Chroma-Q®

Inspire™

Terminal Strip

User Manual

Chroma-Q®
BRILLIANT SOLUTIONS

Version 1.4 August 2015, Software Version 1.01
PN: 632-0706

Warranty Statement

Chroma-Q warrants to the original purchaser, with proof of purchase, that its delivered Inspire models shall be free from defects in material and workmanship under normal use for a period of 36 months from date of shipment.

Chroma-Q will repair, or at its option, provide an equivalent item or replace, the defective product during the stated warranty period. This warranty applies only to the repair or replacement of the product and only when the product is properly handled, installed and maintained according to Chroma-Q instructions. This warranty excludes defects resulting from improper handling, storage, installation, acts of God, fire, vandalism or civil disturbances. Purchaser must notify Chroma-Q in writing within 14 days of noticing the defect. This warranty excludes field labour or service charges related to the repair or replacement of the product.

The warranty contained herein shall not extend to any finished goods or spare parts from which any serial number has been removed or which have been damaged or rendered defective (a) as a result of normal wear and tear, wilful or accidental damage, negligence, misuse or abuse; (b) due to water or moisture, lightning, windstorm, abnormal voltage, harmonic distortion, dust, dirt, corrosion or other external causes; (c) by operation outside the specifications contained in the user documentation; (d) by the use of spare parts not manufactured or sold by Chroma-Q or by the connection or integration of other equipment or software not approved by Chroma-Q unless the Customer provides acceptable proof to Chroma-Q that the defect or damage was not caused by the above; (e) by modification, repair or service by anyone other than Chroma-Q, who has not applied for and been approved by Chroma-Q to do such modification, repair or service unless the Customer provides acceptable proof to Chroma-Q that the defect or damage was not caused by the above; (f) due to procedures, deviating from procedures specified by Chroma-Q or (g) due to failure to store, install, test, commission, maintain, operate or use finished goods and spare parts in a safe and reasonable manner and in accordance with Chroma-Q's instructions (h) by repair or replacement of engines without factory training.

The warranty contained herein shall not apply to finished goods or spare parts which are sold "as is", as "second-hand", as used", as "demo" or under similar qualifications or to Consumables ("Consumables" is defined as any part(s) of goods or part(s) for use with goods, which part(s) of goods or part(s) for use with goods are consumed during the operation of the goods and which part(s) of goods or part(s) for use with goods require replacement from time to time by a user such as, but not limited to, light bulbs).

The warranty contained herein shall not apply, unless the total purchase price for the defective finished goods or spare parts has been paid by the due date for payment.

The warranty contained herein applies only to the original purchaser and are not assignable or transferable to any subsequent purchaser or end-user.

This warranty is subject to the shipment of the goods, within the warranty period, to the Chroma-Q warranty returns department, by the purchaser, at the purchasers expense. If no fault is found, Chroma-Q will charge the purchaser for the subsequent return of the goods.

Chroma-Q reserves the right to change the warranty period without prior notice and without incurring obligation and expressly disclaims all warranties not stated in this limited warranty.

Disclaimer

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Chroma-Q products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent. Chroma-Q sole warranty is that the product will meet the sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

Chroma-Q reserves the right to change or make alteration to devices and their functionality without notice due to our on going research and development.

The Chroma-Q Inspire range has been designed specifically for the lighting industry. Regular maintenance should be performed to ensure that the products perform well in the entertainment environment.

If you experience any difficulties with any Chroma-Q products please contact your selling dealer. If your selling dealer is unable to help please contact support@chroma-q.com. If the selling dealer is unable to satisfy your servicing needs, please contact the following, for full factory service:

Outside North America:
Tel: +44 (0)1494 446000
Fax: +44 (0)1494 461024
support@chroma-q.com

North America:
Tel: 416-255-9494
Fax: 416-255-3514
support@chroma-q.com

For further information please visit the Chroma-Q website at www.chroma-q.com.

Chroma-Q and Inspire are trademarks, for more information on this visit www.chroma-q.com/trademarks.

The rights and ownership of all trademarks are recognised.

Important Notice:

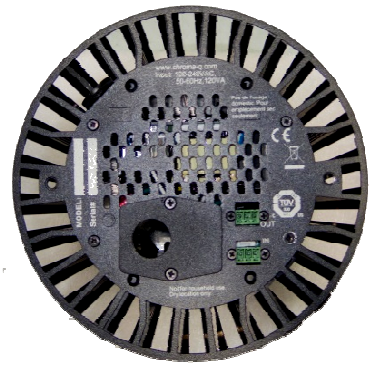
As per the requirements in the Occupational Safety and Health Administration standards for product approval, please refer to the OSHA web pages http://www.osha.gov/dts/otpca/nrtl/ for information on the list of Nationally Recognized Testing Laboratories (NRTLs) and the scope of recognition.

Table of Contents

1. Product overview

The new Chroma-Q™ Inspire™ Terminal strip LED house light is a powerful multi-purpose creative lighting tool that utilises some of the innovative core technologies found in the incredibly popular Chroma-Q Color Force™ range. The Inspire provides a choice of beautiful whites, soft pastels and bold saturates - all from one fixture. By incorporating industry standard DMX-512 control, from the external control box, the Inspire is able to integrate seamlessly with an existing DMX infrastructure and can be controlled by any DMX supported lighting console. With fully homogenised colour mixing and a choice of three different lens options, the Inspire provides an excellent selection of stunning mixed colours and 'true' whites, with no unsightly colour separation shadows. It also features an energy-efficient compact LED design providing reduced maintenance and running costs.

The fixture is built with a single light engine featuring 36 high powered LEDs (combination of white, red, green and blue). Each fixture is equipped with a built-in power supply which can be controlled remotely from the Inspire External Control Box through the ANSI E1.11 USITT DMX 512-A protocol.



Note: HANDHELD COLOUR METERS

Handheld Colour Meters provide a limited measuring range for LED fixtures, which results in inconsistent and unreliable data.

All photometric values listed in this document are based on testing and measurements conducted by certified independent laboratories with reference to the IES standards.

1.1 Inspire External Control Box

The Inspire External Control Box is a 19" rack mount external remote addressing unit for the control of the Inspire Terminal Strip fixture via DMX 512.

3 DMX control data output ports are available for the control of up to 128 daisy-chained fixtures from each port. DMX data input and through connections from an external DMX control console are via XLR 5-pin.

The Inspire External Control Box is built with Plug-in Terminal Block connectors for AC power input, Emergency power input and DMX control data output signals.

