

## KLT-Raspberry-Pi-OV5647 V2.0

**OmniVision OV5647 Raspberry Pi Compatible Mise au point fixe 5MP M12**  
**Module de caméra**



<b>Module de caméra No.</b>	<b>KLT-Raspberry-Pi-OV5647 V2.0</b>
<b>Capteur d'image</b>	OV5647
<b>EFL</b>	1.8 mm
<b>F.NO</b>	2
<b>Pixel</b>	2592 x 1944 (QXGA)
<b>Angle de vue</b>	177°
<b>Type d'objectif</b>	1/4 pouce
<b>Dimensions de l'objectif</b>	13.60 X 13.60 X 16.00 mm
<b>Taille du module</b>	32.00 x 32.00 mm
<b>Type de module</b>	Mise au point fixe
<b>Interface</b>	MIPI
<b>Modèle d'objectif IMT</b>	IMT-7B12E003-N

Câble de connexion Réf. KLT-Raspberry-Pi-Cable



Câble pour carte Raspberry Pi. Vendu séparément.



# OV5647 5-megapixel product brief



## 5-megapixel 1/4" Image Sensor with 1.4 $\mu\text{m}$ OmniBSI Technology Offering HD Video



available in a lead-free package

The OV5647 is a 5-megapixel CMOS image sensor built on OmniVision's proprietary 1.4-micron OmniBSI™ backside illumination pixel architecture. The OV5647 delivers 5-megapixel photography in addition to high frame rate of 720p/60 and 1080p/30 high-definition (HD) video capture in an industry standard camera module size of 8.5 x 8.5 x 5 mm, making it an ideal solution for the mainstream mobile phone market.

The 720p/60 HD video is captured in full field of view (FOV) with 2x2 binning to double the sensitivity and improve signal-to-noise ratio (SNR). The post binning re-sampling filter helps minimize spatial and aliasing artifacts to provide superior image quality.

OmniBSI technology offers significant performance benefits over front-side illumination technology, such as increased sensitivity per unit area, improved quantum efficiency,

reduced crosstalk and photo response non-uniformity, which all contribute to significant improvements in image quality and color reproduction. Additionally, OmniVision CMOS image sensors use proprietary sensor technology to improve image quality by reducing or eliminating common lighting/electrical sources of image contamination, such as fixed pattern noise and smearing to produce a clean, fully stable color image.

The low power OV5647 supports a digital video parallel port or high-speed two-lane MIPI interface, and provides full-frame, windowed or binned 10-bit images in RAW RGB format. It offers all required automatic image control functions, including automatic exposure control, automatic white balance, automatic band filter, automatic 50/60 Hz luminance detection, and automatic black level calibration.

Find out more at [www.ovt.com](http://www.ovt.com).

