

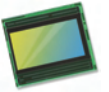
Applications

- Security and Surveillance Cameras
- Smart Home
- Video Applications

Product Features

- support for image size:
 - 1920 x 1080
 - VGA
 - QVGA, and any cropped size
- high dynamic range
- high sensitivity
- low power consumption
- image sensor processor functions:
 - lens correction
 - defective pixel cancelation
 - automatic black level correction
- supported output formats: RAW
- horizontal and vertical sub-sampling
- SCCB for register programming
- high speed serial data transfer with MIPI CSI-2/LVDS
- parallel 12-bit DVP output
- external frame synchronization capability
- one time programmable (OTP) memory

OV2718



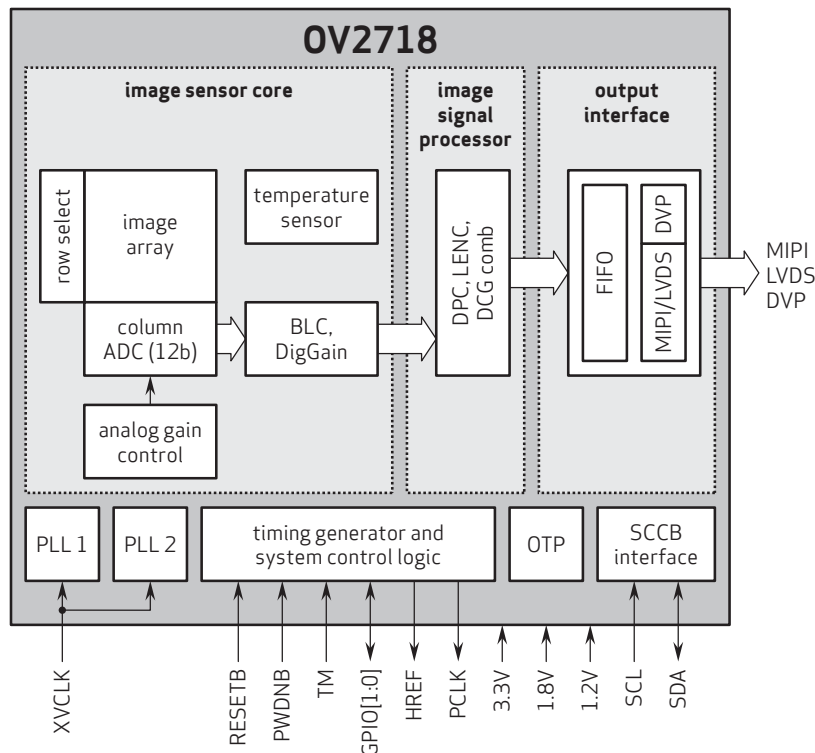
Ordering Information

- OV2718-H77A-2B (color, lead-free) 77-pin CSP
- OV2718-H77A-PE (color, lead-free) 77-pin CSP with protective film

Product Specifications

- active array size: 1920 x 1080
- power supply:
 - analog: 3.14 - 3.47V
 - digital: 1.2 - 1.4V
 - DVDD: 1.7 - 1.9V
 - AVDD: 1.7 - 1.9V
- power requirements:
 - active: 350 mW
 - software standby: 1.14 mW
- temperature range:
 - operating: -30°C to +85°C junction temperature
 - stable: 0°C to +60°C junction temperature
- output interfaces: up to 4-lane MIPI CSI-2/LVDS, 12-bit DVP
- input clock frequency: 6 - 36 MHz
- lens size: 1/2.9"
- lens chief ray angle: 9°
- output formats: linear - 12-bit RAW; HDR - 2x12-bit DCG RAW, 16-bit combined DCG, 12-bit compressed combined DCG
- scan mode: progressive
- shutter: rolling shutter
- maximum image transfer rate: 30 fps
- sensitivity: 26,200 e⁻/Lux-sec @ 530 nm
- max S/N ratio: 42.6 dB
- dynamic range: 86 dB
- pixel size: 2.8 μm x 2.8 μm
- image area: 5482.35 μm x 3202 μm
- package dimensions:
 - CSP: 6544 μm x 5734 μm

Functional Block Diagram



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