Parabolix Omni™

## LED lighting designed for light shaping.

The Parabolix Omni™ is an ultra-bright, omni-directional LED light, ideal for soft-light modifiers like parabolic, softboxes, lanterns, and other soft light shapers. The Omni allows users to shoot video and stills using the same light shapers and light quality they love - no need for separate setups for stills and video. This saves valuable time without sacrificing quality of light. The Omni gives a tremendous light output that takes full advantage of soft light modifiers, illuminating the entire modifier evenly back-to-front, which creates a rich quality of light that no other LED light can achieve. Because of this design, the light output is incredibly smooth and even - in most cases no diffusion is necessary to create the perfect soft beauty light. As a result, the light output per watt is far greater than any other LED light on the market. In fact, using a Parabolix® or other parabolic modifier, the light output is 1.5X brighter than a single color 300W COB LED, and 1.9X brighter than a 600W RGB panel.

Due to our patent-pending design, the Parabolix Omni™ can be mounted both *indirectly* shooting into the modifier (mounted onto a either a focusing tube or a separate stand), or *directly* onto a light modifier using a speedring. The Omni lamp head is perfectly integrated into the Parabolix indirect Light Focusing System (as well as other indirect para systems), with the mounting structure built directly into the lamp itself - no need for any additional mounting cages or adapters that other lamps require.

Designed and manufactured in California, using domestic and international components, the Parabolix Omni™ is a game-changing product that finally gives photographers and videographers the light-shaping control they have been waiting for. Other features include flicker-free analog dimming, Wifi 2.4Ghz control via mobile app, DMX 512 In and Thru connectivity, and USB-A port for firmware updates.
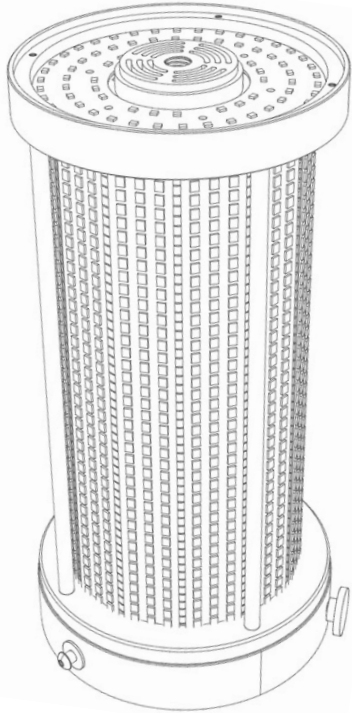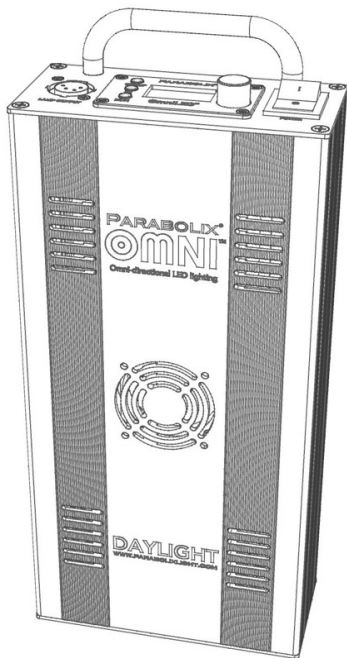
Parabolix Omni™
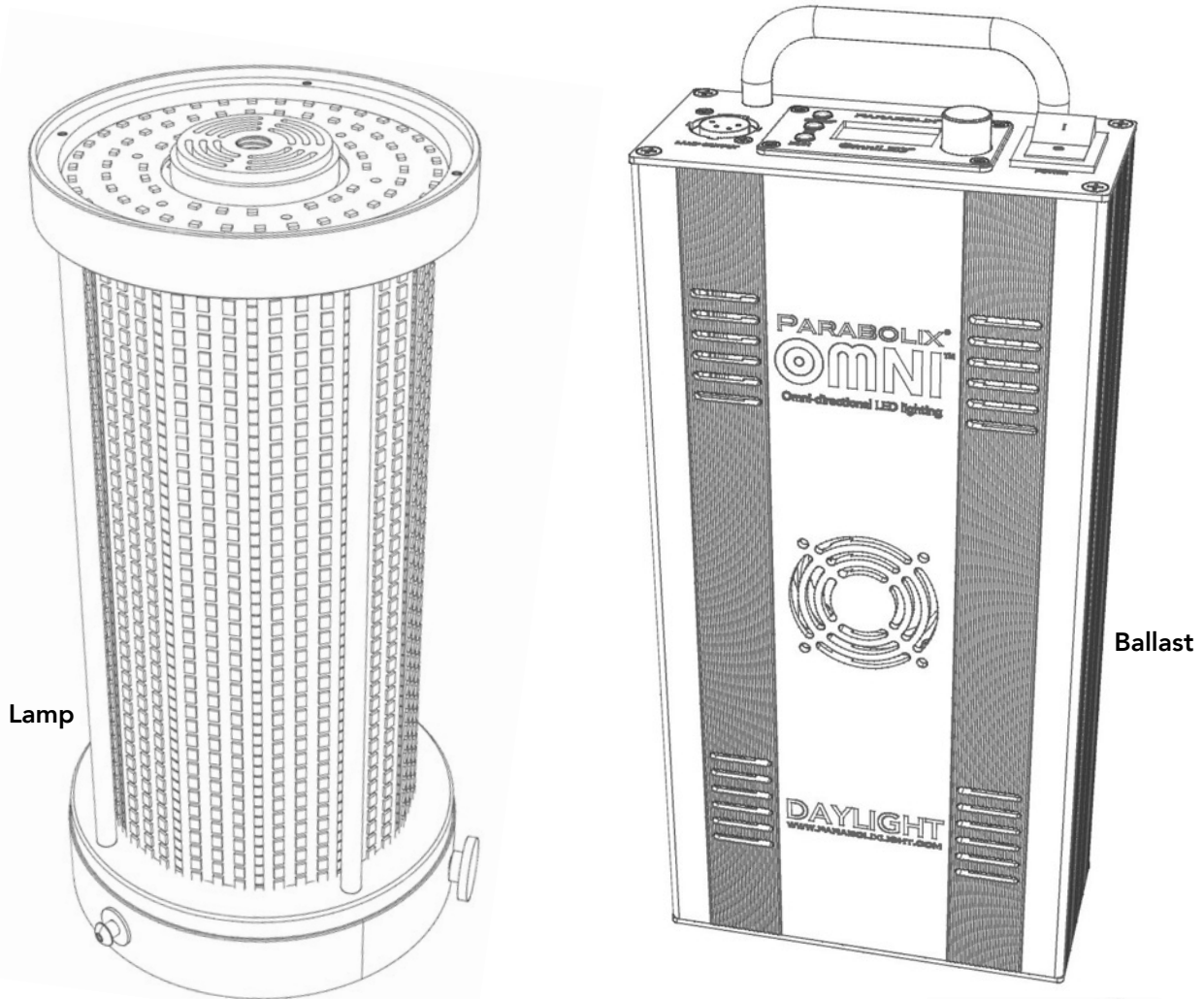
Lamp

