ALTMAN
LIGHTING

Quick Start Guide
Chalice 200 Pendant

Preface

The document provides basic information on installation and operational instructions for a qualified, trained installer. These instructions provide information for the following product:

Chalice 200 Pendant

Additional product information can be found on our web site at www.altmanlighting.com or by scanning the QR code to the right.

Have a question regarding this manual?

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Should you have a suggestion or question regarding your Altman Lighting product, we would love to hear from you.

You can reach us at:

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Denver, CO. 80229
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Note: Information contained in this document may not be duplicated in full or in part by any person without prior written approval of Altman Lighting Its sole purpose is to provide the user with conceptual information on the equipment mentioned. The use of this document for all other purposes is specifically prohibited.

Our Commitment

Altman Lighting continually engages in research related to product improvement. New materials, production methods and design refinements are introduced into existing products without notice as a routine expression of the philosophy. For this reason any current Altman Lighting product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise noted.

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Chalice 200 Pendant Luminaire Quick Start Guide
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Important Information

Product Safety Notices

When using electrical equipment, basic safety precautions should always be followed including the following:

1. <u>READ AND FOLLOW ALL SAFETY INSTRUCTIONS.</u>
2. Do not mount near gas or electric heaters.
3. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
4. Operate only in approved environments. Do not operate outside unless product is designed to do so.
5. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
6. Do not use this equipment for other than intended use.
7. Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.

Warnings

WARNING: You must have access to a main circuit breaker or other power disconnect device before installing any wiring. Be sure that power is disconnected by removing fuses or turning the main circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

WARNING: This equipment is intended for installation in accordance with the National Electric Code® and local regulations. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

WARNING: This Lighting Fixture IS NOT for residential installation or use.

WARNING: The structure where fixture(s) is to be mounted must be capable of supporting the weight of the fixture and its accessories. This fixture is for temporary, portable mounting only.

WARNING: The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION PERTINENT, PAR UNE PERSONNE.

CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR. CONSULTER UN ÉLECTRICIEN QUALIFIÉ POUR VOUS ASSURER QUE LES CONDUCTEURS DE LA DÉRIVATION SONT ADÉQUATS.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Altman Lighting Product Warranty

Warranty Terms

Altman Lighting, Inc., a subsidiary of Altman Stage Lighting Company, Inc., herein referred to as Altman, warrants each new product (except for spare parts or products Altman does not manufacture) for a period of TWO (2) years from date of shipment to correct by repair or replacement any part defect due to faulty material or workmanship. Under these same terms products with an LED light source shall be warranted for a period of FIVE (5) years and One (1) day.

Altman warrants for NINETY (90) days any spare part it manufactures. On spare parts or products Altman does not manufacture, including, but not limited to, lamps, sockets, lenses, roundels, electronics, ignitors, ballasts, etc.; Altman will grant the same warranty given Altman by its vendors. Altman assumes no responsibility for damage or faulty performance caused by misuse, improper installation, careless handling or where repairs have been attempted by others. This warranty is in lieu of all warranties or guarantees expressed or implied and no representative or person is authorized to assume Altman any other liability with the sale of Altman's products.

Altman assumes no responsibility for damage or faulty performance caused by misuse, improper Installation, careless handling or where repairs have been attempted by others.

This warranty is in lieu of all warranties or guarantees expressed or implied and no representative or person is authorized to assume Altman any other liability with the sale of Altman's products.

Warranty Service

The customer must receive a Return Material Authorization (RMA) number prior to return, return shipment must be visibly marked with the RMA number and the product must be returned (shipping prepaid) to the factory at:

<div align="center">

1400 East. 66th Avenue
Denver, CO 80229 USA
+1-303-500-7072
support@altmanlighting.com

</div>

The return must be within THIRTY (45) days of receiving the RMA from Altman. Altman warrants for NINETY (90) days any spare part it manufactures. On spare parts or products Altman does not manufacture, such as lamps, sockets, lenses, roundels, electronics, ignitors, ballasts, etc. Altman will grant the same warranty given Altman by its vendors.

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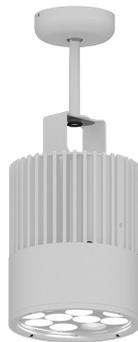
Product Overview

Overview

The Chalice 200 Pendant is a compact, cast aluminum design allows for discrete luminaire placement while the Red, Green, Blue, Lime LED engine offers very high output of deep rich saturated colors as well as soft and delicate pastels. The Chalice 200 also comes in a Tunable White, 3000K and 5000K LED Engine. The Chalice 200 Pendant replicates the soft output of a par wash light while maintaining a uniform beam output throughout the entire zoom range.

Models

Chalice 200 Aircraft Mount	Chalice 200 Pendant Mount	Chalice 200 Yoke Mount	Chalice 200 Wall Mount

Model:	LED:	Data Connection:	Body Color:
CDP200	RGBL - Color Mixing 3K - Fixed 3K White 5K - Fixed 5K White TW - Tunable White (3K-5K)	PC - Power Con / XLR Connection KO - Hardwire Connection	B - Black W - White C - Custom

Note: When ordering the fixture simply select an option from each column and that will produce your ordering part number .

Color: Fixture ship standard as Black. If White or Custom are required that could result in a longer lead time.

Mounting Options

Model:	Mounting Options:	Color:
CDP200	AIRCRAFT - Aircraft Cable Mount PENDENT - Pendant / Stem Mount YOKE - Yoke Mount WALL - Wall Mount	B - Black W - White C- Custom

Note: When you order a Chalice 200 Fixture the mount is no included. When ordering a mount simply select one option from each column from the Mounting Chart and that will produce your ordering part number.

Aircraft: Mounting: Maximum length for Aircraft cable = 20'-0" (6.1 m)
Pendant: Mounting: Minimum length of Pendant = 6"(152mm). Custom stem lengths available. Consult your local regional sales manager for details.

