## **Applications**

- Surveillance
- Sports Cameras
- Home Automation

## **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-Ir (MIPI)
- supports images sizes: 4MP 3MP

  - EIS1080p

- standard serial SCCB interface
- up to 4-lane MIPI serial output
- two on-chip phase lock loops (PLLs)
- programmable I/O drive capability
- built-in temperature sensor
- supports staggered 3-exposure

# OV4686



■ 0V04686-H67A (RGB-Ir, lead-free, 67-pin CSP5)

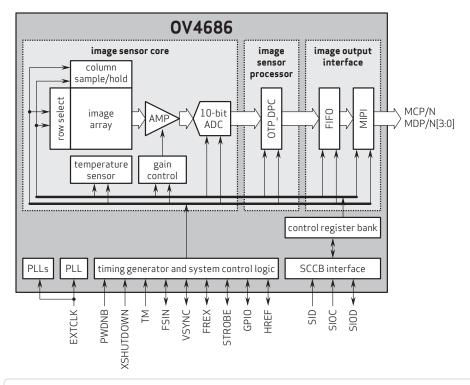
## **Product Specifications**

- 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 µA
- temperature range:
  operating: -30°C to +85°C junction temperature
  - stable image: 0°C to +60°C junction temperature
- output interface: 4-lane MIPI
- output formats: 10-bit RAW RGB-Ir
- lens size: 1/3"
- input clock frequency: 6 64 MHz
- lens chief ray angle: 9°

- maximum image transfer rate:- 2688x1520: 90 fps
- -1920x1080: 120 fps
- maximum exposure: 4 T<sub>ROW</sub>
- minimum exposure: VTS-8 T<sub>ROW</sub>
- sensitivity: 1900 mV/lux-sec
- max S/N ratio: 37.8 dB
- dynamic range: 64.6 dB @ 1x gain
- scan mode: progressive
- maximum exposure interval: 1548 x T<sub>ROW</sub>
- pixel size: 2 µm x 2 µm
- dark current: 4 mV/sec@ 60°C junction temperature
- $\blacksquare$  image area: 5440  $\mu m \times 3072 \ \mu m$
- package dimensions: 6630 µm x 5830 µm

# Functional Block Diagram



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