

## Lumatek Ultimate 600W 240V/400V Remote Electronic Ballast Manual

Thank you for purchasing a Lumatek Ultimate Remote Electronic Ballast. We are certain you will be more than satisfied for years to come.

Lumatek Ultimate 600 EU/UK Remote Electronic Ballasts have been developed to drive 400Watt/600Watt 240Volt and professional 600Watt 400Volt HPS and MH horticultural lamps, designed specifically for plant cultivation. Lumatek Ultimate Electronic Ballasts use 240V mains supply to power 240V MH, HPS and 400V HPS lamps only.

Damage to the ballast and electronic circuitry as a result of incorrect installation and use revokes your warranty, so we recommend you read this manual carefully before installing your electronic ballast.

**Installation.** Please comply with local installation regulations.

1. Keep distance between your ballasts to insure a free air flow. Keep at least 5 cm distance between individual ballasts. Mount ballasts on a non-combustible material and not on the floor where it could come into contact with water or nutrients. These ballasts are for indoor use only. Do not use in atmospheric conditions exceeding:

Max Ambient Temperature: 65C, Min Ambient Temperature: -10C. Max Humidity RO: 85%

2. Carefully insert a compatible lamp into the reflector, ensuring full contact. Ensure ballast wattage matches lamp wattage; select 400W & 400SL settings for 400W lamps and any setting for 600W lamps. Make sure you have dry hands when locating the lamp. We recommend you use a cloth when handling the lamp. Connect reflector cable to ballast output cable ensuring a good connection.

3. Plug your Lumatek Ultimate ballast into a lighting contactor relay. To protect timer against the inductive load of the ballast, we recommend plugging the ballast 240V power plug into a lighting contactor relay, which can then be plugged into a timer and then into the mains supply. Do not plug ballast into domestic timer directly. Switch on. If unit fails to ignite lamp; switch off at mains, remove lamp and repeat steps 2. and 3. above. Otherwise contact your retailer.

When replacing a lamp, always switch off ballast first by removing plug from power supply. Never switch off lamp by removing lamp cable from a live ballast.

**Super Lumens switch and power output controller;** the control switch on the output side of your Lumatek Ultimate ballast allows you to adjust your light output depending on your specific needs. Your Lumatek ballast comes with a four-phase controller enabling you to set the output at your required setting. In addition to being able to power different wattage lamps and dim your lights, the Super Lumens feature on your Lumatek ballast enables you to boost your light output by up to 10%.

When using the dimming function or Super Lumens feature on your Lumatek ballast, be sure to allow the lamp to run continuously for 10 minutes before changing settings. Rapidly switching the setting on your Lumatek ballast may cause harm to the lamp. To change output settings on your Lumatek ballast simply click the control switch into one of its four preset positions. The soft dim feature utilizes a gradual change between settings at a rate of 150W per 60 seconds to help prolong lamp-life. The change in light intensity will not be obvious but can be easily demonstrated with a light meter.

**Hot re-strike of lamps.** It is very important that the lamp is given adequate time to cool down before it is re-ignited (10 min). Hot re-strike causes premature lamp failure and lumen output degradation. Additionally, the lamp should never be turned off before it has reached full intensity. In the event of a power surge or interruption causing the ballast safety system to switch off to protect lamp and ballast, the Auto-start facility will monitor when the lamp can be reignited.

The Lumatek Ultimate ballast is tested for EMI (electro-magnetic radiation) and has met the highest standards. To help prevent against EMI, mount ballast as close as possible to the

reflector but not in the lamp's direct light (avoid unnecessary heat). The shorter the lead to the lamp, the less chance of EMI. Do not coil excess wiring, particularly the lamp lead. Keep mains lead and lamp lead separated to avoid potential interference signals.

The Lumatek ballast is silent with no noisy fan required and a graduated fin design case to help dissipate heat. There is no serviceable parts inside as the electronics are sealed in a resin and opening the case will invalidate the warranty.

### **5 Year Manufacturer Warranty**

Lumatek warrants its Electronic ballast to be free from defects in materials and workmanship. The warranty term is 3-years full + 2 years pro-rated beginning on the date of purchase. Misuse, abuse, or failure to follow instructions, are not covered. Any changes or adaptations to the product of any kind will void the warranty.

Lumatek will, at our option, repair or replace products covered under this limited warranty. To request warranty service, you must return the unit with your proof of purchase to your place of purchase, within the warranty period. If warranty service is required, Lumatek's distribution partner will issue a Return Material Authorization Number. Lumatek will ship the repaired or replacement products to you freight prepaid. Purchase date is based on the original sales receipt. Please save your receipt as a copy is required for all warranty services.

For more information on Lumatek Electronic Ballasts please visit [www.lumatek.co.uk](http://www.lumatek.co.uk)