Accessories

Contact your Authorized Altman Lighting Dealer for price and availability of all accessories for Chalice 200 Pendant. Additional information can be found on the Altman Lighting web site at www.altmanlighting.com.

Model:	Description:
510	Malleable Iron Clamp
515	Extruded Aluminum C-Clamp
SC-36-BK	36-Inch Black Safety Cable with Spring Clip
SS-SC-40-BK	40-Inch Stainless Steel Safety Cable with Spring Clip
CDP200-WIRELESS	Chalice 200 Wireless Kit
61-DMXCAT	DMXCAT DMX / RDM Setup Tool
DMX-5-TERM	XLR DMX Terminator

**Black (B) or White (W) or Custom (C). Consult factory for custom colors

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Installation & Set Up

Mounting

⚡ These instructions must be followed to provide a safe and secure mounting. Chalice must be installed by a qualified professional installer.

⚡ Supporting mechanism and structure must be capable of supporting the weight of the Chalice 200.

⚡ Make sure power to the junction box is completely disconnected. Failure to do so could lead to serious injury or death.

❗ Chalice cannot be mounted directly to a canopy ceiling. A minimum of a 6-inch (153 mm) stem must be used. A minimum of 9 inches (230 mm) between a hard ceiling and the top of the luminaire must be maintained to allow proper airflow for cooling.

C-Clamp Installation

The C-Clamp should be installed as shown in the figure below. Only use the hardware supplied with the C-clamp.

❗ **NOTE:** A 515 C-Clamp is sold separately

515 - C-Clamp

3 x 1/2-inch (13mm) Mounting Hole

Chalice 200 Yoke (CDP200-YOKE-*)

1/2-inch Flat Washer
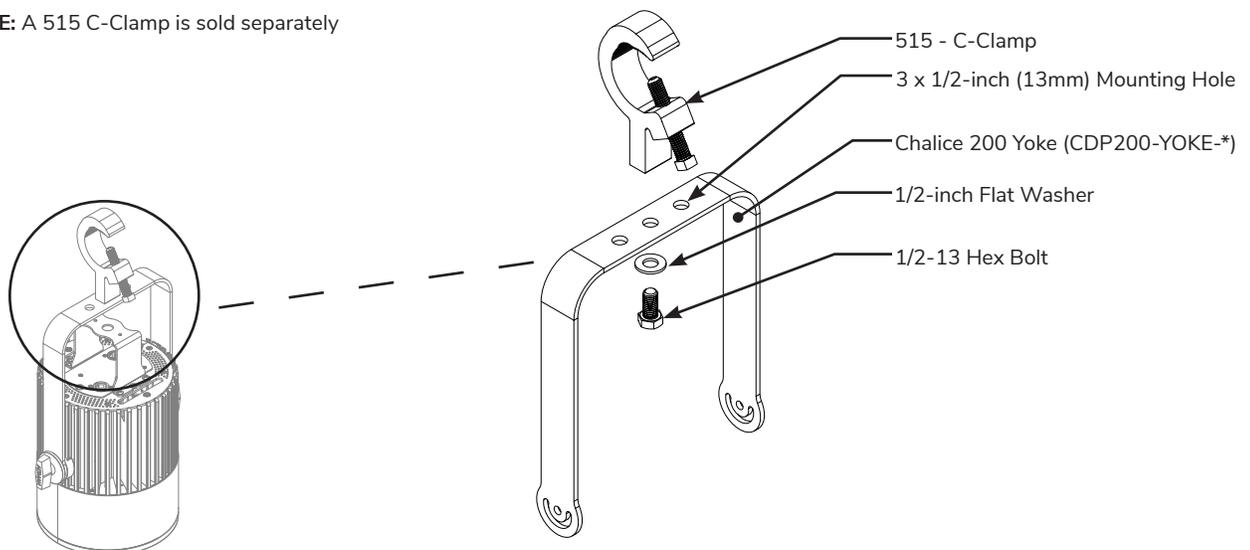
1/2-13 Hex Bolt

C-Clamp Installation

**Installing the 515 C-clamp:**
1. With luminaire on a flat, sturdy surface, position yoke assembly for easy access as illustrated in Figure 4.
2. Place on 1/2-13 hex bolt, in this order, the 1/2-inch lock washer and then the 1/2-inch flat washer.
3. Insert bolt into hole on yoke assembly.
4. Position C-clamp over bolt and thread bolt into C-clamp.
5. Tighten bolt.

Safety Cable Installation

The provided safety cable should be installed in accordance to local and national codes

⚠ **NOTE: The safety cable (supplied with unit) should be used and may be required by local and/or national codes when hanging this luminaire. The mounting structure must be capable of supporting the weight of the fixture, lens, cabling, any accessories, etc.**

515 - C-Clamp

Safety Cable Anchor Point
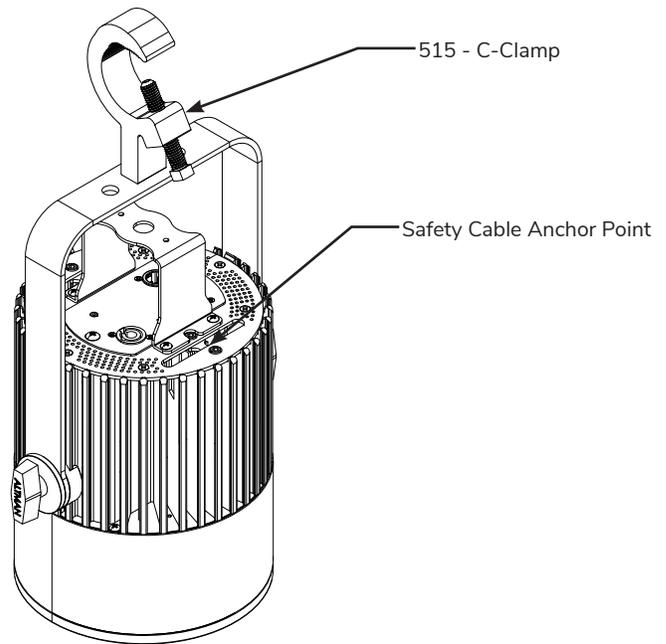
Yoke Mount

Portable models (units that are not intended for permanent installation) must be used according to all applicable local and national requirements and codes. Note, Chalice yoke mount luminaires are not supplied with a C-Clamp or safety cable. These items are sold separately.

