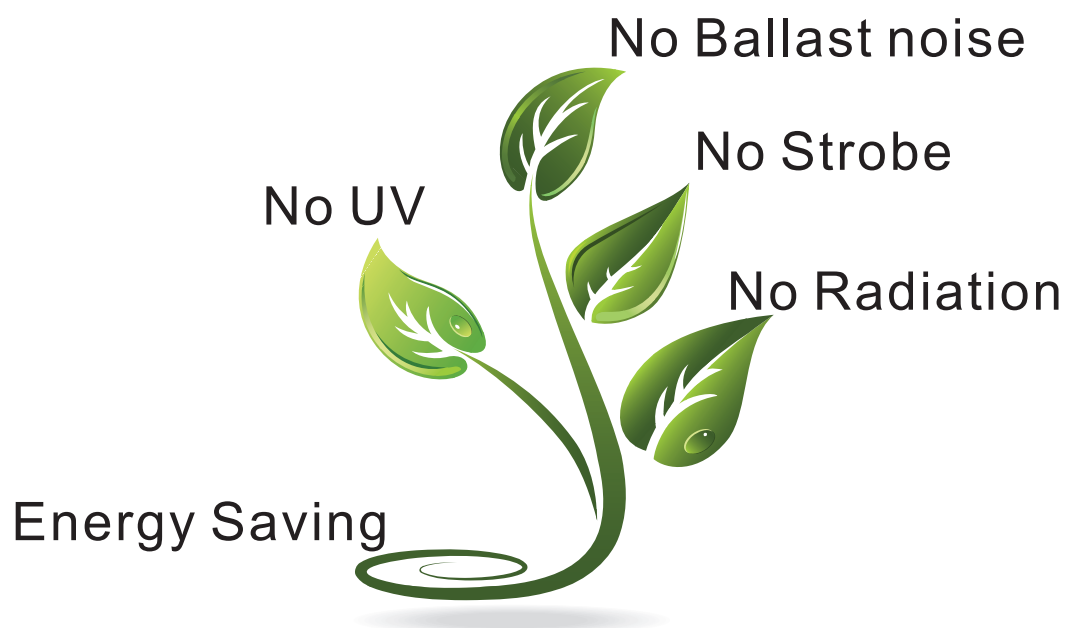


# Characteristics of T8 LED tubes



T8 LED tubes have Long lifespan,  
and environment friendly.

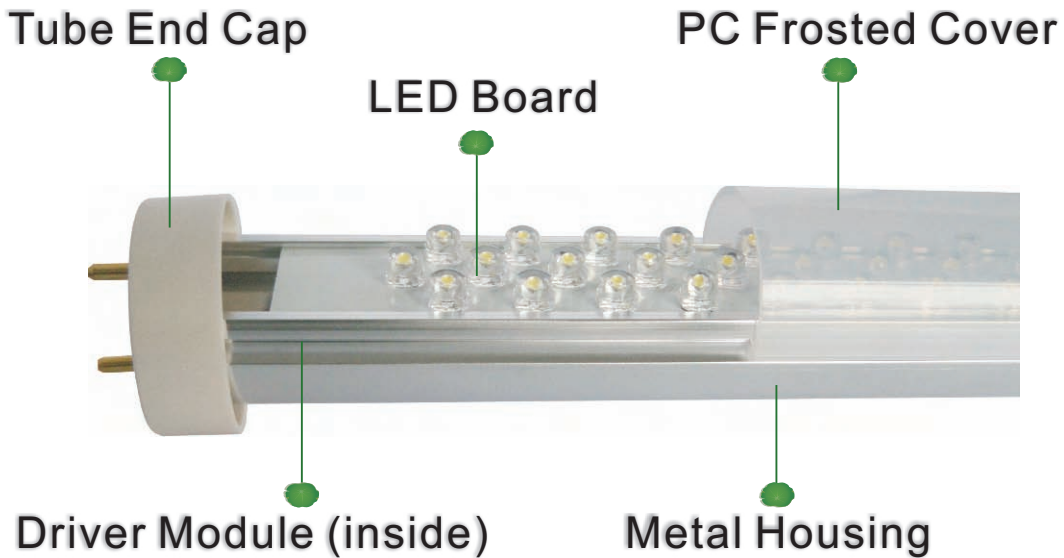
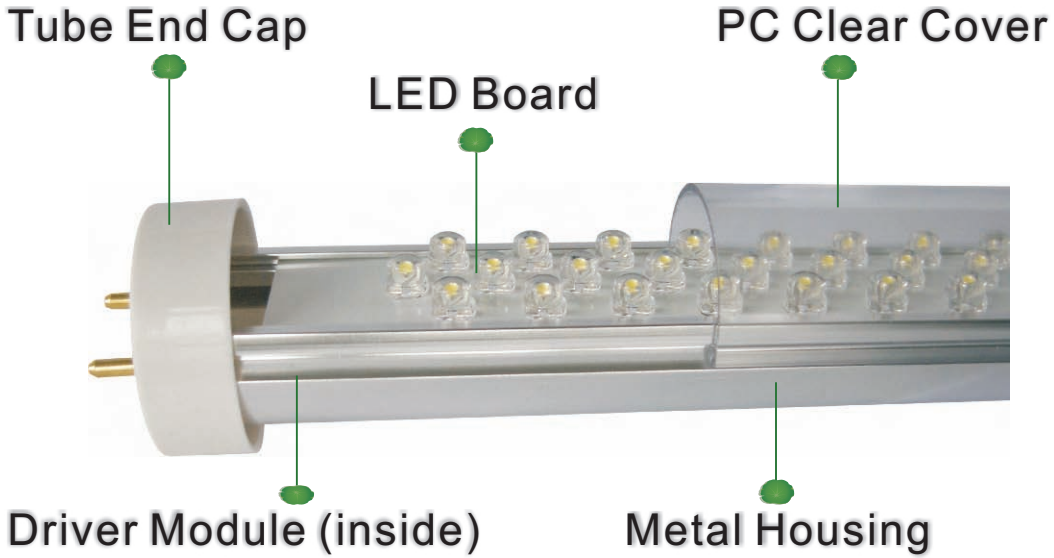


