# CMOS CAMERA MODULES

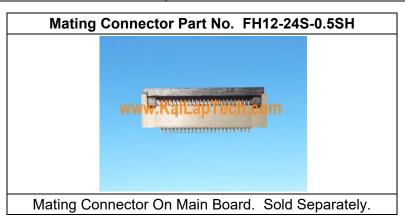
your BEST camera module partner

# KLT-J4K-OV2732 V1.0

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



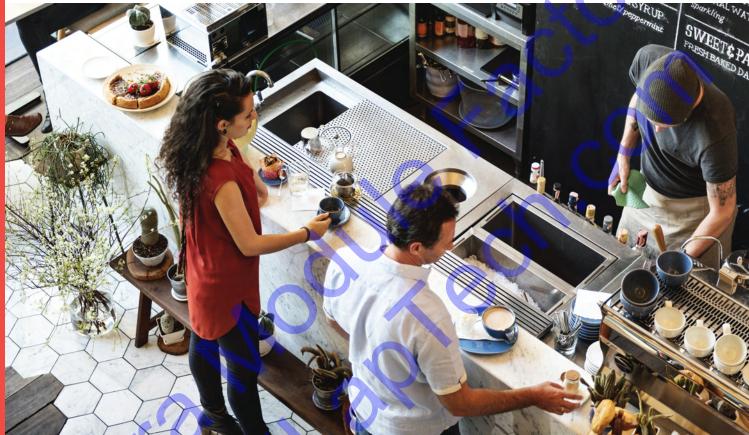
Camera Module No.	KLT-J4K-OV2732 V1.0
Image Sensor	OV2732
EFL	3.37 mm
F.NO	2.8
Pixel	1920 x 1080
View Angle	67.4°
Lens Type	1/4 inch
Lens Dimensions	8.00 x 8.00 x 4.86 mm
Module Size	18.50 x 12.50 mm
Module Type	Fixed Focus
Interface	MIPI and DVP Parallel
IMT Lens Model	IMT-1A6E001-6



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778

All rights reserved @ Kai Lap Technologies Group Ltd. Specifications subject to change without notice.





# Low-Power 1080p High Definition PureCel<sup>®</sup> 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.

available in

a lead-free

package

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 fps, and VGA resolution video at 120 fps. 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 interface
- support for image sizes:
- VGA @ 120 fps

(color, lead-free, 57-pin CSP4)

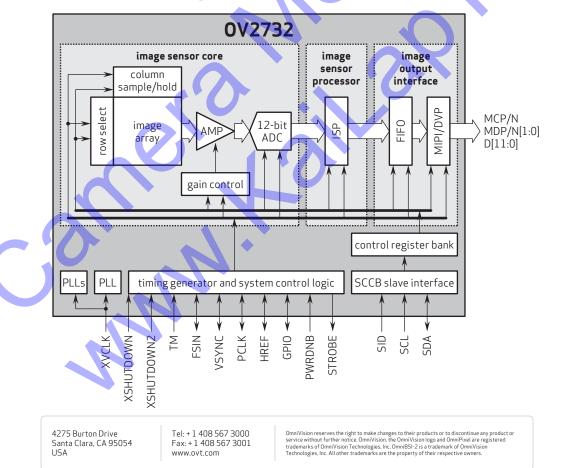
OV02732-H57A

■ input clock frequency: 6 - 27 MHz scan mode: progressive

OV2732

- 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





Version 1.1, October, 2016

 support for two lane MIPI interface (up to 800 Mbps) **Product Specifications** - 1080p @ 60 fps - 720p @ 90 fps ■ active array size: 1920 × 1080 - QVGA @ 240 fps, and more power supply: - core: 1.2V - analog: 2.8V - I/O: 1.8V support for light sensing mode (LSM) support for staggered 2 frame HDR power requirements: - active: 110 mW support for black sun cancellation on-chip phase lock loop (PLL) 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