

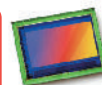
Applications

- Notebooks
- Digital Still Cameras
- PC Webcams
- Telepresence
- Camcorders
- Portable Media Players

Product Features

- programmable controls: gain, exposure, frame rate, image size, horizontal mirror, vertical flip, cropping, windowing, and panning
- support for image sizes:
 - 1080p at 30 fps
 - cropped 720p at 60 fps
 - VGA at 120 fps
- automatic image control functions:
 - automatic exposure (AEC)
 - automatic gain control (AGC)
 - automatic white balance (AWB)
 - automatic black level calibration (ABLC)
- support for black sun cancellation
- embedded one-time programmable (OTP) memory
- on-chip phase lock loop (PLL)
- serial camera control bus (SCCB)
- built-in 1.5V regulator for core
- lens correction (LENC)
- defective pixel correction (DPC)
- support for digital video port (DVP) parallel output interface
- integrated auto focus filter
- support for one lane MIPI interface (up to 800 Mbps)
- support for 8-/10-bit RAW RGB output format

OV2710



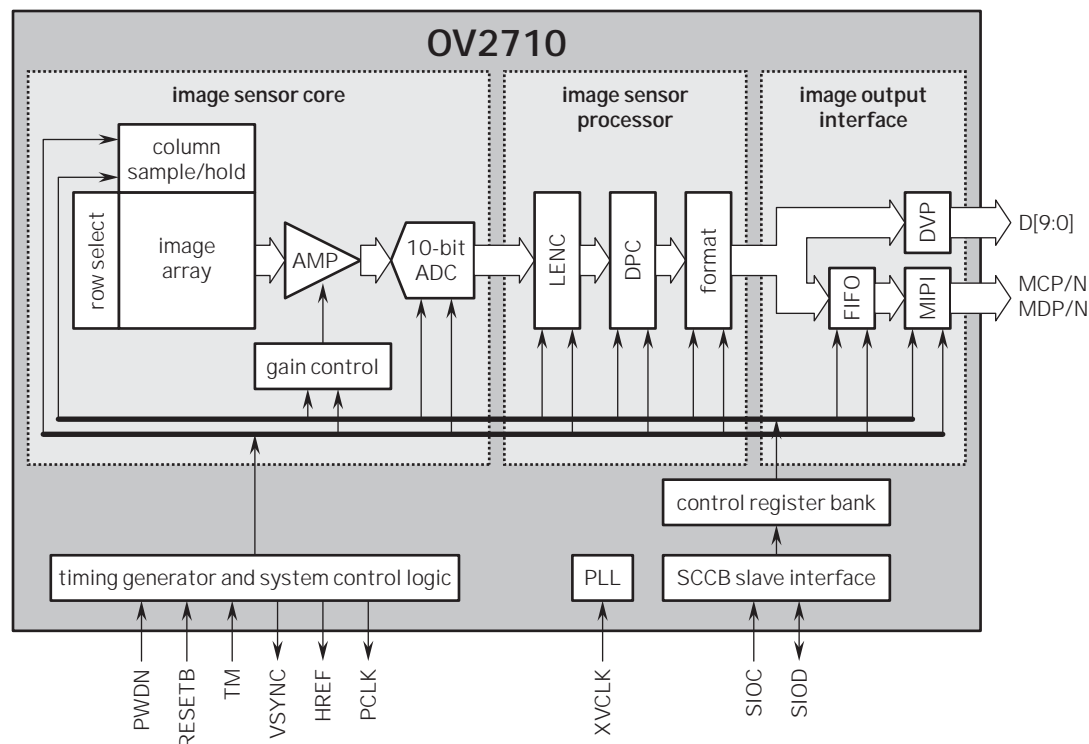
Ordering Information

- **OV02710-A68A**
(color, lead-free, 68-pin CSP3)

Product Specifications

- active array size: 1920 x 1080
- dynamic range: 69 dB
- power supply:
 - analog: 3.0 - 3.6 V (3.3 V typical)
 - core: 1.425 - 1.575 V (1.5 V typical)
 - I/O: 1.7 - 3.6 V (1.8 V typical)
- maximum image transfer rate:
 - 1080p: 30 fps
 - 720p: 60 fps
 - VGA: 120 fps
 - QVGA: 240 fps
- temperature range:
 - operating: -30° C to 70° C
 - stable image: 0° C to 50° C
- sensitivity: 3300 mV/(lux-sec)
- shutter: rolling
- output interfaces: 10-bit parallel/one lane MIPI
- S/N ratio: 39 dB
- output formats: 10-bit RAW RGB
- pixel size: 3 μm x 3 μm
- lens size: 1/2.7"
- image area: 5856 μm x 3276 μm
- lens chief ray angle: 23.6°
- package dimensions: 7465 μm x 5865 μm
- input clock frequency: 6 - 27 MHz

Functional Block Diagram



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