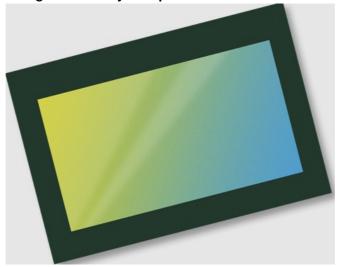


OMNIVISION OV2735 High-Sensitivity 1080p HD OmniPixel 3-HS Sensor Owner's Manual

Home » OMNIVISION » OMNIVISION OV2735 High-Sensitivity 1080p HD OmniPixel 3-HS Sensor Owner's Manual ™

OMNIVISION OV2735 High-Sensitivity 1080p HD OmniPixel 3-HS Sensor Owner's Manual



Contents

- 1 INSTRUCTION
- 2 Applications
- **3 Product Features**
- **4 Technical Specifications**
- **5 Functional Block**
- Diagram
- **6 Documents / Resources**

INSTRUCTION

to mainstream security and surveillance cameras. The OV2735 offers technical advancements such as support for low-power mode, stable image quality within operating temperatures ranging from 0°C to +60°C, and dramatically reduced power consumption. As such, the OV2735 offers security and surveillance camera OEMs an easy upgrade camera solution in the popular 1/2.7-inch optical format.

Built on OMNIVISION's proven OmniPixel 3-HS pixel technology, the OV2735 captures full-resolution 1080p HD video at 30 frames per second (fps) and 720p video at 60 fps. The OV2735 also offers MIPI with parallel support and frame synchronization in a compact and power-efficient package.

Find out more at www.ovt.com.

Applications

- · security IPC
- · analog HD video cameras

Product Features

- programmable controls:
 - exposure
 - frame rate
 - image size
 - horizontal mirror
 - vertical flip
 - cropping
 - windowing
- black level calibration (BLC)
- · support for black sun cancellation
- defective pixel correction (DPC)
- · supports binning function
- on-chip phase lock loop (PLL)
- support for low power mode
- digital video port (DVP) parallel output interface
- 12C control interface for register programming support for two lane MIPI interface (up to 420 Mbps) support for image sizes:
 - 1080p @ 30 fps
 - o 720p @ 60 fps
 - VGA @ 60 fps

Technical Specifications

- active array size: 1920 x 1080
- maximum image transfer rate: 1080p: 30 fps 720p: 60 fps
- power supply: core: 1.7 1.9V (1.8V nominal) analog: 2.6 3.0V (2.8V nominal) I/O: 1.7 3.0V (1.8V nominal)
- power requirements: active: 176 mW

• temperature range: - operating: -30°C to +85°C junction temperature

• **stable image:** 0°C to +60°C junction temperature

• output interfaces: two-lane MIPI / DVP parallel

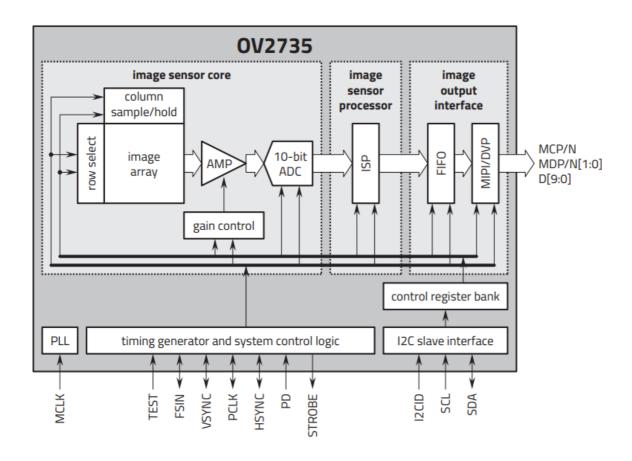
• output formats: RAW10

• lens size: 1/2.7" • lens chief ray angle: 12° linear

scan mode: progressive
shutter: rolling shutter
pixel size: 3 pm x 3 pm

• image area: 5808 pm x 3288 pm

Functional Block Diagram



COSTUMER SUPPORT

4275 Burton Drive Santa Clara, CA 95054 USA

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 OmniPixel are registered trademarks of OmniVision Technologies, Inc. All other trademarks are the property of their respective owners.



Documents / Resources



OMNIVISION OV2735 High-Sensitivity 1080p HD OmniPixel 3-HS Sensor [pdf] Owner's Manual

OV2735, OV2735 High-Sensitivity 1080p HD OmniPixel 3-HS Sensor, High-Sensitivity 1080p HD OmniPixel 3-HS Sensor, 1080p HD OmniPixel 3-HS Sensor, HD OmniPixel 3-HS Sensor, OmniPixel 3-HS Sensor, 3-HS Sensor, Sensor

Manuals+,