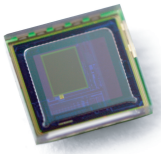


OV6922 NTSC product brief

datasheet from www.sunnywale.com

Ultra Small 1/18-inch CMOS Camera-on-a-Chip

lead free

available in a lead-free package

The OV6922 is a 1/18-inch optical format CMOS image sensor incorporating a high level of functionality and very low power consumption in an ultra-small footprint package. This makes it ideal for use in small disposable cameras for medical imaging applications such as diagnostic and intubation systems.

The 2.1 mm x 2.3 mm CSP packaged sensor enables a microscopic camera module with a 4.0 mm diameter, to make medical procedures even less invasive for the patient.

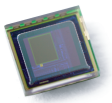
Having been designed for very low power operation, the OV6922 only requires a clock and a single 3.3-volt DC power supply to get the NTSC composite signal out to a direct interface with a VCR and TV monitor.

The OV6922 is built on OmniVision's proprietary OmniPixel® architecture providing the highest image quality, performance and clarity. It is an ideal solution for medical applications that require both color video and a very small footprint package.

Find out more at www.ovt.com.

OmniVision

OV6922



Applications

- Medical Devices
- Security and Surveillance
- Entertainment - Multimedia, Games and Toys

Product Features

- single chip 1/18" NTSC lens video camera
- composite video output
- automatic exposure/gain/white balance
- aperture correction
- gamma correction
- low power consumption
- +3.3V only power supply
- wide dynamic range, anti-blooming, zero smearing
- SCCB programmable controls:
  - color saturation
  - exposure
  - gain
  - gamma curve

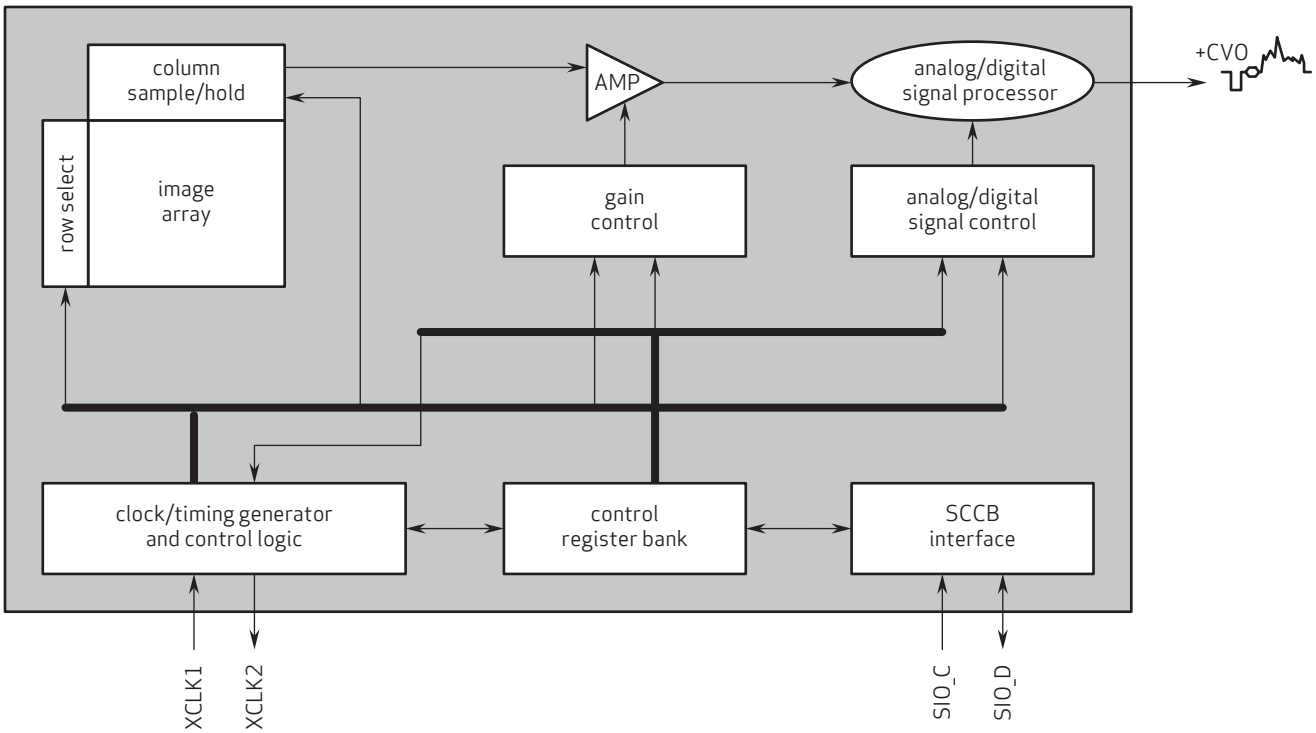
Ordering Information

- **OV06922-V09N**
  (color, NTSC, lead-free, 9-pin CSP2)

Product Specifications

- **active array size:** 328 x 250
- **power supply:** 3.3 VDC ±5%
- **power requirements (active):**
  - **without loading:** 20 mA
  - **with 75 ohm loading:** 30 mA
- **temperature range:**
  - **operating:** -20°C to +70°C
  - **stable image:** 0°C to +50°C
- **lens size:** 1/18"
- **electronic exposure:** 1/60 s to 5.7 µs
- **output formats:** composite video
- **color mosaic:** RGB Bayer pattern
- **sensitivity:** 1000 mV/lux-sec
- **max S/N ratio:** 42 dB
- **dynamic range:** 66 dB @ 8x gain
- **dark current:** 3 mV/sec @ 60°C junction temperature
- **pixel size:** 2.5 µm x 2.5 µm
- **image area:** 820 µm x 625 µm
- **package dimensions:** 2135 µm x 2265 µm

Functional Block Diagram



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