<u>nanosys</u>

NANOSYS THE **TECHNOLOGY** QUANTUM DOT **ROADMAP** COMPANY

PLATFORM FOR ALL FUTURE DISPLAYS

From LCDs to OLEDs and micro-LED displays to printable electroluminescent displays, Quantum Dots are the technology platform for all future displays.

QDEL Δ

Quantum Dot **Electro Lumiscent**

The future emitter material for emissive displays, QDEL will finally make low-cost, ultra-thin and flexible displays a reality.



Quantum Dot Color Conversion

Printed or photo lithography-patterned Quantum Dot Color Conversion technology improves LCD, microLED and OLED displays. With QDCC, new levels of color volume performance and manufacturing throughput are possible for all three technologies.



Quantum Dot On Glass

QDOG delivers all of the color and brightness benefits of QDEF in an incredibly thin package. This lower cost QD implementation eliminates the need for barrier films and enables 5mm-thin LCD TVs.



QDEF

Quantum Dot Enhancement Film

Enabling a new generation of brighter, more efficient displays with lifelike colors, QDEF gives LCD technology an important edge as it battles new entrants such as WOLED.

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PHOTO ENHANCED

Quantum Dot Enhancement Film



- viewing angle • No Compromised Colors: Pure RGB color, no white subpixel
- Simplifies the Display Structure
 RoHS compliant: 100% cadium free
 Low Cost: Solution processable via ink jet





Anode

Blue OLED Emitter Stack



Back Cover





Display

Anode

QDEL

Cathode



Cover

- Future emitter material for emissive displays delivers on the promises of OLED
- Emissive technology: perfect black levels
- Perfect color and viewing angle: no micro-cavities required
- Rugged, inorganic materials: true HDR luminance and improved reliability
- RoHS compliant: 100% cadium free
- Low cost: solution processable via ink jet, transfer or gravure printing

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