# Components & Material



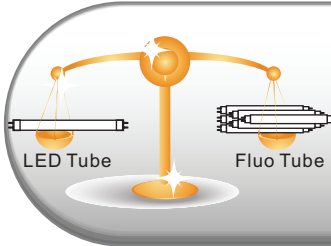
## Basic Parameter Sheet

Wattage	Working Voltage	Lumens	Central Lux	CRI	Lighting Angle	Replaces
17W	AC 100V-277V AC/DC 12V	1650LM	60-120 Lux/3m	>75	60, 90-120, 160degree	32-45 watt T8 Fluorescent




# Advantages

LED light brings lots of convenience to our life, Long lifespan, energy saving, no UV, RGB color, dimmable, no radiation, no mercury, and so on.




LED Tube      Fluoro Tube


**Long lifespan.**  
LED light last greater than 50,000 hours, which is several times or even several decades of times than the life span of ordinary lighting source.




**Energy-saving.**  
60% energy saving than traditional light, and no need to maintenance



**High pure, vivid color.**  
LED products cover all range of visible spectrum, and the color is very vivid. The traditional way to get the multicolor light is adding the light filter to the incandescent bulb, but it greatly reduce the luminous efficiency.



**No Strobe.**  
It can start up no time delay, no environment temperature limited, and it is available for transient start up in millimeter seconds.



**No UV.**  
The wave length of LED light belong to Red, Green and Blue, they are from 450nm to 650nm; The wave length of UV is from 100nm to 400nm.



