single color models) option and press **ENTER**.

3 On color models, use the ⏷ or ⏶ buttons to locate the required color sub-option.

4 Press **ENTER**.

5 Use the ⏷ or ⏶ buttons to change the dimming setting and press **ENTER**.

6 Repeat steps 3 to 5 on color models until the required overall color output is achieved.

Running a system test

This option assists in testing all of the emitters. When engaged, the emitters will flash on and off. Color models will cycle in turn through the various emitter colors.

To run a system test

1 Enter the user menu (see page 19).

2 Use the ⏷ or ⏶ buttons to locate the *System Test* option and press **ENTER**. The fixture will change between emitter outputs. The user display will flash *Testing......* while the test proceeds.

3 Press either the **MENU** or the **ENTER** buttons to halt the test.

Setting a white balance

Note: White balance is only possible on Dyna Accent color models.

White balance is useful when your Dyna Accent installation will be required to regularly present particular shades of white using the R, G, B emitters, (plus the white emitters, if necessary). Using the white balance feature you can 'bias' particular colors so that when the R, G and B channels are all brought up, your pre-programmed bias will achieve, for example, a balanced warm white derived from a significant red output, with a moderate green output, while the blue is scaled back.

To achieve identical white balance across a collection of fixtures, you will need to program the same settings on each Dyna Accent unit.

To set a white balance

1 Enter the user menu (see page 19).

2 Use the ⏷ or ⏶ buttons to locate the *White Balance* option and press **ENTER**. You now have access to the separate *Red*, *Green* and *Blue* options, which are all set to 255 by default.

3 Use the ⏷ or ⏶ buttons to choose a color and press **ENTER**.

4 Use the ⏷ or ⏶ buttons to reduce the chosen color from 255 down to a minimum of 125 to reduce the intensity of that color, and press **ENTER** to save.

5 Repeat step 4 for each color that needs to be biased to achieve the required balance.

To cancel a white balance

1 Enter the user menu (see page 19).

2 Select the *White Balance* option. In turn visit each color and ensure that they are all returned to 255.

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Configuring Aria wireless DMX

Each Dyna Accent fixture includes an internal Aria™ wireless DMX receiver unit to allow it to be remotely controlled by an Acclaim Lighting Aria transmitter. Fifteen radio channels are available to choose from, allowing you to avoid potential interference sources, such as WiFi access points, and set up parallel wireless links between different sets of Aria units. Dyna Accent fixtures are shipped with the wireless system disabled and the radio channel set to 0 as standard. For more details about choosing the most suitable radio channel, see page 34.

Notes:

- *The Aria wireless radio channel setting can also be configured via RDM, see page 30.*
- *The Aria wireless radio channel setting is completely independent of the DMX address.*
- *If a valid wired DMX control input is applied to the fixture, it will take precedence over the Aria wireless control link.*

To configure Aria wireless DMX

1 Enter the user menu (see page 19).

2 Use the ⬇ or ⬆ buttons to locate the *Aria Wireless DMX* option and press **ENTER**. The display will show *Wireless On/Off*.

3 Press **ENTER**. If the display shows *Off*, use the ⬇ or ⬆ buttons to change the entry to *On* and press **ENTER**.

4 Use the ⬇ or ⬆ buttons to show *Wireless Channel* and press **ENTER**.

5 Use the ⬇ or ⬆ buttons to choose the required radio channel (from 0 to 14 - to match that used by the Aria transmitter) and press **ENTER**.

   Note: Ensure your Aria transmitter and any other related fixtures are set to use the same wireless radio channel.

Using the automation features (Photocell)

The fixture includes two related features which allow you to automate standalone operation:

- The in-built photocell can enable fixture output (at 100%) when the ambient light level falls below a pre-determined level.

- The auto shutoff timer determines how long the fixture should remain outputting after it has been triggered by the photocell.

These automated features operate only in standalone mode, i.e. with no external wired or wireless DMX control input.

Note: The automation features can also be configured via RDM, see page 32.

