



# MicroLED Display Solutions

GaN-on-Silicon, monolithic microLED technology for HUD, HMD, AR and MR applications.



HIGHER  
BRIGHTNESS



SHARPER  
RESOLUTION



FASTER  
PERFORMING



SMALLER  
FORM FACTOR

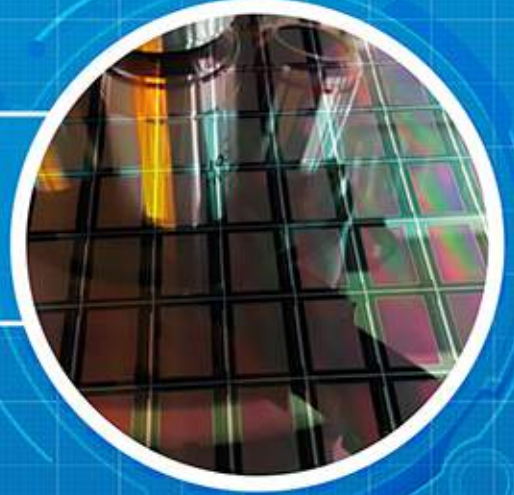
For further information on Plessey microLEDs please contact us:

+44 1752 693123 | [microleds@plesseysemi.com](mailto:microleds@plesseysemi.com) | [www.plesseysemi.com/microleds](http://www.plesseysemi.com/microleds)



## LED PLATFORM GAN-ON-SILICON

GaN-on-Silicon platform has many advantages over sapphire based LEDs; better thermal performance, focused light-emitting surface, wafer uniformity and large scale wafer manufacture.



## PROCESS MONOLITHIC

A monolithic approach allows the production of a full microLED array in one process. This is more cost effective and less time consuming than the pick and place method currently adopted.



## RGB EMISSIVE DISPLAYS

With proven pixel capabilities down to  $1\mu\text{m}$ , Plessey's microLED arrays provide HD resolution on a 0.7" chip with 4K and form factor reduction to follow.



### microLEDs versus other display technologies:

As microLEDs are set to become the new technology for AR, HUD and next-generation displays; Plessey's emissive monolithic microLEDs, compared with other display technologies, are brighter, smaller, lighter, more energy-efficient and have a longer operating life.

As a replacement for OLED, microLEDs offer higher brightness and sharper resolution at half the power consumption of existing display technologies, which doubles the battery life in portable devices. Unlike OLEDs, microLEDs also feature perfect blacks, realistic colour and immunity to burn-in or decay overtime.