

Applications

- IP Cameras
- Life Style Cameras
- Surveillance
- Motion Cameras

Product Features

- support for image sizes:
 - full size (1280x720)
 - VGA (640x480)
 - 2x2 RGB binning (640x360)
- support for output formats:
 - 10-bit RAW output with 1-lane MIPI and DVP
- on-chip phase lock loop (PLL)
- programmable controls for:
 - frame rate
 - mirror and flip
 - gain/exposure
 - windowing
- support for horizontal and vertical sub-sampling
- low power mode (LPM) function
- capable of maintaining register values at software power down
- standard SCCB interface
- GPIO tri-state configurability and programmable polarity
- FSIN
- image quality control:
 - defect pixel correction (DPC)
 - automatic black level calibration (ABLC)

OV9732



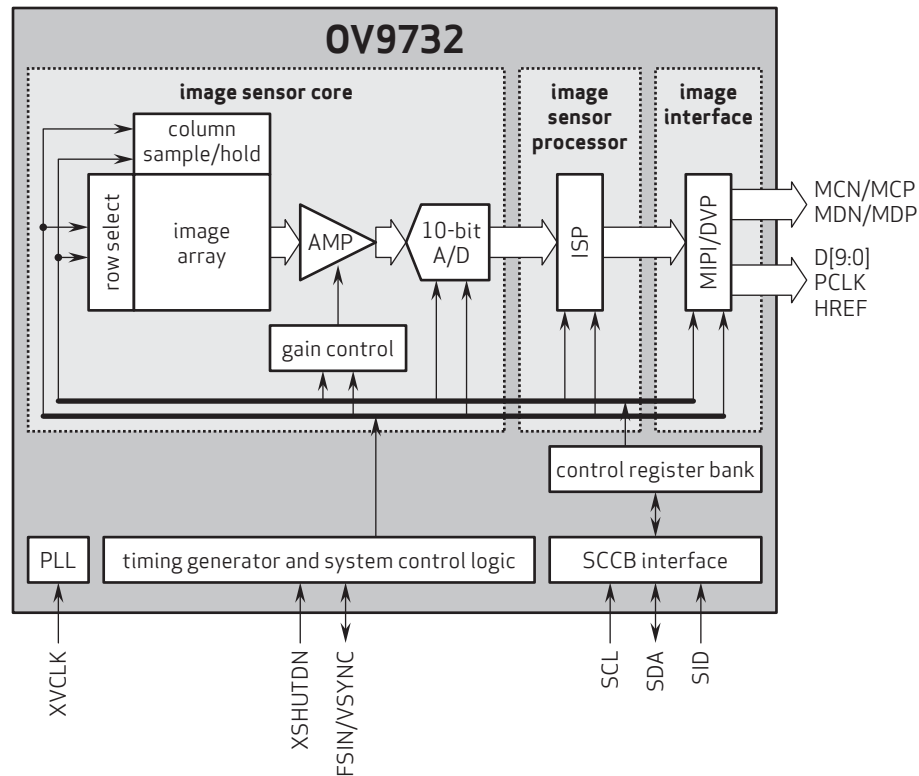
Ordering Information

- OV9732-H35A
(color, lead-free, 35-pin CSP)

Product Specifications

- active array size: 1280 x 720
- power supply:
 - core: 1.7 - 1.9V (1.8V normal)
 - analog: 2.7 - 2.9V (2.8V normal)
 - I/O: 1.7 - 1.9V (1.8V normal)
- power requirements:
 - active: 99 mW
 - standby: 36 μ W
- temperature range:
 - operating: -30°C to +70°C junction temperature
 - stable image: 0°C to +50°C junction temperature
- output formats: 10-bit RAW RGB
- lens size: 1/4"
- lens chief ray angle: 9°
- input clock frequency: 6 - 27 MHz
- scan mode: progressive
- maximum image transfer rate: 30 fps
- sensitivity: 2.066 V/Lux-sec
- shutter: rolling shutter
- max S/N ratio: 39 dB
- dynamic range: 72 dB @ 8x gain
- maximum exposure interval: 798 x t_{row}
- pixel size: 3 μ m x 3 μ m
- image area: 3888 μ m x 2208 μ m
- package dimensions: 4704 μ m x 2994 μ m

Functional Block Diagram



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