2. Operation

2.1 Unpacking the Units

The Inspire Terminal Strip package includes:

- 1 fixture unit
- Safety chain
- Quick Start Guide
- 2 plug-in terminal blocks for DMX control data in/through
- 1 plug-in terminal block for AC power input

The Inspire External Control Box package includes:

- 1 control box unit
- Quick Start Guide
- 3 plug-in terminal blocks for DMX control data output
- 2 plug-in terminal blocks for AC power input and Emergency power input

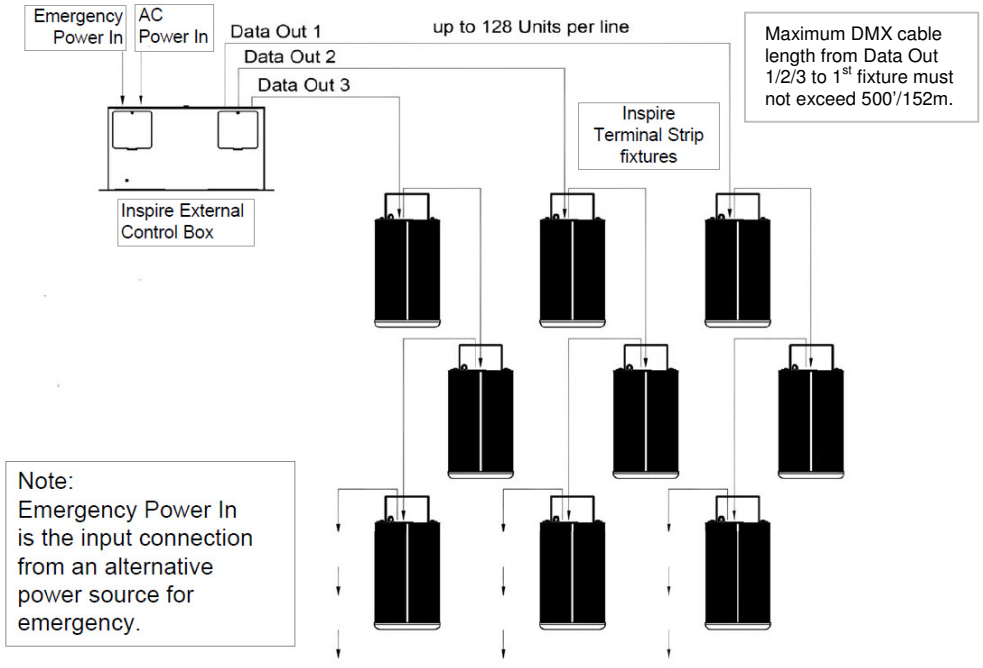
We recommend that you keep the original packaging in case the item needs to be returned.

2.2 Cabling

System:

The Inspire External Control Box has 3 DMX control data outputs (Port 1, 2, 3). Each control data output provides remote DMX control for up to 128 daisy-chained Inspire Terminal Strip fixtures. The maximum length of the DMX cable from each data output of the External Control Box to the **first** Terminal Strip fixture must not exceed 500 ft (152 m).

Figure 1: System Diagram



Inspire Terminal Strip fixture wiring:

To connect the wiring of the AC power input cable:

1. Remove the Power Input Cover Plate (Figure 2)
2. Insert the power cable with the appropriate cable strain relief through the cover plate
3. Unplug the Terminal Block Plug from the Header and connect the wiring for the AC power input through the hole and into the Terminal Block PLUG (Figure 3)
4. Plug the wired Terminal Block Plug into the Terminal Block Header (Figure 3)
5. Put back and fasten the cover plate

To connect the wiring of the DMX control data cables:

1. Connect the wiring for the DMX control data cables (In/Out) into the Terminal Block Plugs (Figure 4)
   Note: The DMX cable connected to the **first** Terminal Strip fixture from each Data Output of the External Control Box must be terminated with a 120 ohm resistor. For details, see Inspire Terminal Strip DMX Cable Termination section on page 9.
2. Plug the wired Terminal Block Plugs into the Terminal Block Headers (Figure 4)

Figure 2

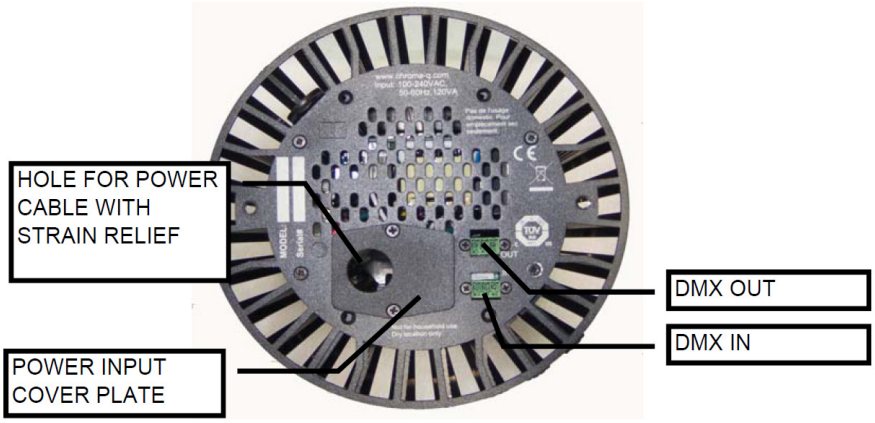


Figure 3: AC Power Cable Wiring

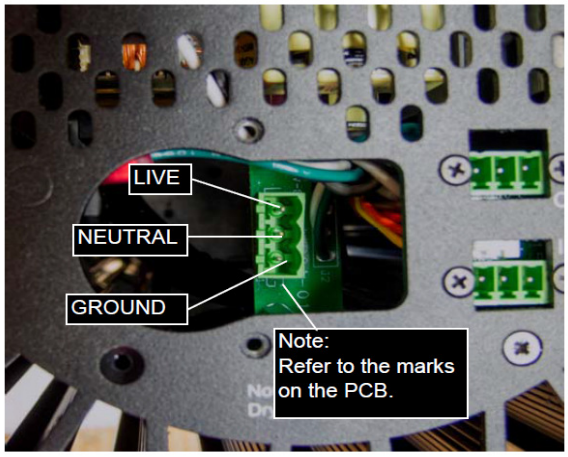
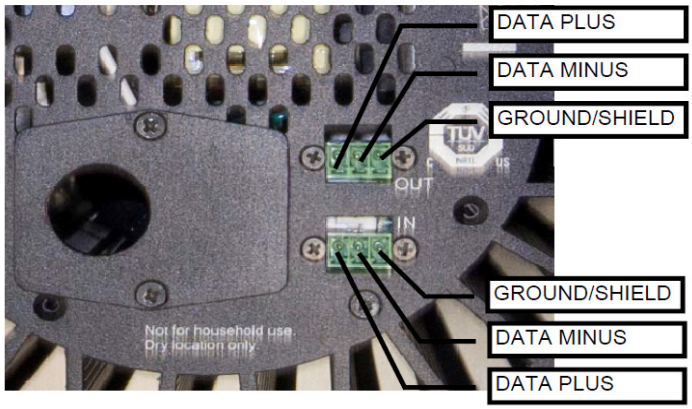


Figure 4: DMX Cable Wiring



Inspire External Control Box Wiring:

To connect the wiring of the AC power input cable: (Figure 5 & 6)

1. Remove the Power Input Cover Plate
2. Remove the plastic covers of the AC and Emergency power input holes
3. Insert through the hole, the AC power cable with the appropriate cable strain relief
4. Unplug the AC power Terminal Block Plug from the Header and connect the wiring for the AC power cable into the Terminal Block PLUG
5. Plug the wired AC power Terminal Block Plug into the Terminal Block Header
6. Fasten the AC grounding wire onto the stud for grounding connections (Ensure the use of appropriate ring terminals, star washers and nuts)
7. Fasten cable strain relief.
8. Proceed to wire the Emergency power input cable

To connect the wiring of the Emergency power input cable: (Figure 5 & 6)

9. Insert through the hole, the Emergency power cable with the appropriate cable strain relief
10. Unplug the Emergency power Terminal Block Plug from the Header and connect the wiring for the Emergency power cable into the Terminal Block PLUG
11. Plug the wired AC power Terminal Block Plug into the Terminal Block Header
12. Fasten the Emergency grounding wire onto the stud for grounding connections (Ensure the use of appropriate ring terminals, star washers and nuts)
13. Fasten cable strain relief.
14. Put back and fasten the cover plate

To connect the wiring of the DMX control data cables: (Figure 5 & 7)

