

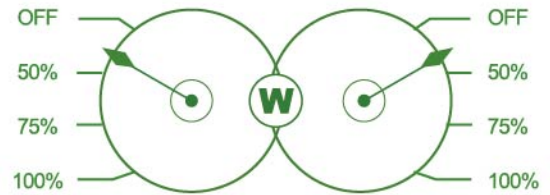
## WARRANTY

Nanolux Technology warrants the mechanical and electronic components of this product to be free of defects in material and workmanship if used under normal operating conditions for a period of two (2) years from the original date of purchase. If the product shows any defects within this period and that defect is not due to user error or improper use Nanolux Technology shall, at its discretion, either replace or repair the product using suitable new or refurbished parts. In case Nanolux decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e. two (2) years from the date of purchase of the original product. For service return the ballast to your shop with the **original sales receipt**.

For more information about Nanolux product please visit [nanoluxtech.com](http://nanoluxtech.com)

# OPERATING MANUAL

## DIGITAL ELECTRONIC **BALLAST** Dual 600W Output



ADJUSTABLE  
POWER+  
SOFT DIM



**PATENTED PRODUCTS, COUNTERFEITING NOT ALLOWED.**

Designed by NANOLUX in California  
Assembled in China

**NANOLUX**  
[www.nanoluxtech.com](http://www.nanoluxtech.com)  
*Illuminating Your Grow*

## PLEASE READ THESE INSTRUCTIONS FIRST BEFORE INSTALLATION

Congratulations on your purchase of the Nanolux Dual Series 600W Output Ballast. We have done everything to insure a long life and safe operation of your new ballast. The correct installation and use of the ballast is the responsibility of the user. Incorrect use or installation can lead to failure and damage to the ballast. Damage to the ballast and electronic circuitry as a result of incorrect installation and use revokes your warranty. Read this manual carefully before installing your new electronic dual ballast.

## PRODUCT DESCRIPTION

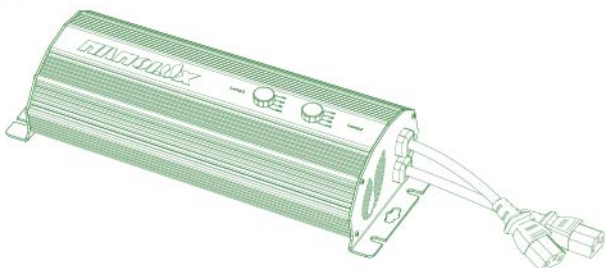
The Nanolux Dual Series Digital Ballast has a flip relay that drives two reflectors/sockets on a 12/12 cycle. The ballast can also be used as a single (non-flip) ballast or used with dual lamps in flip mode.

The dimmable feature can be adjusted to 50%-75%-100% and runs 110V, 120V, 207V, 208V, 220V and 240V (Please according to local input power voltage). Our high frequency scan technology system increases lamp life and reduces circuit overload and power strikes. This ballast has a patented 9 sided extruded aluminum case that dissipates heat from the ballast with a fan built into the unit.

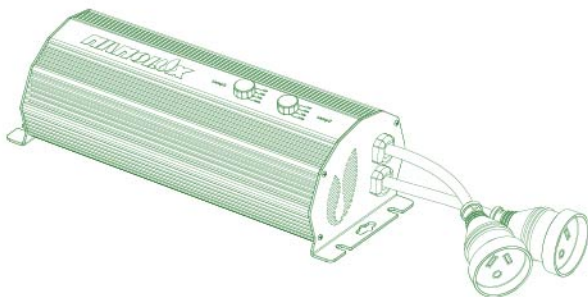
### NORTH AMERICAN MARKET



### EUROPEAN MARKET



### AUSTRALIAN MARKET



## SCOPE OF USE

The Nanolux Dual Series Digital Ballast is designed to drive horticultural high frequency HID lamps for plant cultivation. It is intended for greenhouse and indoor use. It should be mounted on a non-combustible surface. FOR INDOOR USE ONLY

## TECHNICAL SPECIFICATIONS

### 1) Input Voltage:

North American Market: 100-265V, 120V/10.3Amp; 240V/5.1Amp

European & Australian Market: 165-265V, 220V/5.6Amp; 240V/5.1Amp

### 2) Ballast Size:

North American Market: 420mm×131.8mm×87.5mm  
(16.5inch×5.2inch×3.4inch)

European & Australian Market: 300mm×131.8mm×87.5mm  
(11.8inch×5.2inch×3.4inch)

### 3) Ballast Weight:

North American Market: 2.78kgs(6.1lbs)

European & Australian Market: 2.16kgs(4.76lbs)

### 4) Power Factor: ≥99%

### 5) Crest Factor: ≤1.7

### 6) Total Harmonic Distortion (THD): ≤10%

### 7) Operating Temperature: -30°C(-22°F) – 50°C (122°F)

### 8) Output Frequency: ≥ 30KHz

### 9) Strikes both HPS and MH lamps

### 10) Strikes bulbs from up to 49ft

## INSTALLATION

Be sure to comply with local installation and regulation requirements.

Always install electronic ballasts vertically, so the air can rise through the cooling ribs for optimal cooling.

Install Nanolux Dual 600W ballast away from any potential heat or moisture source. Although these units are made to withstand extreme gardening conditions, keeping the unit as cool and dry as possible will extend the product life.

Keep at least 6 inches distance between your ballasts to ensure airflow. Only mount ballasts on a non-combustible material.

Connect each of the two lamps cords to the ballast. If you are only operating one lamp turn lamp#2 dial to "off" position. Confirm connections are properly secured and turn on.

If you have any questions or concerns about installing your new ballast, please contact the place of purchase or a certified electrician.

## SUITABLE LAMPS

Only use HPS (High Pressure Sodium) or MH (Metal Halide) 600W bulbs.

## LAMP CONNECTION, REPLACEMENT AND HOT RESTRIKE

- 1) Always install the lamp cord before connecting your ballasts to the main power.
- 2) Always connect the ground wire to reflector if it is not a double insulated type.
- 3) Never disconnect a lamp by pulling the lamp cord out of the ballast while operating.
- 4) Allow a lamp to cool for 30 minutes before restarting (hot restrike).
- 5) When changing the lamp, first disconnect the ballast from the main power by removing the plug. Let the lamp and reflector cool down 30 minutes before changing as they will not restrike once they are hot.