

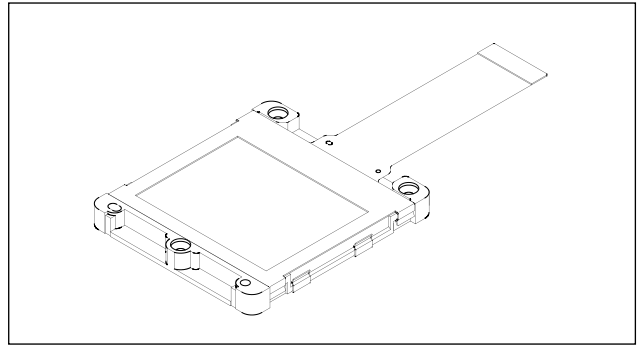
## 4.6cm (1.8-type) Black-and-White LCD Panel

### Description

The LCX036AMT is a 4.6cm diagonal active matrix TFT-LCD panel addressed by polycrystalline silicon super thin film transistors with a built-in peripheral driving circuit. Use of three LCX036AMT panels provides a full-color representation. The striped arrangement suitable for data projectors is capable of displaying fine text and vertical lines.

The adoption of a dot-line inverse driving system, 2-series gate pulse driving systems, dot-sequential + lump precharge driving system and a gate wsi structure realizes high picture quality and a high aperture ratio.

This panel has a polysilicon TFT high-speed scanner and built-in function to display images up/down and/or right/left inverse. The built-in 5V interface circuit leads to lower voltage of timing and control signals.



### Features

- Number of active dots: 1,931,216 (1.8-type, 4.6cm in diagonal)
- High optical transmittance: 25% (typ.)
- Built-in dot-line inverse driving circuit
- Built-in 2-series gate pulse driving circuits
- Built-in dot-sequential + collective precharge driving circuit
- High contrast ratio with normally white mode: 400 (typ.)
- Built-in H and V drivers (built-in input level conversion circuit, 5V driving possible)
- Up/down and/or right/left inverse display function
- Antidust glass package
- Microlens used

### Element Structure

- Dots: 1604 (H) × 1204 (V) = 1,931,216
- Active matrix panel with built-in peripheral driver using polycrystalline silicon super thin film transistors

### Applications

- Liquid crystal data projectors
- Liquid crystal multimedia projectors
- Liquid crystal rear-projector TVs, etc.

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Block Diagram

The block diagram is shown below.