To configure the Automation features

1 Enter the user menu (see page 19).

2 Use the ⬇ or ⬆ buttons to locate the *Photocell* option and press **ENTER**. The display will show *Photocell On/Off*.

3 Press **ENTER**. If the display shows *Off*, use the ⬇ or ⬆ buttons to change the entry to *On* and press **ENTER**.

4 Use the ⬇ or ⬆ buttons to show *Photocell Timer* and press **ENTER**. The display will show the number of hours that the fixture is currently configured to show output, once triggered by the photocell.

5 Use the ⬇ or ⬆ buttons to show the required number of hours (from 1 to 24) and press **ENTER**.

6 Use the ⬇ or ⬆ buttons to show *Photocell Sensitivity* and press **ENTER**. The display will show the ambient light level at which the fixture should begin outputting (*100* is the most sensitive to light). Some experimentation will be required to determine the optimum setting (the default is 70).

7 Use the ⬇ or ⬆ buttons to show the required sensitivity setting (from 0 to 100) and press **ENTER**.

Note: For the photocell feature to operate, ensure that no DMX signal is received by the fixture. Color models will output all colors at 100% when triggered.

Determining solo behavior

You can choose how the fixture should behave when it is running solo, either because an external control input is not being used at all or because a connection has been temporarily lost. There are three solo behavior choices:

- **Black Out** - In this mode, when no external control is present, the emitter output will be extinguished.

- **Internal Color/Output Mode** - In this mode, when no external control is present, the fixture can be made to show a pre-programmed static color. Ensure that an internal color mix, or dimmed white output setting is stored within the *Internal Color Mode* (or *Internal Output Mode*) option. For details about creating static color mixes, see page 23.

- **Hold Last DMX Value** - In this mode, when no external control is present, the emitter output will remain as per the last received instruction.

Note: The solo behavior features can also be configured via RDM, see page 31.

To determine the solo behavior

1 Enter the user menu (see page 19).

2 Use the ⏷ or ⏶ buttons to locate the *Solo Behavior* option and press **ENTER**. The display will show the currently selected solo behavior mode .

3 Use the ⏷ or ⏶ buttons to show the required solo behavior mode and press **ENTER**.

Configuration via RDM

As well as the control panel on the rear face, Dyna Accent fixtures support RDM (Remote Device Management) for configuration duties via the DMX interface. This allows multiple devices to be configured either before or after installation.

The main items that can be configured on each fixture (via RDM) are:

- DMX address *(see page 29)*
- Aria™ wireless receiver *(see page 30)*
- Solo behavior *(see page 31)*
- Automation features *(see page 32)*

Various third party DMX/RDM tools are available; we recommend the DMXcat-E™ from City Theatrical™ for this task.
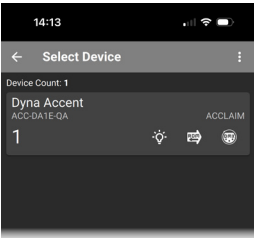
Addressing fixtures via RDM
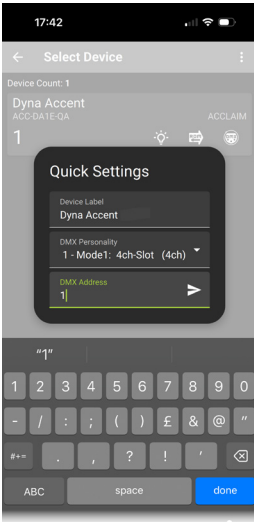
To configure the DMX address using the DMXcat-E

1 Connect the DMXcat-E to the DMX input line of the Dyna Accent installation.

2 In the DMXcat app on your phone, link to the DMXcat-E unit and then choose the RDM Controller tool:
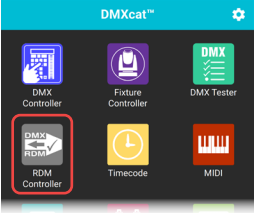
3 The DMXcat-E will search for RDM devices and after a short while it will display a list of all located fixtures:

4 Tap the list entry for the required fixture to view the Quick Settings popup:

DMX channels

The number of DMX channels required per fixture depends on the model:

- Fixed white models   1 DMX channel
- RGBW models   4 DMX channels

5 Tap the **DMX Address** entry, enter the required address and tap the ➤ icon.

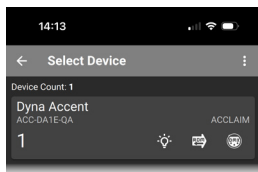## Configuring the Aria wireless DMX receiver via RDM

For general information about using wireless control, see page 17. For details about configuring wireless details using the external control panel, see page 25. For more details about choosing the most suitable wireless channel, see page 34.

Various third party DMX/RDM tools are available; we recommend the DMXcat-E™ from City Theatrical™ for this task.

To configure wireless DMX using the DMXcat-E

1 Connect the DMXcat-E to the DMX input line of the Dyna Accent installation.

2 In the DMXcat app on your phone, link to the DMXcat-E unit and then choose the **RDM Controller** tool.

3 The DMXcat-E will search for RDM devices and after a short while it will display a list of all located fixtures:

4 Tap the icon for the required fixture to view its Device Details, then scroll to the right side of the option headings at the top of the page and tap the **Manuf. Settings** entry:
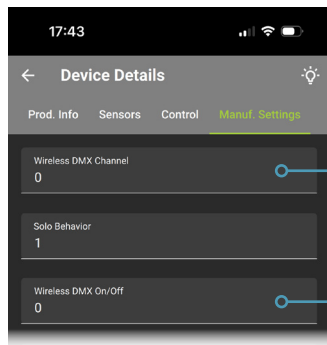
Tap to change the Aria wireless channel

Tap to enable/disable the Aria wireless receiver

5 Within this page, you can enable/disable the wireless receiver circuit and change the wireless channel:

- Tap the **Wireless DMX Channel** entry and enter the required address: Between **0** and **14** - then tap the ▶ icon.

- Tap the **Wireless DMX On/Off** entry and set it as required: Enter '**1**' to enable or enter '**0**' to disable - then tap the ▶ icon.

- For more details about choosing the most suitable wireless channel, see page 23.

Note: Ensure the Aria transmitter and any other related fixtures are set to use the same wireless channel.

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Determining solo behavior via RDM

You can choose how the fixture should behave when it is running solo, either because an external control input is not being used at all or because a control connection has been temporarily lost. There are three solo behavior choices:

- **Black Out** - (Setting **0**) In this mode, when no external control is present, the emitter output will be extinguished.
- **Last DMX Value** - (Setting **1**) In this mode, when no external control is present, the emitter output will remain as per the last received instruction.
- **Internal Program** - (Setting **2**) In this mode, when no external control is present, the fixture can be made to show a pre-programmed static color. For details about creating static color mixes, see page 23.

Various third party DMX/RDM tools are available; we recommend the DMXcat-E™ from City Theatrical™ for this task.

To configure wireless DMX using the DMXcat-E

1 Connect the DMXcat-E to the DMX input line of the Dyna Accent installation.

2 In the DMXcat app on your phone, link to the DMXcat-E unit and then choose the **RDM Controller** tool.

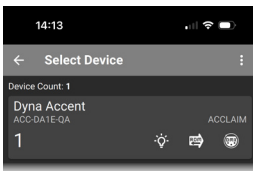3 The DMXcat-E will search for RDM devices and after a short while it will display a list of all located fixtures:

4 Tap the ![RDM] icon for the required fixture to view its Device Details, then scroll to the right side of the option headings at the top of the page and tap the **Manuf. Settings** entry:
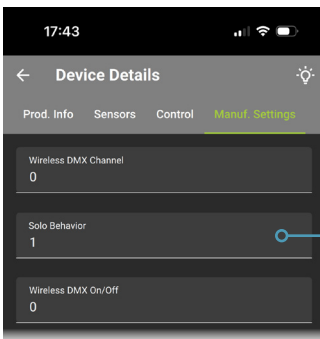
Tap to determine the solo behavior

5 Tap the **Solo Behavior** entry and set the mode as required:

- Enter **0** to set **Black Out** mode.
- Enter **1** to set **Last DMX Value** mode.
- Enter **2** to set **Internal Program** mode.