Ballast
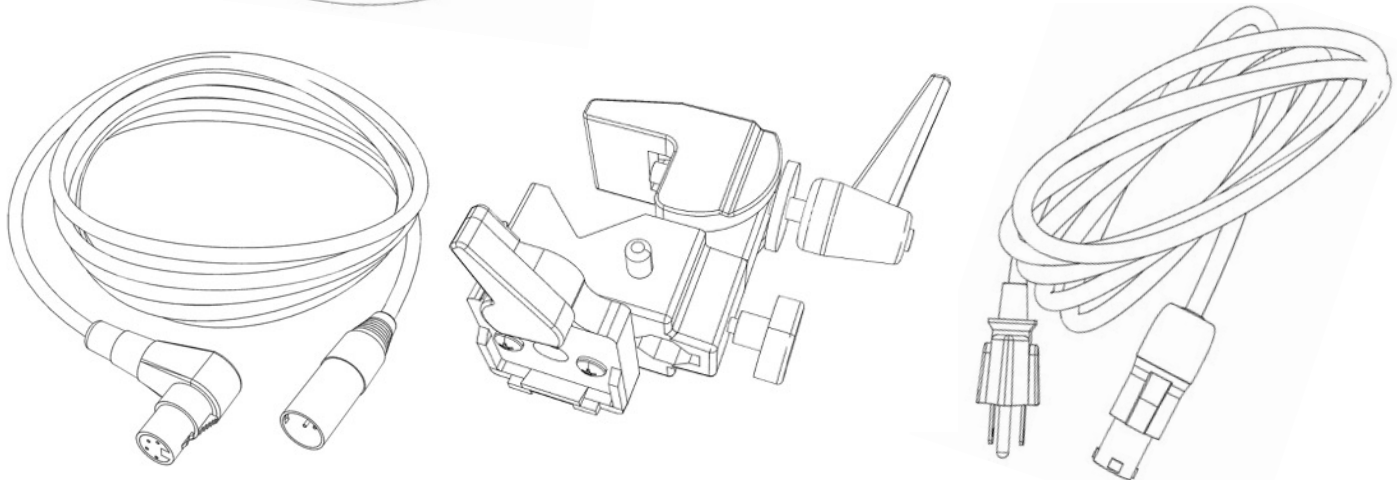
Lamp Cable

Omni Super Clamp

Power Cable

Omni™

Technical Specifications

Lamp

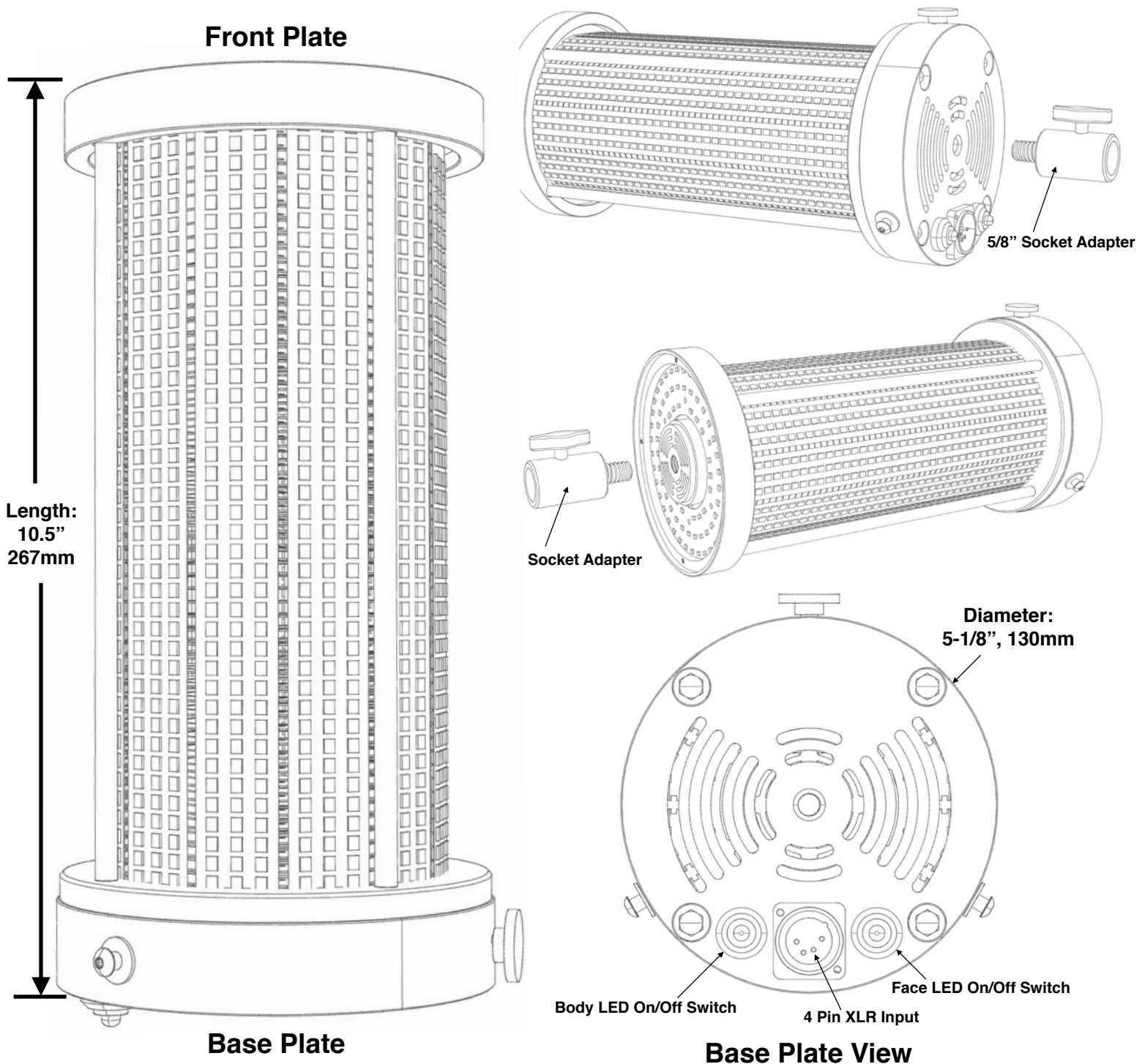**Ballast**

Omni Lamp	
Optical System	Omni-direcitonal LED lamp
Beam Spread	360 degrees continuous
Weight	3.6 lbs / 1.6 kg
Dimensions	Length 10.5" (267mm), Diameter 5.125" (130mm)
Mounting	5/8" / 16mm socket adapter
Lamphead Voltage Input	42 V DC LED, 12 V DC Fans
Lamphead Power Connection	Male 4-Pin XLR (Pin 1: Negative 42V / Pin 2: Positive 42V / Pin 3: Negative 12V / Pin 4: Positive 12V)
Color Temperature	5500K
Color Rendition	CRI Average > 96, TLCI Average > 96, RA > 96
Dimming	0 to 100% Continuous
Ambient Temperature Operation	-20 to 45º C (-4 to +113º F)
Estimated LED Lifetime	50,000 hours

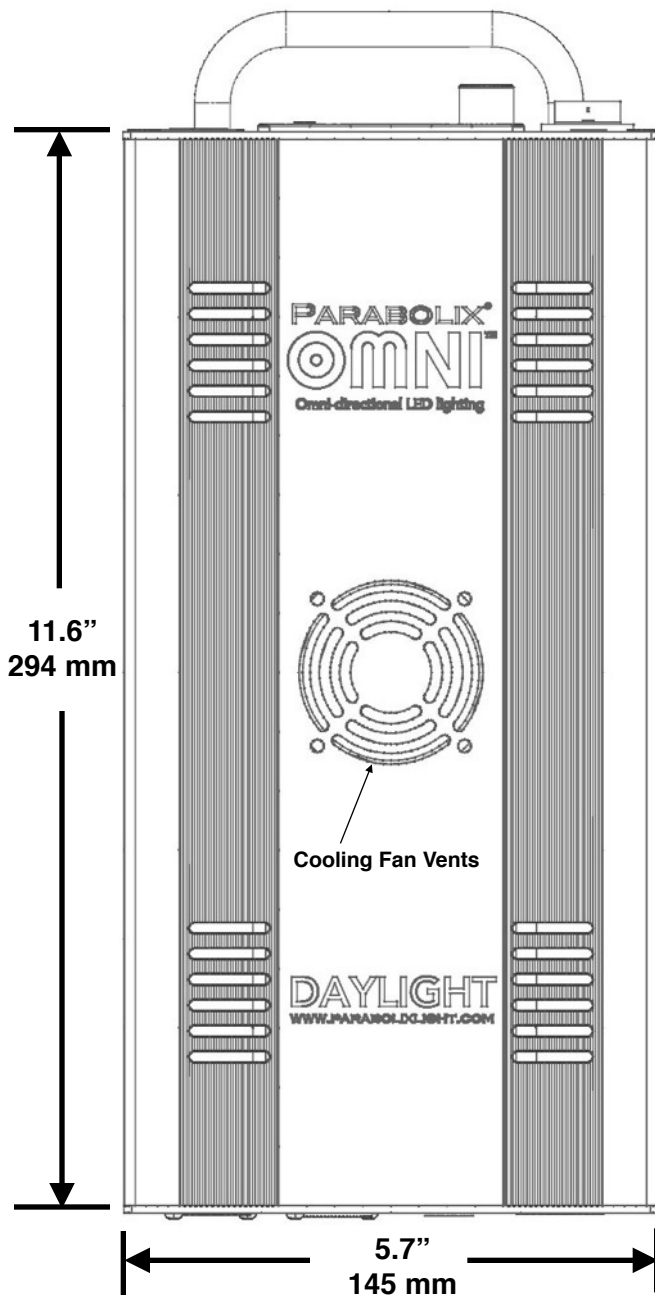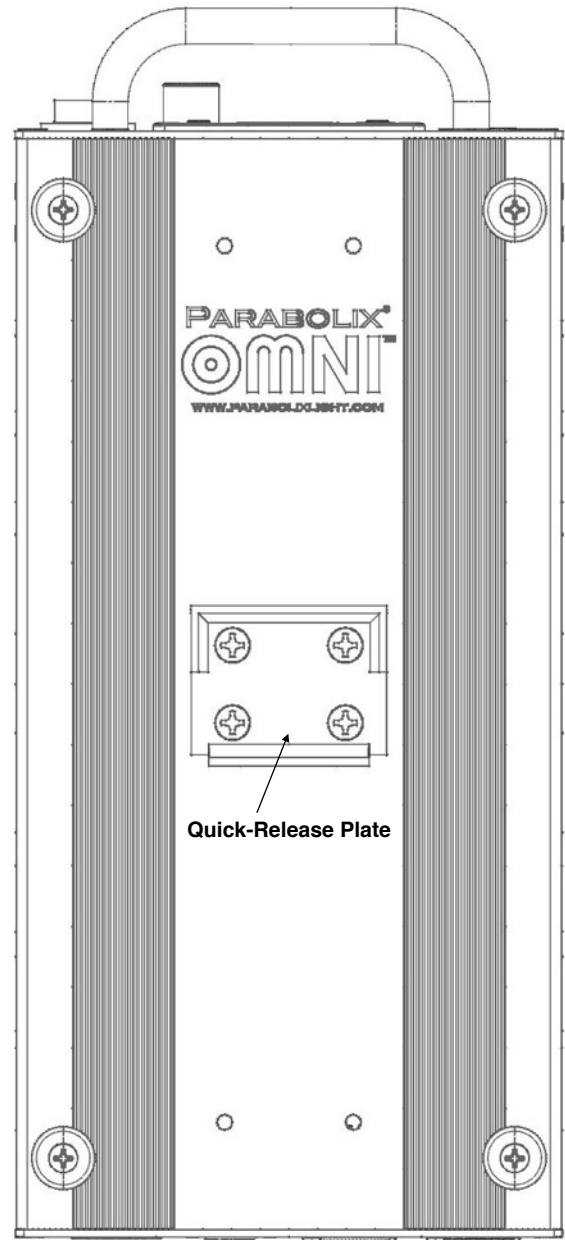| Omni Ballast	
Power Supply Input Voltage	100 to 240 V~, 50/60Hz
Power Supply Output Voltage	42V DC, 12 V DC
Power Supply Output Current	0 - 5.72A
AC Power Input Connection	Neutrik NAC3FX-W
Power Output Connection	Female 4-Pin XLR (Pin 1: Negative 42V / Pin 2: Positive 42V / Pin 3: Negative 12V / Pin 4: Positive 12V)
Weight	5.8 lbs / 2.6 kg
Dimensions	5.7 x 11.6 x 2.7" / 145 x 294 x 68 mm
Control	On-Board Controller, 0-100% Dimming, 5-Pin DMX In and Through, USB-A, On-Board On-Off Switch
Mounting	Omni Super Clamp Adapter
Remote Device Management (RDM)	DMX 512, Wifi 2.4 GHz control
Software Interface	USB-A: Firmware Upgrade through PC, Mac