⚠ The Chalice 200 Yoke luminaire is specifically designed for portable mount purposes and should not be used for wall mount applications.

INSTALLATION

3 x 1/2"
Mounting Holes

1. Attach hook clamp or clamp of choice to the yoke.
2. Attach luminaire to structure.
3. Attach safety cable if required.

[283]
12"

[227]
9"

[390]
16"

0°

100°   100°
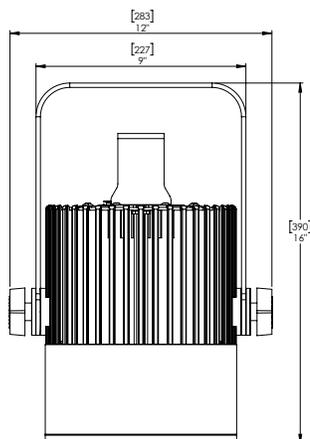
Chalice 200 Pendant with Yoke Mount
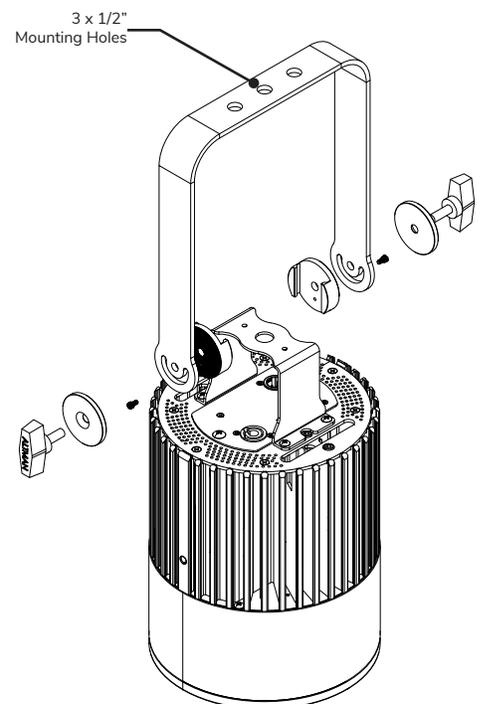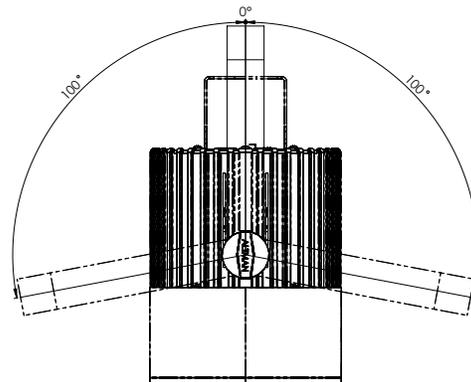
Chalice 200 Pendant with Yoke Mount Parts Breakout

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Pendant with Stem

> ⚠ The two piece top coupler is designed for 0 to 40 degree installation. If the mounting of the Chalice 200 requires angled ceiling mounting please make sure the that angle orientation slot is parallel with the angle of the sloped ceiling.

Chalice pendant with canopy are intended for permanent installation are is designed to be suspended below a ceiling installed junction box or similar mount. Mounting hardware is NOT provided with Chalice.

The unit cannot be mounted directly to the canopy. A minimum of a 6-inch (153 mm) stem must be used. A minimum of 9 inches (230 mm) between a hard ceiling and the top of the luminaire must be maintained to allow proper airflow for cooling.
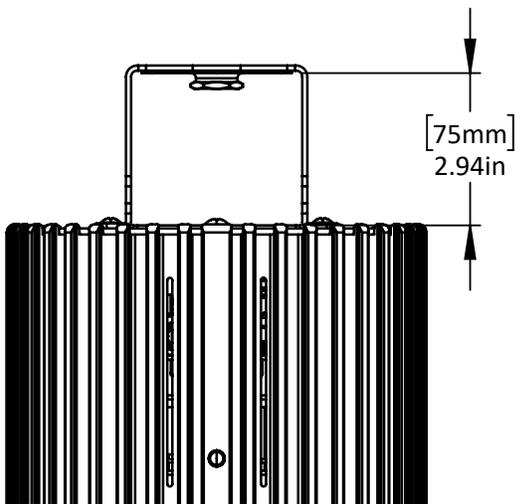
INSTALLATION

To Install the Pendant Mount with Stem:
1. Secure canopy mount to suitable ceiling junction box (not supplied, by others).
2. Thread stem into canopy mount.
3. While supporting luminaire, slide wiring up and through stem from fixture to ceiling junction box. Connect wiring according to model type.
4. Install locking nut and lock washer.
5. Thread stem into luminaire mounting bracket.

$\begin{bmatrix}75mm\end{bmatrix}$
2.94in

Maintain a minimum distance of 2.94 inches from top of luminaire to stem end to avoid pinching power and data cables.

