Applications

■ Security and Surveillance Cameras

OV2715



Product Features

- support for image sizes: 1080p @ 30 fps cropped 720p @ 60 fps

 - VGA @ 120 fps
- programmable controls: gain, exposure, integrated auto focus filter frame rate, image size, horizontal mirror, vertical flip, cropping, windowing, and panning
- automatic image control functions: - automatic exposure (AEC)

 - automatic gain control (AGC) automatic white balance (AWB)
 - automatic black level calibration (ABLC)
- serial camera control bus (SCCB)
- lens correction (LENC)

- defect pixel correction (DPC)
- support for digital video port (DVP) parallel output interface
- support for 10-bit RAW RGB output
- support for black sun cancellation
- embedded one-time programmable (OTP) memory
- on-chip phase lock loop (PLL)
- built-in 1.5 V regulator for core

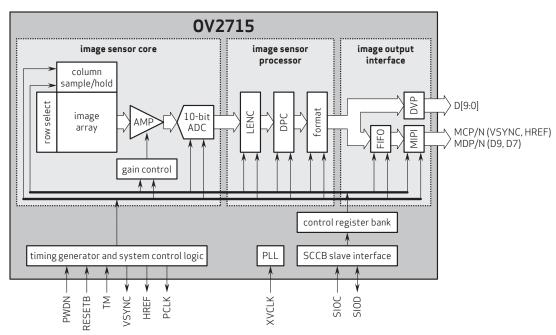
- 0V02715-A68A (color, lead-free, 68-pin CSP3)
- 0V02715-A68A-PC (color, lead-free, 68-pin CSP3 with protective film)
- 0V02715-A68A-RC (color, lead-free, 68-pin CSP3 with protective film, packed in tape and reel)

Product Specifications

- active array size: 1920 x 1080
- 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)
- power requirements:active: 350 mW
- power down: 70 μA
- temperature range:
 operating: -30°C to 85°C junction
 - temperature stable image: 0°C to 65°C junction
- output interfaces: 10-bit parallel/
- output formats: 10-bit RAW RGB data
- lens size: 1/2.7"
- lens chief ray angle: 0°

- input clock frequency: 6 27 MHz
- scan mode: progressive
- maximum image transfer rate:-1080p: 30 fps
- cropped 720p: 60 fps
- VGA: 120 fps QVGA: 240 fps
- sensitivity: 3300 mV/lux-sec
- shutter: rolling shutter
- max S/N ratio: 39 dB
- dynamic range: 69 dB @ 8x gain
- maximum exposure interval: 1096 tline
- pixel size: 3 µm x 3 µm
- image area: 5856 µm x 3276 µm
- package dimensions: 7465 µm x 5865 µm

Functional Block Diagram



4275 Burton Drive Santa Clara, CA 95054

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

OmniVision reserves the right to make changes to their products or to discontinue any product or service without further notice. OmniVision, the OmniVision logo and OmniPisel are registered trademarks of OmniVision Technologies, Inc. OmniVisia-3H is a trademark of OmniVision Technologies, Inc. All other trademarks are the property of their respective owners.

