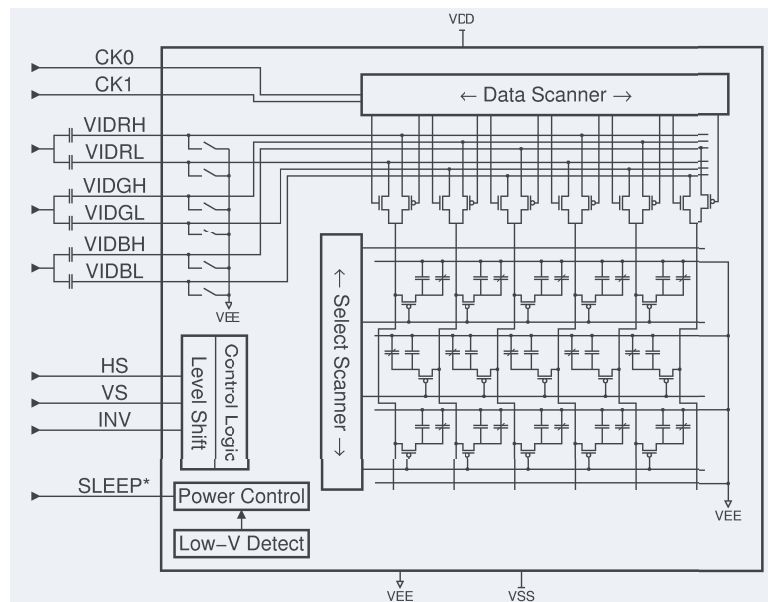


FEATURES

- 521 x 218 dot active resolution (113,578 dots)
- 531 x 222 dot total resolution (117,882 dots)
- 6.3 μm (H) x 11.3 μm (V) dot pitch
- Ultra-compact (0.16" diagonal)
- Active pixel area (3.28mm x 2.46 mm)
- Parallel RGB analog input
- Simple 3.3-volt interface for CMOS compatible driver chip
- 60-75 Hz frame rate
- Power-saving sleep mode
- Integrated low voltage detect
- Integrated horizontal and vertical scanners

BLOCK DIAGRAM



The CyberDisplay® 113K LV is a color-filter active matrix liquid crystal display (AMLCD) with 113,578 (521 x 218) color dot resolution. The display utilizes high-performance single-crystal silicon transistors, and is the smallest (0.16" diagonal) transmissive AMLCD for the resolution. The transmissive CyberDisplay 113K LV with color filter has the same display architecture as the industry standard LCD monitor or TV. The ultra-compact CyberDisplay 113K LV is ideal for camcorder and digital camera viewfinders or entry-level portable consumer and industrial applications.

Functional Description

The CyberDisplay 113K LV features Kopin's patent-pending low-voltage architecture for low power consumption and compatibility with CMOS driver ICs. Bidirectional horizontal and vertical scanner circuits are integrated, along with a sleep mode. The active array of 521 x 218 dots is surrounded by opaque dummy pixels, for a total array size of 531 x 222 dots.

The CyberDisplay® 113K LV can be driven by the A220 or A221 controller IC.

DISPLAY MARKETING

Tel: 508-870-5959 Fax: 508-870-0660

HONG KONG

Tel: 852-2607-4151 Fax: 852-2607-4156

JAPAN

Tel: 81-3-5325-3549 Fax: 81-3-5322-2929

KOREA

Tel: 82-31-337-2451 Fax: 82-31-335-7680

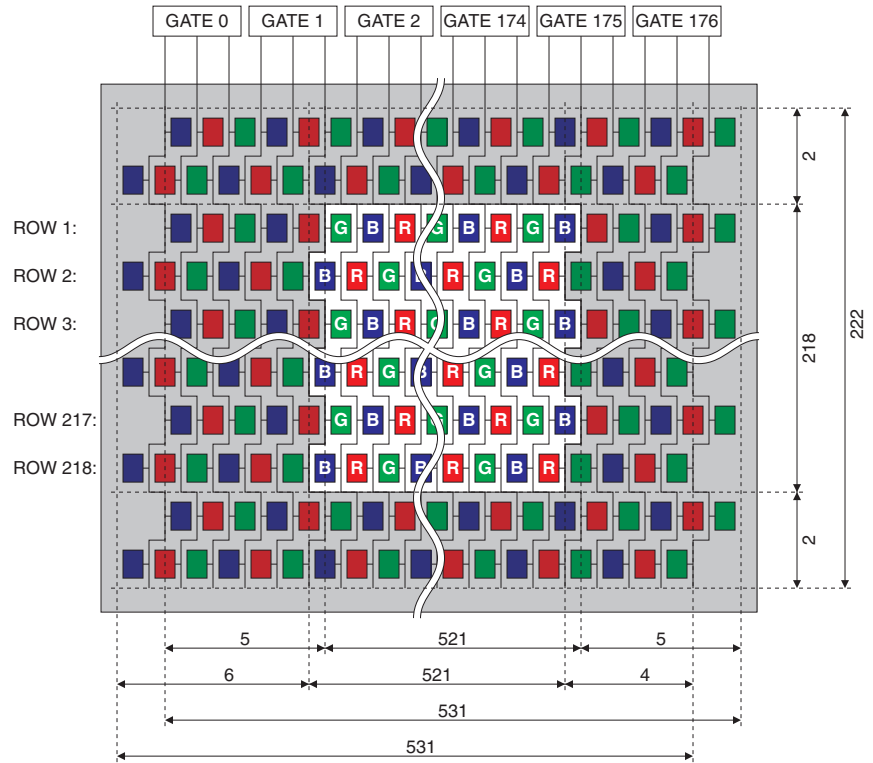
cyberdisplay@kopin.com

*Specifications subject to change without notice

DS KCD-QDSF-LA Rev. A 8/3/06

With a spatial resolution of 521 X 218, the CyberDisplay® 113K is ideal for camcorder and digital camera view finders and portable consumer and industrial type applications.

PIXEL LAYOUT



ELECTRICAL

ITEM	TYPICAL
POWER	
Supply Interface	3.3V
Operating Current	1.0 mA
Operating Current Sleep Mode	100 µA
OPERATING ENVIRONMENT	
Temperature	-20° to 60°C
DIMENSIONS	
Height	4.4 mm
Width	7.4 mm
Depth	1.4 mm
Weight	1.0 grams

Technical Support is available to customers via email, fax or telephone.

INTERFACE

PIN	SYMBOL	DESCRIPTION
1	VEE	Supply = 0V
2	VIDRH	High Red Video Input
3	VIDGH	High Green Video Input
4	VIDBH	High Blue Video Input
5	VIDRL	Low Red Video Input
6	VIDGL	Low Green Video Input
7	VIDBL	Low Blue Video Input
8	HS	Horizontal Sync
9	VS	Vertical Sync
10	INV	Inversion Polarity
11	SLEEP*	Sleep Mode
12	CK0	Clock
13	CK1	Clock
14	VDD	Supply
15	VSS	Supply

* Signal is active low