Canopy Mount
(Mounts to Junction Box by others)

Stem
(Threads into Canopy Mount)

Locking Nut
Luminaire Mounting Bracket
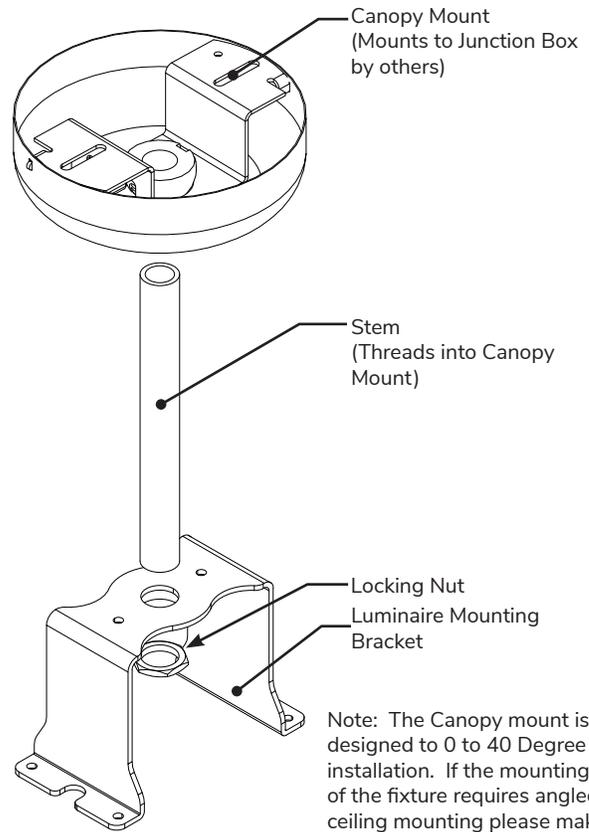
Note: The Canopy mount is designed to 0 to 40 Degree installation. If the mounting of the fixture requires angled ceiling mounting please make sure that the angle orientation slot is parallel with the angle of the sloped ceiling

Chalice 200 Pendant Mount

0.675 "

0.091 "
Wall Thickness

0.493 "

3/8 NPT Pipe Size, 18 Threads Per Inch,
0.41" Thread Engagement
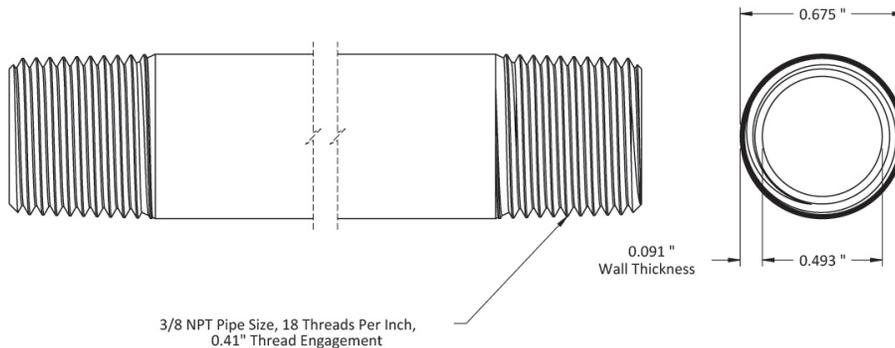
Pendant Stem Spec

Pendant with Aircraft Cable

Chalice pendant with aircraft mount, are intended for permanent installation are is designed to be suspended below a ceiling installed junction box or similar mount. Mounting hardware is NOT provided with Chalice.

⚠️   Supporting mechanism and structure must be capable of supporting the weight of the Chalice 200.

❗   The two piece top coupler is designed for 0 to 60 degree installation. If the mounting of the Chalice 200 requires angled ceiling mounting please make sure the that angle orientation slot is parallel with the angle of the sloped ceiling.

- Notes: The unit cannot be mounted directly to the canopy. A minimum of 9 inches (230 mm) between a hard ceiling and the top of the luminaire must be maintained to allow proper airflow for cooling.
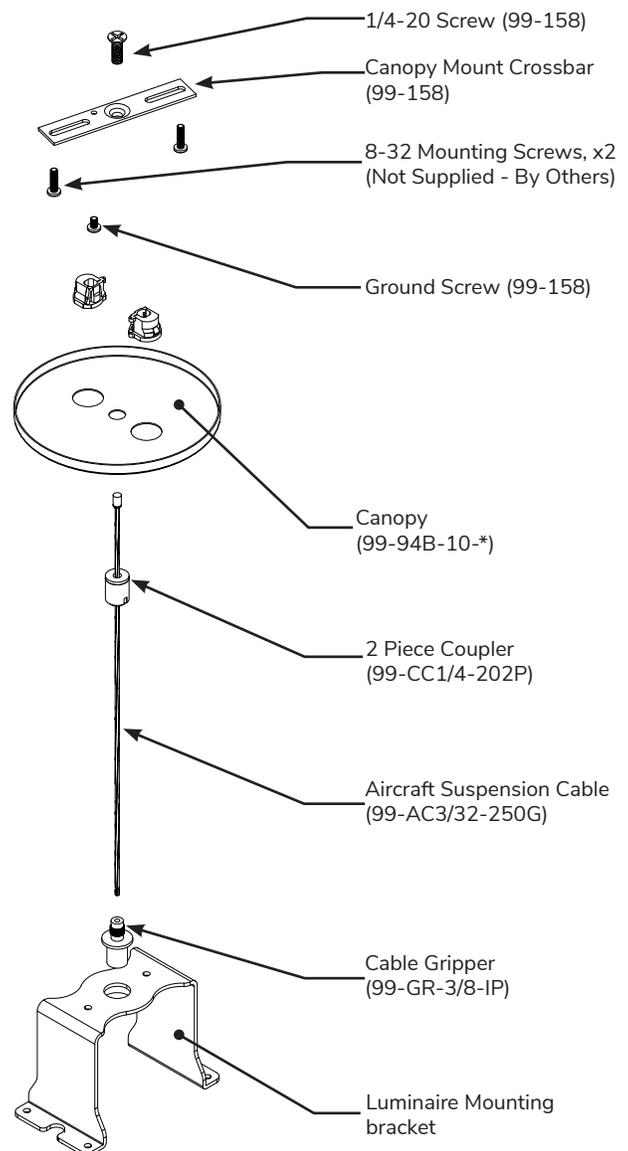- Note: Mounting: Maximum length for Aircraft cable = 20'-0" (6.1 m)

To Install the Pendant Mount with Aircraft Cable:
1. Thread and secure aircraft suspension cable to luminaire mounting bracket using cable gripper.
2. Secure canopy mount crossbar to suitable ceiling junction box (not supplied, by others).
3. Supporting luminaire, thread 1/4-20 screw through canopy mount crossbar into 2 piece coupler to secure aircraft suspension cable.

