

KLT-RTS-OV2732 V1.0

OmniVision OV2732 USB インターフェース 固定焦点 LEDフラッシュ 2MP カメラモジュール



カメラモジュール番号	KLT-RTS-OV2732 V1.0	
イメージセンサー	OV2732	Output Format: MJPG, YVY2
EFL	3.78 mm	30 FPS 1280 x 720 (HD 720P)
F.NO	2.8	30 FPS 1920 x 1080 (Full HD)
ピクセル	1920 x 1080	VGA 640 x 480
視野角	61.5°	Supporting OS
レンズタイプ	1/4 インチ	Windows 7, 8.1, 10, Vista
レンズ寸法	8.00 x 8.00 x 6.40 mm	Windows XP SP2 under UVC
モジュールサイズ	61.00 x 20.00 mm	Linux Kernel V2.6.2.1 or later
モジュールのタイプ	固定焦点	MAC OS 10.4 or later
アドオン	LEDフラッシュ	Operating Voltage: 5V +/- 5%
インターフェース	USB	Compliant with UVC Version 1.0

<p>嵌合USBケーブル部品番号: KLT-USB2A-Cable</p> 
<p>USBケーブル延長コード。 別売りされている。</p>



OV2732 1080p product brief



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



available in a lead-free package

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 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 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



Ordering Information

- OV02732-H57A (color, lead-free, 57-pin CSP4)

Product Specifications

- active array size: 1920 x 1080
- power supply:
 - core: 1.2V
 - analog: 2.8V
 - I/O: 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° linear
- 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 x t_{row}
- 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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