6 Tap the ➤ icon.

Setting the automation features (photocell) via RDM

The fixture includes two related features that allow you to automate standalone operation:

- The in-built photocell can enable fixture output (at 100%) when the ambient light level falls below a pre-determined level.
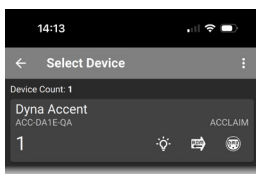- The auto shutoff timer determines how long the fixture should remain outputting after it has been triggered by the photocell.
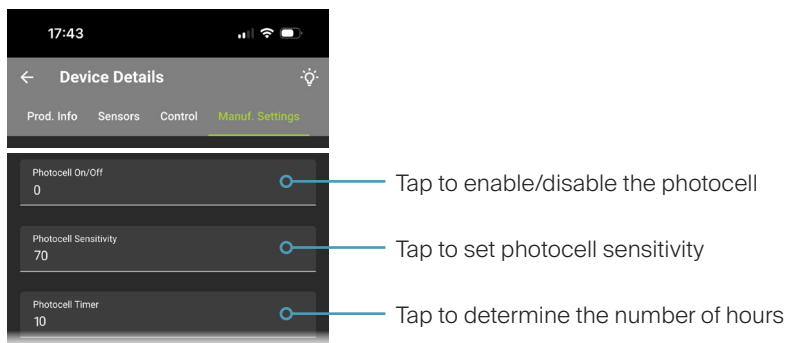
These automated features operate only in standalone mode, i.e. with no external DMX control input.

To configure wireless DMX using the DMXcat-E

1 Connect the DMXcat-E to the DMX input line of the Dyna Accent installation.

2 In the DMXcat app on your phone, link to the DMXcat-E unit and then choose the **RDM Controller** tool.

3 The DMXcat-E will search for RDM devices and after a short while it will display a list of all located fixtures:

4 Tap the icon for the required fixture to view its Device Details, then scroll to the right side of the option headings at the top of the page and tap the **Manuf. Settings** entry:

Tap to enable/disable the photocell

Tap to set photocell sensitivity

Tap to determine the number of hours

Use the lower three options to set your parameters:

- **Photocell On/Off** - enables/disables the photocell system.
- **Photocell Sensitivity** - determines the required ambient light level at which the fixture should begin outputting (*100* is the most sensitive to light). Some experimentation will be required to determine the optimum setting (the default is 70).
- **Photocell Timer** - determines the number of hours (starting from the photocell trigger) that light output should continue before being extinguished. The options range from *1* to *24* hours (the default is 10 hours).

Note: For the photocell feature to operate, ensure that no DMX signal is received by the fixture. Color models will output all colors at 100% when triggered.

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 the menu to perform an emitter test.
- Use an RDM tool to perform an emitter test.
- Use the menu to check the internal temperature of the fixture.
- If external DMX control is being used, check that the DMX address set within the fixture matches that being output by the controlling source device.
- If external DMX control is being used, check the DMX output near to the source to confirm a valid signal is being originated. When a valid DMX input is attached to the Dyna Accent fixture, the user display will show the configured DMX address.
- If external DMX control is being used, check that the DMX + (hot) and DMX – (cold) lines have not been crossed.
- If the Internal Color/Output Mode is being used, check that the static color or white-only output has been correctly programmed (see page 23) and that the appropriate solo mode is selected (see page 27).
- If Aria wireless DMX control is being used, check that the fixture is set to the same wireless channel as the transmitter (the wireless channel is independent of the DMX address). Try changing the transmitter and receiving fixture(s) to different (but equal) wireless channels to check for clear space in the radio spectrum from interference by other devices, such as WiFi.