To set Height Adjustment for Aircraft Mount:
1. Loosen thumb screw.
2. Depress the top of the gripper. Note, the cable gripper will only allow the cable to move in one direction through its housing unless the top of the gripper is depressed.
3. Thread desired length of cable though the gripper.
4. Tighten thumb screw.

IMPORTANT! Do NOT thread the excess aircraft cable into the luminaire. The interior housing of the luminaire contains live power.

1/4-20 Screw (99-158)

Canopy Mount Crossbar (99-158)

8-32 Mounting Screws, x2 (Not Supplied - By Others)

Ground Screw (99-158)

Canopy (99-94B-10-*)

2 Piece Coupler (99-CC1/4-202P)

Aircraft Suspension Cable (99-AC3/32-250G)

Cable Gripper (99-GR-3/8-IP)

Luminaire Mounting bracket

Canopy Suspension Cable & Feed

Note: * Specify color at time of ordering by adding the following code for color: BK = Black or WH = White.

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Wall Mount

Wall Mount models (units that are intended for permanent installation) must be installed according to all applicable local and national requirements and codes by qualified installers. Installation hardware (i.e., wall anchors, etc.) are NOT supplied and are by others.

INSTALLATION

1. Attach wall bracket to structure using suitable hardware.
2. Attach luminaire to bracket using supplied hardware
3. Connect data and power wiring.

Wall Mount Top View　　　　　　　*Wall Mount Side View*
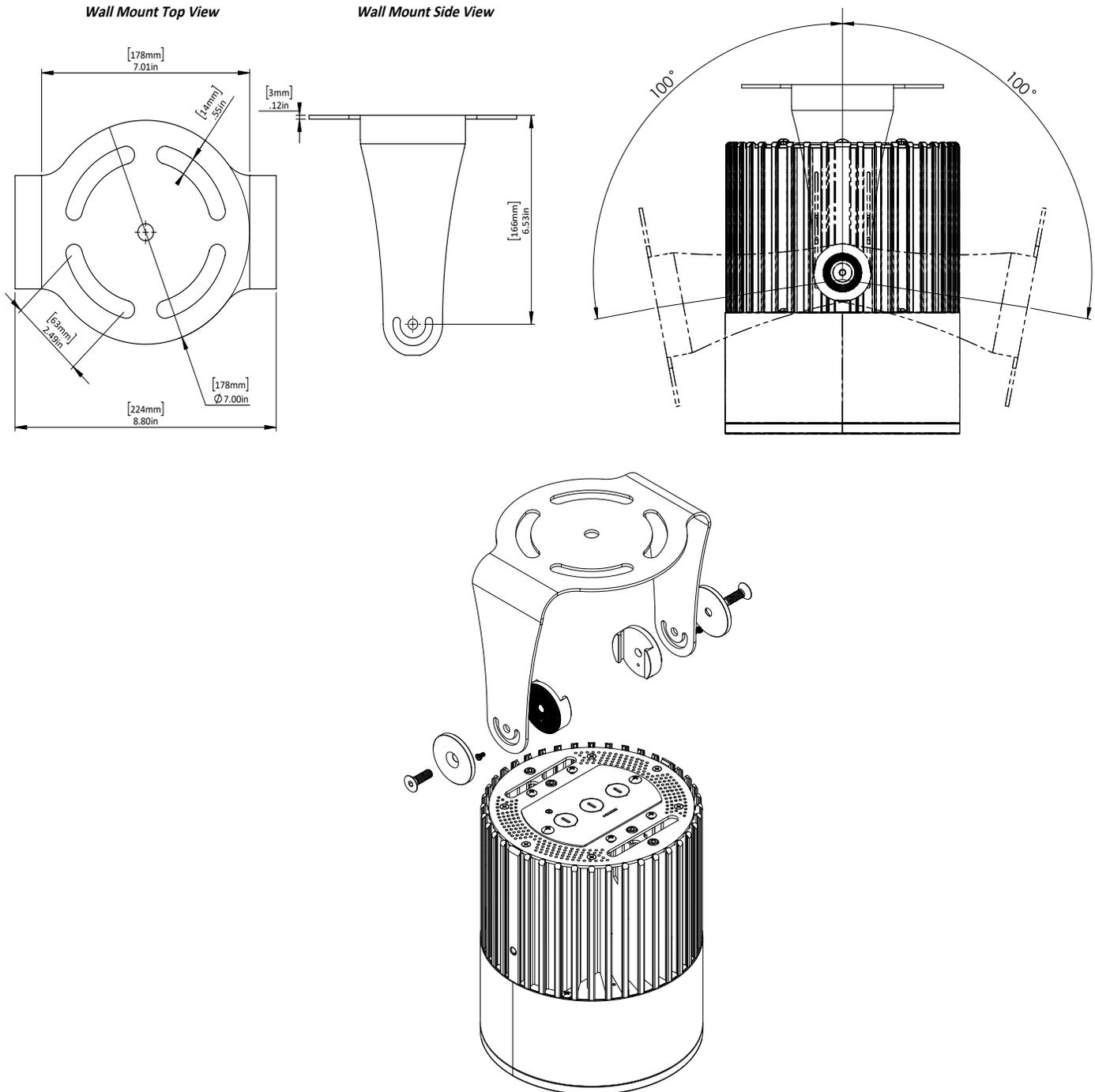
**Chalice 200 Pendant with Wall Mount
Parts Breakout**

Power Requirements

⚠ Chalice 200 must be connected and properly grounded to an viable earth ground.

⚠ Chalice 200 must be connected to a constant circuit or a relay device. **MUST NOT BE CONNECTED TO A DIMMER.**

⚠ Chalice 200 Voltage range is 120VAC - 240VAC. DO NOT CONNECT TO 277VAC.

