



PRESS RELEASE

JBD's 0.13" J013X01VGA Am μ LED™ MicroLED Displays, is a key enabling component for Information based Augmented Reality systems

Shanghai, China, 11th June 2021 – Jade Bird Display (Shanghai) Limited, JBD a leading microLED display manufacturer, has announced the Worldwide release of its 0.13" diagonal J013X01VGA microLED display series targeting information based Augmented Reality applications. Following the successful launch of the J013X01VGA 0.13" diagonal Am μ LED™ microLED displays last year, this series of microLED displays has received a tremendous amount of interest from various OEMs designing information based Augmented Reality products.

This series of microLED displays has an active area of 0.13" (3.3 mm) in diagonal and a resolution of 640X480, possibly making it the world's smallest and brightest VGA display panel ever made. Small and extremely powerful, the panels deliver luminance of 0.2 M nits, 4 M nits, and 0.5M nits for red, green, and blue, respectively for a power consumption of only a few hundred milliwatts under average operation conditions. Due to its ultra-compact footprint, high brightness, micro lens array (PixelOptics™) & end-of-line uniformity (Demura) correction this display has been widely accepted by OEMs developing information based Augmented reality systems such as Smart glasses, Sports AR glasses/goggles, holographic sights, sports optics & HUD for motorcycles.

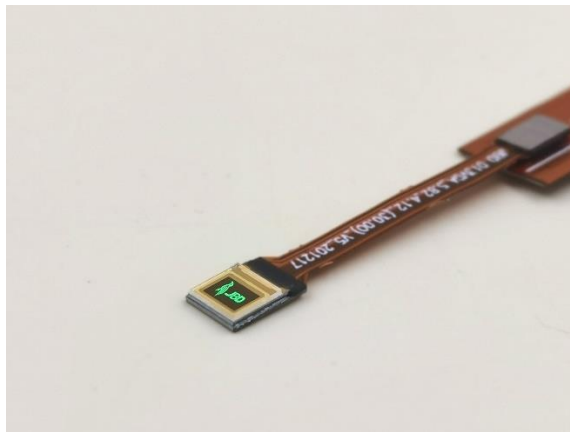


Image 1. JBD's 0.13" diagonal J013X01VGA microLED display

The display is also seen as a breakthrough component for its adoption into smart glasses by our waveguide and optical components manufacturing partners as they enable the design of the tiniest of projectors (also known as light engines) which further facilitates the development light and all day wearable smart glasses. Our partnership with Vuzix has recently been further strengthened as we have codeveloped one of the smallest form factor, brightest and most efficient projection engines for diffractive waveguides using our 0.13" microLED displays. Polychrome projectors are also in development using red, green and blue monochrome displays with a colour-combining X-cube and collimation lenses.



Image 2. MicroLED Projector developed by Vuzix using JBD's 0.13" J013X01VGA microLED display



Image 3. Polychrome MicroLED optical module using JBD R, G & B panels, X-cube & Vuzix Polychrome waveguide

About Jade Bird Display

Founded in 2015, JBD has been focusing on developing the smallest, brightest, and most efficient micro-display panels. With a fab established in Shanghai CHINA, JBD is considered as one of the leaders in microLED display technologies with its portfolio of active matrix microLED displays. For more information, visit JBD's [website](#), [Linkedin](#) or [Twitter](#) pages.

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