

Applications

- Medical Endoscopes
- Industrial Endoscopes
- Veterinarian Endoscopes

Product Features

- low cost, single-chip solution for the OV6930 medical sensor
- SCCB slave and master support
- high bandwidth ADC, supporting up to 16MHz
- supports 10-bit digital parallel output
- low voltage, 1.8V (core), 3.3V (analog) and 3.3V (I/O) operation
- external system clock or independent crystal operation
- auto gain/exposure control
- black level calibration (BLC)
- test pattern generator
- digital signal processor (DSP)
- RAW output with 10-bit parallel digital video port (DVP)

OV420



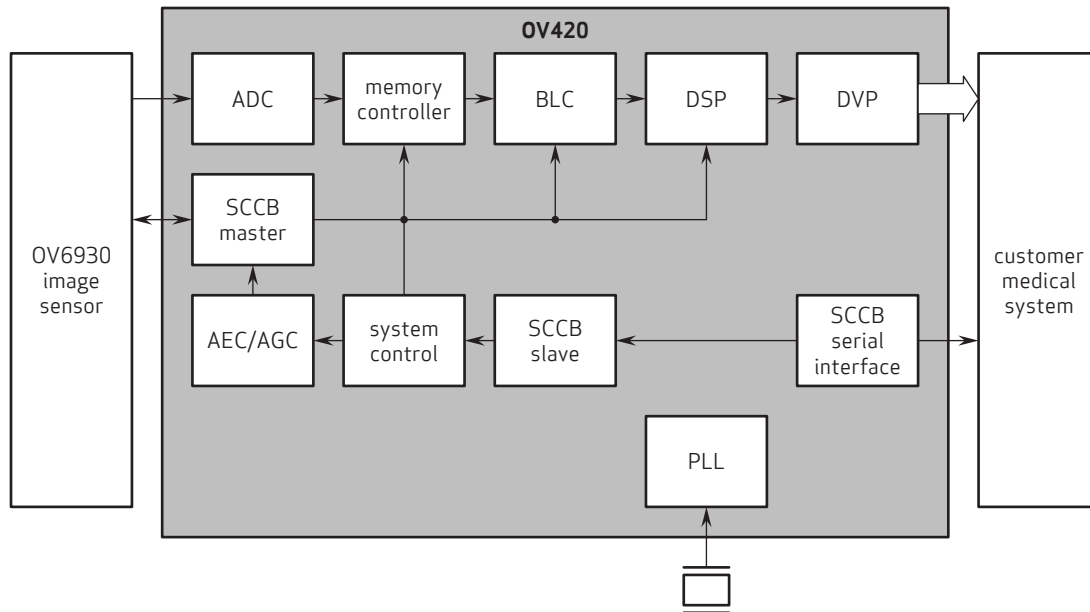
Ordering Information

- OV00420-A36G
(lead-free, 36-pin wCSP™)

Product Specifications

- **power supply:**
 - core: 1.8V $\pm 5\%$
 - I/O: 3.3V $\pm 10\%$
 - analog: 3.3V $\pm 10\%$
- **temperature range:** -30°C to +70°C
- **package dimensions:**
3.17 mm x 3.17 mm
- **power requirements:**
 - active: 16 mA (typical)
 - standby: 65 μ A (typical)

Functional Block Diagram



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Version 1.0, July, 2017