1. Remove the DMX data output cover plate
2. Remove the plastic covers of the DMX output holes (Port 1, 2, 3)
3. Insert through the hole, each DMX cable for each port with the appropriate cable strain relief corresponding/adjacent to each Terminal Plug location
4. Unplug each Terminal Block Plug from the Header and connect the wiring for each of the DMX cable into the Terminal Block PLUG
5. Plug the wired DMX output Terminal Block Plug into the Terminal Block Header
6. Fasten the cable strain reliefs of each DMX cable
7. Put back and fasten the cover plate

Figure 5

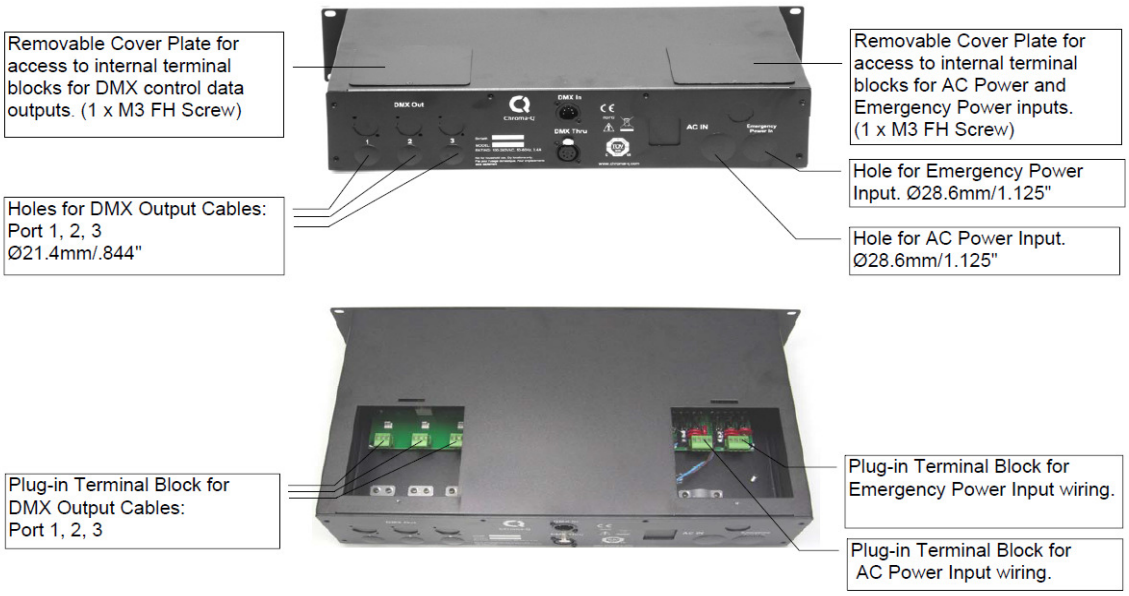


Figure 6: AC & Emergency Power Wiring

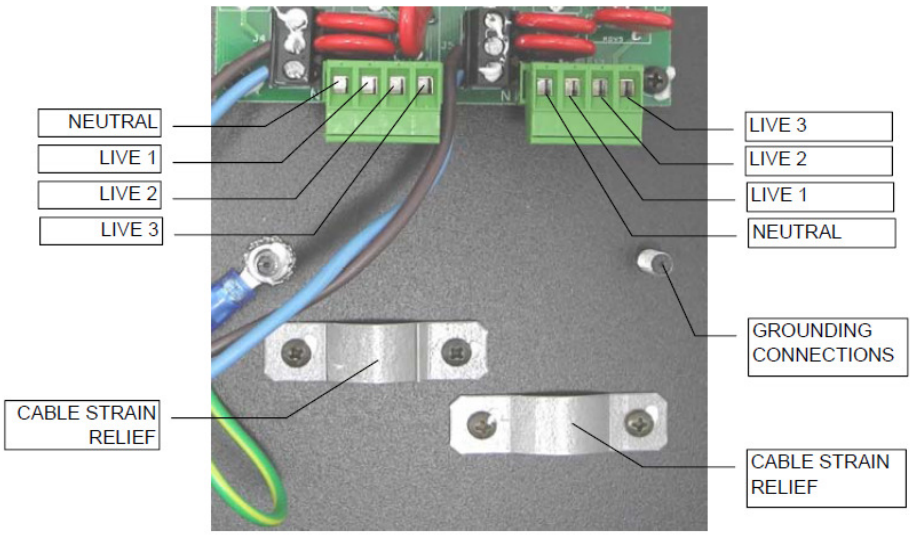
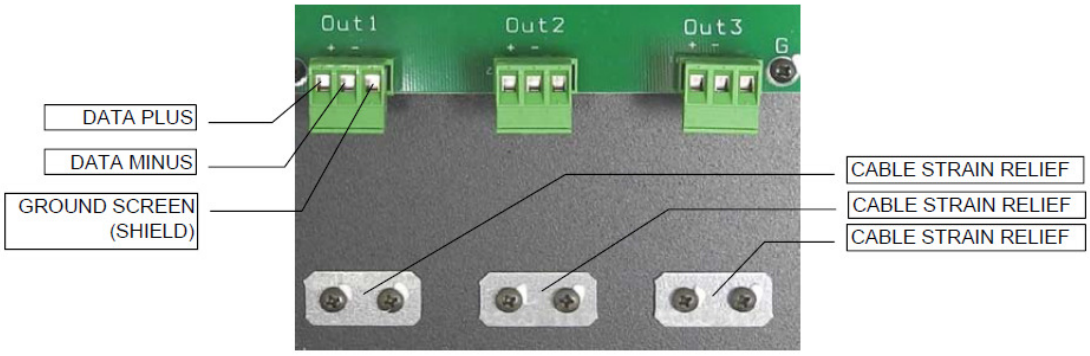


Figure 7: DMX Data Output Wiring



Inspire Terminal Strip DMX Cable Termination:

The DMX cable connection from each Data Output of the External Control Box to the **first** Inspire Terminal Strip fixture must be terminated with a 120 ohm resistor. Insert a 120 ohm resistor into the Terminal Block Plug (Data Plus and Data Minus) and then plug into the DMX IN header of the **first** Inspire Terminal Strip fixture. (Figure 8 & 9)

Figure 8

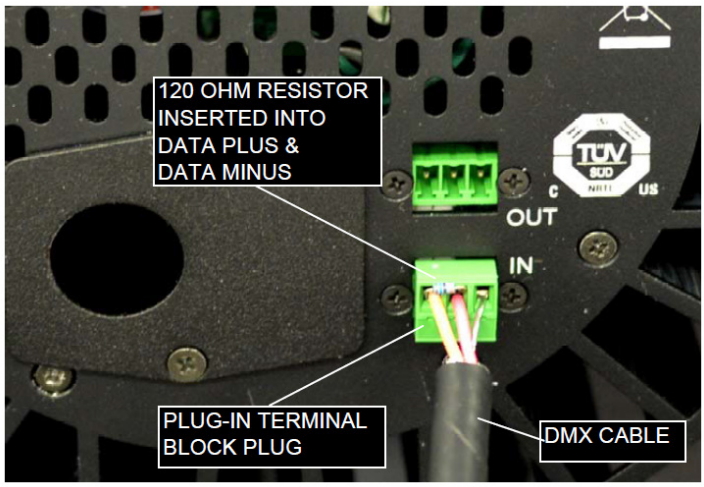
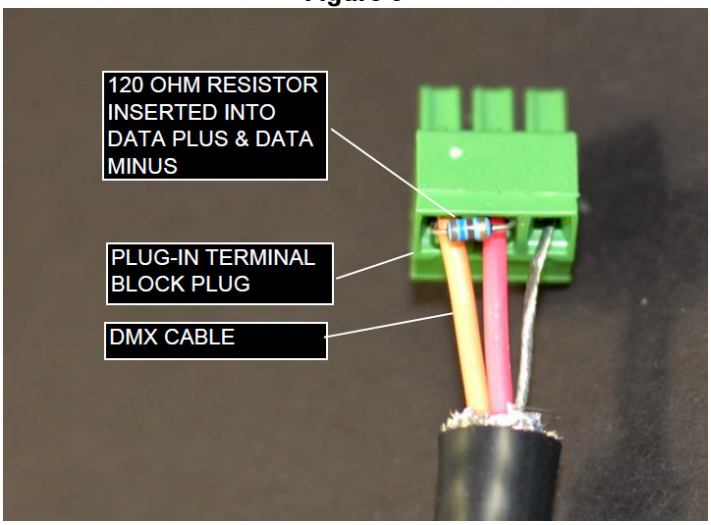