Omni™ Overview - Lamp

3.6 lbs / 1.6 kg

Front Plate

5/8" Socket Adapter

Socket Adapter

**Length:
10.5"
267mm**

**Diameter:
5-1/8", 130mm**

Base Plate

Body LED On/Off Switch

4 Pin XLR Input

Face LED On/Off Switch

Base Plate View

Omni™ Overview - Ballast Dimensions

5.8 lbs / 2.6 kg

Front View

Back View

11.6"
294 mm

5.7"
145 mm

Cooling Fan Vents

Quick-Release Plate

Omni™ Overview - Ballast Controls

Top View

2.7"
68 mm

GROUP

FX

DMX

PARABOLIX®

OmniLED™

SETTINGS

LAMP OUTPUT

POWER

I O

Lamp Cable Connector   **Control Panel & Display**   **Power ON/OFF Switch**

5.7"
145 mm

DMX 512 Connectors

USB type A Connector
for Firmware updates

USB-A

DMX IN   DMX THRU   AC INPUT
100-240V~, 50/60Hz
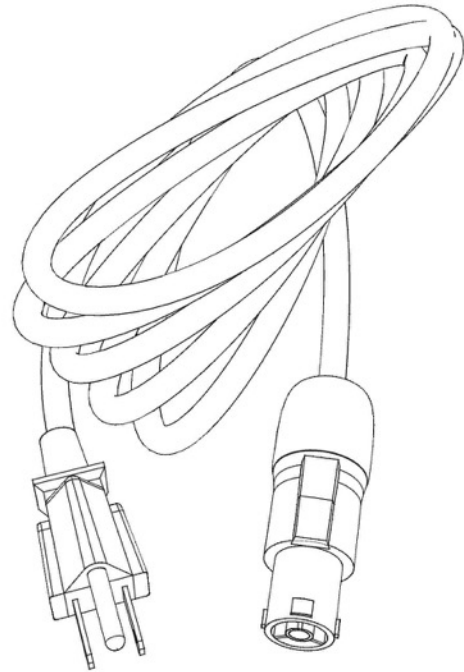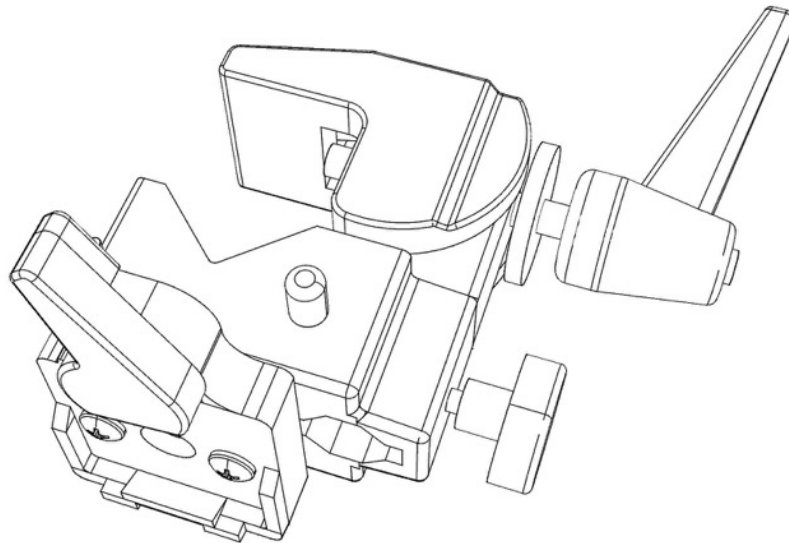
Bottom View   **AC Power Cable Connector**
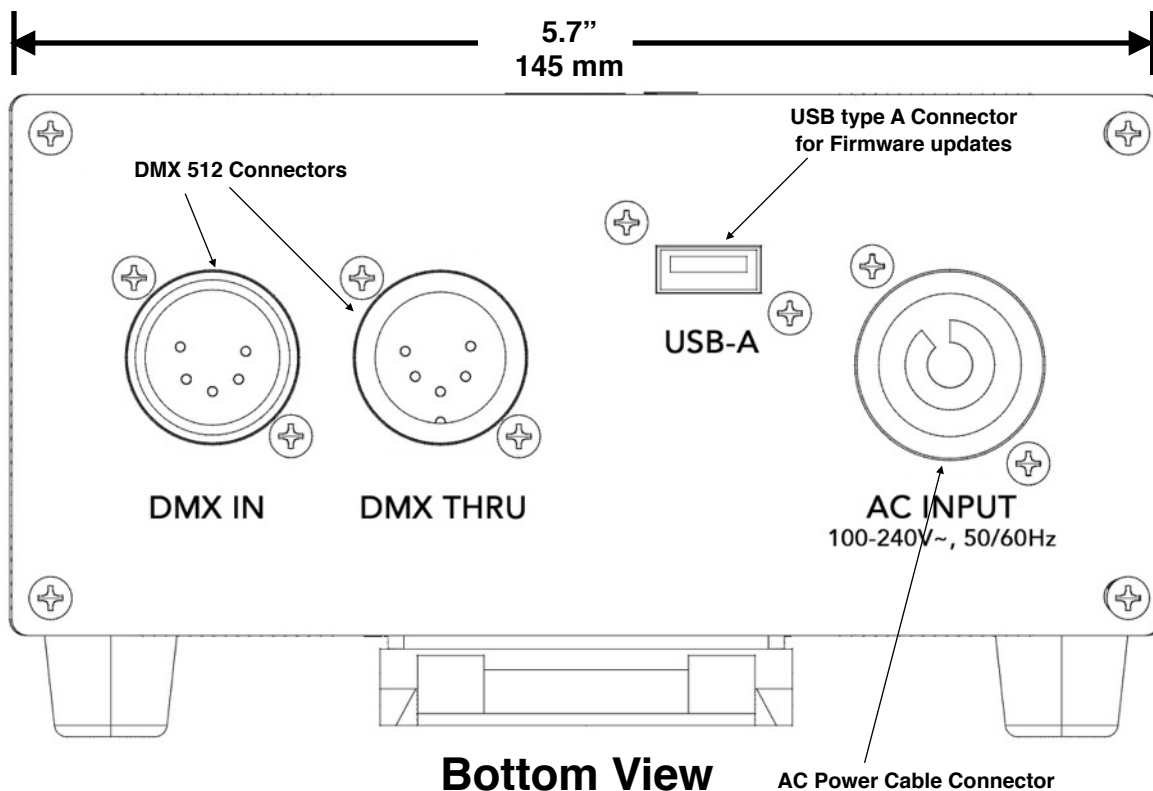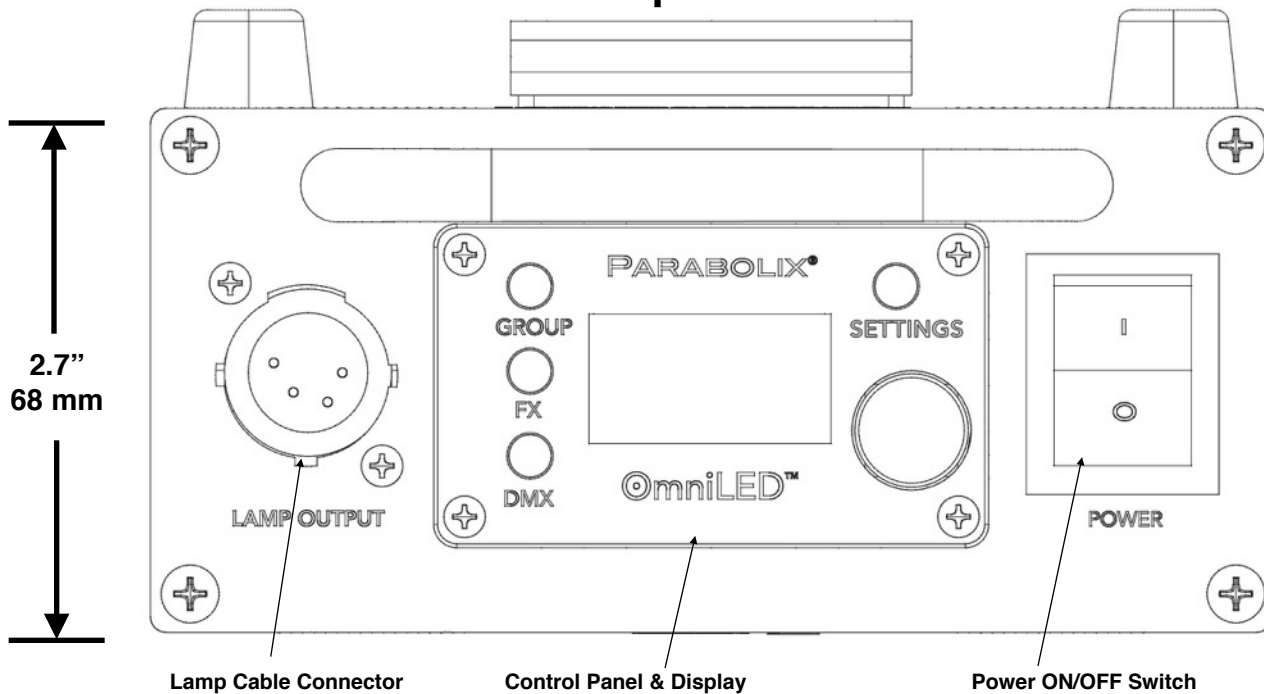
Omni™ Overview - Power Cables
& Super Clamp Adapter

Omni Lamp Cable
Ballast- to-Lamp
4-Pin XLR, 18 AWG wire, 10 ft.

Omni Power Cable
AC Mains-to-Ballast
18 AWG wire, 10 ft.

Omni Super Clamp Adapter
1.2 lbs./0.5 kg

Overview - Weatherproof Hardshell Case

Constructed from extremely durable polypropylene, this professional quality hardshell case is built strong to protect the lamp from from impact, moisture and microscopic dust. The built-in purge valve equalizes pressure so you can open the case after changing elevations.

IP65 Rated - watertight and dustproof
Strong, secure, easy-open latches
Adjustable pressure relief valve equalizes pressure for easy opening
Pre-drilled for two padlocks (locks not included)
Super strong reinforced polypropylene construction
Interior dimensions: 17-7/8 in. x 12-7/8 in. x 6-1/8 in. (45.4 cm x 32.7 cm x 15.6 cm)
Exterior Dimensions: **20-5/16 in. x 15-1/2 in. x 7-3/8 in. (51.6 cm x 39.4 cm x 18.7 cm)**
Weight: 9.75 lbs. (4.4 kg)
CALIFORNIA PROP65 WARNING. This product can expose you to chemicals including Di(2-ethylhexyl)phthalate ("DEHP"), which is known to the State of California to cause cancer and birth defects or other reproductive harm.

Omni™

Compliance Notes:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: **(1)** This device may not cause harmful interference, and **(2)** this device must accept any interference received, including interference that may cause undesired operation.

FC IC ⬦PS E KC CE RoHS

What's in the Box:

1) Hardshell IP65 Case
2) Omni Lamp Head
3) Omni Ballast
4) 5/8" Socket Adapter
5) Power Cable
6) Lamp Cable
7) Omni Super Clamp Adapter

Total Weight: 21.2 lbs / 9.6 kg

General Safety and Warnings:

- Use only original Omni Power and Lamp Cables supplied by Parabolix®.

- Use in dry environment only.

- Ballast and Lamp may become warm or hot during use. The lamp and/or ballast can be hand-held when at full power, but it is recommended to use gloves for precaution.

- Always observe all common and local safety regulations.

- Caution - High Intensity Lamp: Do not look directly into active lamp when in use.

- Do not cover any ventilation slots on the Lamp or Ballast. Proper airflow is necessary for effective cooling.

- Never insert any objects into ventilation slots on Lamp or Ballast. Doing so may cause electric shock.

- When mounting the Ballast using the supplied Omni Super Clamp Adapter, make sure the latch is closed completely and the safety pin is engaged on the Super Clamp Adapter.

- Do not open or disassemble the Ballast or Lamp under any conditions. Doing so invalidates the warranty and may cause physical harm. For safe operation, Ballast and Lamp must be completely closed at all times.

- The Omni is intended for professional use and may only be operated by qualified persons.

- Always inspect the Ballast and Ballast connectors, Lamp Head, Lamp and Power cables, and Super Clamp Adapter prior to use for damage. Do not operate if any components are damaged. Contact Parabolix Lighting if any repairs are needed or for further technical assistance.

PARABOLIX®

Basic Functions:

Mounting the Ballast

The Omni Ballast is equipped with a **Quick-Release Plate** on the back side, that locks into the supplied **Omni Super Clamp Adapter** for mounting onto lighting stands and other structures. To mount the Ballast this way, lock the quick-release plate into the Omni Super Clamp Adapter. **Push down on the Latch** of the Super Clamp Adapter to ensure the plate is completely secure, and **engage the Safety Pin for precaution**. Failure to do this can result in less secure mounting that could cause the Ballast to fall and damage. To remove the Ballast from the quick-release plate, disengage the safety pin, and pull up on the latch.

Quick-Release Plate
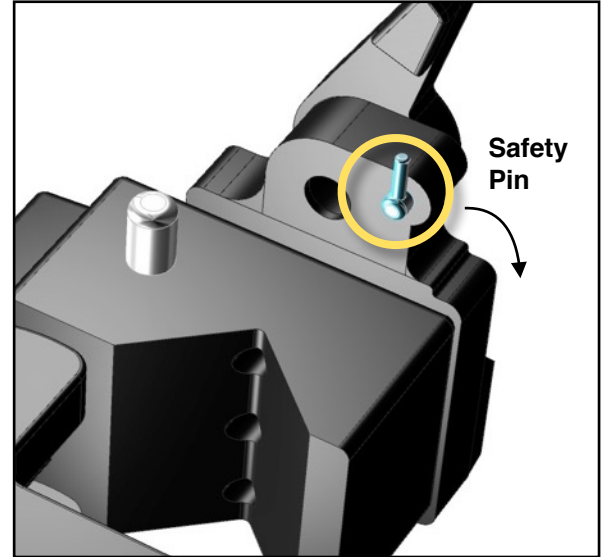
Omni Super Clamp Adapter
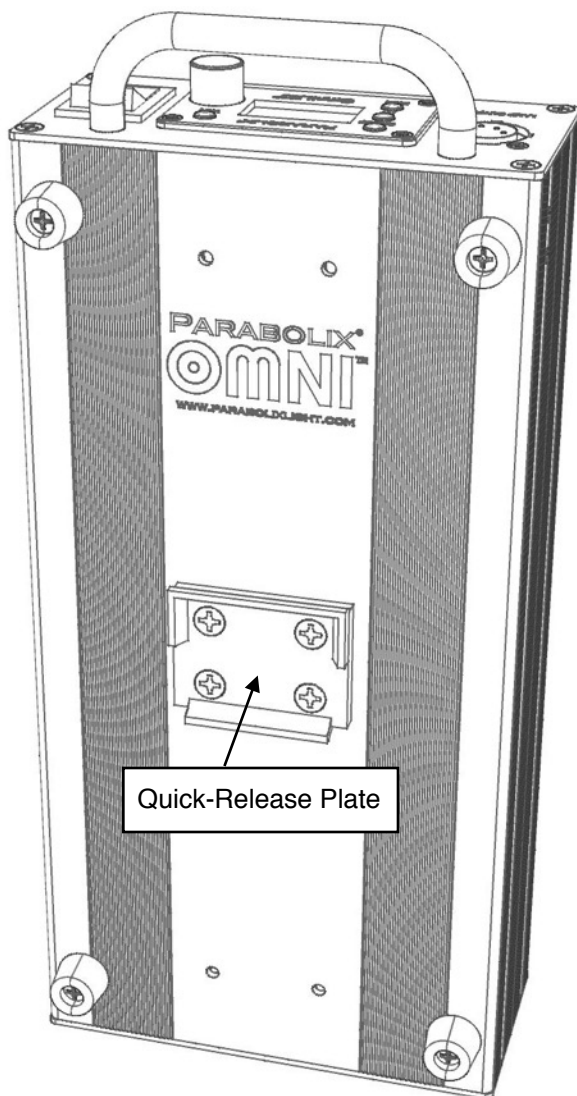
Basic Functions:

Mounting the Ballast - Omni Super Clamp Adapter

Latch
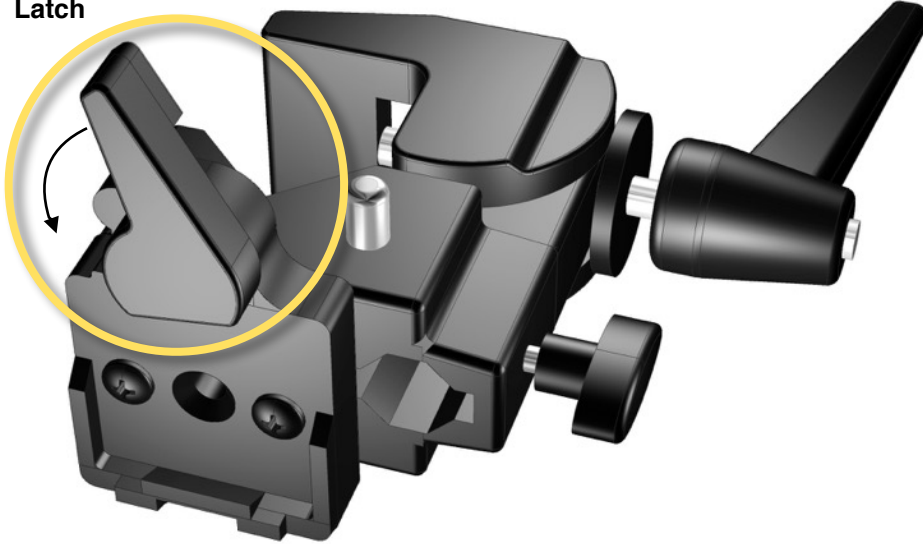
1) Push down on the LATCH to secure the mounting connection.

Safety Pin

2) Push the SAFETY PIN all the way down.

Mounting the Ballast - Paracord Handle

The Ballast can also be mounted using the supplied **Paracord Handle**. This can be useful for hanging the Ballast onto irregular structures or objects with handles or mounting pins.


Paracord Handle

Mounting the Lamp - Overview

The **patent-pending design** of the Omni Lamp allows the user to mount the Omni Lamp either indirectly, from the Front Plate, or directly, from the Base Plate. In this sense, the Omni is a true "reversible" lamp, meaning it can be mounted from either side. The Omni includes a universal **5/8" (16mm) Socket to 3/8" Threading Adapter** which can be screwed in and attached to either side of the Omni Lamp for mounting. This is an industry standard size, and can be attached to any Baby Pin, Focusing Tube, Baby Stand, C-Stand arm, 5/8" (16mm) pin, etc. for mounting.

1) For Indirect Mounting onto a Para or indirect modifier:
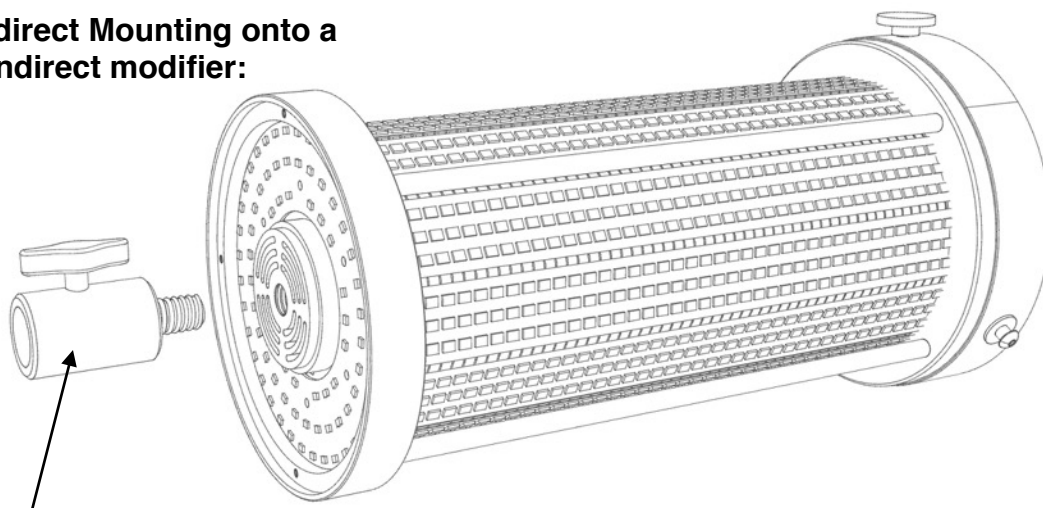
5/8" Socket Adapter mounting to the Front Plate of the Lamp.

## 2) For Direct Mounting onto a Lantern or standard Softbox:
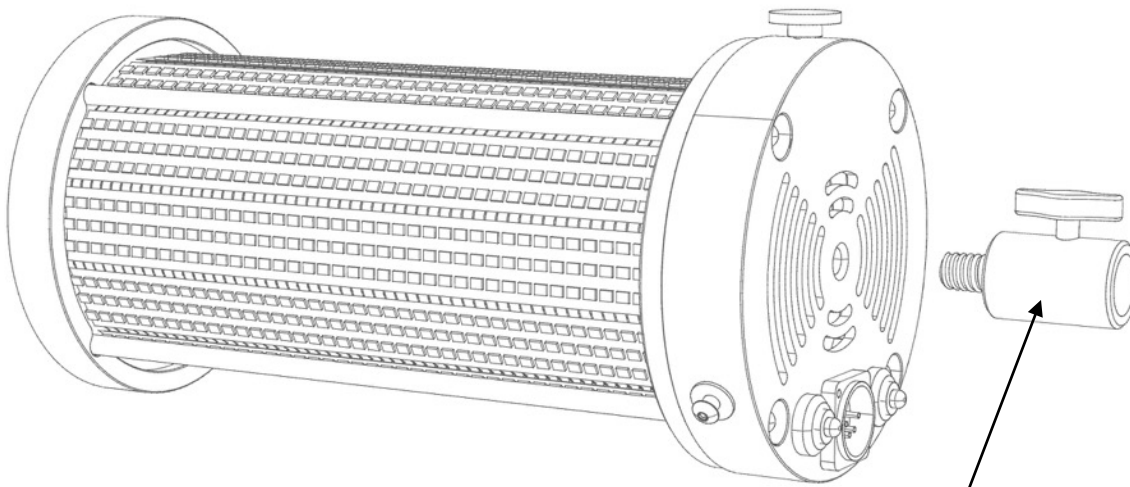
5/8" Socket Adapter mounting to the Base Plate of the Lamp.

When mounting directly onto a Lantern or Softbox modifier, an Adapter Ring is necessary to attach the Lamp to the speedring of the modifier. Parabolix makes two adapter ring sizes: 144mm (5-11/16"), and 152mm (6"). This measurement refers to the Outer Diameter of the adapter ring. Smaller modifiers like Lanterns often use 144mm ring sizes, whereas larger modifiers like Softboxes typically require a 152mm ring. Check your specific brand and model of modifier to find out which adapter ring size you need. Adapter rings can be purchased separately from the Parabolix online store, starting in April 2022.
Note: Some Lanterns require an even smaller 139mm ring attachment size - this will not work with the Omni as it is too small for the Lamp diameter. Always make sure to check your brand of modifier to verify the speedring adapter size.
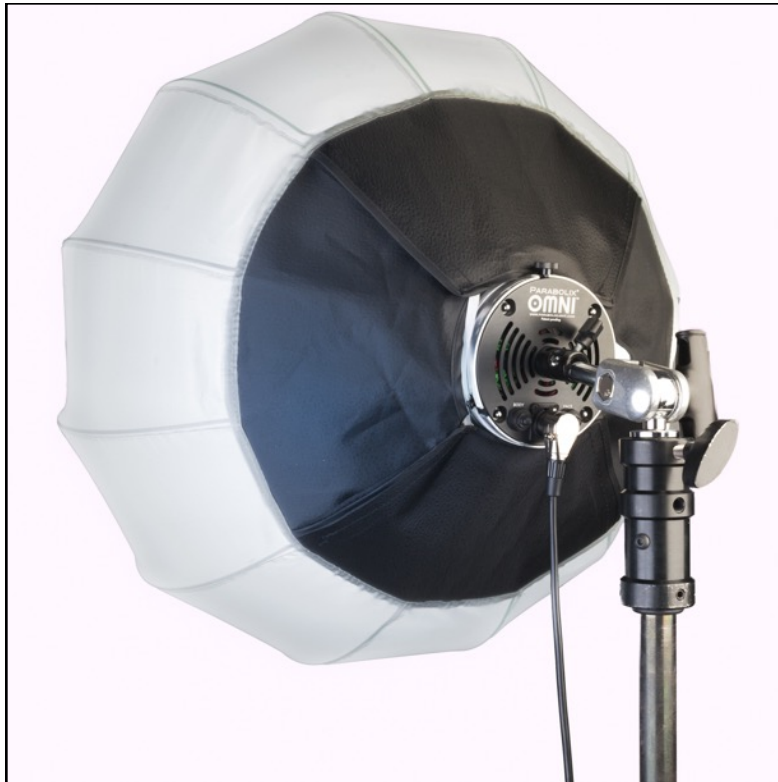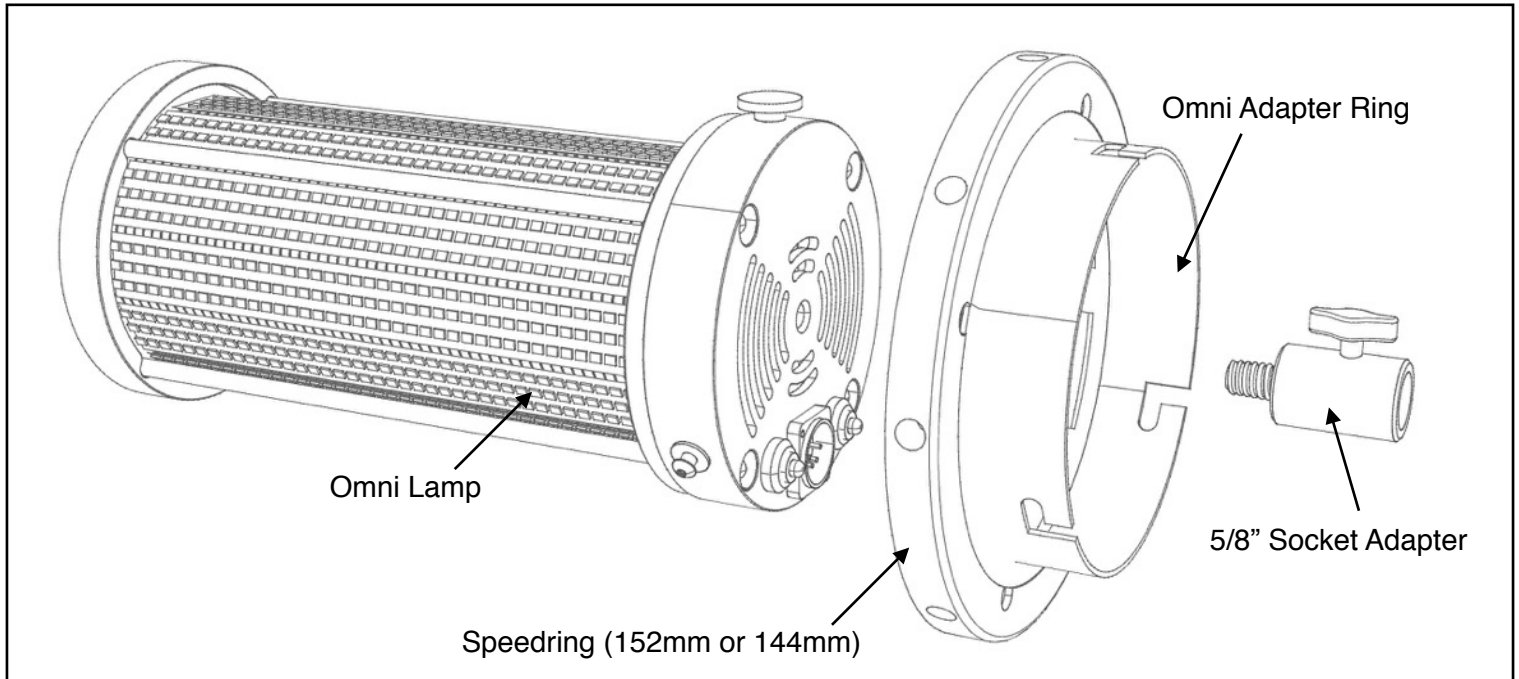
Mounting the Lamp

