Nanolux Z OG1000

Nanolux DE OG Summit 1000W Digital Grow Light Ballast User Manual

Model: Z OG1000

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your Nanolux DE OG Summit 1000W Digital Grow Light Ballast. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Always disconnect power before installation, maintenance, or bulb replacement.

- Ensure the power supply matches the ballast's voltage requirements (120V-240V).
- Do not operate the ballast with damaged cords or plugs.
- Install the ballast in a well-ventilated area to prevent overheating.
- Avoid direct contact with the bulb during operation or immediately after shutdown, as it will be extremely hot.
- This product is designed for indoor use only.
- Only use compatible double-ended (DE) HPS, MH, or CMH bulbs with the specified wattage.
- The ballast is UL listed, conforming to North American safety standards.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Nanolux DE OG Summit 1000W Digital Grow Light Ballast
- 1000W HPS Bulb

4. Product Overview and Features

The Nanolux DE OG Summit 1000W Digital Grow Light Ballast is engineered for high-performance horticultural lighting. Key features include:

- **Advanced Heat Dissipation:** Integrated fan and aluminum alloy shell ensure efficient thermal management, reducing heat buildup and extending ballast lifespan.

- **Premium Ceramic Socket & Reflector:** Industrial-grade ceramic lamp holder provides superior insulation and safety. The 97% reflective material enhances light penetration and uniformity.

- **Wide Bulb Compatibility:** Supports various double-ended (DE) grow lamps, including 1000W HPS, MH, and CMH, offering versatile lighting options.

- **NCCS Smart Control Ready:** Seamless integration with the Nanolux Cloud Control System allows for remote lighting management via a mobile application.

- **Flexible Voltage & Safety Certified:** Operates on a wide input voltage range of 120V–240V and is UL listed for North American safety standards.

- **Dual Dimming Modes:** Features both a rotary dimming knob and 0-10V control for precise light intensity adjustment.
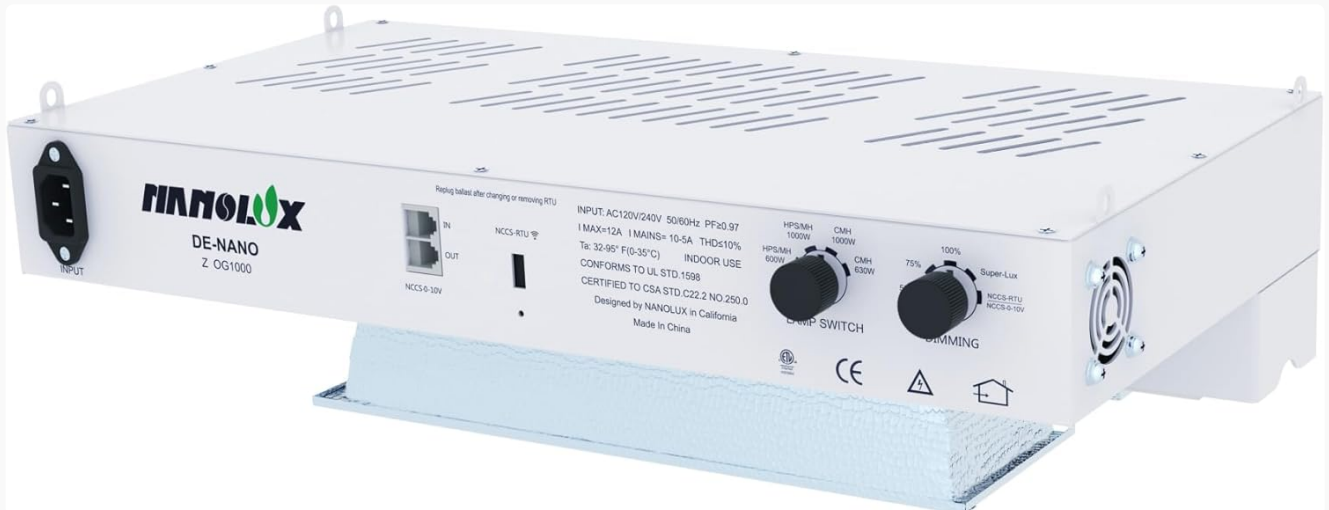

Image 1: Nanolux DE OG Summit 1000W Digital Grow Light Ballast with integrated reflector.

