



Summary

Technology does more than accelerate innovation of new products—it also accelerates their maturation and eventual demise. And with the rapid advancement of technology, this maturation is happening faster than ever before. The same phenomenon is currently playing out for transparent thin film conductors. Indium tin oxide (ITO) was initially revolutionary for its combination of electrical conductivity and optical transparency, but things are changing. It is becoming increasingly challenging to successfully apply ITO to cutting-edge industrial design trends for sculpted electronics and a growing prevalence of flexible displays.

A newly emerging class of CNT hybrid films is rivaling the incumbent's electrical conductivity and optical transparency while simultaneously delivering flexibility, affordability, and economy of manufacturing that is beyond ITO's reach. Even when compared to the full range of ITO alternatives, CNT hybrid films offer performance advantages worthy of placement on the technology short list for your next innovative electronic product.

This whitepaper details the advantages and disadvantages associated with the existing ITO alternatives currently on the market and for new commercially available conductive films, particularly for their relevance in a range of contemporary electronic device applications. Equipped with this information, you will gain an understanding of the full range of available options to inform sound technological decisions while innovating your next development product.



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