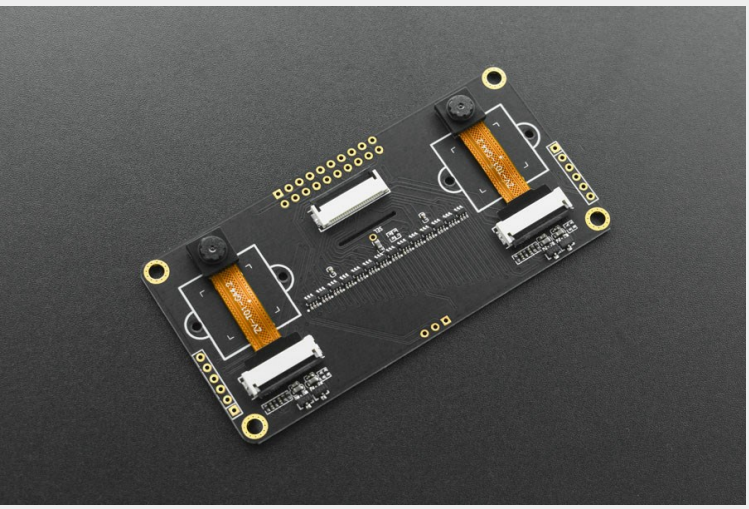
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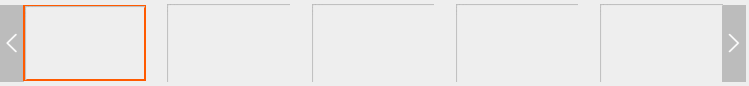


OV2640 Dual Camera

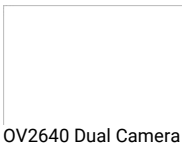
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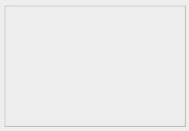
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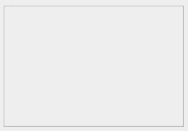
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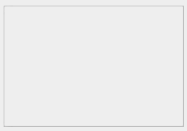
OV2640 Dual Camera +



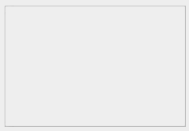
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INTRODUCTION

The binocular camera module features dual onboard OV2640 cameras, 2MP pixels, 60mm binocular distance, compatible with standard 24P camera. It is suitable for AI vision applications like depth vision and stereo vision.

The OV2640 camera chip is a low voltage CMOS image sensor that provides the full functionality of a single-chip UXGA(1632*1232) camera and image processor in a small footprint package. All required image functions, including exposure control, gamma, white balance, color saturation, hue control, white pixel canceling, noise canceling, and more, are also programmable through the Serial Camera Control Bus (SCCB) interface. Furthermore, the OV2640 includes a compression engine for increased processing power.

In addition, the camera chip use proprietary sensor technology to improve image quality by reducing or eliminating common lighting/electrical sources of image contamination, such as fixed pattern noise, smearing, etc., to produce a clean, fully stable color image.

FEATURES

- High sensitivity for low-light operation
- Low operating voltage for embedded portable apps
- Standard SCCB interface
- Output support for RWA RGB, RGB(RGB565/555), GRB442, YUV(422/420) and YCbCr (4:2:2) formats
- Supports image sizes: UXGA, SXGA, SVGA, and any size scaling down form SXGA to 40x30
- VarioPixel® method for sub-sampling
- Automatic image control functions including Automatic Exposure Control(AEC), Automatic Gain Control(AGC), Automatic White Balance(AWB), Automatic Band Filter(ABF), and Automatic Black-Level Calibration(ABLC)
- Image quality controls including color saturation, gamma, sharpness(edge enhancement), lens correction, white pixel canceling, noise canceling, and 50/60Hz luminance detection
- Line optical black level output capability
- Zooming, panning, and windowing functions

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SPECIFICATION

- Dimension: 88.24 43.87mm/3.47 1.73”
- Connecting Method: three 24P FPC connector
- Binocular Distance: 60mm
- Pixels: 16001200（UXGA）
- Output Formats (8bit): YUV (422/420) / YCbCr422
  RGB565/555
  8-bit compressed data
  8/10-bit Raw RGB data
- Function: switch camera controller is connected to DVP_PWDN
- Lens Size: 1/4”
- Chief Ray Angle: 25° non-linear
- Sensitivity: 0.6V/Lux-sec
- Maximum Image Transfer Rate: UXGA/SXGA 15fps
  SVGA 30fps
  CIF 60fps
- S/N Ratio: 40db
- Power Supply: 2.5~3V(DC)
- Power Requirements: 125mW(15fps, UXGA YUV mode)
  1400mW(15fps, UXGA compressed mode)
- Operating Temperature: Storage: -30°C~70°C
  Stable image: 0°C~50°C

DOCUMENTS

- Camera Module
- Product Data
- DualCamera Datasheet

SHIPPING LIST

- Dual Camera x1

REVIEW

FAQ

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