



# LUMATEK BALLAST INFO SHEET

## What is all the fuss about Digital or Electronic Ballasts?

Good Digital Ballasts, like the **Lumatek**, will give you more available light (20% more lumens) and use less electricity (10-15% less) when compared with a "standard" magnetic coil ballast. Resin-sealed Electronic Ballasts are also lighter, produce less heat, and are absolutely silent. **Lumateks** allow the use of both Metal Halide and High Pressure Sodium Bulbs.

## Which is the best Digital Ballast?

In our opinion, Lumatek Ballasts are the best. They outperform every ballast on the market.

- **More Lumens** - 20-30% more lumens than magnetic ballasts
- **Brighter** - Lumatek ballasts are 10-15% BRIGHTER than other digital brands on the market
- **Completely Silent** - leave the humming and buzzing behind
- **Best Warranty in the Industry** - 5 years - Full three year Warranty PLUS 2 years - Prorated
- **Small Compact Design** - under 10 pounds
- **Completely Sealed** - from the inside and water resistant
- **Fast StartUp** - reaches full brightness in under a minute
- **No Fans** - Resin sealed industrial case to ensure reliability
- **Cut-Off Circuitry** - Automatically shuts off in case of short
- **Reliable** - every ballast is factory tested for 12 hours
- **Single Voltage** - Available in 120V and 240V -- dual voltage models sacrifice performance
- **RF Shielded** - output cord --IMPROVED in 2007
- **MicroProcessor** - to ensure proper performance with every bulb
- **Less Electricity** - Uses 10% Less Electricity than a standard magnetic ballast

## Which Bulbs can I use with a Lumatek Ballast?

**Lumatek** ballasts operate both metal halide and high pressure sodium lamps. They will not light MV mercury vapor lamps which are commonly sold in hardware and some hydroponics stores. **Lumateks** employ a Microprocessor in order to efficiently run any bulb on the marketplace today.

*\*Please note the 750 watt ballast is HPS only.*

## Why are Lumateks only 120 volt or 240 volt?

**Lumatek** ballasts are voltage specific and cannot be modified to change the input voltage. 240V electronic ballasts run much more efficiently than their 120V counterparts. Some electronic ballast manufacturers offer a switchable voltage feature that allows you to switch from 120V to 240V. These ballasts are actually 120V ballast that will operate on 240V, without the efficiency advantages that you would gain by running a true 240V electronic ballast. The 240v digital ballast is much more efficient, producing more light while generating less heat than its 120v counterpart. Other dual input voltage digital ballasts can never achieve the same efficiency as dedicated 240v versions. This is one of the reasons **Lumateks** put out more light than other models.

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## How do Lumateks Save Energy?

**Lumatek** ballast have increased efficacy over magnetic ballasts. They lose fewer watts from the power supply to the lamp. This a power factor of 95%+. The high frequency output results in low power loss at the cathodes in addition to better overall power management. **Lumatek** ballasts use less watts to produce more lumens than standard ballasts.

## How does a Lumatek Ballast make my bulbs las Longer?

The **Lumatek** is programmed for a soft-start, which means that it does not require an inital surge of power to light the lamp. This increases the lamp life and allows for the starting of multiple ballasts at the same time, without tripping breakers.

## What is RF Shielding all About?

RF Shielding prevents the **Lumatek** from disrupting radio or satellite signals. Competing brands of digital ballasts not using shielded cords can disrupt radio or satellite signals for up to fifty yards. The same interference can also be experienced with pH moniotring equipment. The **Lumatek** ballast, if properly connected, will have minimal RF Interference (less than 5 feet) and will not interfere with pH monitoring equipment.

## Why does it matter if a digital ballast has a fan or not?

Digital Ballasts that rely on fans to keep the ballast cool are prone to failure. Although these ballasts may seem to run cooler, in the long run, their moving parts are more likely to be the source of a break down. These fans are also the source of undesired humming, buzzing and whirring. **Lumatek** ballasts can withstand very high temperatures and the epoxy used to seal the ballasts also act as a heat sink, so **Lumatek** ballasts do not require fans.

## Mounting Location

While the manufacturer of **Lumateks** suggest that these ballasts not be installed in areas of high heat, we have heard that they can be installed in areas as hot as 140°F. They warn not to install ballasts in areas of very high heat such as an attic or a closed closet. Do not mount the ballast to the reflector or blow exhaust air over them. Do not stack ballast on top of each other. Do not allow contact with water. Mount units at least six inches apart. If a unit has any leaking resin please relocate to a cooler area or place a fan near the ballasts.

## Can I run the Lumatek off of a Generator?

Electronic ballasts should not be used on generators. Damage to ballasts caused by electric generators will not be covered under warranty.

## Lumateks have VERY HIGH Quality Control

The last thing we would like to point out is that the **Lumateks** are made VERY well. The company spares no expense in making **Lumatek** Ballasts as well made as possible. They go to great lengths, such as using German made capacitors or American made microprocessors within their Ballast design. **Lumatek** ballasts use create the perfect harmony between efficiency and lamp performance. Making sure that they drive the bulb they are powering to peak lumen output, without over-stressing the lamp to the point where it will burn out to fast. **Lumatek** also offers the industry leading 5 year warrnty (3 years are FULL COVERAGE and 2 more are prorated for the parts). In the end of the day no other ballast that we have looked at (and we have looked at every other ballast on the market today) have shown us the same high commitment to quality as the **Lumateks** have.

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