PATENTED REFLECTOR TECH

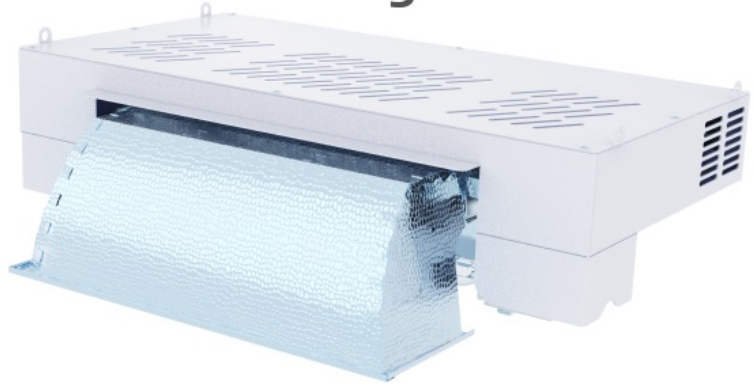97% reflectivity ensures maximum light penetration and uniform coverage

Image 2: Illustration of the ballast's patented reflector technology, highlighting 97% reflectivity for optimal light distribution.

MULTI-BULB COMPATIBILITY

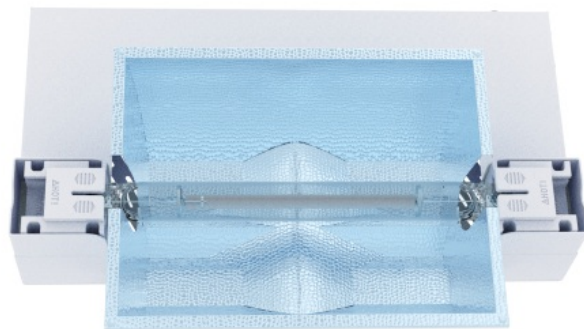Supports 600-1000W HPS/MH/CMH bulbs, ideal for all growth stages

Image 3: Visual representation of the multi-bulb compatibility, supporting 600-1000W HPS, MH, and CMH bulbs.

5. SETUP INSTRUCTIONS

5.1 Mounting the Ballast

1. Select a sturdy, level surface or appropriate hanging location for the ballast. Ensure adequate clearance for ventilation around the unit.

2. Use appropriate mounting hardware (not included) to secure the ballast. The ballast features integrated hanging points.

5.2 Bulb Installation

CAUTION: Handle bulbs with care. Do not touch the glass with bare hands.

1. Ensure the ballast is disconnected from the power supply.
2. Gently insert the double-ended bulb into the ceramic lamp holder. Ensure both ends are securely seated in the spring-loaded contacts.
3. Verify the bulb is centered and properly aligned within the reflector.

5.3 Electrical Connection

1. Connect the power cord to the ballast's input port.
2. Plug the power cord into a grounded electrical outlet (120V-240V).
3. If using the Nanolux Cloud Control System (NCCS), connect the NCCS cable to the designated NCCS port on the ballast. Refer to the NCCS manual for further setup.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Once connected to power, the ballast will initiate a self-test. The light will illuminate shortly after. To turn off, disconnect the power supply.

6.2 Lamp Type Selection

The ballast features a 'LAMP SWITCH' knob. Rotate this knob to select the appropriate bulb type (HPS/MH or CMH) and wattage (e.g., 1000W HPS/MH, 630W CMH). Ensure the selected setting matches the installed bulb to prevent damage.

Image 4: Detailed view of the ballast's control panel, illustrating the lamp switch for bulb type selection and the dimming knob for output adjustment.

6.3 Dimming Control

The ballast offers two methods for dimming:

- **Rotary Dimming Knob:** Adjust the 'DIMMING' knob on the ballast to set the desired light intensity (e.g., 75%, 100%, Super-Lux). This allows fine-tuning from 600W to 1000W for different growth stages.

- **NCCS Smart Control:** If connected to the Nanolux Cloud Control System, you can remotely manage and adjust dimming settings via the mobile application. Refer to the NCCS user guide for detailed instructions on app control.

Image 5: Visual explanation of the dual dimming modes, including rotary and 0-10V controls for precise light adjustment.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your ballast.

7.1 Cleaning

- Ensure the ballast is disconnected from power and completely cooled before cleaning.
- Wipe the exterior of the ballast with a dry, soft cloth. Do not use liquid cleaners.
- Periodically inspect and clean the cooling fan vents to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air if necessary.
- Gently clean the reflector surface with a soft, lint-free cloth to maintain its reflectivity. Avoid abrasive materials.

7.2 Bulb Replacement

CAUTION: Allow the bulb to cool completely before handling. Wear gloves to avoid skin oils on the glass.

