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What is Plasma TV?

A plasma display panel (PDP) is a flat panel display common to TVs 30 inches or larger. They are called "plasma" displays because the technology utilizes small cells containing electrically charged ionized gases, or what are more commonly known as fluorescent lamps.

Brightness:

Plasma displays are bright, have a wide color gamut, and can be produced in fairly large sizes—up to 150 inches diagonally.

Blackest Black:

They have a very low-luminance "dark-room" black level compared to the lighter grey of the un-illuminated parts of an LCD screen (i.e. the blacks are blacker on plasmas and greyer on LCDs).

LED-backlit LCD televisions have been developed to reduce this distinction. The display panel itself is about 6 cm (2.5 inches) thick, generally allowing the device's total thickness (including electronics) to be less than 10 cm (4 inches).

Power hungry!

Plasma displays may use as much power per square meter as a CRT or tube televisions. Power consumption varies greatly with picture content, with bright scenes drawing significantly more power than darker ones – this is also true of CRTs. Typical power consumption is 400 watts for a 50-inch (127 cm) screen. 200 to 310 watts for a 50-inch (127 cm) display when set to cinema mode. Most screens are set to 'shop' mode by default, which draws at least twice the power (around 500–700 watts) of a 'home' setting of less extreme brightness.

Plasma's Lifetime:

The lifetime of the latest generation of plasma displays is estimated at 100,000 hours of actual display time, or 27 years at 10 hours per day. This is the estimated time over which maximum picture brightness degrades to half the original value.

Reflection:

Plasma display screens are made from glass, which may reflect more light than the material used to make an LCD screen. Some find that this causes glare from reflected objects in the viewing area. Some manufacturers now coat their plasma screens with an anti-glare filter material.

If you want help in choosing the best TV for your purpose, contact your home entertainment specialist. They will give you all the details.

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