Dimming and/or chase changes are jerky when using Aria.

- Check for WiFi sources near to the transmitter or receiver devices. Try changing the transmitter and receiving fixture(s) to different (but equal) wireless channels to check for clear space, from interference by other devices, in the radio spectrum.

Optimizing signal strength via channel selection

Aria™ wireless transceivers use radio frequencies contained within the Industrial Scientific and Medical (ISM) band that runs between 2.4GHz and 2.5GHz. As one of the few license-free radio bands agreed upon in most countries, many other devices also use this band, most notably WiFi. Aria units use the ISM band in a different manner than WiFi and the two can coexist. However, where distances between Aria units are great and WiFi access points are reasonably close, then interference can become an issue.

WiFi uses the IEEE802.11 standard, which divides the ISM band into 13 (sometimes 14) channels, each of which is 22MHz wide. However, the channels overlap and so cannot all be used simultaneously. Hence, most WiFi access points settle upon channels 1, 6 and 11 to avoid any overlap:
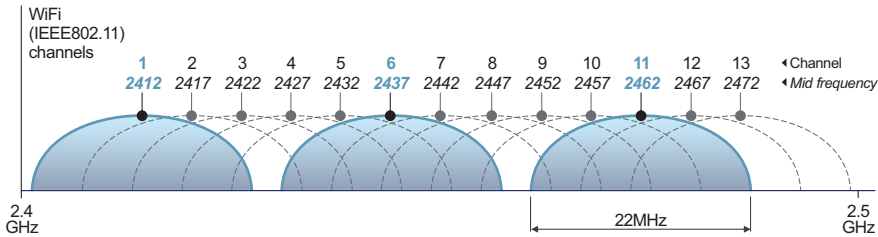
Aria uses the IEEE802.15.4 standard, with channels that are 3MHz in width and do not overlap. Many Aria channels do, however, coincide with the common WiFi channels. The notable exceptions are Aria channels 4, 9 and 14, which fall into the gaps between the most commonly used WiFi channels:
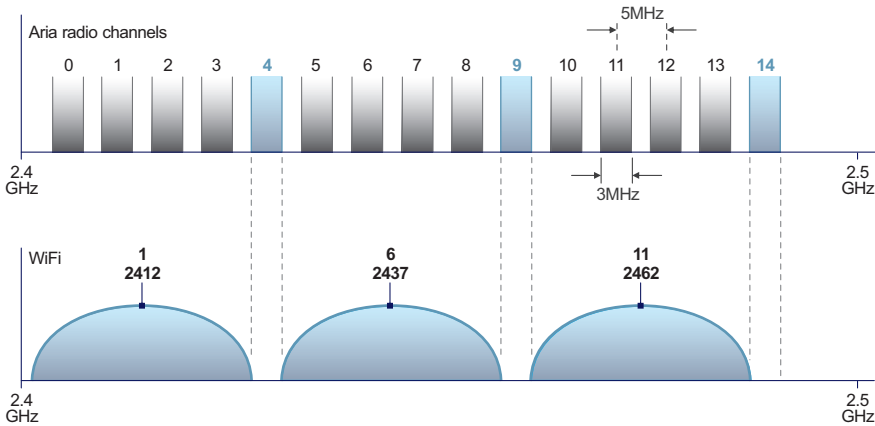
Where interference is suspected, a radio frequency survey may provide useful indications. If you have control over the nearest WiFi access points, it is suggested that you lock them down to one or more of the common channels (to prevent them from roaming) and select Aria channels that sit comfortably alongside.