Indirect Mounting Diagram

5/8" Socket Adapter

3/8" Threading

Focus Tube with standard 5/8" Baby Pin
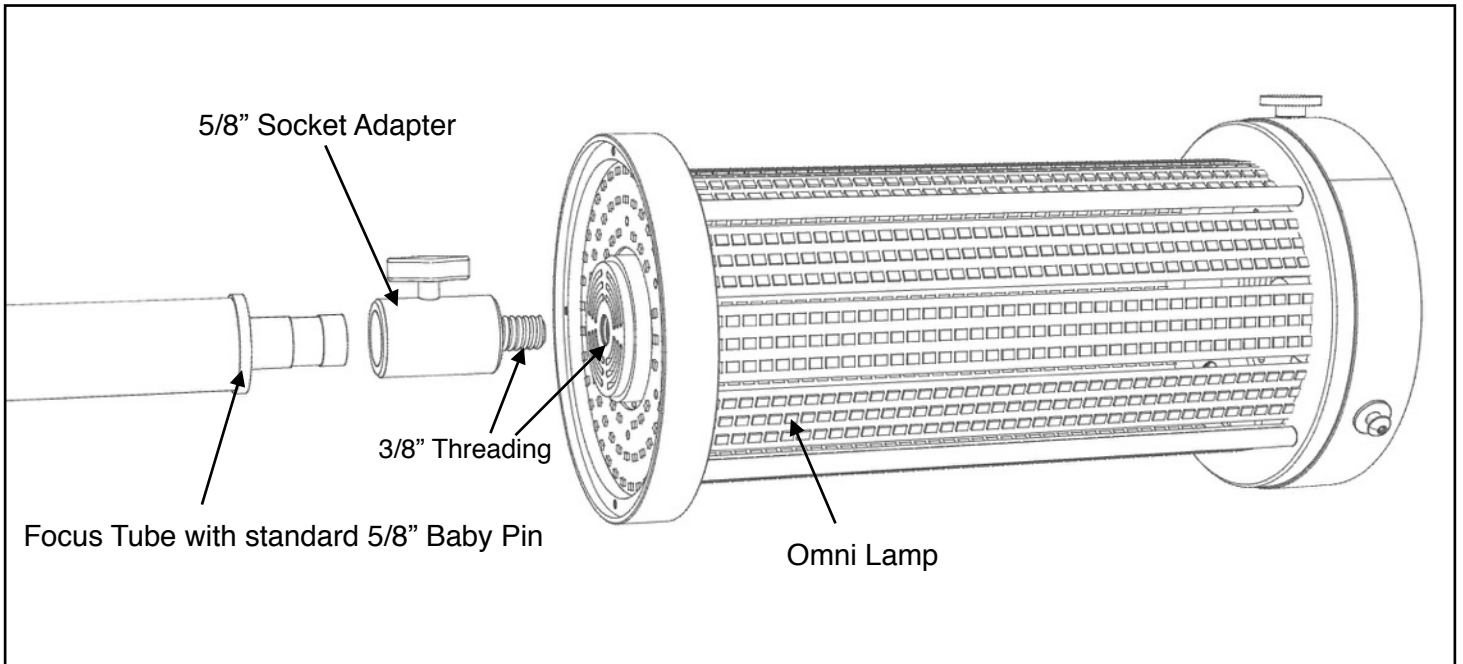
Omni Lamp

Omni™ lamp mounted indirectly in a Parabolix® 55" reflector.

Mounting the Lamp

Direct Mounting Diagram

Omni Adapter Ring

Omni Lamp
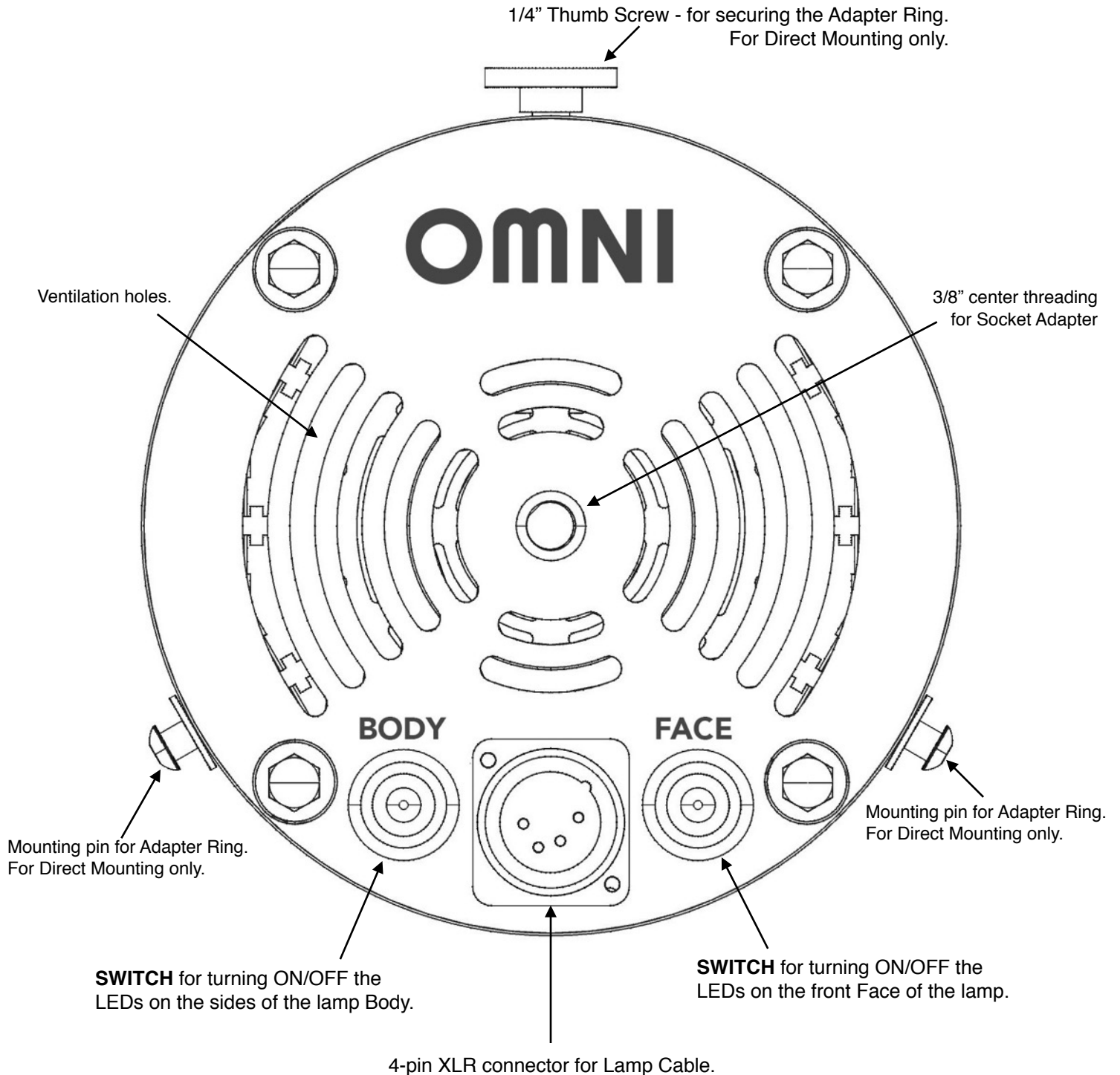
5/8" Socket Adapter

Speedring (152mm or 144mm)

Omni Lamp mounted directly in a lantern modifier using a 144mm speedring.

Omni Lamp mounted directly in a softbox modifier using a 152mm speedring.

OMNI Lamp: Base Plate Diagram

1/4" Thumb Screw - for securing the Adapter Ring.
For Direct Mounting only.

Ventilation holes.

3/8" center threading
for Socket Adapter

OMNI

Mounting pin for Adapter Ring.
For Direct Mounting only.

Mounting pin for Adapter Ring.
For Direct Mounting only.

BODY

FACE

SWITCH for turning ON/OFF the
LEDs on the sides of the lamp Body.

SWITCH for turning ON/OFF the
LEDs on the front Face of the lamp.
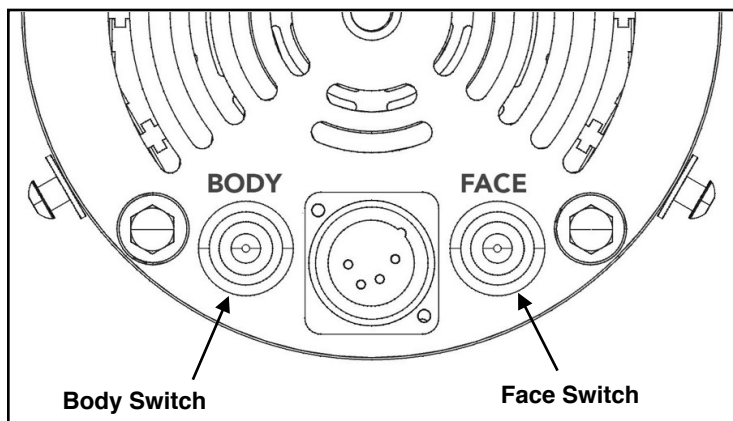
4-pin XLR connector for Lamp Cable.