Input Voltage:	100-240 VAC 50/60Hz
Current:	1.67A @ 120VAC; 0.87A @ 230VAC
Current Inrush:	At 120 VAC, 50A (1/2 cycle) @ 25°C / At 240 VAC, 40A (1/2 cycle) @ 25°C

Connecting Power

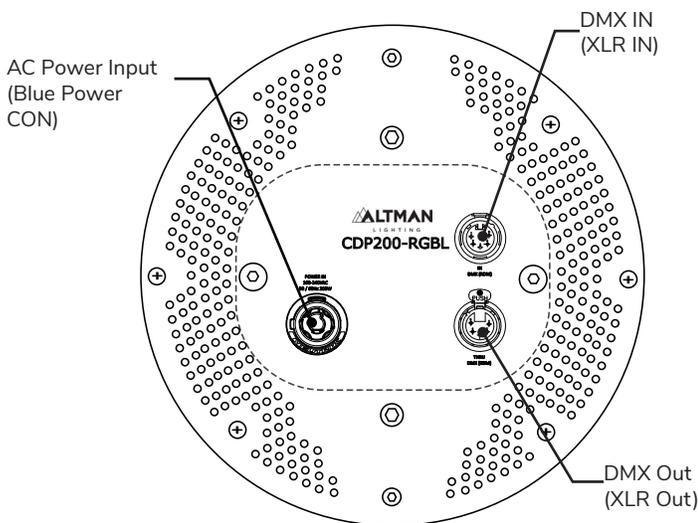Units are powered in one of two ways depending on the model(s) purchased:
PC (Power Con / XLR): Direct connection to a AC power source via Power Con Connection.
KO (Knockout): Direct connection to a AC power source via Terminal Block Connection.
Note: The terminal block connection is cover by an Electric Cover Plate with knock-outs for running the wire through

WIRE COLOR		PURPOSE
Black (120VAC)	Brown (240VAC)	Hot / Live / Main / Line / L
White (120VAC)	Blue (240VAC)	Common / Neutral / N
Green (120VAC)	Green/Yellow (240VAC)	Ground / Earth / E

Chalice 200 Power Wiring Scheme

AC Power Input (Blue Power CON)

DMX IN (XLR IN)

DMX Out (XLR Out)

Power Input Connector

Electrical Cover Plate

DMX In and Thru Connectors

Chalice 200 Portable Power Connection

POZIDRIV® #1

Recommend Wire Size: 12AWG

Chalice 200 with Knockout Plate and Hard wire Connection

N ⏚ L
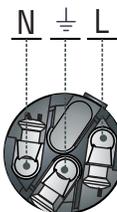
Note: THE CHALICE 200 MUST NOT BE CONNECTED OR POWER FROM A DIMMER. IT IS ONLY RECOMMEND TO HAVE IT POWER FROM A CONSTANT CIRCUIT OR RELAY.

Note: It is recommend that when the Chalice 200 is not being used for a long period of time to have it power off. This will help with extending the life of the fixture

Note: Recommend Power Wire Size: 16 to 18AWG

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Connecting to the DMX512 Network

DMX can be connected in one of two ways depending on the model(s) purchased:
  Power Con / XLR: Direct connection to the DMX In and DMX Out ports via XLR Cable Connection.
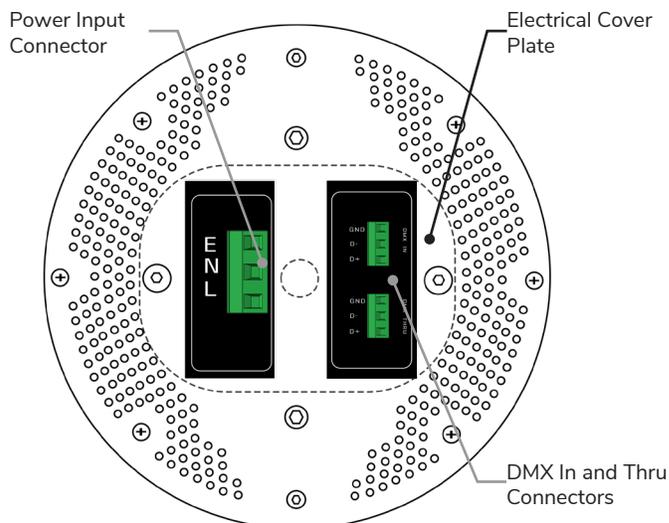 Knockout: Direct connection to the DMX In and DMX Out ports via Terminal Block Connection.
Note: The terminal block connection is cover by an Electric Cover Plate with knock-outs for running the wire through

Basic DMX512 installation consists of connecting multiple DMX controlled Chalice 200 Luminaires together (up to 32 Total devices per DMX string) in "daisy-chain" fashion. A cable runs from the DMX512 control source to the DMX INPUT connection on the first luminaire.

From the DMX OUTPUT of the luminaire another cable runs to the DMX IN connection on the next luminaire or other DMX512 device to be controlled.

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522).

USITT Contact Information: www.usitt.org

> At the end of each DMX Daisy chain, it is highly recommended that a DMX TERMINATOR (Altman Light-ing part number DMX-MPHX-TERM for the connectors shown in Table 2) is utilized on the last luminaire (or device) in the chain.

Phoenix Connector Installation

Step 1. Remove screw-down connector from fixture.

Step 2. Prepare CAT5 / DMX wire and insert into the connector observing Table 2 " DMX Wiring Scheme". Use a slotted screw-driver to tighten the screw down terminals.

Step 3. Plug connector back into the fixture

RJ45 / XLR Connector Wiring

DMX Connections - RJ45 and XLR Connectors		
DMX Signal	RJ45 Connector	XLR Connector
Common (Drain) / GND	Pin 7	Pin 1
DMX -	Pin 2	Pin 2
DMX +	Pin 1	Pin 3

DMX Wiring Scheme

Only those pins shown are used. Remaining pins on RJ45 and XLR connectors are not used.

