

Product Summary

0.94 cm (0.37Type) Silicon Reflective Liquid Crystal Display

SXRD241

1. Description

The SXRD241 is a 0.94 cm diagonal reflective liquid crystal display panel with built-in drivers using a single crystal silicon backplane, and enables the full-color display by color sequential system.

The panel supports FHD resolutions of 1920×1080. It provides film-like picture quality with high contrast and high aperture ratio that can be free from the grainy mesh effect. The capability of displaying smooth moving pictures with a rapid optical response and 360Hz•480Hz•600Hz operation frequency makes it ideal for use in portable projectors.

(Applications: portable projector, filming equipment)

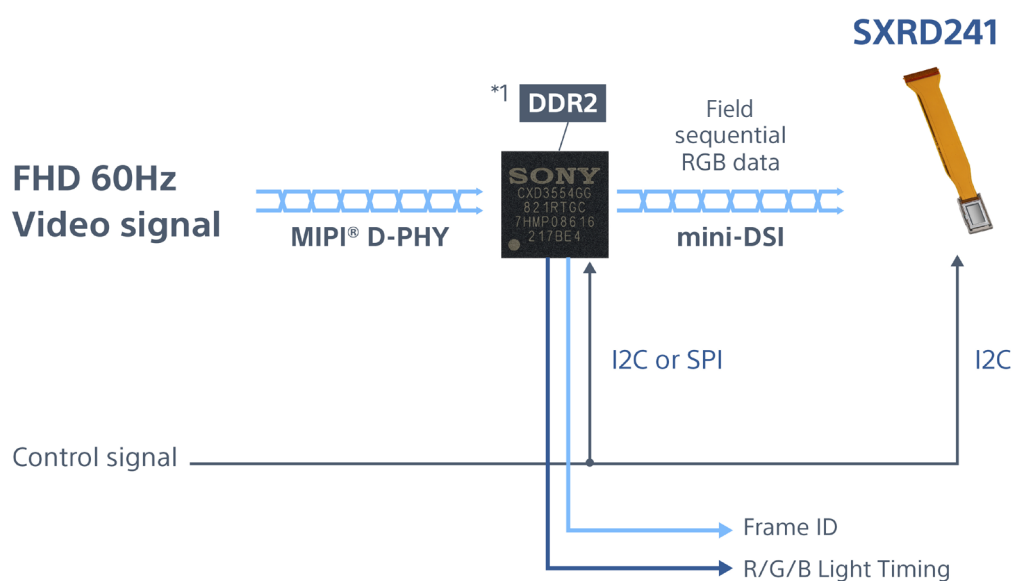
2. Features

- ◆ 0.94 cm in diagonal (0.37 inch type)
- ◆ Supports FHD format(Screen aspect ratio 16:9)
- ◆ Number of dots: 1920 (H) × 1080 (V) = 2,073,600
- ◆ Total number of pixels: 1984(H) × 1088 (V) = 2,158,592
- ◆ Pixel pitch: 4.3 μm
- ◆ High reflectivity: 82 % (Typ. 550 nm)
- ◆ Rapid optical response (rise time/fall time) 0.6ms / 1.0ms (Typ.)
- ◆ Vertically aligned liquid crystal
- ◆ High light resistance
- ◆ Color sequential system
- ◆ Dust-proof glass package
- ◆ Normally black mode
- ◆ Maximum operation frequency: 600Hz
- ◆ Embedded thermal sensor and heater function
- ◆ Embedded timing controller/Programmable Gamma Buffer

3. Power supply voltage used, Temperature range

Item	Rated	Unit
Operating temperature range	-10~+60	°C
Storage temperature range	-20~+70	°C
Power supply	6.0±0.2 1.5±0.1	V

4. System block diagram



*1 DDR2: Required when using the Keystone function

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(Unit: mm)

