Applications

- IP Cameras
- Home Monitoring
- Sports Cameras
- Security Cameras

Product Features

- automatic black level calibration (ABLC) fast mode switching
- programmable controls for:
- mirror and flip
- cropping
- windowing
- static defective pixel canceling
- supports output formats:10-bit RAW RGB (MIPI)
- supports horizontal and vertical subsampling
- supports image sizes:4MP3MP

 - EIS1080p

 - 1080p EIS720p

- support 2x2 binning, 4x4 binning,
- re-sampling filter ■ standard serial SCCB interface
- up to 4-lane MIPI serial output
- embedded 4K bits one-time programmable (OTP) memory for part identification, etc.
- two on-chip phase lock loops (PLLs)
- programmable I/O drive capability
- built-in temperature sensor

OV4689



■ 0V04689-H67A (color, lead-free) 67-pin CSP

Product Specifications

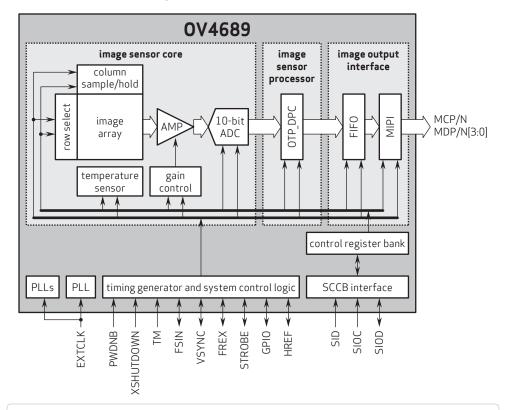
- active array size: 2688 x 1520

- power supply: core: 1.1 1.3V analog: 2.6 3.0V I/O: 1.7 3.0V
- power requirements: active: 163 mA (261 mW)
 - standby: 1~mA XSHUTDOWN: $<10~\mu\text{A}$

- temperature range:
 operating: -30°C to +85°C junction temperature
- stable image: 0°C to +60°C junction temperature
- output formats: 10-bit RAW RGB
- lens size: 1/3"
- input clock frequency: 6 64 MHz
- lens chief ray angle: 0°

- max S/N ratio: 38.3 dB
- dynamic range: 64.6 dB @ 1x gain
- maximum image transfer rate: 2688 x 1520: 90 fps
 - -1920 x 1080: 120 fps
 - 1280 x 720: 180 fps
- -672 x 380: 330 fps
- sensitivity: 1900 mV/lux-sec
- scan mode: progressive
- maximum exposure interval: 1548 x T_{ROW}
- pixel size: 2 µm x 2 µm
- image area: 5440 µm x 3072 µm
- package dimensions: CSP: 6630 µm x 5830 µm

Functional Block Diagram



4275 Burton Drive Santa Clara, CA 95054

Tel: +1 408 567 3000 Fax: +1 408 567 3001 www.ovt.com

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