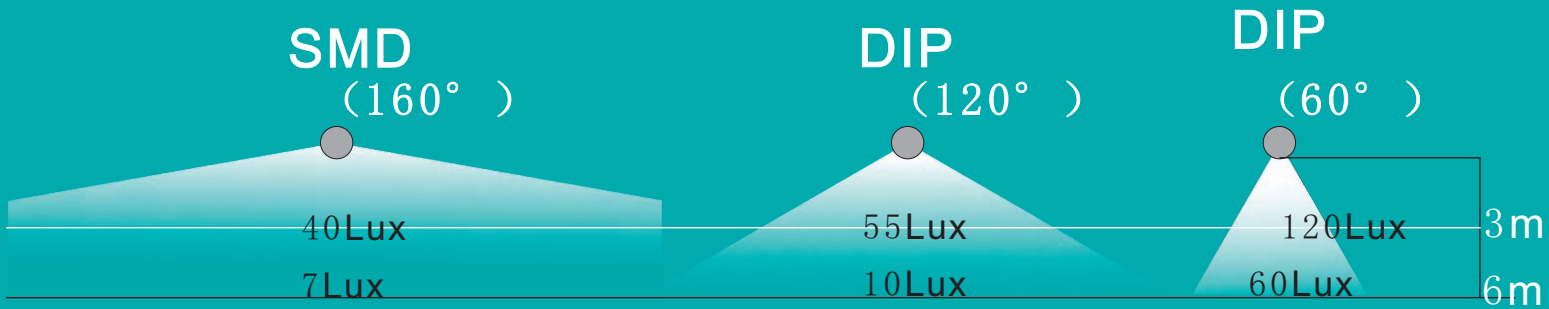
**No radiation**



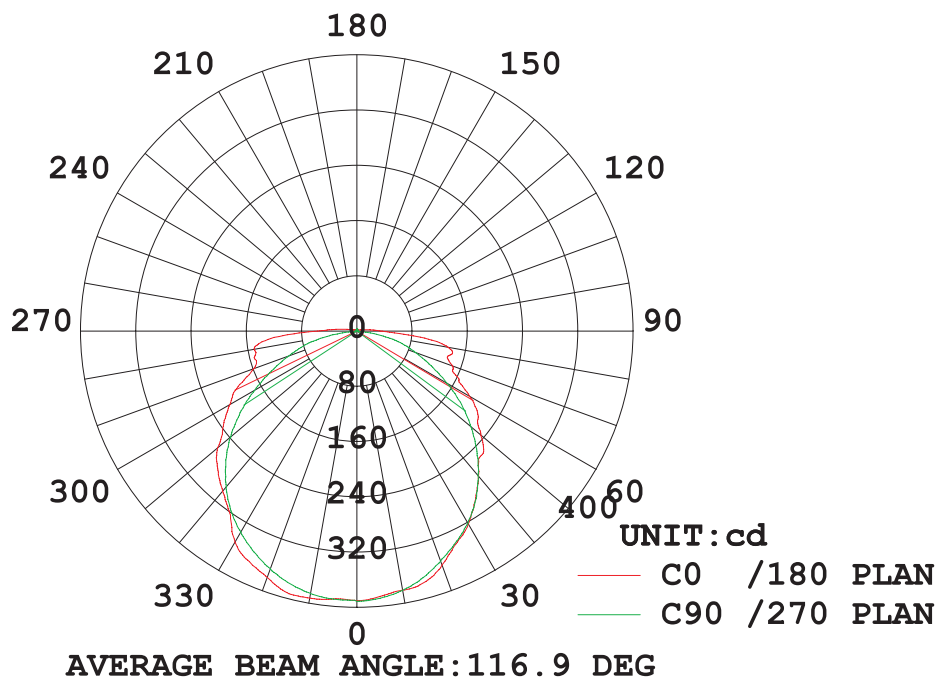
**No Mercury**

# Light Distribution

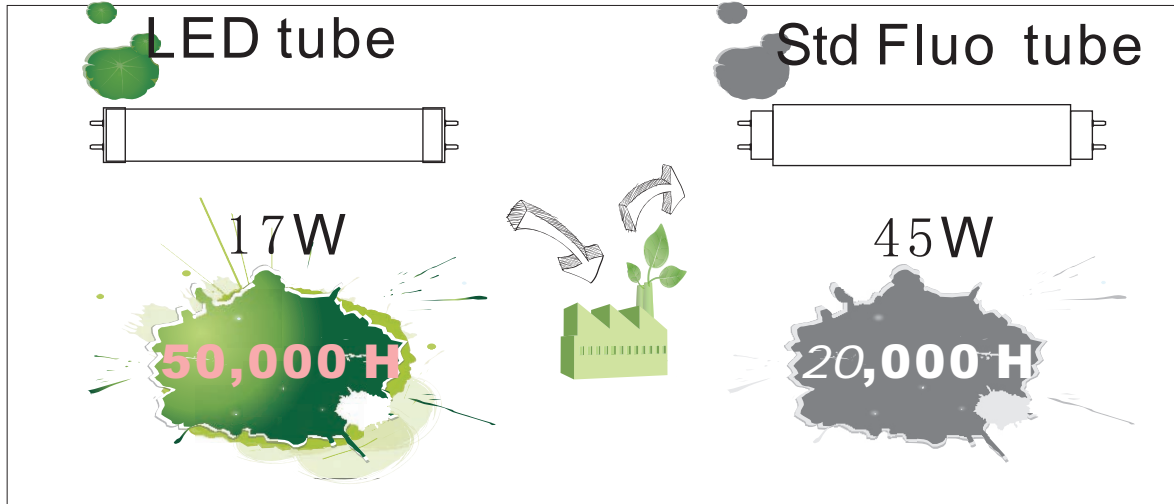
LED has high luminous intensity, high efficient luminous flux output. The angle of LED can be changed, it brings high directional light output.