Note: The Aria channel notations (0 to 14) are directly equivalent to the IEEE802.15.4 channels 11 to 25, inclusive.
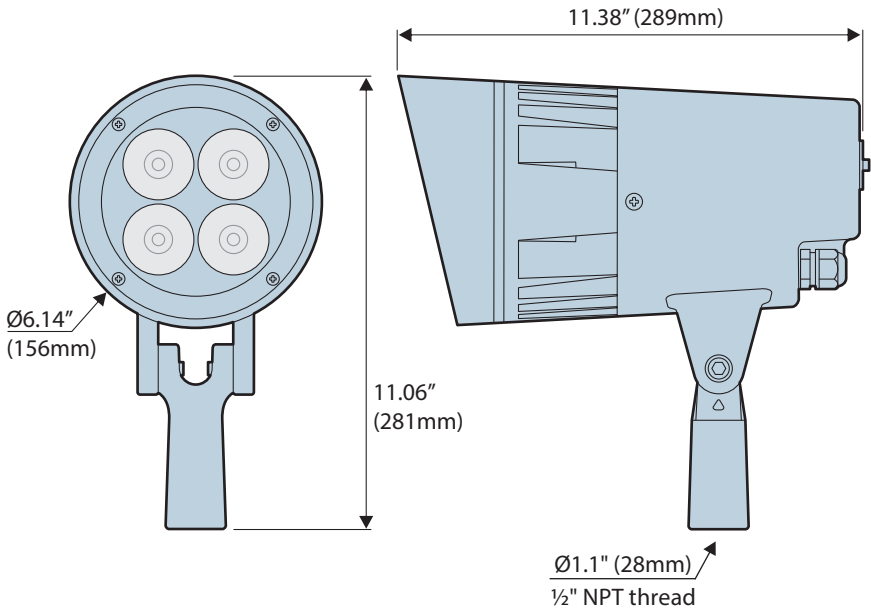
Specifications

Models	2700K, 3000K, 3500K, 4000K, 5700K or RGBW
Native beam angle	5° (standard for Dyna Accent White models)
	10° (standard for Dyna Accent Color models)
Spread lens options	20°, 40°, 60° or 10° x 60°
Total lumens	Up to 2,581 lm (Dyna Accent White 3000K, 5°)
	Up to 1,265 lm (Dyna Accent Color QW6, 10°)
Center beam Candela	186,642 cd (Dyna Accent White 2700K, 5°)
	32,950 cd (Dyna Accent Color QW6, 10°)
Lumen maintenance (L_{70})	150,000 hours (25°C)
Aria™ wireless protocol	2.4GHz, IEEE802.15.4
Estimated transmission range	Clear line of sight: 2600 feet (792m)
	Through obstructions (walls, etc): 300 feet (91m)
Selectable radio channels	15
Aria signal encryption	AES 128
Housing	Die cast aluminum
Effective projected area	0.96 ft²
Ingress protection	IP66, wet location
Impact protection	IK07, protection against 2 joule impact
Vibration protection	ANSI C136.31, 3G-rated for high vibration and bridge use
Power input	100 - 277VAC, 50/60Hz
Power consumption	40W (White models), 41W (Color models)
Operating temperature	-40°F to 125°F (-40°C to 51°C)
Weight	10 lbs (4.53kg)
Certifications	

ETL Listed Intertek c us   C E   3G LUMINAIRE VIBRATION

OLS specifications

AC conductors	3 x 14AWG
DMX conductors	4 x 20AWG plus shield
Maximum input voltage	305VAC
Surge voltage	1000V
Maximum total line current	15A
Maximum total line power	120VAC: 1,800W
	230VAC: 3,450W
	277VAC: 4,155W
Maximum run length	120VAC: 150' (45m)
	230VAC: 300' (90m)
	277VAC: 350' (106m)
Flame resistance	UL94-V0
IP rating	IP67, wet location
Operating temperature	-40°F to 176°F (-40°C to 80°C)

Release 3.0a

Dimensions

11.38″ (289mm)

Ø6.14″
(156mm)

11.06″
(281mm)

Ø1.1" (28mm)
½" NPT thread

Ground spike and joiner

Ø2.36" (60mm)

½" NPT thread

1.1"
(28mm)