1. Disconnect the ballast from the power supply.
2. Wait for the bulb to cool down completely (typically 15-30 minutes).
3. Carefully remove the old bulb from the ceramic socket.
4. Install the new, compatible double-ended bulb as described in Section 5.2.

8. TROUBLESHOOTING

If you encounter issues with your Nanolux DE OG Summit 1000W Digital Grow Light Ballast, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Light does not turn on	No power supply Incorrect bulb installation Faulty bulb Incorrect lamp switch setting	Check power connection and outlet Ensure bulb is securely seated Replace bulb Verify lamp switch matches bulb type/wattage
Light flickers or dims unexpectedly	Loose bulb connection Aging bulb Unstable power supply Overheating	Re-seat bulb Replace bulb Check power source stability Ensure proper ventilation, clean fan vents
Ballast is overheating	Poor ventilation Blocked fan vents	Relocate ballast to a cooler, well-ventilated area Clean fan vents
Dimming function not working	Dimming knob not adjusted NCCS connection issue	Adjust the 'DIMMING' knob Check NCCS cable and app connection

If the problem persists after attempting these solutions, please contact Nanolux customer support.

9. SPECIFICATIONS

Feature	Specification
Brand	Nanolux
Model Name	DE OG Summit 1000 (Z OG1000)
Light Type	HID
Wattage	1000 Watts (Ballast), 1050 Watts (Power Consumption)
Input Voltage	120V - 240V
Accepted Voltage Frequency	100 to 240 Volts and 50 Hertz
Bulb Compatibility	DE HPS/MH/CMH (600W-1000W)
Bulb Base	G12
Control Method	App (NCCS), Rotary Knob
Brightness	155,000 Lumens (with 1000W HPS bulb)
Color Temperature	3000 Kelvin (with HPS bulb)
Average Life	10,000 Hours
Material	Aluminum

Feature	Specification
Product Dimensions	19.5"W x 8.9"H (19.5 x 19.5 x 8.9 inches)
Item Weight	14.8 pounds
Certifications	UL certified
Indoor/Outdoor Usage	Indoor

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official Nanolux website or contact your authorized Nanolux dealer. Keep your purchase receipt as proof of purchase for any warranty claims.
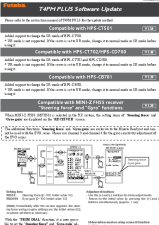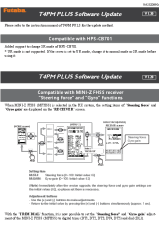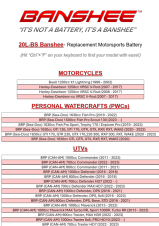
Nanolux Technology
Website: www.nanoluxtech.com (Example link, verify actual URL)

Related Documents - Z OG1000

[Nanolux OG Series Digital Electronic Ballast Operating Manual](#)
Operating manual for the Nanolux OG Series Digital Electronic Ballast, featuring dimming capabilities, Random Start, NCCS compatibility, and detailed specifications for 1000W, 600W, 400W, and 250W wireless versions. Includes warranty and installation guidance.

[Nanolux 0-10V Lighting Controller User Manual - Greenhouse Lighting Control System](#)
Comprehensive user manual for the Nanolux 0-10V Lighting Controller. Covers product description, technical specifications, component identification, installation guide, operating instructions for the touchscreen interface, maintenance, disposal, and warranty information for greenhouse lighting applications.

[Futaba T4PM PLUS Software Update - Enhanced Compatibility and Features](#)
Details the latest software update for the Futaba T4PM PLUS radio transmitter, including new compatibility for HPS-CT501, HPS-CT702/HPS-CD700, HPS-CB701, and enhanced 'Steering force' and 'Gyro gain' functions for MINI-Z FHSS receivers.

[Futaba T4PM PLUS Software Update Information](#)
Details on the T4PM PLUS software update, including compatibility with HPS-CB701 and MINI-Z FHSS receivers, and new features for steering force and gyro gain adjustments.

[Futaba T6PV Software Update Method and Version Check Guide](#)
Comprehensive guide to updating the Futaba T6PV radio transmitter software, checking versions of T6PV and compatible receivers/gyros, and details on new features like tilt mixing and GPS compatibility.

[Banshee 20L-BS Replacement Motorsports Battery Compatibility Guide](#)
Find Banshee 20L-BS battery compatibility for Motorcycles, Personal Watercraft (PWCs), UTVs, ATVs, and Snowmobiles from brands like Buell, Harley-Davidson, and BRP (Sea-Doo, Can-Am, Ski-Doo).