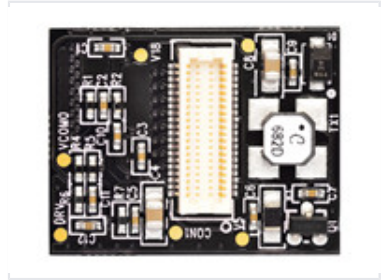


# 0.5-inch SVGA AMOLED Microdisplay

This 0.5-inch AMOLED microdisplay has a SVGA (800x600) resolution. It integrates full digital video signal processing and driver units on a silicon substrate, compatible with ITU-R BT.601/656 standard video formats.



## Overview

### High-Performance AMOLED Microdisplay

The SVGA050 is a versatile 0.5-inch AMOLED microdisplay offering a sharp SVGA (800x600) resolution. Built using 0.18 $\mu$ m CMOS technology, it integrates full digital video processing and driver units directly onto the silicon substrate. This compact module is designed for demanding near-to-eye applications, supporting flexible control over display parameters like brightness, contrast, and gamma correction.

## Display Specifications

Display Size	0.5 inch
Resolution	800 x 600 (SVGA)
Available Color Modes	Full Color, Mono White, Mono Green, Mono Red

## Technical Details

### Video Signal Compatibility

- ITU-R BT.601
- ITU-R BT.656
- 8-bit video format
- 16-bit video format
- 24-bit video format

CMOS Technology	0.18 $\mu$ m
I/O Compatibility	1.8V - 3.3V CMOS

## Control & Interface

### Adjustable Parameters

- Display mode
- Direction
- Position
- Brightness
- Contrast
- R/G/B offset
- Gamma correction

Control Interface	2-wire serial interface
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## Applications

### Ideal Applications

Near-to-eye systems • Head-mounted displays • Projectors • Optical systems