Figure 9



XLR 5-pin Cable:

Pin#	Function
1	Ground (Screen)
2	Data Minus
3	Data Plus
4	Spare Data Minus
5	Spare Data Plus

Power Cable:

International Colour Code	North American Colour Code	Connections	
Green and Yellow	Green	Earth (E)	Ground (Green)
Blue	White	Neutral (N)	Neutral (Silver)
Brown	Black	Live (L)	Hot (Gold)

Important Notice:
The maximum length of the DMX cable from each data output of the Inspire External Control Box to the first Terminal Strip fixture is 500 ft (152 m).

The use of an opto-splitter for DMX signal distribution is highly recommended when several control boxes are not plugged into the same power source.

2.3 Mounting

The Inspire Terminal Strip fixture is built with a mounting bracket for overhead hanging applications. The mounting bracket has a 1/2" hole suitable for M10 & M12 bolts.

Secure the fixture with a safety bond. A provision for a fixing hold is built into the fixture.

The Inspire External Control Box is built with a standard 19" rack mount enclosure.

2.4 Optional Inspire Ceiling Installation Kit

The Inspire fixture can be mounted onto the ceiling with the Inspire Ceiling Installation Kit, which consists of the following items: (See table, Figure 10 & 11 below; see Ceiling Installation Procedure on Section 6 of this User Manual)

1	Trim Ring Inspire Black
2	Bracket Hook
3	T-Nut ¼-20" Economy 15S
4	Angle support ceiling mounting
5	Screw Flanged Button Socket ¼-20 x ¾"
6	Washer

Figure 10

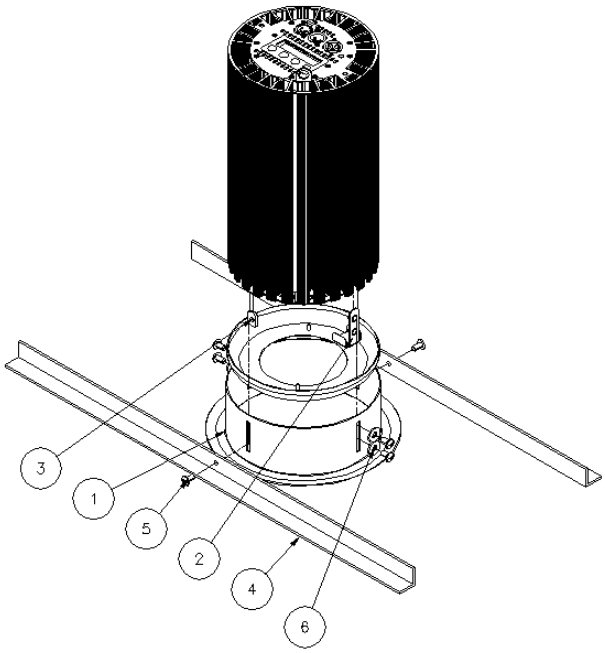
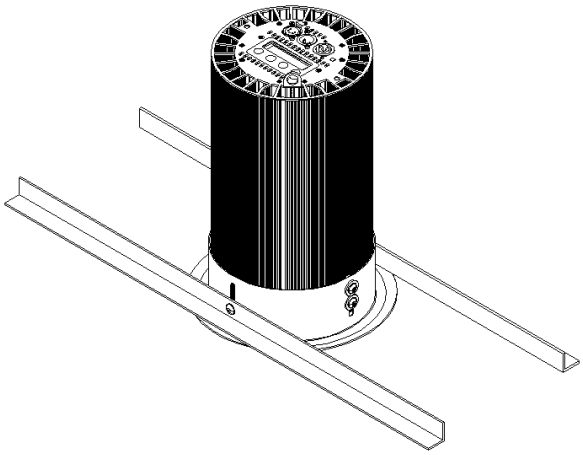


Figure 11



Note:
The angle supports of the ceiling installation kit must be mounted or attached to the ceiling with the appropriate load capacity.

2.5 Optics

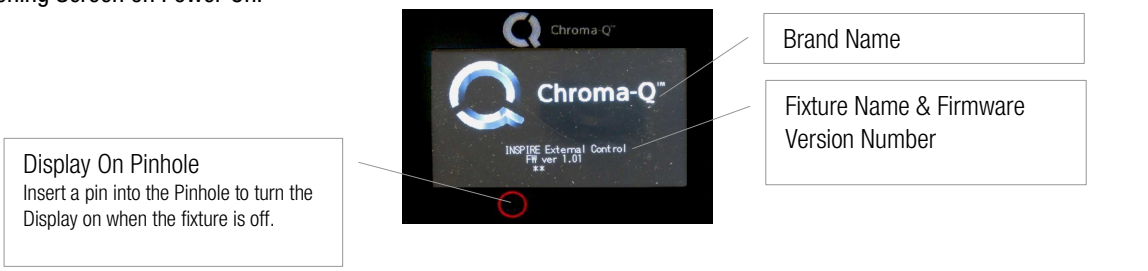
The Inspire fixture can be built with either Narrow, Medium or Wide lens. The beam angles are:

Narrow	~ 32°
Medium	~ 42°
Wide	~ 65°

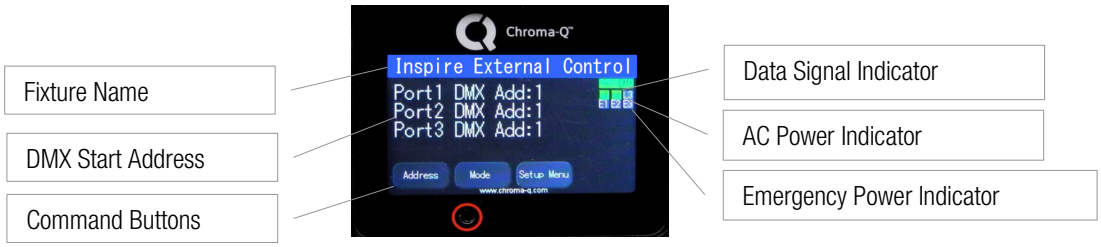
2.6 Control

The Inspire Terminal Strip fixture is controlled remotely through the Inspire External Control Box via DMX protocol. The control functions can be accessed through the Touch Screen Display at the front of the External Control Box.

