

# Your Guide to Fly-Free Food Safety: A Smarter Way to Manage Flies

Discover how UV LED fly-catchers can transform food safety compliance while saving energy and reducing contamination risks.

SAVE **80%** ON ELECTRICITY  
with UV LED flycatchers!

FLYght Duo  
Powered by bioVE+



Designed and patented by  
Singapore's Pestroniks Innovations

# The FLYght Twelve-point Guide to UV LED Insect Light Traps

A brief history of Insect Light Traps: Insect Light Trap (ILT) technology has evolved over the past ninety years after William M Frost patented a bug zapper in the United States in 1932. In 1967 Don Gilbert of Gilbert Industries, also of the United States, introduced the first professional ILT for indoor use to electrocute insects attracted to UV light.

The first major change in ILTs was a shift from using an electrical grid to electrocute flies to using glue boards to trap them when Don Gilbert followed up his 1967 invention with the patenting of his first glueboard ILT in 1968.

With the advent of Light Emitting Diodes (LEDs) for consumer and commercial lighting in the past few decades, it was time before we would have UV LEDs in ILTs.

Singapore's Pestroniks Innovations is one of the first UV LED ILT manufacturers to launch such traps in the 21st century. They spent years researching how UV LEDs affect filth flies and designed their FLYght traps for maximally attracting flies. In addition, their traps' patented bioVisual Enhancer (VE+) technology enhances the UV-A from LEDs for alluring flies, mimicking wild carnivorous plants that draw insects for a meal.



# 01

## **LED position determines a trap's effectiveness:**

LEDs emit light very differently from fluorescent tubes, which were hitherto the choice of ILT makers. So Pestroniks Innovations has carefully positioned the LEDs to shine on the back of its traps to ensure that FLYght traps unfailingly attract flies.



# 02

## **LEDs should reduce ILT power consumption**

The current FLYght traps have only 8 LEDs that draw just 9W of power, saving 72% over two fluorescent tubes of 30W rating and 80% over three fluorescent tubes of 45W rating. Could you imagine such huge savings in electricity expenses by a switch to FLYght traps?

You may find some ILT brands with so many UV LEDs that those traps may generate no power savings compared to fluorescent UV traps.





## 03

### **LED tubes versus LEDs:**

Some of the ILTs in the market have UV LED tubes, which are made of glass and introduce glass in the product. In FLYght traps, the UV LEDs are spaced individually for the best trap UV-A output in conjunction with the bio-VE+ insert.

## 04

### **Attracting flies matters more than UV output:**

ILTs work by UV attracting flies, and in an era of UV fluorescent tubes, the higher a trap's UV, the better it could lure flies. In FLYght traps, the focus is on just enough UV-A output to maximize the fly catch. FLYght LEDs don't emit the most UV-A as the focus is on traps that attract flies through better trap design and the patented bio-VE+ technology.





## 05

### **Making ILTs attractive to fit the decor:**

FLYght traps are light yet sturdy, sleek, and compact but attractive and trap flies like any effective ILT and sometimes even better than conventional fluorescent tube traps.

FLYght traps weigh less than three kilograms but are sturdy in their metal housing. LEDs make the FLYght trap design sleek and compact to accommodate universal glue boards. Design thinking has generated FLYght ILTs that look like part of your interior décor, not a fly-catching device.

## 06

### **Trapping flies discreetly:**

Viewers may be surprised not to see flies inside a FLYght trap, as per its designer's intention. FLYght's concealed glue boards trap flies after entry, but the trapped flies remain out of sight of viewers near the trap.

## 07

### **Configured for universal glueboards:**

FLYght traps rely on universal glueboards that are easily available everywhere, freeing the user from reliance on any one source for their traps' replacement glueboards.

Unfortunately, when users choose ILTs with customized glue boards, they become dependent on the original manufacturer, who could charge a premium for the supply of such unique glueboards.





# 08

## **Retaining tackiness of glueboards:**

The UV in ILTs affects the tackiness of glue in glue boards. Other ILT manufacturers suggest frequent glue board changes because glueboards in their traps continually have UV-A exposure and lose their fly-trapping ability. However, you won't face any such challenge in FLYght traps as their glue boards don't face UV!