Operation and Programming

Setting a DMX Address via RDM

Chalice 200 LED Luminaires are full featured Remote Device Management (RDM) compliant. All DMX and Luminaire settings are programmed via a RDM ANSI E1.20 complaint device. As many of the RDM devices and software work differently please consult the RDM programmer manufacturer for specific operational instructions.

⚠️ Note: The entire DMX infrastructure must be RDM compliant in order to achieve system-wide RDM functionality.

Setting a DMX Address via DMXCAT

The City Theatrical DMXCAT (model DMXCAT, sold separately, refer to "Chalice 200 LED Luminaires Accessories" on page 6 for ordering information) is used to set the DMX address of Chalice 200 LED Luminaires using DMX/RDM. RDM (Remote Device Management) is an enhancement to DMX512 which allows status information and parameters (such as the DMX address) to be communicated over the DMX LAN.

⚠️ Note: If you do not have a DMXCAT, a RDM compliant console / device that is capable of addressing, can also be used to set the DMX address.

To set the DMX address using DMXCAT:
1. Connect and Power On DMXCAT to the fixture(s) to be addressed using standard DMX cabling.
2. Open the DMXCAT App on your Smart Phone
3. In the DMXCAT App open the RDM Controller App
4. The DMXCAT will show you all of the Fixtures it can see in the DMX Run
5. Select the Device / Unit you want to change the DMX address to.
6. Once you select the Device / Unit the Quick Settings will pop open and you change the Label, DMX Personality and DMX Address
7. Once you have made all of the changes to the fixtures you will unplug and turn off the DMXCAT.

⚠️ Note: For more information on the DMXCAT visit City Theatrical Web site. DMXCAT Website

CCT DMX Values

The following dmx settings can be used to set the Chalice 200 LED values to a desired CCT color from a DMX console or controller.

Note: For a more accurate CCT output it is recommended to turn On Color Calibration via RDM. See page 15 on RDM Settings for More Information.

	RED	GREEN	BLUE	LIME
2700K	100%	0%	11%	87%
3000K	100%	5%	19%	100%
3200K	100%	14%	24%	100%
4000K	100%	44%	46%	100%
4500K	100%	58%	61%	100%
5000K	100%	72%	75%	100%
5600K	100%	85%	92%	100%
6500K	71%	71%	100%	100%
8000K	28%	38%	100%	100%
10000K	0%	15%	100%	100%

DMX Personalities Settings

Chalice 200 fixtures have a number of different configurations as shown in the DMX Personalities Settings Table and in the following section as an example of channel order layout.

Input Value	# of DMX Channels	DMX Mode / Channel Order
RGBL	15	16-bit
RGBL	10	8-bit
CMY	13	16-bit
CMY	9	8-bit
HSIC	10	8-bit
RGB	5	8-bit
Compact Mode	6	8-bit
Compact Zoom Mode	7	8-bit

DMX Personalities Settings Overview

RDM Settings

Chalice 200 fixtures have the ability to have some of its settings changed via RDM (Remote Device Management). The following settings can be changed via RDM.

Get Allowed	Set Allowed	RDM Parameter IDS	Value	Notes	Implemented
✓	✓	IDENTIFY_MODE	0x1040		✓

Get Allowed	Set Allowed	Parameter IDs	Type	Length	Unit	Prefix	Min.	Max.	Default	Description	Description 2
✓	✓	8A00H	U8	1	NONE	NONE	0	100	100	Intensity	0---100%
✓	✓	8A0BH	U8	1	NONE	NONE	0	64	3	Power UP Fade Time	0-59 = 0-59 Seconds 60 = 1 Minute 61 = 2 Minute 62 = 3 Minute 63 = 4 Minute 64 = 5 Minute
✓	✓	8A0CH	U8	1	NONE	NONE	0	2	0	When no DMX	0 = Off 1 = Hold Last Look 2 = Power Up Preset
✓	✓	8A44H	U8	1	NONE	NONE	0	1	0	Calibration ON/OFF	0 = Factory Calibration Off 1 = Factory Calibration On
✓	✓	8A92H	U8	1	NONE	NONE	0	255	0	Strobe	0-255
✓	✓	8A93H	U8	1	NONE	NONE	0	1	0	Zoom Reset	0 - Ignore 1 - Reset
✓	✓	8A94H	U8	1	NONE	NONE	0	255	0	Duration	0-255
✓	✓	8A9BH	U8	1	NONE	NONE	0	1	1	Strobe Enable	0 - Disable 1 - Enable
✓	✓	8AA6H	U8	1	NONE	NONE	0	1	0	Hour Reset	0 = Ignore 1 = Reset
✓	✓	8AB1H	U8	1	NONE	NONE	1	64	0	Single Channel Preset	1-20= Preset P1-P20 21-64= Color Filters 1 - 43
✓	✓	8AA2H	U8	1	NONE	NONE	0	64	0	Power Up	0 = Last Set 1 - 20 = Preset 1 - 20 21 - 64 = Color Filter 0-43
✓	✓	8AB3H	U8	1	NONE	NONE	1	100	100	Power limit	Sets power limit settings 1= Low 100= Full
✓	✓	8AB6H	U8	1	NONE	NONE	0	1	0	Zoom Control	0 = DMX Control 1 = Manual Control
✓	✓	8AB7H	U8	1	NONE	NONE	0	255	0	Zoom Level	In Manual mode, this parameter controls the zoom. 0= Spot 255= Flood
✓	✓	8AB9H	U8	1	NONE	NONE	0	1	0	Zoom Set	0 =WASH Mode 1 = SPOT Mode

Cleaning And Care

WARNING! All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center. AT NO TIME SHOULD THE LEDs BE TOUCHED.

Routine Preventative Maintenance

Regular routine maintenance should be preformed at least twice a year. Additional inspections and cleaning may be necessary and more often depending upon the environment and hours of use of each luminaire.

1. Turn off luminaire and allow to cool completely.
2. Check for excessive dust or debris in the heat sink area of the luminaire
3. Wipe and remove all debris, dirt, dust from the cooling fins (a can of clean compressed air can be used to blow out from one side of the luminaire to the other.

