

# **OV6922** NTSC product brief

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

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.





## OV6922

#### **Ordering Information**

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

#### Applications

- medical / dental equipment
- security and surveillance equipment
- video phones and video conference equipment

#### **Technical Specifications**

- active array size: 328 x 250
- power supply: 3.3 VDC ±5%
- power requirements (active):
  without 75 ohm loading: 20 mA
  with 75 ohm loading: 30 mA
- temperature range:
  operating: -20°C to +70°C
  stable: 0°C to +50°C
- output formats: composite video

- Iens chief ray angle: 0°
- Iens size: 1/18"

PC multimedia

toys

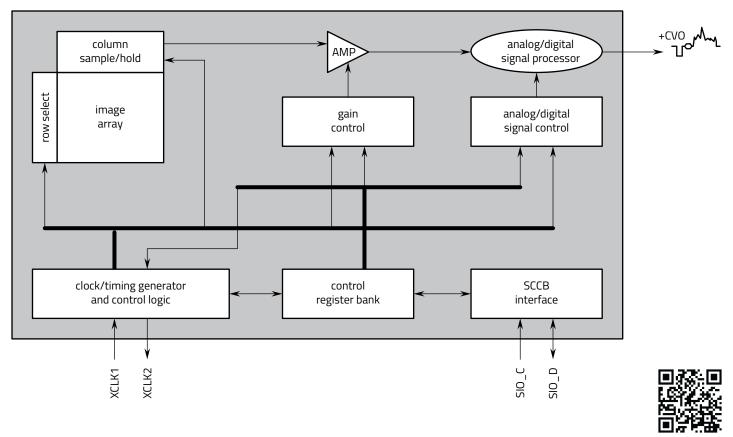
- electronic exposure: 1/60s to 5.7µs
- pixel size: 2.5 μm x 2.5 μm
- image area: 820 μm x 625 μm
- package dimensions: 2135 µm x 2265 µm

#### **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

#### Functional Block Diagram



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