OMNI Lamp: Body and Face Switches

The Omni Lamp is equipped with two switches located on the Base Plate, which allow the user to turn ON/OFF the LEDs on the **Body** of the Lamp (sides), or the LEDs on the front **Face** of the Lamp, separately. This could be useful when creating mood or effects lighting, where you only need one portion of the lamp active. Additionally, when using the Ballast FX, only that portion of the lamp turned ON will be active. See below for information on using FX Mode.
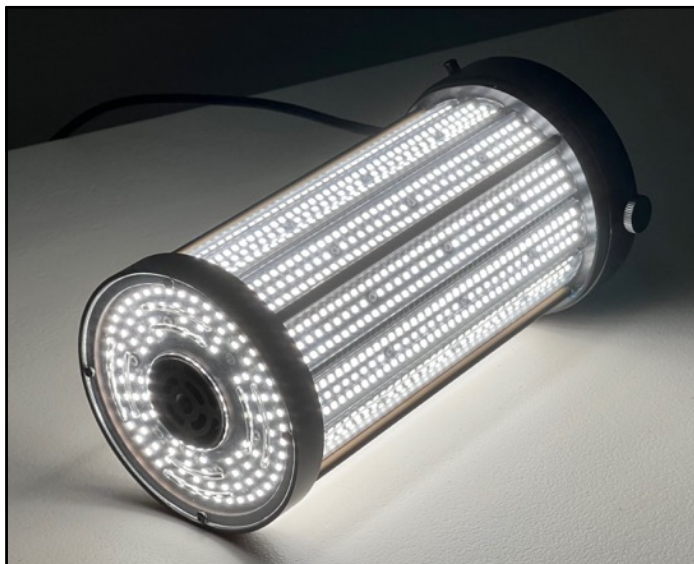
Omni Lamp shown with both Body and Face switches turned ON (default).

Omni Lamp shown with Body switch turned ON and Face switch turned OFF.
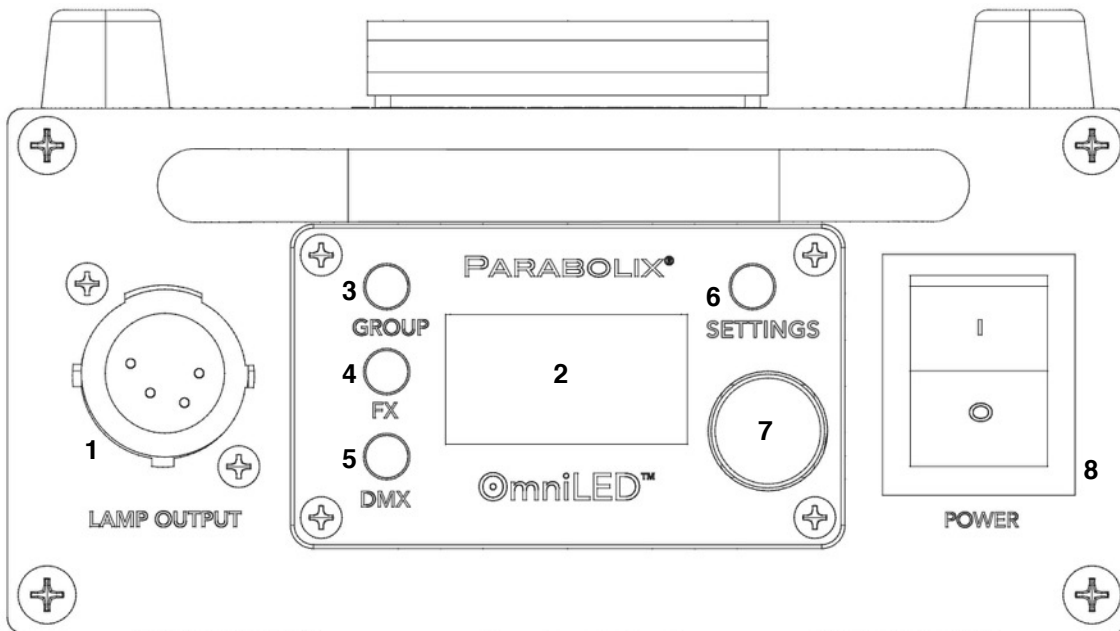

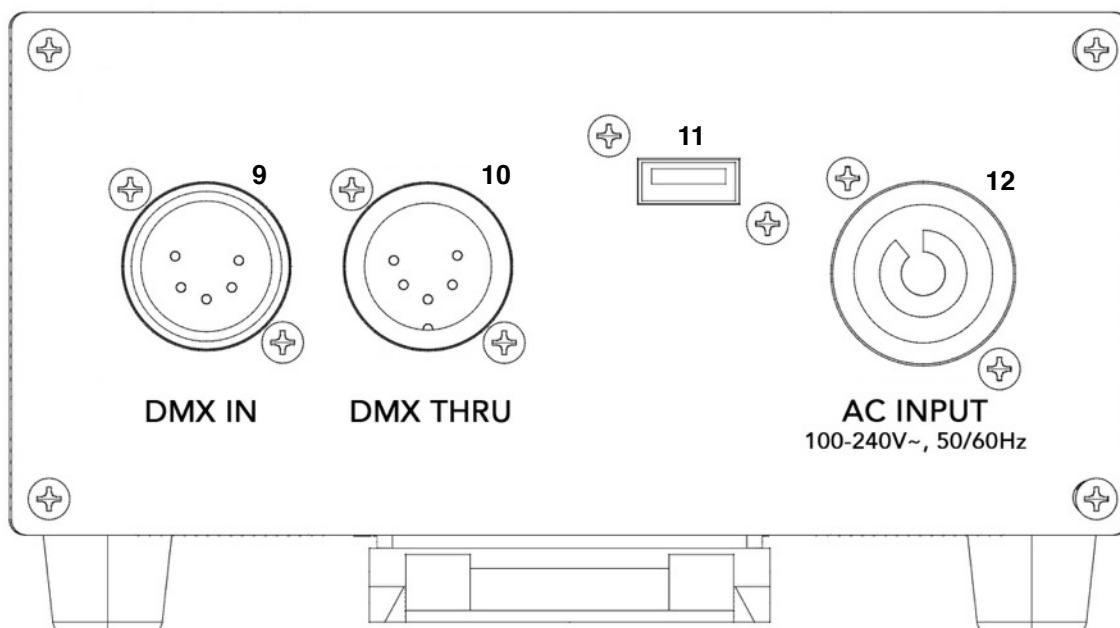Omni Lamp shown with Body switch turned OFF and Face switch turned ON.
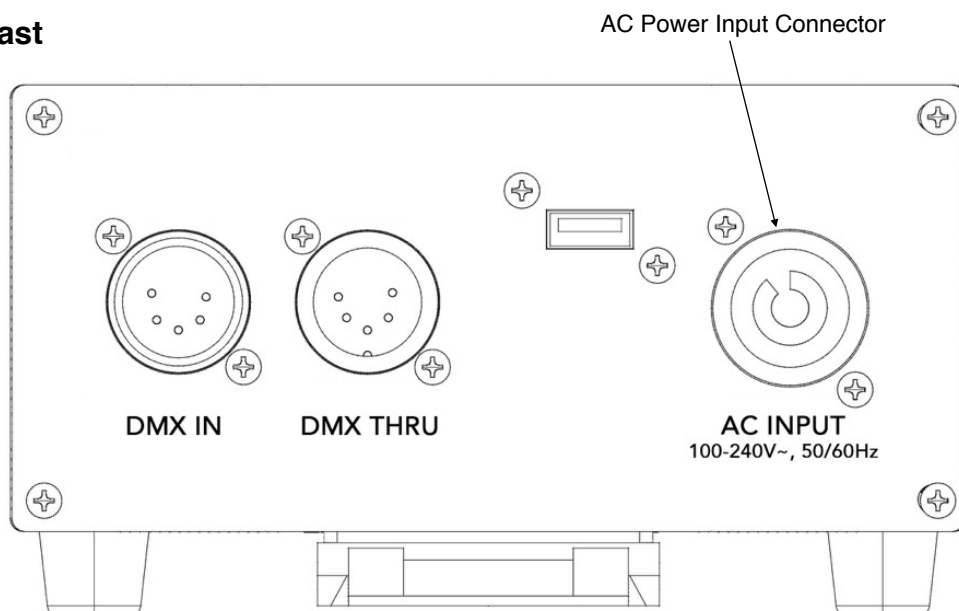
Omni Ballast

Description of Controls

Top View

1) 4-pin XLR Connector for Lamp Cable

2) OLED Display Screen

3) Group Button

4) FX Button

5) DMX Button

6) Settings Button

7) Control Knob

8) Power ON/OFF Switch

9) DMX Input Connector

10) DMX Thru Connector

11) USB type-A Input

12) AC Power Input Connector

Bottom View

Omni Ballast

Powering the Ballast

AC Power Input Connector

Use only the included Power Cable to power the Omni. The Omni Ballast accepts 100-240V, 50/60 Hz input worldwide, and can be used internationally using a simple grounded plug adapter (not provided). For safety, **always use a grounded adapter** when connecting the power cable to a non-US power outlet.

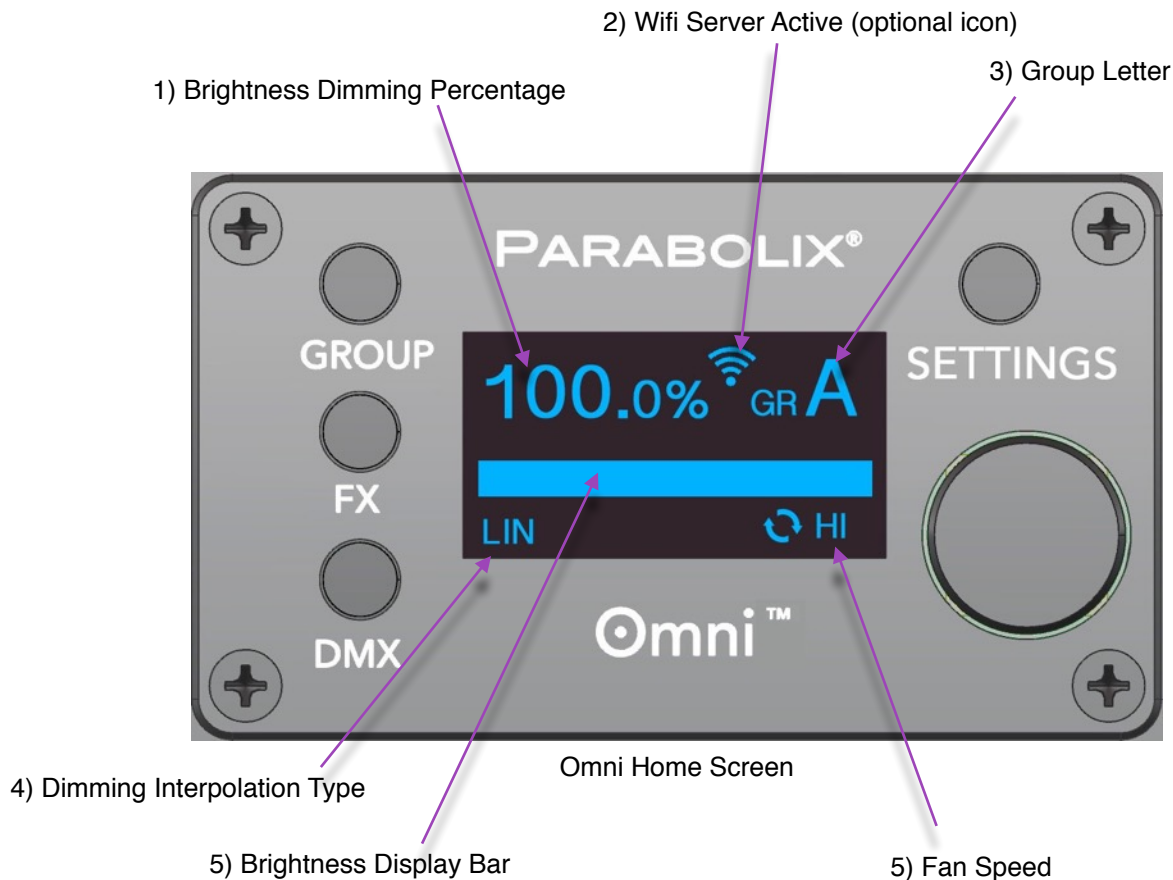Example of Grounded Plug Adapter for International Use
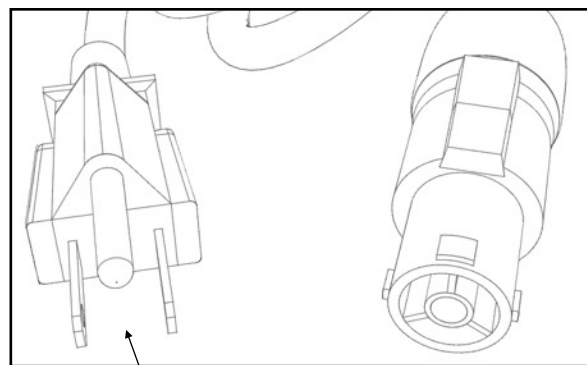
The included Power Cable contains a US standard AC plug.

