

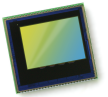
Applications

- Rear View Camera
- Surround View
- Smart Automotive Camera
- Drive Recorder
- Lane Departure Warning
- Blind Spot Detection
- Night Vision with Active Illumination

Product Features

- industry's smallest automotive package
- exceptional low-light performance for 1 lux requirements
- supports NTSC and VGA outputs
- color and B&W sensor options
- automatic exposure/gain with 16 zone control
- crop and resize
- built-in memory for custom register settings
- aperture/gamma correction
- low power consumption
- AEC-Q100 qualified
- 2 layer multicolor overlay
- defective pixel correction
- optimized for digital progressive and analog applications
- single 3.3 V power supply

OV7955



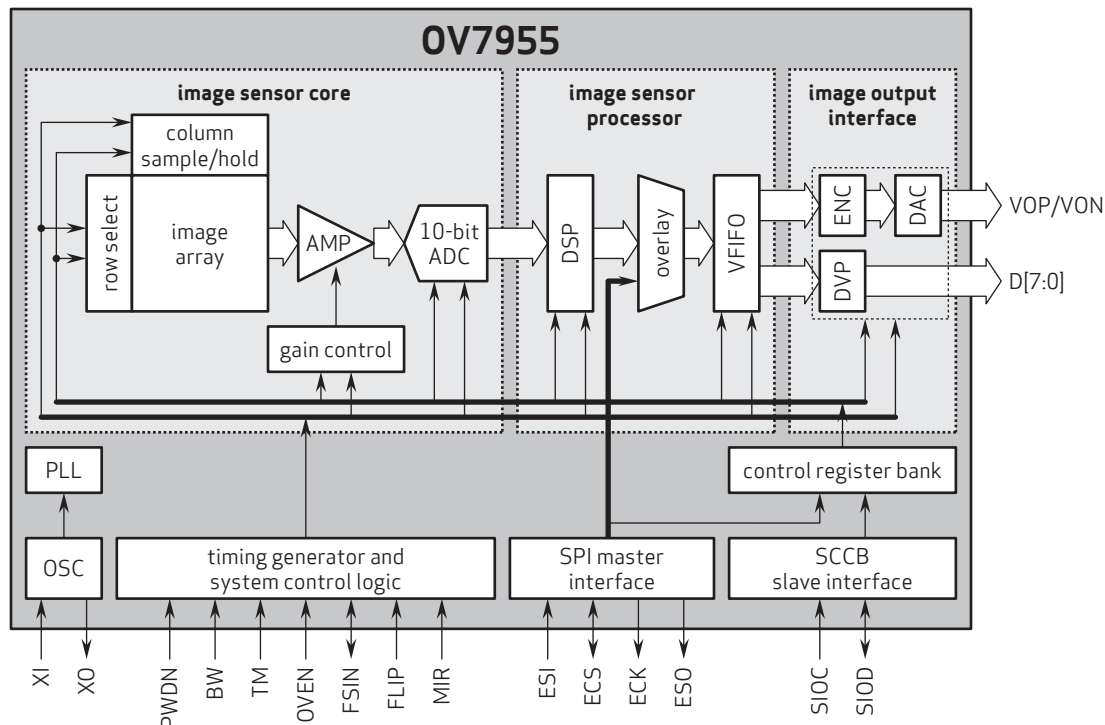
Ordering Information

- OV07955-N53V-PE
(color, NTSC, lead-free, 53-pin aCSP™ with protective film)

Product Specifications

- active array size: 672 x 492
- power supply:
 - core: 1.5V
 - analog: 3.14 - 3.47V
 - I/O: 1.7 - 3.47V
- power requirements:
 - active: 200 mW
 - standby: 20 μ A
- temperature range:
 - operating: -40°C to +105°C ambient temp and -40°C to +115°C junction temp
- output formats: NTSC (TV port), VGA (DV port)
- optical size: 1/3.7" (NTSC)
- lens chief ray angle: supports up to 25°
- maximum image transfer rate:
 - VGA: 60 frames per second (DV)
 - NTSC: 60 fields per second (TV)
- sensitivity: 16 V/lux-sec
- shutter: rolling shutter
- max S/N ratio: 38 dB
- dynamic range: 71 dB @ 8x gain
- scan mode: progressive
- pixel size: 6.0 μ m x 6.0 μ m
- dark current: 10.7 mV/sec @ 60°C junction temperature
- image area: 4032 μ m x 2952 μ m
- package dimensions: 5660 μ m x 5360 μ m

Functional Block Diagram



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. OmniPixel3-HS is a trademark of OmniVision Technologies, Inc. All other trademarks are the property of their respective owners.



OmniVision

Version 1.4, April, 2016