0.94"
(24mm)

0.63"
(16mm)

10.43"
(265mm)
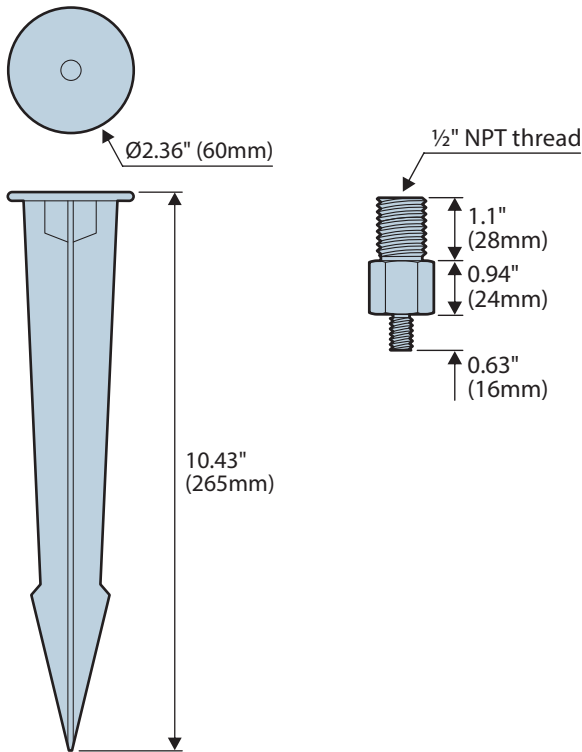
Acclaim™

4" electrical box base plate

2.48"
(63mm)

4 x Ø0.18" (4.5mm)
Ø0.28" (7mm) c'sink

2.48"
(63mm)

Ø4.45" (113mm)

Ø4.29" (109mm)

0.39"
(10mm)
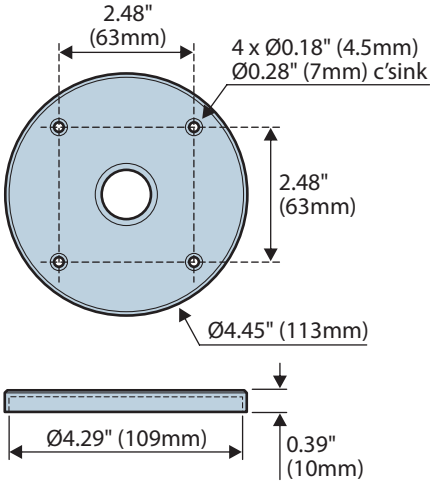
Lock nut (supplied with both base plate types)

½" NPT thread

0.79"
(20mm)

0.31"
(8mm)

1.02"
(26mm)

Ø0.53" (13.5mm)
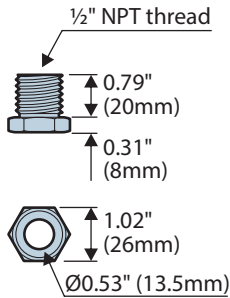
Surface mount base plate

2.48"
(63mm)

4 x Ø0.28" (7mm)
Ø0.47" (12mm) c'sink

2.48"
(63mm)

Ø4.45" (113mm)

0.47"
(12mm)
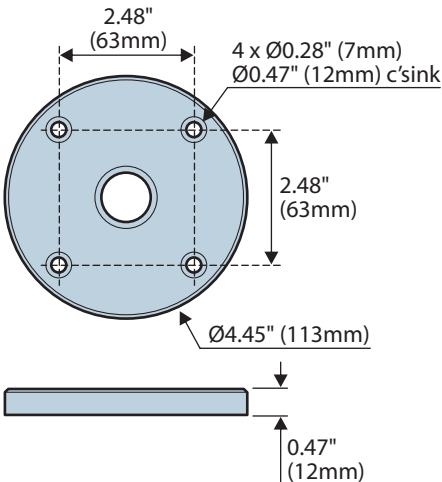
Limited product warranty

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.