



## Company description

*Word count: 300 words*

Cambridge Display Technology (CDT) is a subsidiary of Sumitomo Chemical of Japan. CDT is headquartered at Cambourne near Cambridge, UK, and was originally spun out of Cambridge University in 1992. Today it leads the research and development of organic light emitting polymer technology used in displays, and with potential application in lighting and other organic semiconductor applications. This technology is often referred to as OLED (or P-OLED), standing for 'polymer organic light emitting diode'.

CDT holds an extensive patent and know-how portfolio relating to the use of conjugated polymers and the manufacture of devices based on them.

CDT's technologies are based on organic chemicals that emit light when stimulated electrically, and the resulting devices are used in electronic displays for information management, communications and entertainment, potentially including the next generation of flat-panel televisions.

Features that drive consumer adoption of the technology include extreme thinness and lightness, lower power consumption, very wide viewing angles, high contrast ratio and very fast video response. Display makers believe there is the potential for cost reduction compared with the incumbent LCD and plasma technologies.

CDT continues to develop the technology and manufacturing processes with its large team of scientists, and has made dramatic breakthroughs in improved lifetimes, efficiencies and colour values. It develops P-OLED manufacturing processes at its Technical Development Centre near Cambridge, and materials innovation at its Materials Research Centre in Cambridge.

In 2007, CDT was acquired by Sumitomo Chemical following a long and fruitful relationship between the two companies. It is currently focused on scale up of manufacturing processes, leveraging its IP and manufacturing know-how and establishing close partnerships with major display and lighting manufacturers.

Several of the world's display makers have active P-OLED research and development programmes, and CDT supports them to develop the technology and to accelerate its commercial adoption.