

## Product Summary

### 1.4 cm (0.55Type) Silicon Reflective Liquid Crystal Display

# SXRD242

#### 1. Description

The SXRD242 is a 1.4 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•720Hz•840Hz•960Hz operation frequency makes it ideal for use in portable projectors.

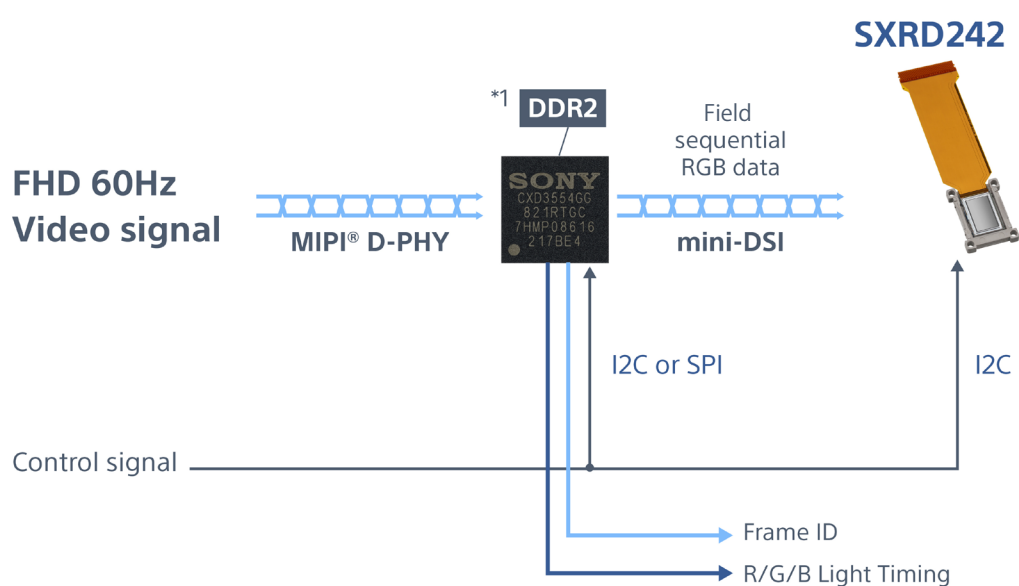
#### 2. Features

- ◆ 1.4 cm in diagonal (0.55 inch type)
- ◆ Supports FHD format (Screen aspect ratio 16:9)
- ◆ Number of dots:1920 (H)×1080 (V) = 2,073,600 (Available: 2048(H) x 1080(V))
- ◆ Total number of pixels: 2112(H) × 1088 (V) = 2,297,856
- ◆ Pixel pitch: 6.4 μm
- ◆ High reflectivity: 87% (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: 960Hz
- ◆ Embedded thermal sensor and heater function
- ◆ Embedded photo sensor function
- ◆ Embedded timing controller/Programmable Gamma Buffer

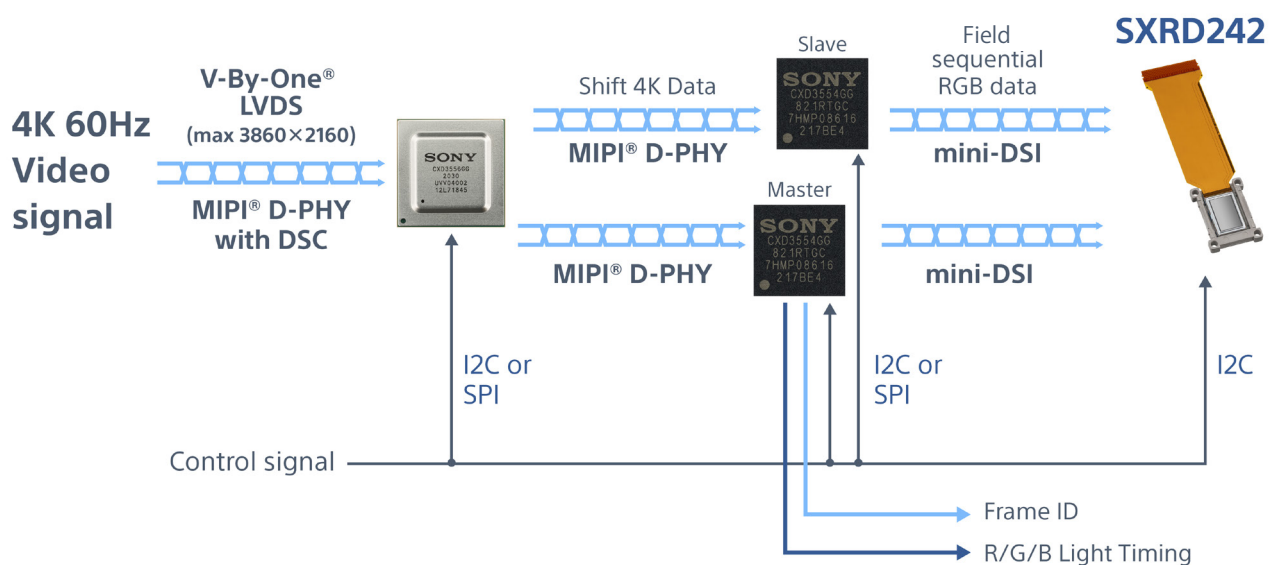
### 3. Power supply voltage used, Temperature range

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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## 5. Package Outline

(Unit: mm)

