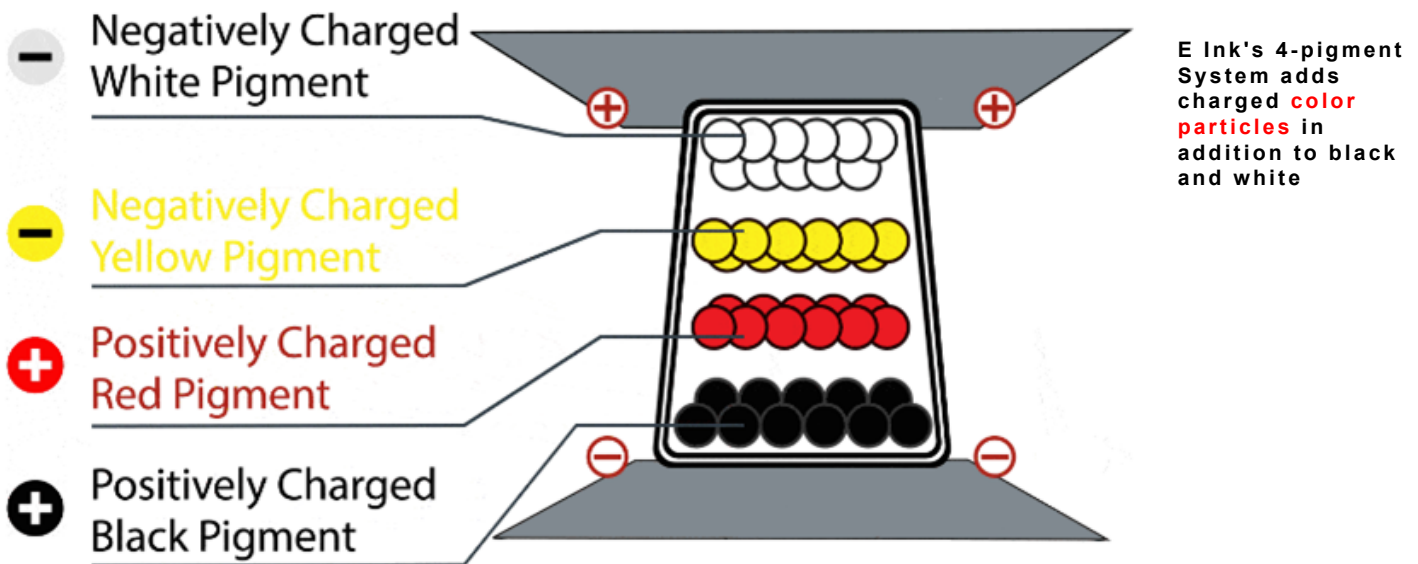




## Four Pigment Ink System – E Ink Spectra™ 3100

E Ink Spectra 3100 is E Ink's next generation Spectra product. Spectra 3100 is a four pigment ink system which incorporates retailer's requests for additional color functionality, by utilizing black, white, red and yellow particles to offer vibrant color rich content. Spectra 3100 has an improved update time, and an expanded temperature range for red and yellow states, to satisfy retailers' needs to operate ESL tags in various environments within their stores. In addition, Spectra 3100 will be offered in panels with an updated all-in-one driver IC that supports premium ESLs with higher resolution across various sizes.



# Print Color ePaper- E Ink Kaleido™

E Ink Kaleido™ displays offer 16 levels of grayscale and are capable of displaying 4096 colors, enable ultra low power and high mobility devices with a paper-like experience, ideal for image-rich information applications such as charts, graphs, maps, photos, comics and advertising. And just like E Ink's monochrome ePaper products, Kaleido's crisp text and detailed color graphics are fully viewable in direct sunlight, and have the same low power attributes.

An E Ink Kaleido™ Module is comprised of a TFT backplane, Ink layer, Color Filter layer and Protective Sheet.



E Ink Kaleido™ utilizes a new printed Color Filter Array (CFA) technology in conjunction with E Ink's second generation Carta ink, which is faster and brighter than previous generations. The new printing process alleviates the need for a glass-based CFA, making the displays thinner and lighter than previous generations, while simultaneously having higher optical quality. This allows eReader companies to combine the power of traditional black and white displays with color for a more fully realized eBook shopping experience. In addition, E Ink's faster ink enables quicker updates for animations and page turns. With this new color technology, E Ink's eNote product lines are now able to introduce writing tablets with color highlighters, pens and markers, giving new options for education and professional devices.

E Ink Kaleido™ Plus (New Kaleido)  
In early 2021 E Ink released a new generation in the Kaleido family, named E Ink Kaleido™ Plus. In this new version, we've made adjustments to the printed CFA, to allow for a better color balance, and printing texture, and we've brought the CFA closer to the ink, to reduce light scattering. New image rendering algorithms allow for crisper text. In addition, we have made adjustments to the light guides, allowing for better optimization of the LED color spectrum to minimize color blending.

Applications  
eReader, eNote, Smartphones and more.



# Advanced Color ePaper (ACeP)- E Ink Gallery™

Advanced Color ePaper (ACeP™) is a high quality, full color reflective display. In the ACeP™ system, the ink can produce full color at every pixel, without the use of a color filter array (CFA).

ACeP™ achieves a full color gamut, including all eight primary colors, using only colored pigments. The display utilizes a single layer of electrophoretic fluid which is controlled using voltages compatible with commercial TFT backplanes. The fluid can be incorporated into either microcapsule or Microcup® structures. The richness of the colors is achieved by having all the colored pigments in every picture element (pixel) rather than the side-by-side pixel colors achieved with a CFA. This eliminates the light attenuation, which can be quite significant. ACeP™ maintains the ultra-low-power and paper-like readability under all lighting conditions of regular E Ink ePaper.



## Applications

Digital signage, public information board, menu board, gallery and more.