# 09

## **No annual light-source replacement:**

FLYght traps' UV LEDs last a long time or 50,000 hours! Hence, its users don't need to plan for any light source replacement for more than five years after the FLYght trap purchase! No more hassle of planning fluorescent tube replacement or spending on it. Get a FLYght trap and switch it on to operate it efficiently over many years.

# 10

## **No more plastic sleeves on tubes or shatterproof tubes:**

Pestroniks Innovations uses inherently glass-free UV LEDs in its FLYght traps. When using FLYght traps, you don't have to worry about getting plastic-sleeved or shatterproof fluorescent tubes to contain glass in accidental breakage.



# 11

## **No more worrying about hazardous waste:**

Regular ILTs have fluorescent tubes, which you must dispose of annually and carefully because they contain heavy metals like mercury. FLYght UV LEDs are free of any toxic material, leaving you free from worrying about hazardous waste disposal from your ILTs.

# 12

## **Ease of installation and use:**

We have found that FLYght buyers can install their traps in less than five minutes. Afterwards, they can check and replace their trap's glueboards in less than a minute. In addition, the focus on user-friendliness makes FLYght traps the most easy-to-use UV LED ILTs in the market.

We hope you enjoyed going through this FLYght twelve-point guide for choosing and using UV LED ILTs.

We partner with Pestroniks Innovations, the pioneers in such devices, who constantly update their knowledge and follow up their learning by introducing new fly-trapping devices that set pest control industry benchmarks.

As you have come so far through this short primer, we request you to visit our YouTube channel to learn more about FLYght UV LED ILTs.

<https://www.youtube.com/@GiridharPaiAssociatesLLP>

Our videos show FLYght features and maintenance to make it easy for our customers to use such traps.

You can leave your thoughts for us by visiting our website or [contacting us](#) directly.

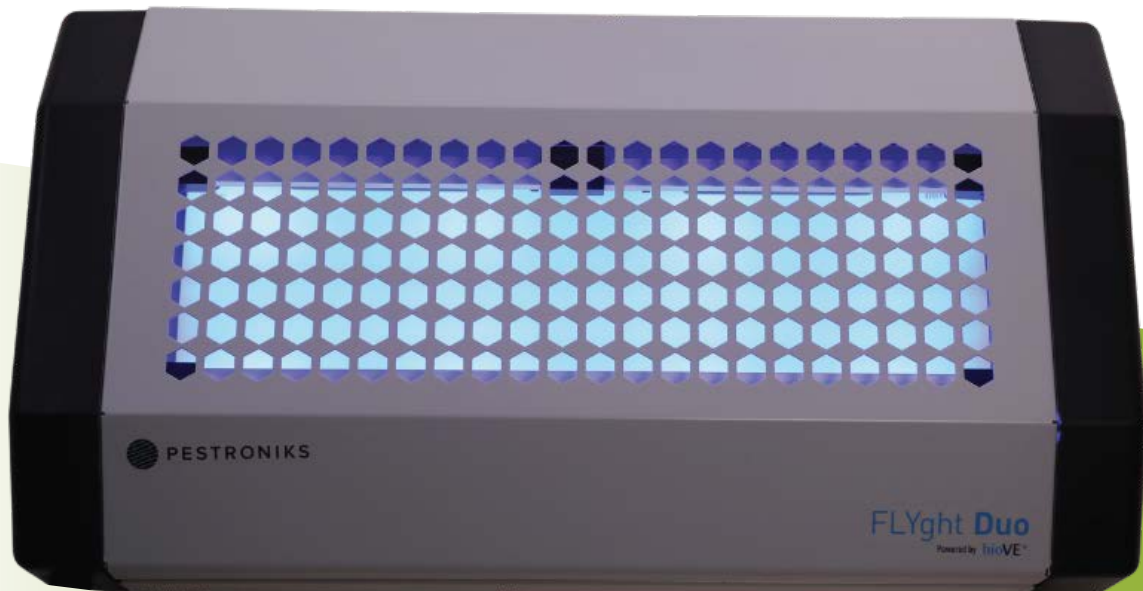
Thank you.



**Giridhar Pai Associates**  
**Trusted by the Food Industry for Over 5 Years.**

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