



## New PixClear™ Nanocrystal Dispersions Deliver More Light Management Solutions

Pixelligent revolutionized light management in display and lighting applications when it introduced its PixClear™ Zirconia nanocrystal dispersions. PixClear™ has now expanded with the addition of three new products – PixClear™-PG and PixClear™-PN formulations, and PixClear™ 4CAP. The two new formulations will provide device manufacturers with additional light management solutions for numerous display and lighting applications. The PixClear™ 4CAP is a collection of the four most requested formulations that customers can use to accelerate the down-select process for their application requirements.

PixClear™ is currently being used in touch screens, CMOS image sensors, HB LED and OLED applications, and clear protective films. When incorporated into modern touch screens and displays, the nanoadditives significantly increase light output and readability. PixClear™ also increases the light output and efficiency of lighting applications such as HB LEDs and OLEDs, and when incorporated into clear protective films significantly reduces glare/sparkle and improves scratch resistance.



All four formulations of PixClear™ and PixClear™ 4CAP can be ordered online at [www.pixelligent.com/nano](http://www.pixelligent.com/nano) or by calling Shree Deshpande at 877-333-9245 ext. 1.

Applications	Properties	Advantages
<ul style="list-style-type: none"> <li>ITO Hiding Layer for Touch Screens</li> <li>LED &amp; OLED Light Extraction</li> <li>CMOS Image Sensor Lenses and Packaging</li> <li>Hard Coatings with Index Matching</li> <li>Wafer Level Opto Assemblies</li> </ul>	<ul style="list-style-type: none"> <li>Tunable Nanocrystal Size from 3 nm to 7 nm with Narrow Size Distribution</li> <li>Highly Crystalline</li> <li>Well Passivated Surface</li> <li>Aggregate Free Suspensions</li> <li>Compatible with Various Solvents, and Polymers</li> <li>High Specific Surface Area</li> <li>High Bulk Hardness</li> </ul>	<ul style="list-style-type: none"> <li>High Refractive Index, 1.85+</li> <li>Highly Transparent at the Visible Wavelengths</li> <li>Low Haze Coatings at High Nanocrystal Loading, 80%+</li> <li>Improved Scratch Resistance and Hardness</li> <li>Improved Chemical Resistance and Anti-Corrosion</li> <li>Easily Integrated into Existing Manufacturing Processes</li> </ul>