



## What is Difference between led and uv lamp

### First we will be able to analyze it for wavelength:

\* Incandescent lamp or fluorescent lamp as visible light, **wavelength in 400-720nm**.

\* The ultraviolet lamp light (it belong to invisible), which is below the violet spectrum, the wavelength is smaller than the violet, **wavelength in 110-400nm**.

### \* Working principle

\*Incandescent light energy is converted into electrical energy to provide lighting equipment, its working principle is: Use enough heat to lighting-----produce the heat when the current through the filament (tungsten wire, the melting point of more than 3000 degrees Celsius degrees), a helical filament will continue to accumulate the heat, makes the filament temperatures up to 2000 degrees Celsius degrees above, like burning red iron can shine like a light. The higher the temperature of the filament, the brighter the light is emitted. It is called incandescent lamp.

\*The UV LED application to be more wide – ranging .The uv led is how their plan would work---the electrons and holes in the semiconductor are coupled under the influence of external power supply.so that the electrons will be released in the form of photons.

### Then analysing the major functions:

\*The Incandescent lamp or fluorescent lamp are used in lighting, as auxiliary light.

\*UV led Light curing lamp can emit specific wavelengths of ultraviolet radiation, can be dry quick drying colorful sheetfed offset inks in 0.5-2 seconds, with Fast curing, energy and time saving, space saving, easy to control without high temperature baking, to the substrate has wide adaptability, no pollution and other advantages. Common in paint curing, photochemical reaction, plate making, show the slide, photosensitive solder resist, photosensitive ink etc. the ideal light source. It is commonly used in UV curable ink curing and photochemical reaction. also widely used in screen printing, furniture production, plastic processing and other industries.