First 200 dpi Transparent OLED

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Researchers at Universal Display and K yung Hee University achieve the highest resolution in a transparent OLED display to enable new potential uses for see-through flat-panel screens.

Universal Display Corporation, the Company that's lighting the way in developing and commercializing OLED displays, today announced the development of the world's first high-resolution, active-matrix, transparent OLED (AM-TOLED) display using the Company's PHOLED™ phosphorescent OLED and TOLED® transparent OLED technologies along with amorphous silicon (a-Si) backplane technology developed by Professor Jin Jang at Kyung Hee University in Seoul, Korea.

The development of this high-resolution transparent OLED display is a step toward putting thin, low power, full-motion video displays that provide transparency when turned off into a variety of applications where preserving partial visibility or bi-directionality is important. These include architectural vision glass, entertainment, medical and industrial products, helmet shields for military, Homeland Security, fire and rescue applications, and oth er applications as yet unimagined .

This advance will be reported in a joint paper presented at the Society for Info rmation Display (SID) International Symposium, Seminar & Exhibition, on May 26 th by Dr. Yeh-Jiun Tung , Senior Scientist at Universal Display, at the Hynes Convention Center in Boston . Universal Display is demonstrating this 120 x 160 (QQVGA), 200 dots-per-inch (dpi) monochrome AM-TOLED, as well as an expanded line of

PHOLED materials and other technology advances at SID booth #300 on May 24-26.

“This advance leverages the high-efficiency of our phosphorescent OLED technology, adding further support for the viable integration of OLEDs on amorphous silicon (a-Si) TFT backplanes in a variety of OLED displays,” stated Steven V. Abramson, President and Chief Operating Officer of Universal Display. “Working with talented researchers at Kyung Hee University 's Advanced Display Research Center , led by Professor Jin Jang, we have achieved an exciting milestone in demonstrating the world's highest resolution, active-matrix transparent OLED display.”