LED GemB⊙x

Product Manual

Model: LEDP-1

ORTECH
Professional Lighting ™

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ORTECH™
Professional Lighting

LED GemBox

Lighting System Manual

Introduction

Thank you for choosing the OR Tech LED GemBox professional lighting system. This technically advanced electronic lighting system contains three different light sources to correctly illuminate any type of product you are interested in photographing. The three types of lights are filtered LED panels, warm LED light and white LED light.

The filtered LED panels (6500° Kelvin) may be used to photograph nearly any product, by providing you with flicker-free daylight illumination. The warm LED lights are intended to be used when you photograph jewelry that contains precious and colored stones such as amethysts, rubies and any other stones that are red, orange, or purple in color. The white LED light, may be used in conjunction with the filtered LED panels and will give "sparkle" to your jewelry

Product Design

Top

Lighting:
- LED Panels: Natural daylight flicker-free continuous lighting source (6500K).
- Warm Light: Flicker-free continuous lighting (3200K) specially for gems.
- LED Lighting: Fliker-free Natural Daylight

Lighting Panels:
- LED Panels: Left, Right, and Bottom (3)
- Warm LED: Top (Dimmable)
- White LED: Top (Dimmable)
- 12lbs
- Tripod accessible and CE Certified
- Built to ISO Standards

Left

Front

Right

Back

1. Top opening
2. Platform light
3. Right light
4. Left light
5. Height rod
6. Front opening
7. Height adjustment knob
8. Linkage bracket
9. White LED dimmer
10. Warm LED dimmer

11. Power switch
12. LED switch
13. Fan switch
14. Air vent
15. Circuit breaker
16. Fan
17. AC power connector outlet

Benefits and Features

- Easy to setup and continuously capture product images
- Clean white background (or add your own background)
- Shadow-free wrap-around lighting eliminates the need for digital cleanup
- Small and portable for the desktop.

Inside the Box

- LED GemBox Lighting System
- Power Cord
- Holding Wax
- Linkage Bracket

Product Applications

The LED GemBox simplifies many product imaging applications, by allowing you to create high-quality professional photographs in minutes. Here are just a few examples of how you can use your photos:

- **Product Sales (Print)** – Advertising, brochures, catalogs, flyers, postcards
- **Product Sales (Internet)** – Auctions, banner advertising, e-commerce, email attachments, online product catalogs, online Stores, etc.
- **Website Design** – Company Image, Product Line
- **Inventory Management** – Appraisals, insurance protection, inventory tracking, etc.

Lighting System Setup

1. **Connect the LED GemBox -** Connect the power cable to the Gem-eBox and then to a 110V or 220V electricity outlet.
2. **Turn on the LED GemBox** - Flip the front switch on the right side of box
3. **Turn on the various lights** (LED Panels, warm LED lights or white LED light)
   - Filtered LED Panels: Three switches on left side of the system
   - LED lights: Second switch on right side of the system and after that use the dimmers on the front to control your Warm and White LEDs
   - Fan on/off: Third switch on the right side of the system.

Camera Linkage Bracket Assembly

Our Linkage Bracket is designed to attach most digital cameras to the lighting system. This gives your camera a straight top-to-bottom view of the items being photographed, and the reliability to change camera lenses and to position the camera in endless ways.

Note: Carefully read the following information, as failure to do so may cause improper use of the bracket and cause damage to your camera and equipment.

Positioning the camera bracket

Photo A

1. The bracket comes pre-assembled but you need to attach it to the lighting system. In order to get started, you must attach your camera to the ball head at the end of the bracket (*photo A).*

   To attach the camera, you must find the tripod socket opening located on the bottom of the camera. Then, you must align the knob of the ball head to the tripod opening and put the screw of the knob inside your camera. Tighten the screw in a clockwise manner in order to stabilize your camera.

   Note: Make sure that your camera is set correctly and screwed tightly to the ball head so it does not fall off while you move the bracket.

Photo B

2. Once your camera is secured, you can begin to move your camera to look for the preferred angle and position for your photographs.

3. The Linkage bracket can be moved by sliding it if you wish to take pictures from the top opening (photo B).

For an SLR camera with a macro lens, it is recommended that the lens is positioned at about an inch away from the opening of the box.

For point-and-shoot cameras with a close-up lens, it is recommended that the lens is positioned at about three inches from the opening of the box

For more tips, please visit our website at www.or-tech.com/support

Cleaning

The outside and inside of our lighting systems are made of thermoplastic. Simply use a damp cloth to clean it, or use a plastic cleaner if needed. For difficult marks, use odorless mineral spirits.

LED Panels Replacement

All electronics and LED Panels used in your lighting system are made of the best quality. But eventually you may need to replace one. Use the following steps to replace a LED Panel:

a) Disconnect the power supply cable from the wall or remove it from the back of the unit
b) Remove the back panel and slide out the lamp house.
c) Remove the LED panel that need to be replaced, using caution, by snapping it out from the retainers and unplug the connector, replace the LED panel (check the support page for specific part number www.or-tech.com/support

Note: Gently pull out the wire connector. Make sure when you remove the wire to remember the original position. Replace the LED panel and reconnect the wires in their original position.

Be very careful when connecting the power: We suggest you test the unit before reinstalling the panels to ensure that your lights are working properly. Connect the power supply cable to the A/C outlet. Test the LED panel. Remove the power cable from the unit, close the panel and reinstall all the screws (make sure you do not over tighten the screws).

Important Note: Although all the LED panels used in our system are 100% safe, some people may experience some eye fatigue or eye stress due to a very long exposure period of time working with our systems without any rest. We recommend to rest your eyes every couple of hours and do not over expose your eyes to bright lights. This, as with any other high-brightness light source, needs to be used with basic precaution.

ONE YEAR WARRANTY

Defective components will be replaced during the 12 month warranty period. No charge will be made for labor costs during this period. Proof of purchase must be provided to verify the warranty status. Shipping is not included

Specifications

Lighting	**Filtered LED Panels:** 6500º Kelvin (flicker-free continuos lighting) **Warm LED Light:** 3200º Kelvin **White LED Lighting:** 5800º Kelvin
Lighting Panels	**Filtered LED Panels:** Left, Right, and Bottom **Warm LED Light:** 6" of dimmable LED (6 Leds) **White LED Lighting:** 6" of dimmable LED (6 Leds)
Power Controls	**6 Switches:** (1) On/Off Power, (3) Filtered LED Panels,(1) Warm LED Dimmer, (1) White LED Dimmer, (1) On/Off Fan.
Size (exterior)	15 w - 10.5 h - 7.5 d (in); 38.1 w – 26.6 h - 20 d (cm)
Size (interior)	7.5 w - 7 h - 7 d (in); 19 w - 17.8h - 17.8 d (cm)
Weight	12 Lbs.
Camera Openings	Top and Front
Tripod accessible	Yes
CE Certification	Yes
Built to ISO Standards	Yes
Power Input	110 to 220 Volts 50/60 Hz.

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Product Photography Lighting Systems

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