USB type A Connector & Firmware Updates

The USB type-A connector on the bottom side of the Ballast is used for Firmware updates when connecting to a Mac or PC. This connector is an input only. It does not provide 5V output, and cannot be used to power any external device.

Controlling the Ballast

Home Screen Diagram:

2) Wifi Server Active (optional icon)

3) Group Letter

1) Brightness Dimming Percentage

PARABOLIX®

GROUP   100.0% 📶 GR A   SETTINGS

FX

LIN   🔄 HI

DMX   Omni™

Omni Home Screen

4) Dimming Interpolation Type

5) Brightness Display Bar

5) Fan Speed

1) **Brightness Dimming Percentage** - Shows the brightness percentage from 0-100.0%, in 0.1% increments. There are 1000 total dimming values. Dimming amount can be controlled via the Control Knob. See further instructions below.

2) **Wifi Server Icon** - This will appear when Wifi Server is active. When Wifi Client is active, the icon will change to ⚡. When no Wifi mode is active, the space will appear blank. See further instructions under the Settings Button below.

3) **Group Letter** - The Omni allows you to assign a Group Letter to the Ballast (A, B, C, D, E), then control each Group individually using the Mobile app from your phone or tablet. See further instructions below.

4) **Dimming Interpolation Type** - Choose between "Linear", "Exponential", "Logarithmic" and "S-Curve". Dimming Interpolation Type is changed inside the Settings menu. See further instructions under the Settings Button below.

5) **Brightness Display Bar** - Graphical bar that represents the dimming percentage.

6) **Fan Speed** - (Firmware v1.01 update) Shows the current Fan Speed setting (OFF, LOW, MED, HIGH). This can be changed in the main Settings menu (see instructions below).

Controlling the Ballast

DIMMING CONTROL:

**Brightness Dimming Percentage**
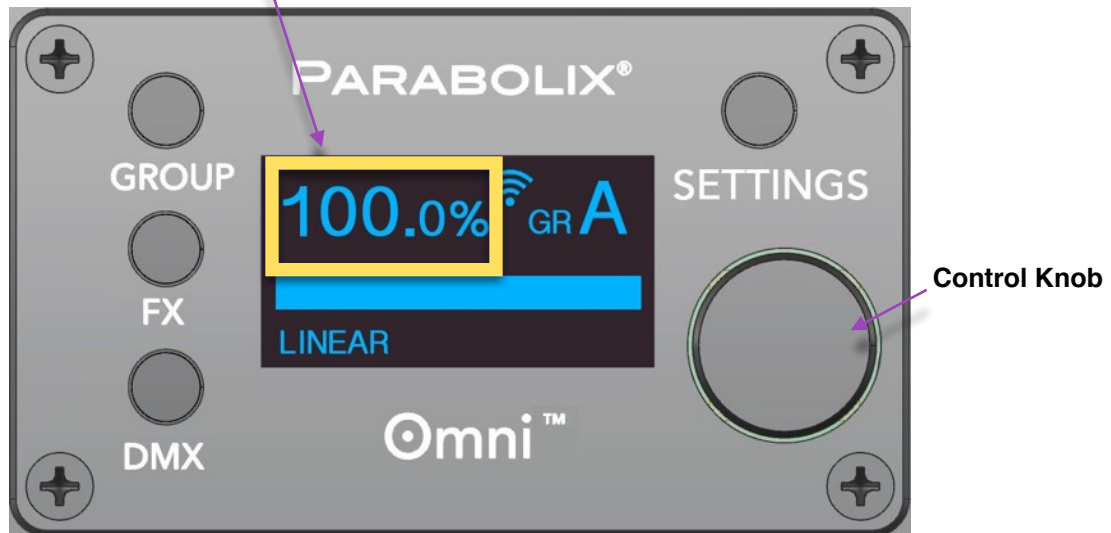
Control Knob

Use the **Control Knob** to control the dimming between 0-100.0%, in 0.1% increments. The Control Knob is speed sensitive, which means that faster turns change the dimming more quickly, and slower turns change the value more slowly. Pushing down on the Control Knob while turning will change the dimming will change the dimming more quickly, by 10% increments.

CHANGING THE GROUP:

Group Name

Group Button

Control Knob
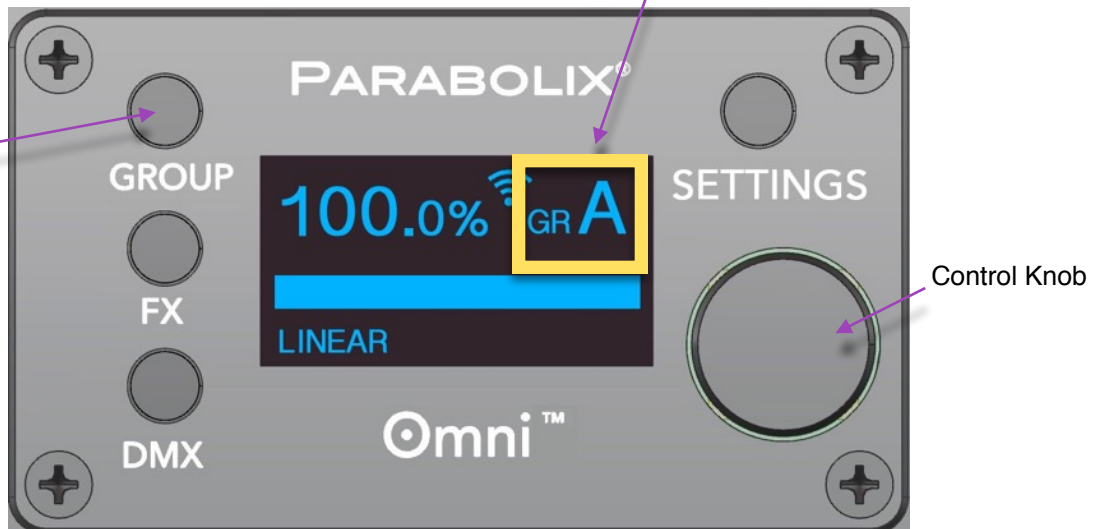
The **Group Name** works together with the Mobile App, when using Wifi to control the Ballast. Assigning the Ballast to a Group Letter allows you to control each group individually using the App. When controlling each Ballast manually, the Group Letter has no effect. To change the Group Letter, press the Group Button once. The Group Letter will start flashing on the display screen. Use the Control Knob to change the Group Letter. There are 5 available groups total, corresponding to letters A, B, C, D, E. When finished, press the Group Button again to set the Group Name.

Controlling the Ballast

FX MODE:

Click the Setting Button to customize the effect.

FX Main Menu Screen

Press down the Control Knob to Start/Stop FX.

FX Button

FX List:

1) BLINK
2) ALERT
3) RAMP DOWN
4) RAMP UP
5) PULSE
6) NOISE
7) WELDER
8) LIGHTNING
9) PAPARAZZI
10) EXPLOSION
11) FIREWORKS
12) MACHINE GUN
13) TV SET

The Omni comes with 13 customizable effects presets. To access FX Mode, press the FX Button once from the Home Screen. Turn the Control Knob to cycle through the FX menu list. Pressing down on the Control Knob while in FX Mode will start/stop the effects.

CUSTOMIZING THE EFFECTS:

When inside the FX Main Menu, pressing the Settings Button once will take you to a screen where you can customize the maximum Intensity and Speed Offset of the selected effect. Turn the Control Knob to change the Intensity between 0-100%. Press the Settings Button again to activate the Speed Offset control. Use the Control Knob to change the Speed Offset between -100 and 100. The default Speed Offset is zero, meaning no change in speed. The Control Knob also acts like a button, so pushing down on the Control Knob allows you to Start and Stop the effects.

FX Settings Screen

When you are finished customizing a given effect, press the FX Button again to return to the FX Main Menu. Any Intensity or Speed Offset changes will carry over if you select a new effect, so you many have to go into the Settings Screen for each effect you want to change. When you are finished with FX Mode, press the FX Button again from the FX Main Menu to return to the Omni Home Screen.

Controlling the Ballast

DMX 512 MODE:

DMX 512 Mode
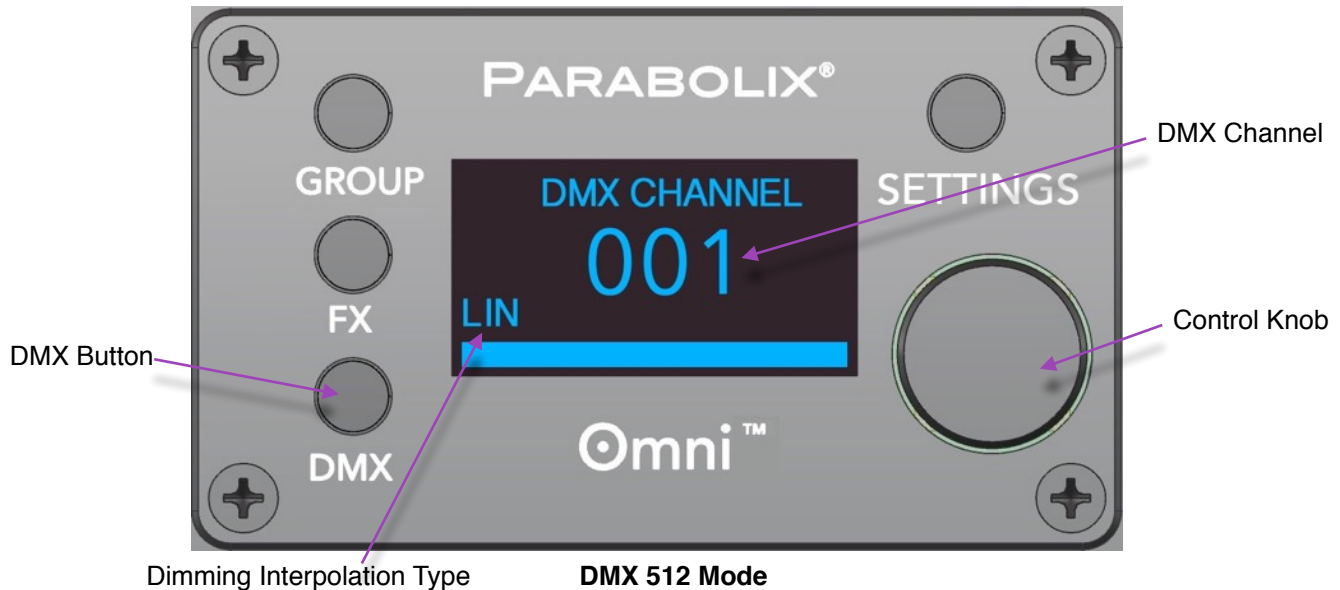
The Omni supports **DMX 512** protocol for controlling the light via a DMX 512 controller. To enter DMX Mode, press the DMX Button once from the Home Screen. Use the Control Knob to change the DMX Channel number. There are 1-512 possible channels. Pushing down on the Control Knob while turning will change the DMX Channel faster by 10-unit intervals. The Dimming Interpolation Type will show in the bottom left ("LIN", "EXP", "LOG", or "S-Crv"), and a Brightness Display Bar will show up at the bottom if DMX is being used. The Dimming Interpolation Type can be changed while inside DMX Mode, using the Settings Button. See below for instructions on changing the Dimming Interpolation Tyoe via the Settings Button. To exit DMX Mode, press the DMX Button again to return to the Omni Home Screen.