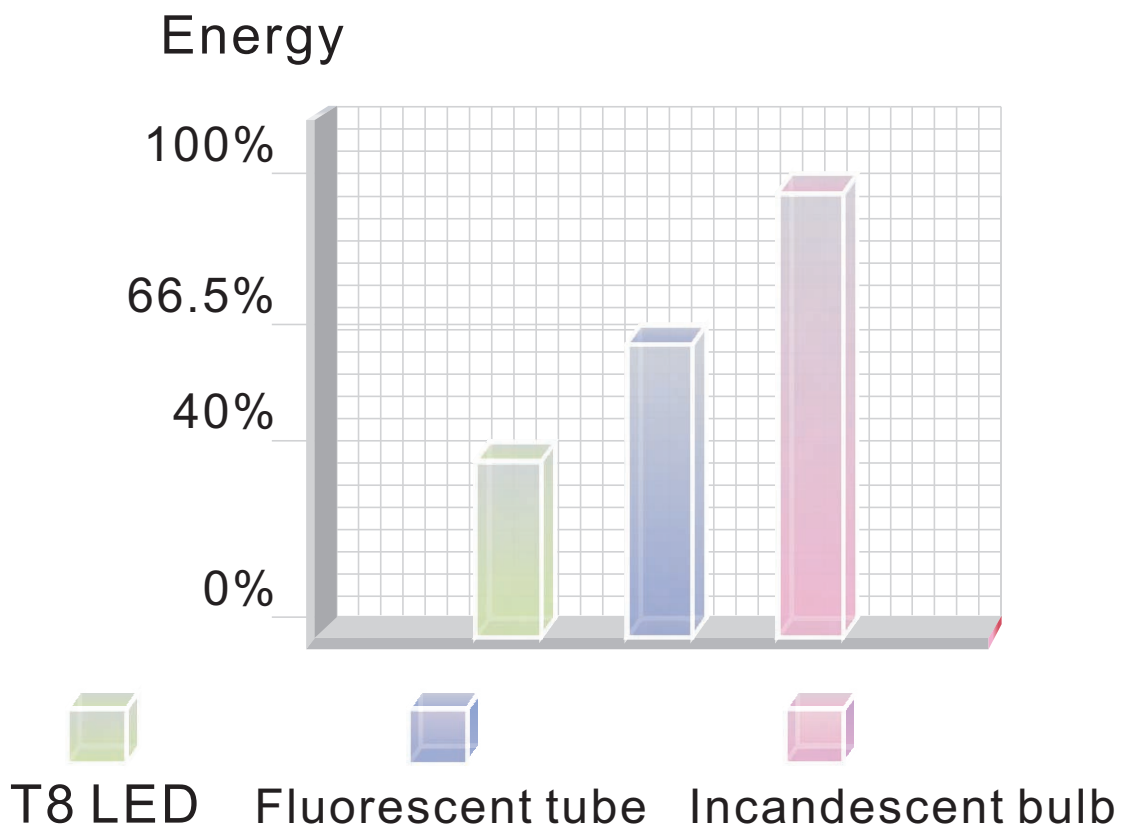
TOTAL FLUX: 1587.5lm



# The Reference of Replacement



T8 LED tubes saves 60% energy compared with incandescent bulb.  
It also saves 40% energy compared with traditional fluorescent tubes.



