

## A Background to Plasma Flat Screen TV's and Displays.

People are quite often of the opinion that Plasma Displays are very much the latest in a series of technologies in use within the Flat Screen TV industry of today whereas in fact it is one of the oldest of the technologies available

To bring it down to its most simplistic form plasma display works effectively by housing many thousands of tiny cells located between two panels of glass which are held in a mixture of inert gasses usually Neon or Xenon.

Depending upon the electrical signal generated and the resulting heat from the reaction with the Phosphors the colour in the cells can vary and this tends to lead to another assumption that in the early days Plasma screens were very much power hungry.

Now I know this is a gross over signification of what actually a Plasma Display actually does and this will no doubt cause many a technical geek to start foaming at the mouth but in a nutshell that's what plasma displays do.

With regards to the actual technology itself Plasma technology is probably one of the older forms of technology used for televisions and flat screen TVs in particular since it's been around since 1964 when it was first conceived; for want of a better description at the University of Illinois at Urbana-Champagne.

Screen sizes for plasma displays vary and have increased somewhat since the humble 21 inch displays launched in 1992 and now you can get plasma displays in a variety of sizes and you can now find commercial displays available in excess of 103 inches in screen size.

LCD TV's have certainly closed the technological gap that had hitherto existed between the two technologies and all of the previously strong areas that Plasma had dominated over the years are no longer really applicable at the present stage in time.

Nowadays you'll find that the low electrical power consumption of LCD TV's the lower actual weight and falling prices have actually made LCD TV's much more competitive with regards to Plasma Screens.

From 2006 onwards industry analysts noted that effectively LCD TV's were overtaking plasma displays particularly in the large a 40inch plus market where basically plasma previously enjoyed a massive dominance since the inception of technology. One of the other areas of consolidation within the Industry has seen the Plasma manufacturing base very much consolidate with now over 50 brands being manufactured by only 5 companies; this of course has led to economies of scale hitherto imagined where the technology of more and more screens can be shared and further help cut the overall cost base.

{Historically the superior brightness of Plasma Technology made it a favourite amongst TV designers for the faith rendition it gave the picture quality however this is now starting to be matched with the latest and better quality LCD TV's appearing into the marketplace.}Over the years it has been felt that some of the technological aspects of Plasma technology leant it self more to the higher end of screen performances such as greater brightness control, screen resolution etc) however this is now changing. For quite sometime there was a general misconception within the marketplace that LCD technology only suited small screens and that Plasma was effectively the main provider of all large screens.

## About the Author

Stephen Morgan writes quite regularly on the Internet about TV and Home Entertainment issues and more on the above can be found at [flat screen tv lift](http://flat-screen-tv-lift) and also at <http://bestflatscreentv.biz>

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