SETTINGS MENU:

Omni Settings Menu

From the Home Screen (or DMX Mode), press the Settings Button and you will have access to Omni Global Settings, including Wifi Control, Fan Speed Control, Dimming Interpolation Types, and the About Section. Turn the Control Knob to scroll through the menu, and push down on the Control Knob to select one of the Settings. Clicking on the Settings Button again will return you up to the Home Screen.

Controlling the Ballast

SETTINGS MENU: WIFI
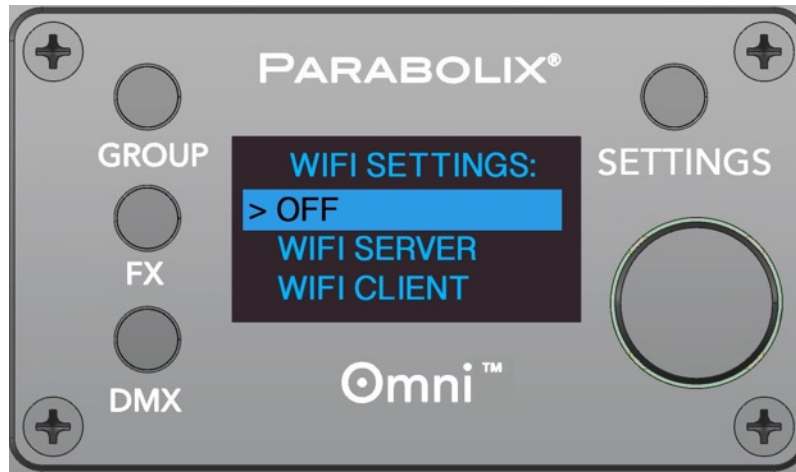
Omni Wifi Menu

The Omni can create a local Wifi 2.4Ghz Server that can be used to control the light using a smartphone or tablet. In addition, multiple Omni lights can be linked together as Wifi Clients, and they all can be controlled using using the same phone or tablet. **Note:** One light must be assigned as the **WIFI SERVER**, and all other lights must be assigned as **WIFI CLIENT**. The light assigned as WIFI SERVER will be the light receiving communication from the phone or tablet. This light will then communicate to any other lights assigned as WIFI CLIENT. Use the Control Knob to scroll through the menu, then press down on the Control Knob to select either WIFI SERVER or WIFI CLIENT. An arrow ("**>**") will appear next to the item chosen. When finished, click the Settings Button again to go back to the Settings Main Menu. **Note: Only one light can be assigned as WIFI SERVER.** If you choose the wrong Wifi setting by mistake, it is recommended to first select OFF, wait 10 seconds, then select the correct Wifi option. This will reset the Wifi inside the Ballast.


Wifi Server Active

Wifi Client Active

A new icon will now appear on the Home Screen, according to either Wifi Server or Wifi Client.

Controlling the Ballast

WIFI CONTROL: USING THE OMNI CONNECT APP

OMNI Connect App

The Omni Connect app, available for Android at parabolixlight.com/omni, will let you control the Omni through its Wifi 2.4 Ghz network using any Android device. **Note:** iPhone iOS App is under development, and expected by mid-2022. To get started:

1) Download the **OMNIConnect.apk** file to your computer, then use Android File Transfer to upload the file to your device. Install the App on your Android device.
2) Activate **WIFI SERVER** on the Omni Ballast, and/or **WIFI CLIENT** on any other Omni light you wish to control.
3) Go into your Android's Wifi Settings, and click to join the "**OMNI SERVER**" wifi network. No password is required. This is a local network and is not connected to the Internet. Communication exists only between your device and the Omni ballast.
4) Open the **Omni Connect** App on your phone, and now you can control the light using the App. Use either the arrow buttons or the slider to control the brightness of the Omni. The Update Network button can be used if there is a lag in communication, to update the light to the current values. The Power buttons will turn ON/OFF the light. The Group Buttons at the top tell the Omni which Group it is controlling (A, B, C, D, E). You can change the Group Letter from the Home Screen of the Ballast using the Group Button (see instructions above). All lights with active Wifi assigned to the Group Letter will be controlled.
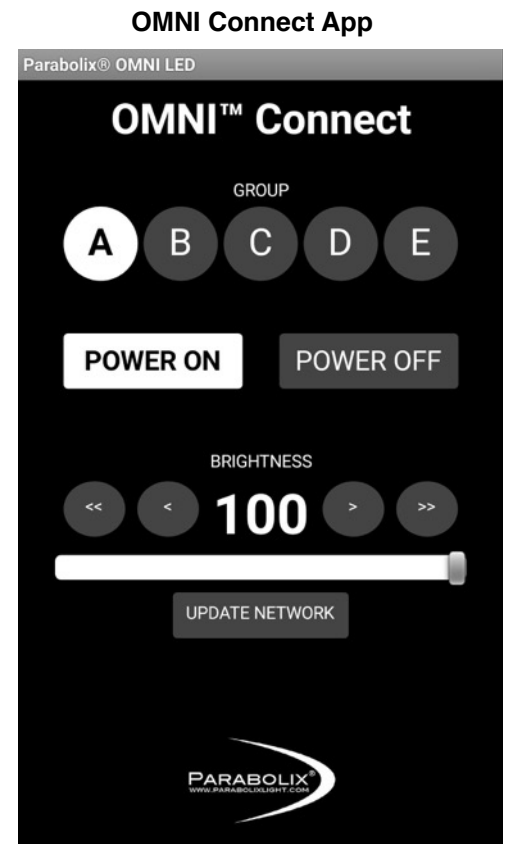
SETTINGS MENU: FAN SPEED CONTROL (Firmware v1.01)

With Firmware v1.01, you can now change the Fan Speed from the Settings Menu. Lowering the fan speed will lower the amount of audible noise the fans produce. This can be useful in situations where the sound of the fans interferes with any audio recording taking place. The fan speed can be set to HIGH, MEDIUM, LOW, and OFF. The Omni has three fans total - two in the Lamp, and one in the Ballast. Changing the Fan Speed will change all three fans. Use the Control Knob to cycle through the Fan Speed settings. After choosing a setting, press the Settings Button twice to return to the Home Screen. It is always recommended to use the highest fan speed setting allowable for your shoot. In most cases, the noise of the fans is negligible and can be left at the default (HIGH). The OFF setting is only recommended when the lamp brightness is less than 50%.

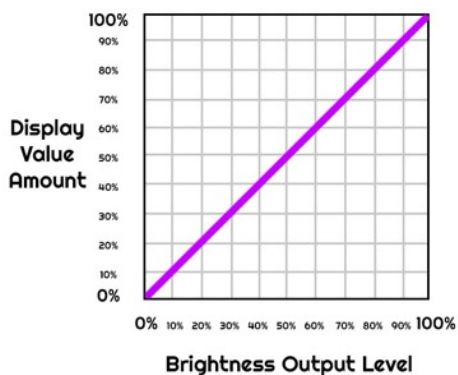## Controlling the Ballast

SETTINGS MENU: DIMMING INTERPOLATION CURVE
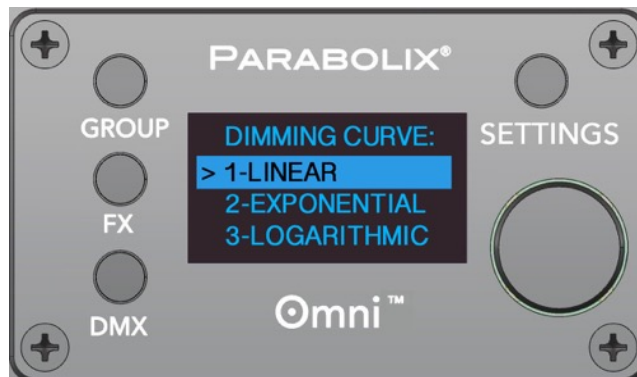
Setting the Dimming Interpolation Curve can be useful when using either DMX or FX, because it changes the interpolation curve with which which the **Display Value** is mapped to the **Brightness Output** of the lamp. This is mainly used when you need to animate or program lighting patterns. For **LINEAR** Interpolation (the default), there are equal steps between each 0.1% brightness levels. For **EXPONENTIAL** Interpolation, the brightness slowly "eases out" of zero, and then accelerates to 100. For **LOGARITHMIC** Interpolation, the brightness accelerates out from zero, and "eases in" to 100. For **S-CURVE** Interpolation, the brightness eases in to both zero and 100, and accelerates in the middle range to compensate. Use the Control Knob to scroll to the desired Interpolation Type, and click down on the Control Knob to select the Type. This will also take you back to the Main Settings Menu. On the Home Screen you will now see the Dimming Interpolation Type at the bottom of the screen.
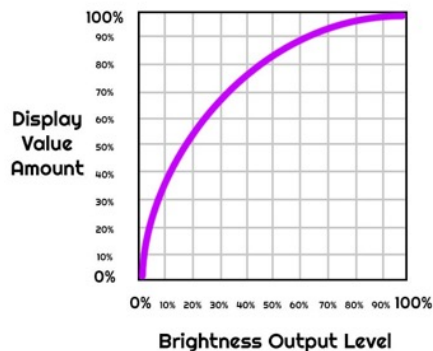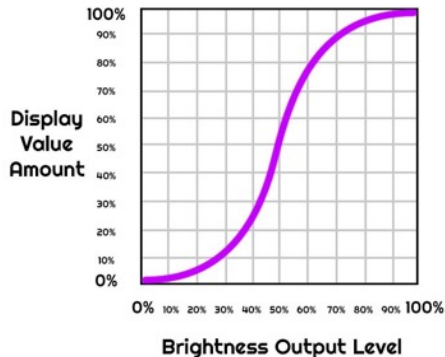
DIMMING INTERPOLATION CURVE TYPES
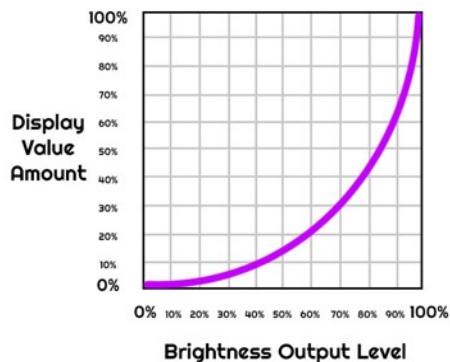
Controlling the Ballast
SETTINGS MENU: ABOUT SCREEN

The ABOUT Menu item displays a simple screen showing the version number of the firmware. Click the Settings Button to exit, and click the Settings button again to return to the Home Screen.

Photometric Data

	3 ft / 0.91 m	6 ft / 1.83 m	9 ft / 2.74 m	12 ft / 3.66 m
Omni™ with Parabolix 35D				
Omni™ with Parabolix 45"				
Omni™ with Parabolix 55"	10377 LUX, f11 + 0.1	5031 LUX, f8 + 0.0	2712 LUX, f5.6 + 0.1	1747 LUX, f4 + 0.4
Omni™ with Parabolix 65"				

Measured with the lamp at the Focus Position of each reflector size. Brightness values are for ISO 400, shutter speed 1/125.

2-year Limited Warranty, on all parts and labor. Warranty does not cover the Hardshell Case.

If the light source has reached the end of its lifespan, the lamp should be replaced.

In case of technical problems, please visit www.parabolixlight.com, or email info@parabolixlight.com.
Parabolix Lighting LLC
1224 E 8th St.
Los Angeles, CA 90021

This document may be updated and changed without notice. For the latest documentation, please visit our website:
www.parabolixlight.com/omni

Design and specifications of lamp and ballast are subject to change without notice.
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