

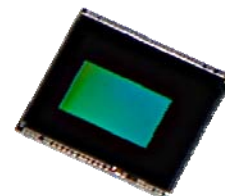
CMOS image sensor

1080p 1.12μm

Under  
development

**T4K71**

## 1/7.3 inch 1080p 1.12μm BSI CMOS image sensor



The T4K71 is a 1080p image sensor with video support.

It has a pixel array of 1088 (V) × 1928 (H) and satisfies the 1/7.3-inch optical format. The T4K71 has a pixel size of 1.12 μm × 1.12 μm. It maintains the low power consumption advantage of a CMOS process without compromising the 60-fps speed and offers excellent color reproduction by the use of a color noise filter. These features make the T4K71 ideal for secondary camera applications for cell phones and smartphones.

## ■ Features

### Applications

- ▶ Mobile phones and Smart phones
- ▶ PCs and tablet PCs

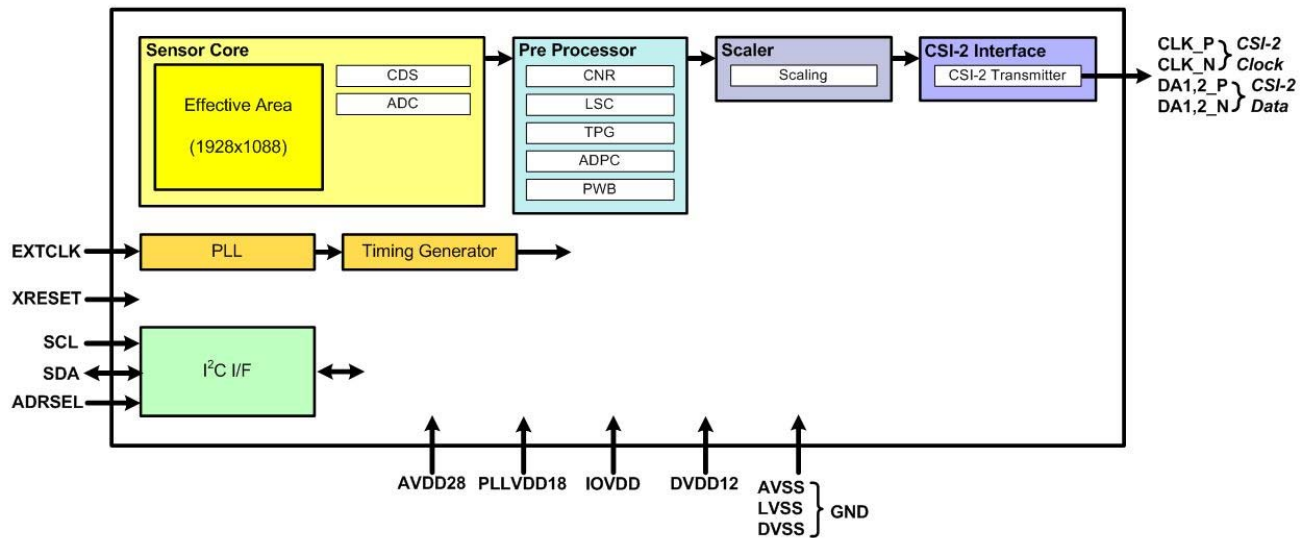
### Features

- ▶ 1/7.3" 1080p resolution (1.12 μm)
- ▶ BSI
- ▶ Progressive scan
- ▶ I<sup>2</sup>C interface
- ▶ CSI-2 2lanes
- ▶ Built-in phase lock loop (PLL)
- ▶ CNR (Color Noise Reduction)
- ▶ Image scaling (programmable scaling for image size)
- ▶ Picture flip (horizontal and vertical)
- ▶ Lens shading correction
- ▶ Auto defect pixel correction
- ▶ Standby mode, Power down mode

### Specifications

- ▶ Optical format: 1/7.3"
- ▶ Pixel size: 1.12 μm × 1.12 μm
- ▶ Effective pixels: 1928(H) × 1088(V)  
(2.1mega pixels)
- ▶ Data formats: RAW-8,10 bits
- ▶ Frame rate:  
60 fps @full resolution (1080p)  
60 fps @720p  
100 fps @VGA
- ▶ Power supply:  
Analog=2.8 +/- 0.2 V  
Digital=1.2 +/- 0.1 V  
I/O=1.7 to 3.0 V
- ▶ Operating temperature: -20 to +65°C
- ▶ Storage temperature: -40 to +85°C

## ■ System Block Diagram



» For further information about Toshiba Sensors, please visit

<http://www.semicon.toshiba.co.jp/eng/product/sensor/index.html>

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