# Electrical Components

**AISHI**

**DIODES**  
INCORPORATED

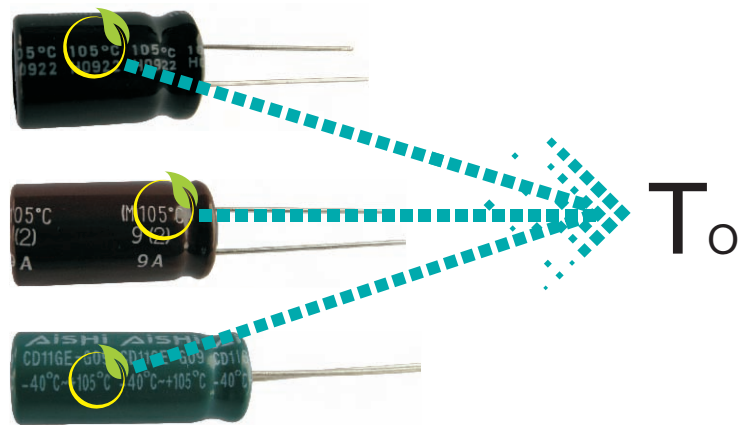
**ST**

**POWER**  
INTEGRATIONS

**FAIRCHILD**  
SEMICONDUCTOR

Aluminum electrolytic capacitor

— The component with the highest risk of lifespan



$$L_x = L_o \times 2^{\frac{T_o - T_x}{10}} \cdot K_1 + K_2$$

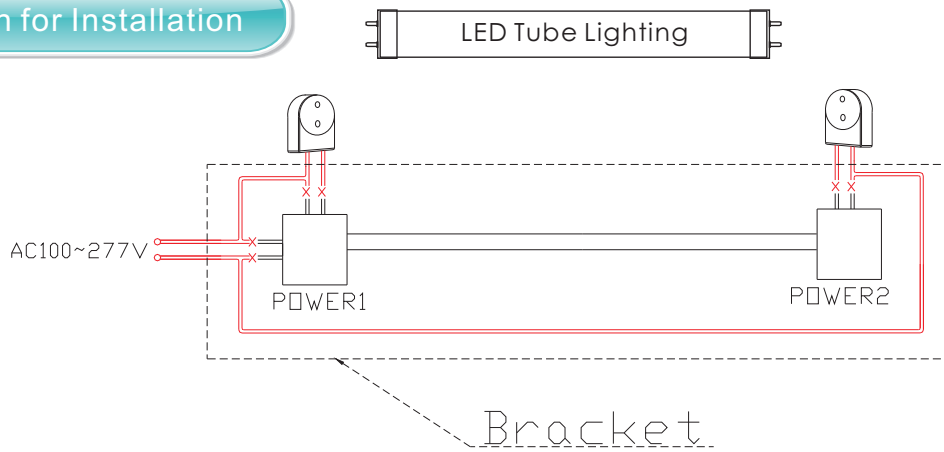
- $L_x$  Life span (hour)
- $L_o$  Rated life span in High temperature (H)
- $T_o$  Rated High temperature ( $^{\circ}\text{C}$ )
- $T_x$  Component temperature ( $^{\circ}\text{C}$ )
- $K_1$  Normal equal 1
- $K_2$  Normal equal 0

$$L_x = 8000 \text{ H} \times 2^{\frac{105^{\circ}\text{C} - 80^{\circ}\text{C}}{10}}$$

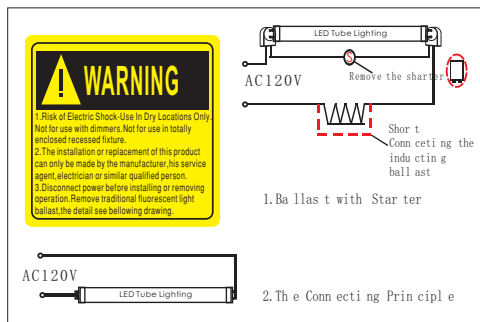
$$\approx 46000 \text{ H}$$

# Installation & Package

## Instruction for Installation



7.4X4.8cm



## Warning Label for Application

## Package




# Certifications & Test

## Certifications

ISO9001:2000


OHSAS 28001-2001



CETL for 4ft  
LED tube light  
(UL 1993 standard)