Opening Screen on Power On:

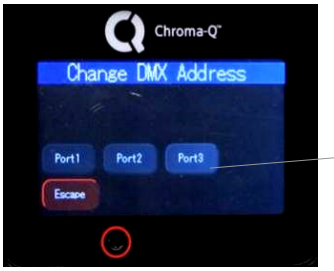


Main Screen:



Data Signal Indicator	DMX signal from a remote DMX control console is present (>>>DMX) or if there is no DMX signal present (No Data)
AC Power Indicator	AC power is connected on each of the 3 phases (L1, L2, L3)
Emergency Power Indicator	Emergency power is connected on each of the 3 phases (E1, E2, E3)
DMX Start Address	Assigned DMX start address for each DMX output
Command Button	Can be tapped to access and select control menu screens and options

Change DMX Address screen:



Command Buttons:
Tap to access each Port (DMX output)

The screen shows the current DMX start address and the new DMX start address. In the screen, the numeric command buttons can be tapped to set the new DMX start address.

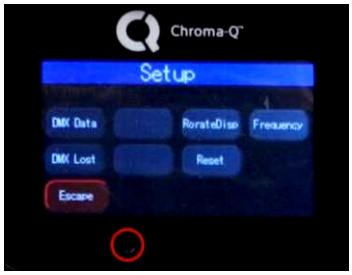
Command Button	Description
0 – 9	Button numbers 0 to 9 for typing the new DMX start address.
Apply	Save the new DMX address.
Escape	Exit the screen without saving.

Change Mode screen:

The table shows the control options available in the Change Mode screen:

Command Button	Description
RGBW single	4 channels for Red, Green, Blue & White per fixture in a single output (512 channels for a maximum of 128 fixtures per single output.
RGBW output	4 channels for Red, Green, Blue & White per output
Tungsten	1 channel for White for all fixtures per output
LookStore	A Look can be recorded in the LookStore screen and set as an output option when DMX in not present (see DMX Lost)
Apply	Save the settings
Escape	Exit the screen without saving

Setup screen:

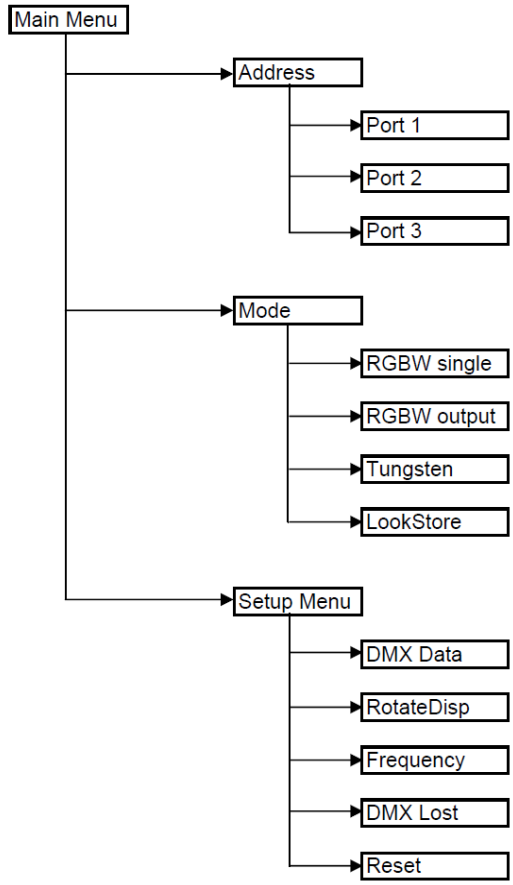


The table shows the fixture setup options available in the Setup screen:

Command Button	Description
DMX Data	Displays the DMX start address and the levels for all the channels assigned.
RotateDisp	The command rotates the orientation of the Touch Screen Display
Frequency	4 frequency options are accessed through the PWM Frequency screen: 1200Hz, 2400Hz, 4800Hz, 9600Hz
DMX Lost	The fixture can be set with 3 options when DMX data is lost: Last data – holds the last valid DMX state No Output – the fixture switches to off Look – sets the recorded Look
Reset	Reset Settings options are accessed through the Reset Setting screen: Default – Factory default settings User – User defined settings
Escape	Exit the screen without saving.

Control Menu

The Control Menu options are accessed through the Touch Screen Display at the front of the Inspire External Control Box.



To access the control options:

- From the Main Menu, tap the command buttons to access menu screens
- In the Menu screens, select and tap a command option
- Tap **Apply** to save the new setting or
- Tap **Escape** to exit without saving and go back to the previous menu

Main Menu

The Main Menu displays the fixture name, control information (current assigned DMX address), and the 3 command buttons:

- **Address**
- **Mode**
- **Setup Menu**

Select and tap a command button to access the main control options available.

► Address

To set the DMX start address,

1. On the Main Menu screen, tap **Address**
2. Select and tap a Port, the screen goes to the DMX Address screen,
3. Using the buttons, type the desired number
4. Tap **Apply** to save

The display goes back to the Main Menu with the new DMX address.

► Mode

In this menu, the fixture can be set to operate in various DMX controlled modes.

RGBW single
RGBW output
Tungsten
Look Store

► RGBW single

This mode assigns 4 channels for Red, Green, Blue & White for every single fixture in each output.

To set the RGBW single mode,

1. On the Main Menu, tap **Mode**
2. On the Mode screen, tap **RGBW single**
3. Tap **Apply** to save or **Escape** to cancel

The display goes back to the Main Menu.

► RGBW output

This mode assigns 4 channels for Red, Green, Blue & White for all the fixtures in each output.

To set the RGBW output mode,

1. On the Main Menu, tap **Mode**
2. On the Mode screen, tap **RGBW output**
3. Tap **Apply** to save or **Escape** to cancel

The display goes back to the Main Menu.

► Tungsten

This mode assigns 1 channel for White for all the fixtures in each output.

To set the Tungsten mode,

1. On the Main Menu, tap **Mode**
2. On the Mode screen, tap **Tungsten**
3. Tap **Apply** to save or **Escape** to cancel

The display goes back to the Main Menu.

► Look Store

A Look created with DMX control can be saved and stored in LookStore

To save a Look in LookStore,

1. Create a Look
2. On the Main Menu, tap **LookStore**
3. On the Look Store screen, tap and hold **SaveLooks**
   A text prompt appears on the screen: > Hold SaveLooks and >Looks Saved

The Look is stored and available for DMX Lost menu.

The saved Look can be loaded and played back.

To Load a Look in LookStore,

1. Set the DMX Lost menu to Look (see DMX Lost menu in Setup Menu below)
2. On the Main Menu, tap **LookStore**
3. On the Look Store screen, tap LoadLook

The fixture switches to the saved Look.

► Setup Menu

In this menu, internal settings of the fixture can be re-configured.

DMX Data
RotateDisp
Frequency
DMX Lost
Reset

► DMX Data

In this menu, the screen shows the DMX start address and the equivalent value for each of the DMX channels assigned.

To show DMX Data,

1. On the Main Menu, tap **Setup Menu**
2. On the Setup screen, tap **DMX Data**

Tap **Escape** to exit.

► RotateDisp

This command rotates the display screen by 180 degrees.

To rotate the display screen,

1. On the Main Menu, tap **Setup Menu**
2. On the Setup screen, tap **RotateDisp**

The display screen rotates by 180 degrees.

► Frequency

In this menu, the fixture can be set to four frequency options. The LED scan rate can be synchronised with the video camera to avoid a flickering effect.

Frequency options:

1200 Hz
2400 Hz
4800 Hz
9600 Hz

To set the Frequency,

1. On the Main Menu, tap **Setup Menu**
2. On the Setup screen, tap **Frequency**
3. On the PWM Frequency screen, select and tap a Frequency option, then tap **Apply** to save.

