How to Compare LCD & LED TV Models?

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Every year a new advance TV model appears in the electronic goods market. With their smart, elegant & sleek designs, flat-panel TVs come in a range of sizes, different technologies, and uniqueness. The most popular ones are the LCD TVs and LED TVs.

When it comes to buying a new TV, you need to consider a number of points like the type of display LCD/LED, their features and specifications. Below you will find all you need to know when choosing your flat-panel TV whether it is an LCD or an LED.

What are the differences and similarities between an LCD or LED?

LCD and LED are display types for your TV and computer. Both use the Liquid Crystal technology for displaying the picture. The biggest difference in LCD/LED is the fancy backlights that LED uses to show images on screen.

LCD TV make use Liquid Crystals which offer a better-quality TV viewing experience compared to the traditional old CRT TVs. These liquid crystals are found inside two polarized glass, fasten together. Electricity is passed through individual crystals, which allow the crystals to pass or block light to create images. The crystals work on external light source like the fluorescent lights. Using the fluorescent light, the image created by the LCD is made visible to the viewer

An LED TV is merely your LCD TV, but uses the light-emitting diodes (LEDs) instead of the CCFLs for backlighting.

Main difference - The LEDs light up the screen while an LCD uses the cold cathode fluorescent light to trigger the liquid crystals.

Which one delivers a superior picture quality?

LCDs come along with a decent contrast ratio and resolution. CCFL is more know for its light leakage issue, meaning you may get gray instead of true black.

LEDs are more known for better contrast ratios and resolution. They deliver true blacks and fair whites, meaning a great quality image.

Viewing Angle

Viewing angle is very important as you need to be able to see the picture clearly on the screen even when you are sitting a slightly to the left or right of the screen. LEDs have a much better contrast ratio, good clarity and delivers sharp images. But in this variance between LCDs and LEDs, both the TVs offer pretty good viewing angles between 0 to 150 degrees.

Color Accuracy

A HDTV is not high-definition if it illustrates the incorrect colors. In LCDs a sole fluorescent bulb delivers light across the screen. But in LEDs there are many bulbs which deliver diverse quantity of light depending on the light and darkness of the image. When it comes to color accuracy, LEDs are known to be more accurate with the best blacks, and best vibrant colors.

Power Consumption

LED come with powerful capacitors that consume less energy, reduce your carbon footprint and energy bills.

Price

When it comes to price, LEDs are a usually more expensive than LCDs all other factors like size, features being equivalent. This is somewhat offset by LEDs consuming less power than LCDs.

The Ultimate Winner

In this LCD vs. LED clash, who is the winner? Bearing in mind the money you will save and decent image quality, LCD bags the trophy. But in case of LEDs, you get true to life image, vibrant colors, and better blacks.

The final decision depends on your personal choice.

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