Note: It is recommend to power off the fixtures when not using them for a long period of time. This will help with extending the life of the fixture

Cleaning Instructions

Being a solid-state fixture, and unlike most fixtures, the Chalice 200 Pendant requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

The Chalice 200 Pendant requires special care when it comes to cleaning the front reflector assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass.

The following is a list of cleaning materials required to care for your Chalice 200 Pendant Luminaire:
- Lint free lens tissue
- Lint or powder free gloves
- Reagent grade isopropyl alcohol*
- A mild soap solution.

WARNING: Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the Chalice 200 Luminaire. These types of cleaners or solvents can permanently damage the optics or housings of the fixture. If you have any questions regarding the use or care of your Chalice 200 Luminaire, please contact Altman Lighting technical support.

Cleaning the Front Lens

Step 1. Turn off luminaire and allow to cool completely.
Step 2. Apply a small amount of mild soap solution to lint-free lens tissue.
Step 3. Wipe all debris, dirt, fingerprints, etc. From the lens.
Step 4. Using a second lint-free lens tissue, wipe off any residue.

Service and Maintenance

For all other service and maintenance issues, please contact your local Altman Lighting office or an Authorized Service Center.

WARNING! Disassembly, alterations, unauthorized service, etc. will void the product warranty. Contact your local Altman Lighting office or an Authorized Service Center for technical support and service

Troubleshooting

Troubleshooting Guide

The chart below provides possible causes and remedies for various error messages and/or symptoms. If this chart is unable to address your issue, please contact your authorized dealer or Altman customer service for assistance.

Any service and maintenance (including troubleshooting), other than described herein should be performed by an Authorized Altman Lighting Dealer or Service Center.

DESCRIPTION	ISSUE	POSSIBLE CAUSE/REMEDY
No light output	Fixture will not produce or output light and connected to power. Unit responds to RDM	• Console is set at 0% intensity... • Set intensity level above 0% or adjust to a higher intensity. • Fixture is in Wrong DMX Personalities compared to what the DMX console is set to. See Page 15 DMX Personalities • One of the user defined colors may be active but nothing is recorded.
Low light output	Fixture produces low light output and connected to power.	• Check unit for calibration on or off at menu via RDM... • Operating temperature is at upper range of temperature range. • If the power limit settings are set.
No power at luminaire	Luminaire does not power up.	• Circuit not energized...verify circuit breaker is turned on. • Not plugged in...ensure A/C cable is connected to power source. • Power cable wired incorrectly...Verify power cable and connector are wired correctly. • See "Connecting Power" page 12 for more information.
No DMX Data Control	Fixture will not respond to DMX commands.	• Not detecting DMX data • Unit is not set to proper DMX address - check RDM Settings • Set DMX Address via RDM" page 14 for more information. • Disconnect and reconnect DMX input cable. • Check all DMX connections (at control source and luminaire). • DMX data cable not wired correctly or has a broken conductor... Check DMX data cable for proper wiring. • See "Connecting to the DMX512 Network" on page 15 for more information.
Fixtures not matching color	Fixture are given the same DMX command, but colors Do not match.	• Turn off color calibration. Note, units will not match if some are set to calibration on and some to calibration off. Check RDM Settings on Page 15
Fixtures are dimming at Different rates	Fixture are given the same DMX command, but dimming rates are different.	• Make sure all units are set to the same dimming curve. See "Dimming Curves" with RDM Settings • Make sure all units have the same dimming setting.

Specifications

Specifications

LED Source

LED Engine	12X20 Watt RGBL
Max Power Consumption	222 Watts
Rated LED Life:	Arrays are rated for >50,000 to L70
PWM (Pulse Width Modulation)	600hz to 25khz
Strobe	0-30HZ

Color

Color Used	RGBL, 3K, 5K Tuneable White (3K to 5K)
Color Temperature Range	2700K to 10000K
Dimming Curves	Linear, Incandescent and Standard
Tungsten Dimming Simulation	Off to 2500W
Color Calibration	Yes (On and Off Setting)

Optical

Zoom Range	Wash Mode: 6.5° to 32° Spot Mode: 8° to 50°
Aperture Size	7 1/2"
Zoom Lock	Patented Zoom Lock

Control and Programming

Input Connections	DMX512 via 5-pin XLR connector / Hardware via Terminal Block / Wireless
Protocols	DMX512/RDM
Modes	16bit Direct (15 DMX Channels) 16bit CMY (13 DMX Channels) 8bit Direct (10 DMX Channels) 8bit CMY (9 DMX Channels) RGB (5 DMX Channels) HSIC (10 DMX Channels) Compact Mode (6 DMX Channels) Compact with Zoom (7 DMX Channels)
RDM Configuration	Yes
User Interface	No Local UI. Configure the fixture via RDM
Presets	60 Preset Colors

Electrical

Voltage Range	100-240 VAC, 50/60 Hz
Input Connection	Neutrik Power Con / Terminal Block Connection
Current Inrush	At 120 VAC, 50A (1/2 cycle) @25°C At 240 VAC, 40A (1/2 cycle) @25°C
Current Draw	1.67A @ 120VAC; 0.87A @ 230VAC
Power Factor	≥ 0.95
Quiescent Load:	6.05 Watts

Thermal

Ambient Operating Temp	0°–40° C (32°–104° F)
Fan	Convection Cooled
dB	N/A
BTUs/Hour	682.4 BTU Per Hour (Full Intensity)

Construction

Materials	Corrosion-resistant materials and hardware
Color Options	Black, White or Custom
Mounting	Pendant, Aircraft, Yoke, Wall
IP Rating	IP20
Weight	15.20lbs (6.89kg)
Size	13.25in (335.5mm), 8.12in (207mm)

Warranty

Fixture	5 Years and 1 Day.
Support	Forever the life of the Product

Compliance

Compliance Marks	cETLus listed CE marked
Country of Origin	Assembled in the USA

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