The screen goes to the Setup screen.

► DMX Lost

In this menu, output options can be selected if the fixture does not detect DMX signal:

Output options:

Last data	Fixture holds the last valid DMX state
No output	Fixture output is off
Look	Saved Look in LookStore

To set DMX Lost,

1. On the Main Menu, tap **Setup Menu**
2. On the Setup screen, tap **DMX Lost**
3. On the DMX Lost screen, select and tap an output option
4. Tap **Apply** to save

The screen goes to the Setup screen.

► Reset

In this menu,

- Current user settings can be saved.
- The fixture can be reset to the saved user settings.
- The fixture can be reset to the factory default settings. All recorded Looks are erased.

To save the current user settings,
Review all settings.

1. On the Main Menu, tap **Setup Menu**
2. On the Setup screen, tap **Reset**
3. On the Reset Setting screen, press and hold **Save User** for 10 seconds to save the current settings. (Follow the text prompt that appears on the screen.)

The screen goes to the Setup screen.

To reset the fixture to the saved user settings,

1. On the Main Menu, tap **Setup Menu**
2. On the Setup screen, tap **Reset**
3. On the Reset Setting screen, tap **User**
4. Press and hold **Apply** for 3 seconds to restore the saved user settings

The screen reboots to the opening screen and Main Menu.

To reset the fixture to the factory default settings,

1. On the Main Menu, tap **Setup Menu**
2. On the Setup screen, tap **Reset**
3. On the Reset Setting screen, tap **Default**
4. Press and hold **Apply** for 3 seconds to restore the factory default settings.

The screen reboots to the opening screen and Main Menu.

Factory Default Settings:

DMX Address	Port1:1, Port2: 2, Port3:3
Mode	RGBW single
DMX Lost	Last data
Frequency	1200Hz
Reset	Default

2.7 DMX Protocol – Inspire Terminal Strip

V1.01	RGBW single [512 ch per output] RGBW	RGBW output [4 ch per assigned output] RGBW	Tungsten [1 ch] W
Channel 1	Red for fixture 1	Red for output	White for all fixtures (RGBW combined)
Channel 2	Green for fixture 1	Green for output	
Channel 3	Blue for fixture 1	Blue for output	
Channel 4	White for fixture 1	White for output	
Channel 5	Red for fixture 2		
Channel 6	Green for fixture 2		
Channel 7	Blue for fixture 2		
Channel 8	White for fixture 2		
Channel 9	Red for fixture 3		
Channel 10	Green for fixture 3		
	...and so on up to fixture 128 per output		
Total	512 DMX channels per output	4 DMX channels per output (12 DMX channels maximum for 3 outputs)	1 DMX channel

2.8 Thermal Performance

The internal cooling system of the Inspire Terminal Strip is by convection and the fixture is built with automatic protection. The fixture's automatic protection reduces the output when the internal temperature reaches the maximum limit due to extreme ambient conditions.

3. Troubleshooting

Troubleshooting is a process of elimination. First, rule out the other field factors (i.e. bad connections, faulty cables and power supplies). For technical support and/or parts, please contact your selling dealer or the offices listed in this manual.

Symptom	Possible Cause	Solution
Fixture does not respond to DMX control.	• The External Control Box is set to the wrong or different DMX address. • Bad cable connecting DMX control and External Control Box. • Bad cable connecting DMX control and fixture. • Bad in/through connection between daisy-chained fixtures. • Bad in/through connection between daisy-chained External Control Boxes.	• Check DMX address and Mode settings. • Check/replace DMX run from the console to the External Control Box. • Check/replace DMX runs from the External Control Box to the fixtures. • Check/replace DMX runs between daisy-chained fixtures. • Check/replace DMX runs between daisy-chained External Control Boxes.
Low LED output.	• Internal temperature of the fixture is over the limit.	• Check area ventilation.

4. Specification

4.1 Technical Specifications

Inspire Terminal Strip

Net Dimensions** (Without Fixings – W x H x D)	181mm x 404mm x 181mm / 7" x 16" x 7"		
Net Weight (Without Fixings)	6 kgs / 13.5 lbs		
Shipping Dimensions (W x H x D)	501mm x 380mm x 300mm / 20" x 15" x 12"		
Shipping Weight	8 kgs / 18 lbs		
Power & Connections			
Power Supply	Built-in		
Power Input Rating	100-240V AC 50-60Hz 120VA		
Power Factor	0.9		
Power Consumption	120W		
Typical Power & Current	Measurements done with all LEDs at maximum intensity. Measurements made at nominal voltage. Allow for a deviation of +/- 10%.		
Power connector Input	Terminal Block		
Data Connectors In/Out	Terminal Block		
Control Protocol	ANSI E1.11 USITT DMX 512-A		
Cooling System	Convection		
Operating Temperature	0°C to 40°C		
Construction	Anodised aluminium extrusion		
Colour	Black		
Built-In Hardware	Mounting bracket		
IP Rating	IP20		
Approvals	CISPR 22/EN55022 & CISPR 24/EN55024, ICES-003 Issue 4:2004 / FCC Part 15 Subpart B:2010, CSA C22.2 No. 166-M1983: R2008, UL 1573:2003 (R2010), IEC 60598-2-17		
Control & Photometric			
LEDs	18 x White + 6 x RGB, total 36 LEDS		
LED Engines	1		
LEDs Per Engine	36		
Total LEDs	36		
Control Modes	RGBW single, RGBW output, Tungsten, LookStore		
Dimming Curve	Theatrical		
Variable Effects Engine	Yes		
Hot Lumen Output (Combined)	4,390 (N)	4,070 (M)	4,390 (W)
Optics	Fully Homogenised		
Beam Angle	N @ 32° (approx.)	M @ 42° (approx.)	W @ 65° (approx.)
Beam Distribution	Symmetrical direct illumination		
CCT	Adjustable 1,000 – 10,000K		
Colour Gamut	Performance enhanced		
CRI	90		
Lamp Life	L70 at 50,000 hours		

