

Qled ces 2017. just
two years back in



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QLED VS. OLED When thought of scientific and technological developments, my eyes automatically fall on T. V. and newspaper. The current trending technology is being discussed here. There's a new kind of TV in town, and it's called QLED.

Samsung coined and trademarked the term, announcing the first QLED TVs at CES 2017. Just two years back in one of the college technical fest I gave presentation on OLED and was latest at that time, but we had no clue of QLED. Now within the span of 2 years we can see both OLED and QLED T.

V's in the market competing with each other. So let's see about what led to the invention and difference. QLED which is an acronym for Quantum dot Light Emitting Diodes uses quantum dots (QD), or semiconductor nanocrystals, in a photo-emissive layer to improve efficiency of the backlight in LED-backlit LCDs, or potentially in electro-emissive displays with active pixels emitting light on their own. Electro-emissive quantum dot displays are an experimental display technology based on quantum-dot light-emitting diodes.

This display technology would be similar to active-matrix organic light-emitting diode (AMOLED) display, in that light would be emitted on demand, which would enable more efficient display. QLED will be the next gen technology. Quantum dots LED display could support large, flexible displays and would not degrade as readily as OLEDs, theoretically making them good candidates for flat-panel TV screens, digital cameras, mobile phones and personal gaming equipment. In the world of visually stunning displays, OLED is the gold standard, but Samsung's QLED technology is looking to challenge

this supremacy. Comparison of various parameters: Now we'll put the two technologies against each other on a point-by-point basis and see how they stack up in terms of contrast, brightness, and other performance

Parameters	OLED	QLED	Better	Black level	ü	x	Better
Brightness	X ü	Colour space	—	—	Less	Response time	ü
Input lag	—	—	Better	Viewing angles	ü	X	Large Size
Life span	X ü	Less	Power consumption	ü	X	Price	—
							—

Table: Comparison between OLED and QLED ü - Better performance than the other X - Bad performance than the other — - Draw between

two However, the future looks bright for both OLED and QLED, most companies and industry experts expect the technologies to improve over time. On the OLED side, you can expect price to come down and more companies to join the fray. With QLED, however, we might see significant advancement.

Samsung's current QLED technology uses a quantum dot "film" that it attaches to an LCD panel to create a picture. By 2019, Samsung is expected to debut a "self-emissive display technology" that will use quantum dots. The feature will be similar to OLED and will not require a light source in order to deliver colour, which means that QLED sets will become thinner, thus competing with OLED even more. Sources: 1. <https://www.tomsguide.com/us/qled-vs-oled,news-25142.html> 2. https://en.wikipedia.org/wiki/Quantum_dot_display 3. <https://www.digitaltrends.com/home-theater/qled-vs-oled-tv/> V.