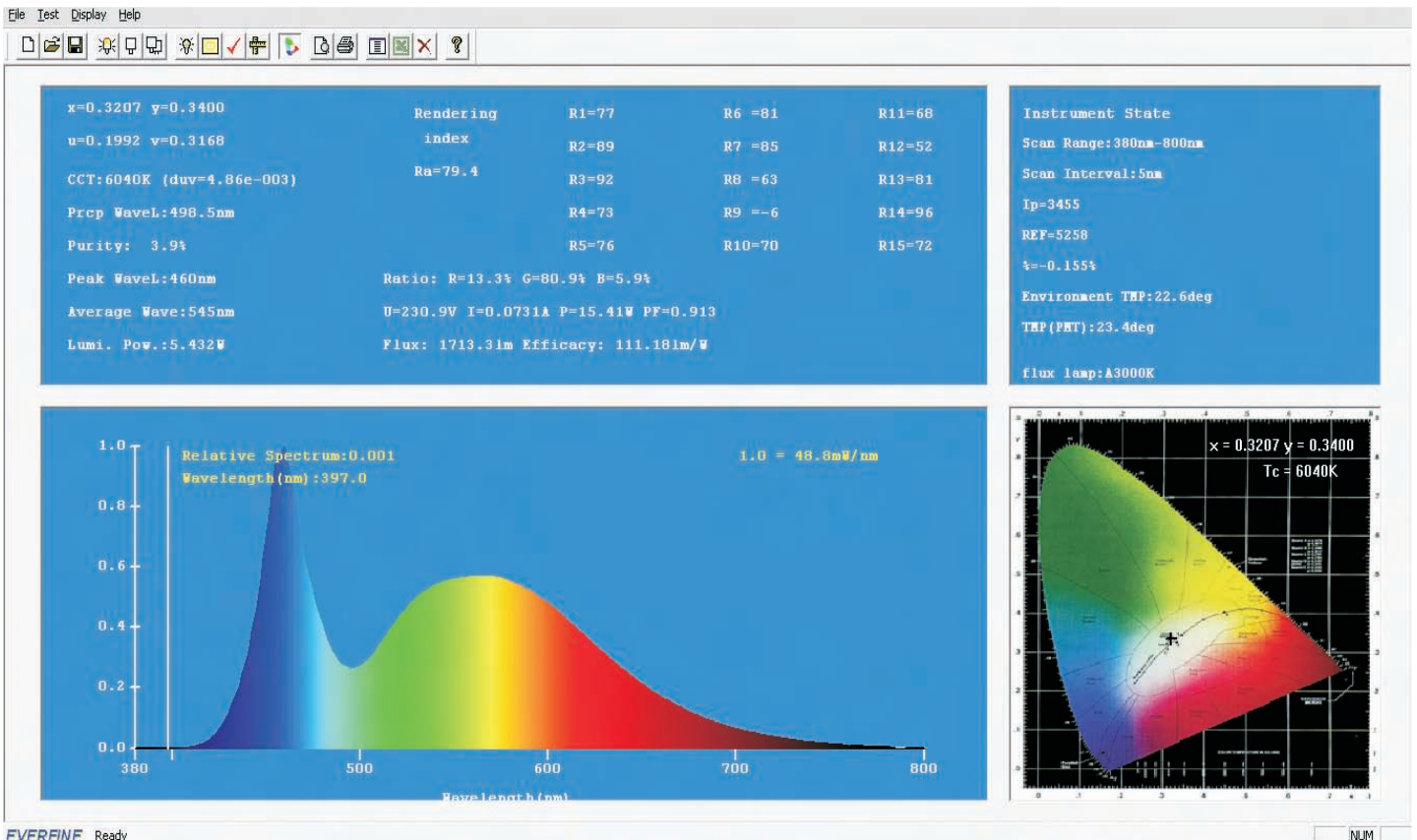
We are one of the first  
companies to obtain  
certification CETL.

HSPM QC 080000



ISO14001:2004

## Spectrum Chart







# Manufacture & Test Instrument



Temperature and Humidity Survive



Optics Spectrometer



Component UL Testing

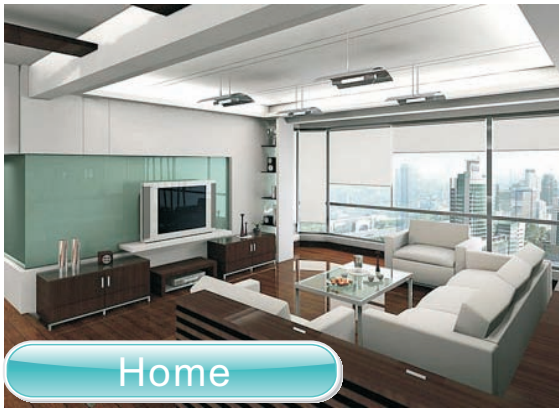


Package Survive Testing



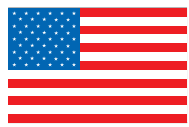
SMT

# Applications



# Nations in Sales

By now, our products have been in all of the world, and they are very popular. Some of main countries are:



USA



UK



Canada



Russia



Chile



Singapore



Brazil



Germany



Argentina



Austria



Mexico



Netherlands



Australia



Egypt



France