

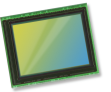
Applications

- Security and Surveillance Cameras
- PC Multimedia
- Wearables
- 960H for Analog CCTV Applications

Product Features

- RGB-IR color filter
- 3.75 μm x 3.75 μm pixel
- 1280x960 at 60 fps @ 10-bit, 45 fps @ 12-bit
- programmable controls for frame rate, mirror and flip, cropping, and windowing
- supports images sizes: SXGA (1280 x 960), VGA (640 x 480), and more
- 2k bits of embedded one-time programmable (OTP) memory
- ultra low power mode (ULPM)
- support for output formats: 10/12-bit RGB-IR RAW
- two-wire serial bus control (SCCB)
- MIPI serial output interface (1- or 2-lane) / DVP interface
- 2x binning support
- image quality control: defect pixel correction and automatic black level calibration

OV9752



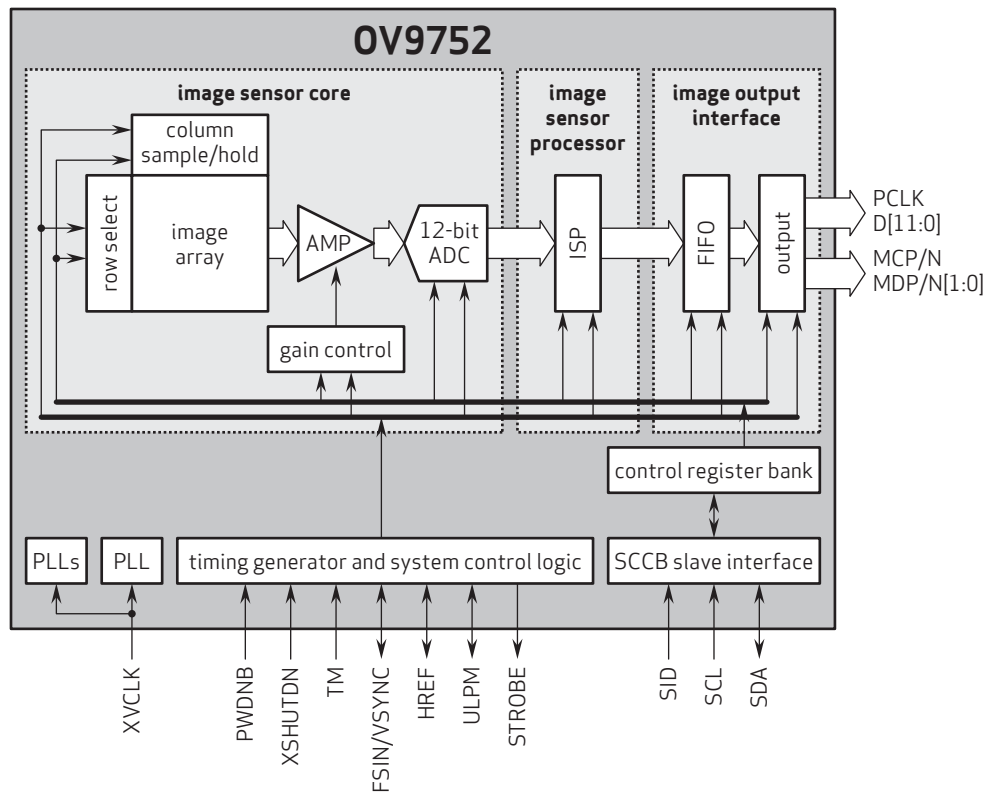
Ordering Information

- OV09752-H55A (RGB-IR, lead-free, 55-pin CSP5)

Product Specifications

- active array size: 1280 x 960
- power supply:
 - core: 1.7 to 1.9V (1.8V nominal)
 - analog: 3.15 to 3.45V (3.3V nominal)
 - I/O: 1.7 to 1.9V (1.8V nominal)
- power requirements:
 - active: 165 mW
- temperature range:
 - operating: -30°C to +85°C junction temperature
 - stable image: 0°C to +60°C junction temperature
- output interface: 2-lane MIPI serial output / DVP parallel output
- output formats: 10/12-bit RGB-IR RAW
- lens size: 1/3"
- lens chief ray angle: 9° linear
- input clock frequency: 6 - 74.5 MHz
- maximum image transfer rate:
 - SXGA (1280x960): 60 fps
 - VGA (640x480): 120 fps
- pixel size: 3.75 μm x 3.75 μm
- image area: 4860 μm x 3660 μm
- die dimensions: 6254 μm x 5194 μm

Functional Block Diagram



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