**For exact measurements please refer to the line drawings below

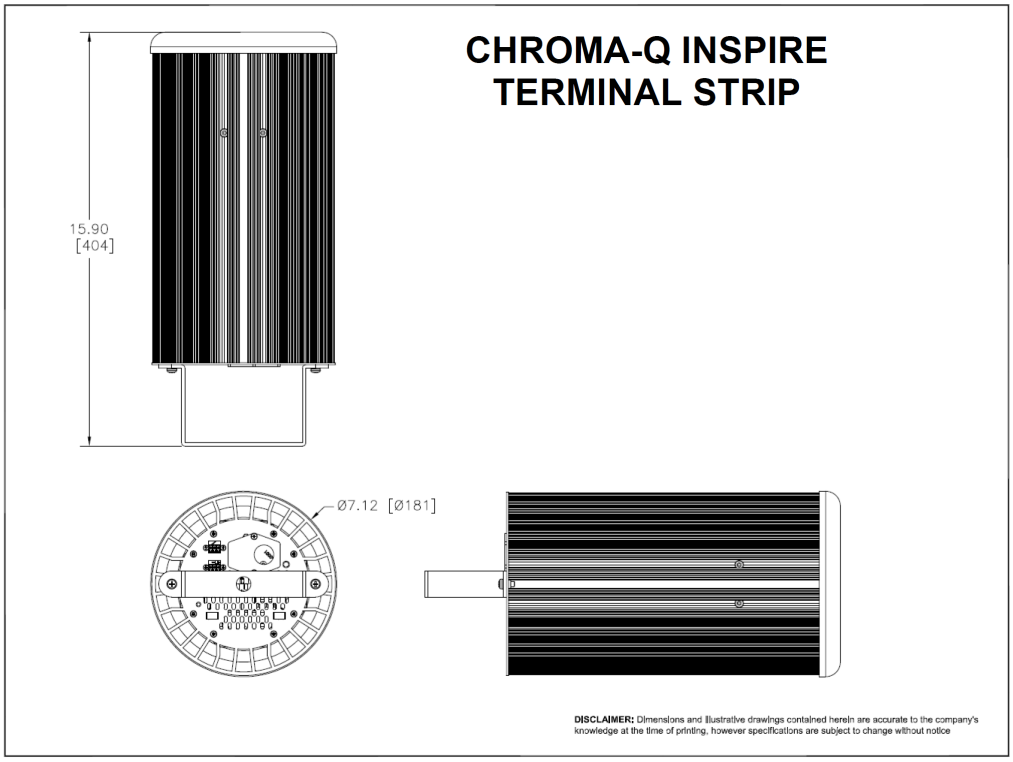
CE

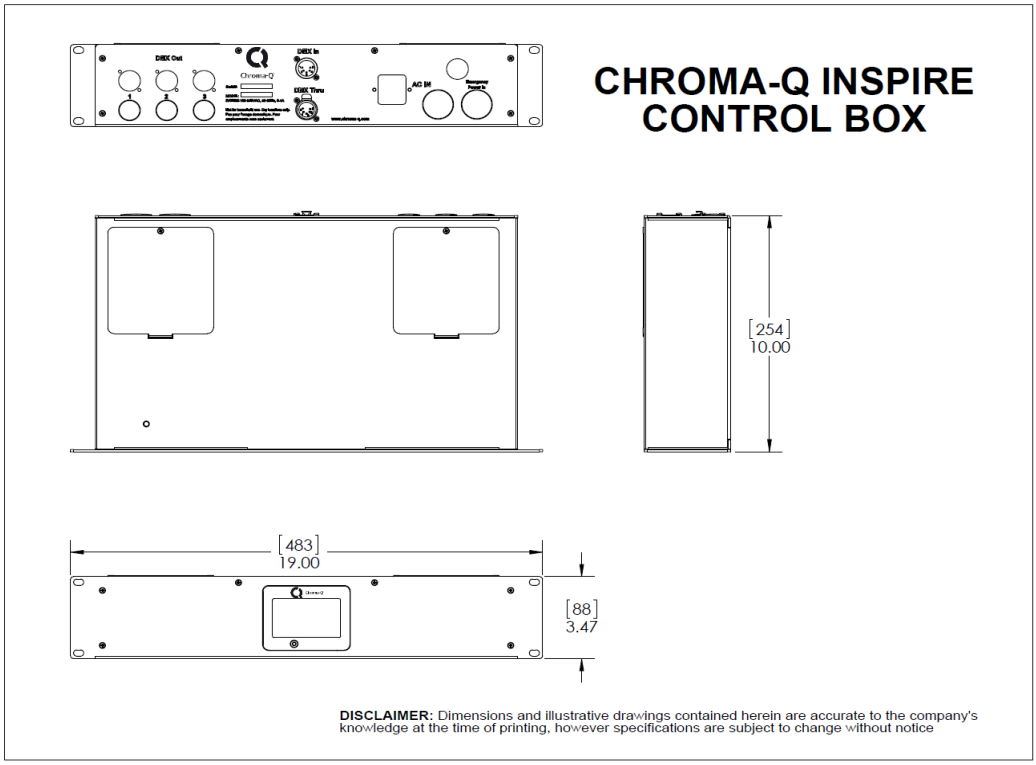
Inspire External Control Box

Net Dimensions** (Without Fixings - Width x Height x Depth)	483mm x 88mm x 254mm / 19” x 3.5” x 10”
Net Weight (Without Fixings)	2.5kg / 5.5lb
Shipping Dimensions – Width x Height x Depth	533mm x 317.5mm x 133.5mm / 21” x 12.5” x 5.25”
Shipping Weight	3.3kg / 7.3lb
Power & Connections	
Power Supply	Built-in
Power Input Rating	100-240V AC 50-60Hz .4A
Power Factor	0.9
Power Consumption	9W @ 240VAC (Maximum/Idle)
Typical Power & Current	Measurements done with all LEDs at maximum intensity. Measurements made at nominal voltage. Allow for a deviation of +/- 10%.
Power connector In/Out	Input only: Terminal Block for each AC power and Emergency power inputs
Data Connectors In/Out	Terminal Block
Control Protocol	ANSI E1.11 USITT DMX 512-A
Cooling System	Convection
Operating Temperature	0°C to 40°C
Construction	Powder-coated aluminium
Colour	Black
IP Rating	IP20
Approvals	CISPR 22/EN55022 & CISPR 24/EN55024, ICES-003 Issue 4:2012 / FCC Part 15 Subpart B:2014, CSA C22.2 No. 166-M1983: R2013, UL 1573:2003 R2014, IEC 60598-2-17
Control	
Control Modes	RGBW single, RGBW output, Tungsten, LookStore
Dimming Curve	Theatrical

CE

4.2 Drawings – Dimensions





5. Maintenance

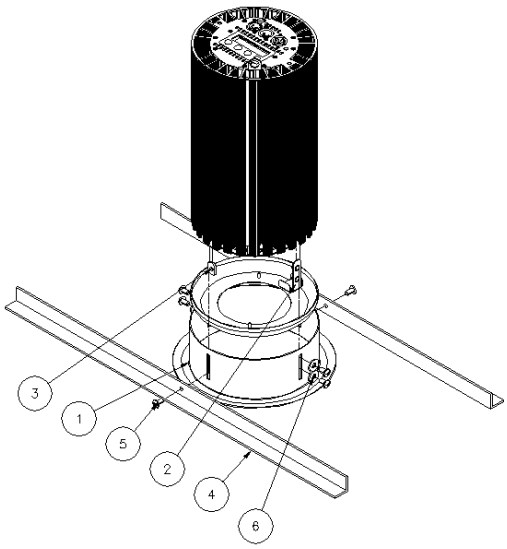
With care, the Inspire Terminal Strip fixture and external control box requires little maintenance. However, as the unit is likely to be used in a stage environment we recommend periodical internal inspection and cleaning of any resulting dust and cracked oil residue.

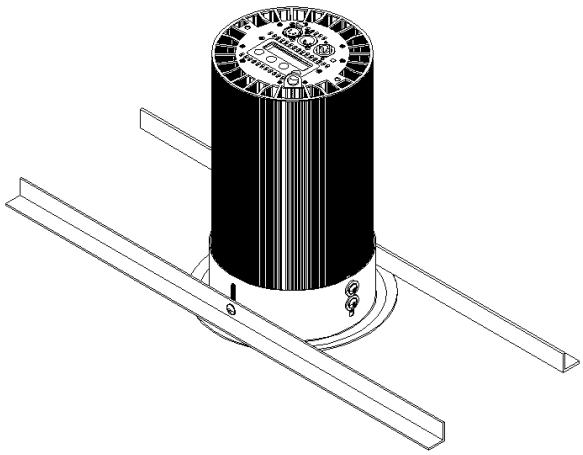
Do not spray liquids on the front or rear panel. If the front enclosure requires cleaning, wipe with a mild detergent on a damp cloth.

