

Chengdu Chenxian Optoelectronics Co., Ltd. was established in August 2020. It is the first high-tech enterprise in Chinese mainland dedicated to the research and development, production and sales of TFT-based Micro-LEDs. By the end of 2025, Chenxian Optoelectronics had filed a total of 1,186 patents, of which invention patents accounted for over 96%. The company built the first TFT-based Micro-LED pilot line in China in just 10 months, lit up the first TFT-based Micro-LED mass production line in Chinese mainland, and achieved mass production and shipment by the end of 2024. Currently, Chenxian Optoelectronics has mastered core technologies such as mass transfer, drive architecture, seamless splicing and mixed Bin technology. With the mission of "Leading the Micro-LED Industry through Scientific and Technological Innovation", the company strives to help China's new display industry grow stronger.

The World's First 135" P0.7 TFT-Based Micro-LED Display Screen



Adopting advanced AM driving technology, the product enables independent control of each pixel, delivering a more uniform and stable picture and completely solving the problem of uneven brightness in traditional LED large screens. Leveraging the self-luminous feature of Micro-LEDs, the screen can present pure black, extremely high contrast and natural, vivid colors, providing an immersive viewing experience. It is widely applicable to high-end scenarios such as professional cinemas, high-end private cinemas, command and dispatch centers, and commercial exhibitions.

Product Highlights

Energy-Efficient Cool Screen: Maximum power consumption $\leq 260\text{W}/\text{m}^2$,

temperature rise < 15K

Eye-Friendly Comfort: AM driving, instantaneous LED light emission close to visual brightness

Long-Term Flatness: High flatness glass substrate with a low thermal expansion coefficient, no deformation during long-term use

Seamless Splicing: Low thermal expansion coefficient of glass material, splicing gap $\leq$ 20 microns

Stability and Reliability: TFT driving technology, reducing drive devices by 90%

No "Caterpillar Effect": Independent driving of each pixel, fundamentally eliminating the "caterpillar effect"

Vistar v0129153 内部公开