Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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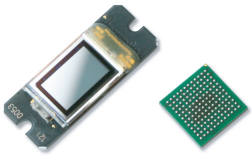


OVP7200/OVP921 LCOS product brief

lead free

available in a lead-free package

720p HD LCOS Chip Set Solution for Compact Projection Systems

The OVP7200/OVP921liquid crystal on silicon (LCOS) chip set brings high definition (HD) image resolution to very small projection systems. The OVP7200 panel has a resolution of 1280 x 720 pixels and a diagonal measurement of 0.37-inch, making it ideal for low cost HD projection systems. The companion driver ASIC, the OVP921, integrates a host of features that simplify system design, while saving both space and power.

The OVP7200 is a single panel, color field sequential device, based on a 6.4-micron pixel in an array with a native resolution of 1280 x 720 pixels. The OVP7200 uses all-digital technology to drive the liquid crystal, resulting in stable, reproducible image quality.

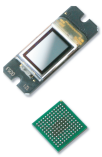
The OVP921 provides enhanced system performance without the need for an external image processor. The OVP921 has built-in keystone correction, frame rate conversion, video input scaling, LED controller, and an embedded 8051 microcontroller (MCU). Additionally, the OVP921 can accept inputs via 24-bit RGB, MIPI or USB.

The OVP7200 is large enough to couple well with LED light sources, yet is small enough to meet the demands of compact projection systems for mobile and automotive applications. The HD resolution of OVP7200/OVP921 combined with solid state light sources allows customers to create low-cost, compact projection systems with high optical output.

Find out more at www.ovt.com.

OmniVision

OVP7200/OVP921



Applications

- Companion projector
- Head mounted display
- Head up display
- Embedded projector

Ordering Information

- **LCOS Panel: OVP7200-MBAA-TA**
  (lead-free, 41-pin PCB)
- **Driver ASIC: OVP0921-B44G**
  (lead-free, 144-pin BGA)

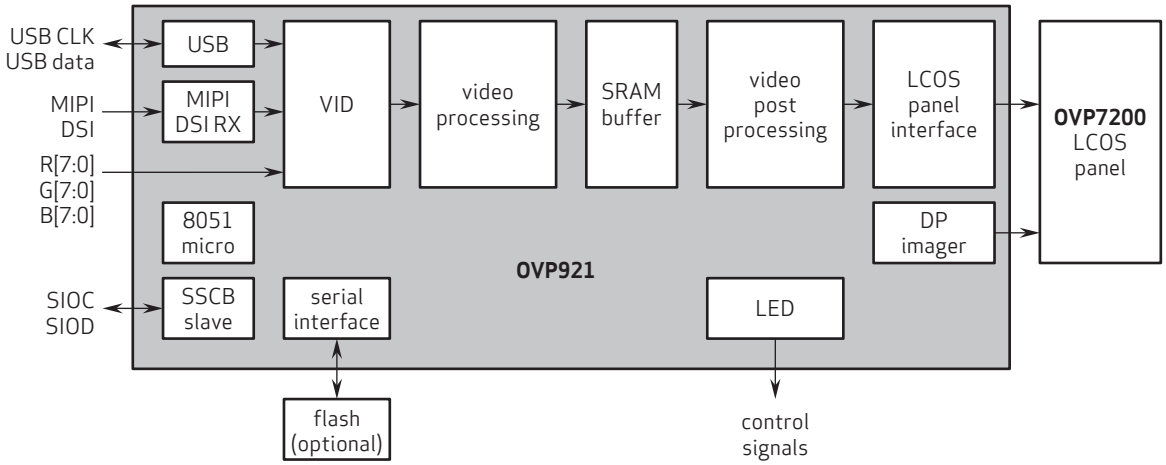
OVP921 Product Specifications

- no external memory required
- support for 3 types of video input
  - USB (slave only)
  - MIPI (2 channel Rx)
  - 24 bit RGB
- support for input resolutions
  - 320 x 240, 640 x 480, 800 x 600
  - 848 x 600,848 x 480
  - 1280 x 720
- built-in scaler functionality
  - 1 to 5x upscale
  - 1 to 0.5x downscale
- frame rate conversion
  - from 60Hz to 10Hz input
- keystone correction
  - up to +/- 15°
- LED control
  - enable/disable + PWM dimming
- embedded 8051 MCU
- serial camera control bus (SCCB)
  - for register programming
  - support for either all 3.3V I/O or 1.8V I/O
- designed for low power consumption
- package dimensions:
  - 144-pin BGA: 9 x 9 mm

OVP7200 Product Specifications

- active array size: 1280 x 720
- pixel pitch: 6.4 µm
- array diagonal: 0.37"
- integrated optical mask
- aperture ratio: > 92%
- package dimensions: 9 x 23.4 x 3.2 mm
- temperature range:
  - operating: 10°C to 70°C
  - storage: -20°C to 100°C

Functional Block Diagram



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