6. Ceiling Installation Procedure

The Inspire fixture can be mounted onto the ceiling with the Inspire Ceiling Installation Kit. The Inspire Ceiling Installation Kit consists of the following items: (See drawing below with the reference numbers.)

Ref No	Name	Description
1	Trim Ring Inspire Black	A ring that holds and fastens the fixture in place (facing downwards) with 4 slots for fixture trim height adjustment
2	Bracket Hook	A bracket shaped with 2 hooks and built with 2 x ¼-20" pem nuts. The 2 hooks are set on the edges of 2 extruded fins of the fixture. The Trim Ring is fastened on the 2 pem nuts of the Bracket Hook.
3	T-Nut ¼-20" Economy 15S	Nuts inserted into the extruded cavity between 2 extruded fins
4	Angle support ceiling mounting	2 angle bars that are mounted onto the ceiling
5	Screw Flanged Button Socket ¼-20 x ¾"	Fastening screw
6	Washers	



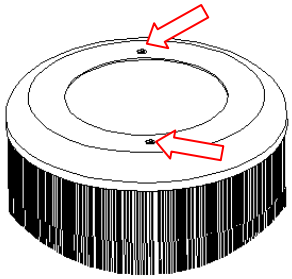


Disclaimer:

- Installation should be carried out by an experienced professional. The instructions below are provided for information only.
- All work should be verified to meet Local and National Building Regulations, and Health and Safety Standards in particular.
- Ensure that the specified torque is applied to fasten the Trim Ring and Angle Supports.
- The Angle Supports of the Inspire fixture must be fastened to the ceiling with the appropriate load capacity.
- The use of a safety chain or other all arrest cable is strongly recommended as per standard rigging practice.

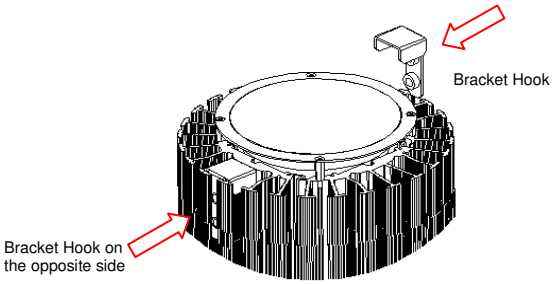
6.1 Remove the Cap:

- Position the fixture lens side up. Ensure that the display screen at the rear/bottom is resting on a clean scratch-free surface and the female XLR-5 latch at the rear is not pressed.
- Unscrew the 2 x M3 FH screws at the front to remove the Cap.



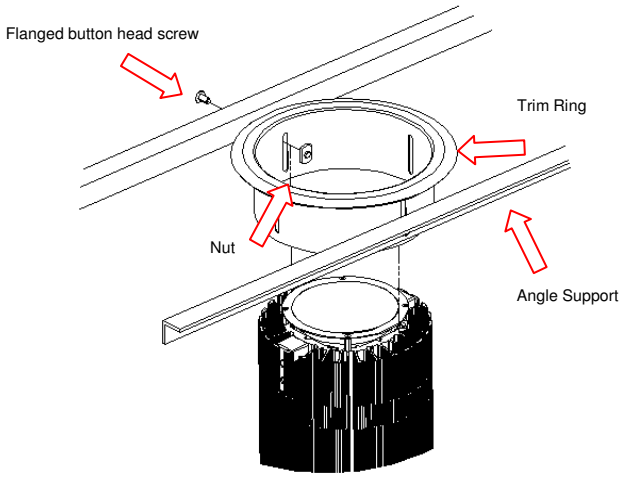
6.2 Insert the 2 Bracket Hooks

- Insert and hook the 1st Bracket Hook to set onto the edges of 2 straight extruded fins (not curved).
- The threaded side of the Bracket Hook must be adjacent towards the external side of the enclosure.
- Insert and hook the 2nd Bracket Hook to set onto the edges of the 2 straight extruded fins (not curved) on the opposite side.



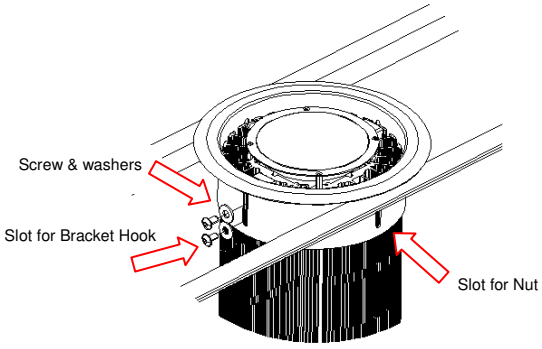
6.3 Attach the Angle Supports to the Trim Ring

- Attach the 1st angle support onto one side of the trim ring.
- Insert a flanged button head socket screw through the hole in the angle support into a trim ring slot and fasten a nut loosely.
- Attach the 2nd angle support onto the opposite side of the trim ring.
- Insert a flanged button head socket screw through the hole in the 2nd angle support into the opposite trim ring slot and fasten a nut loosely.



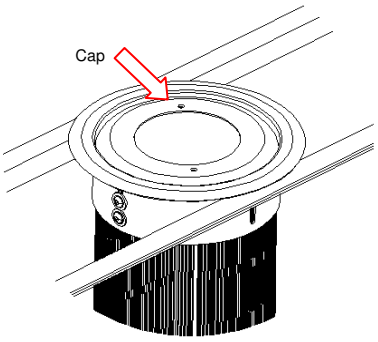
6.4 Slide the Trim Ring and Angle Support assembly down onto the fixture

- Align the 2 empty slots of the trim ring to match the threads of the 2 bracket hooks on the fixture.
- Slide the trim ring down onto the fixture:
- Match the 2 empty trim ring slots to the bracket hook threads.
- Match and insert the 2 loosely fastened screw nuts into the slots between the fins.



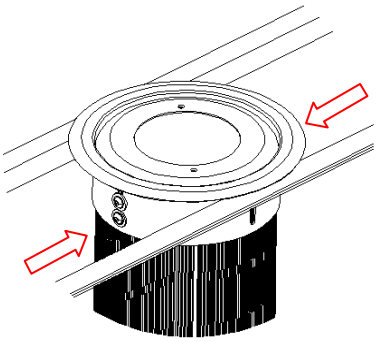
6.5 Put the Cap back

- Put the cap back and fasten with 2 x M3 FH screws (5.5 in-lb torque).



6.6 Fasten the Trim Ring to the 2 Bracket Hooks on the fixture

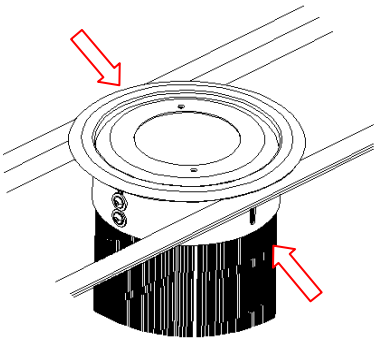
- Adjust the trim height then fasten with the 4 flanged button socket screws and washers onto the 2 Bracket Hooks on both sides of the fixture.



Note:
Minimum torque for the ¼-20 in. flanged button socket screw is 48 in-lb.

6.7 Tighten the screws on the Angle Supports

- Tighten the loosely fastened flanged button socket screws on each of the angle supports.



Note:
Minimum suggested torque for the ¼-20 in. flanged button socket screw is 48 in-lb.

6.8 Install the fixture onto the ceiling

- Turn the fixture with the Trim Ring and Angle Supports lens side down.
- Fasten the angle supports onto the appropriate ceiling infrastructure.