

### CMOS CAMERA MODULES



your BEST camera module partner

### KLT-J4K-OV2732 V1.0 NIR No IR Filter Lens

#### OmniVision OV2732 MIPI and DVP Parallel Interface Fixed Focus 2MP Camera Module



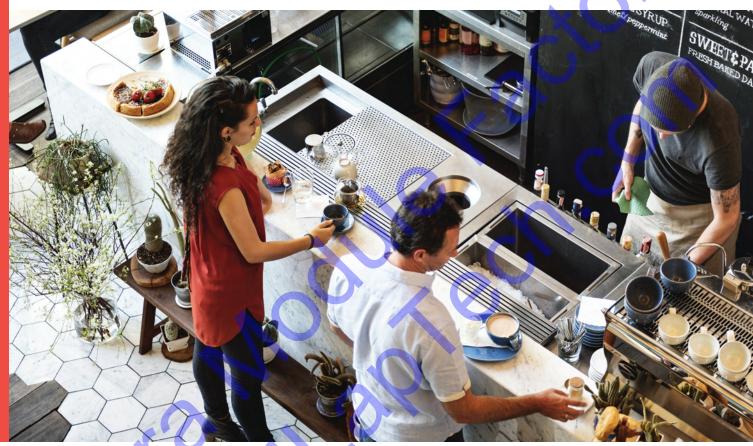
Camera Module No.	KLT-J4K-OV2732 V1.0 NIR
Image Sensor	OV2732
EFL	3.37 mm
F.NO	2.8
Pixel	1920 x 1080
View Angle	67.4°
Lens Type	1/4 inch, No IR Filter Lens
Lens Dimensions	8.00 x 8.00 x 4.86 mm
Module Size	18.50 x 12.50 mm
Module Type	Fixed Focus
Interface	MIPI and DVP Parallel



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## $0V2732_{1080p}$ product brief



# Low-Power 1080p High Definition PureCel® Sensor for Security Applications



OmniVision's OV2732 is a compact and power-efficient PureCel® image sensor designed for IoT-based residential and commercial monitoring systems. The OV2732 captures quality images and videos with staggered high dynamic range (HDR), ensuring excellent scene reproduction in all lighting environments. The sensor features frame sync for use in multi-camera or 360-degree camera systems and supports ultra-low power mode (ULPM) and an ambient light sensor (ALS), making it particularly well-suited for battery-powered security applications.

Built on OmniVision's PureCel® technology, the 1/4-inch OV2732 captures 1080p high definition (HD) video at 60 frames per second (fps), 720p HD video at 90 p, and VGA resolution video at 90 p. The OV2732 delivers crisp images and video, even in challenging low-light conditions.

Find out more at www.ovt.com.





#### **Applications**

- Internet of Things (IoT)
- High-end Video Conferencing
- Security

- Lifestyle Camera
- Home Monitoring

#### **Product Features**

- programmable controls:
  - gain exposure

  - frame rate
  - image size horizontal mirror
  - vertical flip
  - cropping windowing
- automatic image control functions:
  black level calibration (BLC)
- serial camera control bus (SCCB)
- defective pixel correction (DPC)
- digital video port (DVP) parallel output

- support for two lane MIPI interface (up to 800 Mbps)
- support for image sizes:
- 1080p @ 60 fps 720p @ 90 fps
- · VGA @ 120 fps
- QVGA @ 240 fps, and more
- support for light sensing mode (LSM)
- support for staggered 2 frame HDR
- support for black sun cancellation
- on-chip phase lock loop (PLL)

### OV2732



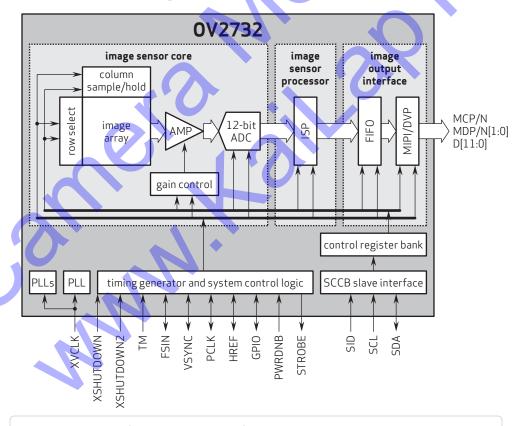
■ 0V02732-H57A (color, lead-free, 57-pin CSP4)

#### **Product Specifications**

- active array size: 1920 x 1080
- power supply:
- core: 1.2V
- analog: 2.8V I/0: 1.8V
- power requirements: active: 110 mW
- temperature range: operating: -40°C to +85°C junction
- temperature stable image: 0°C to +60°C junction temperature
- output interfaces: two-lane MIPI / DVP parallel
- output formats: 10/12-bit RAW RGB
- lens size: 1/4"
- lens chief ray angle: 12° line

- input clock frequency: 6 27 MHz
- scan mode: progressive
- maximum image transfer rate:
  - -1080p: 60 fps
- **720p**: 90 fps **VGA**: 120 fps **QVGA**: 240 fps
- shutter: rolling shutter
- maximum exposure interval: 1184 × t<sub>ROW</sub>
- pixel size: 2 µm x 2 µm
- image area: 3868 µm x 2190 µm
- package dimensions: 5174 µm x 3680 µm

#### Functional Block Diagram



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