Supplementary Information-

Phase Contraction, fluorescence quenching and formation of topological defects in chiral smectic C matrix by  $Cd_{0.15}Zn_{0.85}S/ZnS$  core/shell quantum dots dispersion: Ultra-fast electro-optic response for gadget display application<sup>†</sup>

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Figure S1. Differential scanning micrograph (DSC) of FLC + ZnS shell.

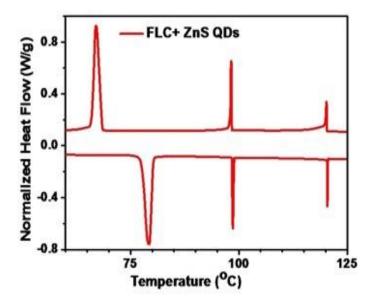


Figure S2. Polarized optical micrographs (POMs) of FLC + 0.3 wt% Cd<sub>0.15</sub>Zn<sub>0.85</sub>S/ZnS CSQDs at the vicinity of SmC\*-Cr phase transition.

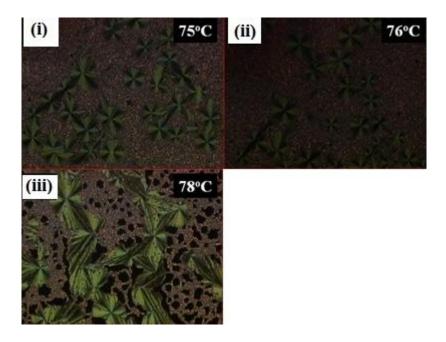


Figure S3. Small/Wide angle X-ray scattering (S/W AXS) spectrum of the pristine FLC compound in SmC\* phase (T = 81 °C).

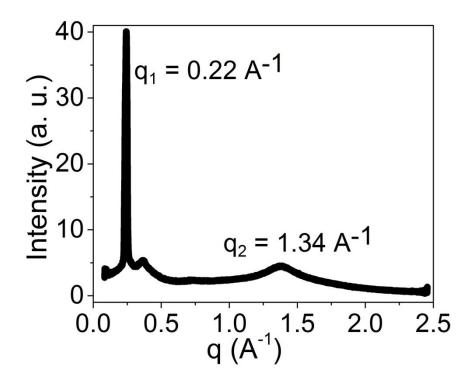


Figure S4. Polarized optical micrographs (POMs) and corresponding schematic representation of the molecular arrangement in pure FLC matrix and FLC/CSQDs composites.

