

Assignment B6

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Q1] What are different camera modules compatible with Raspberry-Pi 3?

→ 1) Official Raspberry Pi Camera Band module:

This is a 5 Mega Pixel CSI camera for Raspberry Pi.

2) Arducam 5MP OV5647 Sensor Mini Camera Video Module:

This is also 5MP camera which comes with additional functionalities like Pi powered quad copters or smart phone.

3) Raspberry Pi Camera Module Version 2

This is v2 camera module for Raspberry-Pi boards. Which comes with fixed focus lenses.

4) Wave Share Raspberry Pi Night Vision Camera

5) Pixy Object tracking Camera

Q2) Which picture format are supported by Raspberry camera module?

→ jpeg : a jpeg file.

png : PNG file

gif : GIF File.

bmp : bit-map file

yuv : YUV420 formats.

rgb : 32-bit RGBA format

bgr : 24 bit BGR format.

bgra : BGRA file

raw : Deprecated data for raw data

Q3) What resolutions are supported?

→ Resolutions supported are as follows:

1. 640 x 350 EGA
- 640 x 480 VGA
- 800 x 600 SVGA.
- 1024 x 768 XGA
- 1280 x 720 720p HDTV.
- 1280 x 768 WXGA Variant.
- 1280 x 800 SXGA
- 1366 x 1024 WXGA Variant
- 1400 x 768 SXGA+
- 1600 x 1200 VXGA
- 1680 x 1050 WXGA+
- 1920 x 1080 1080p HDTV.
- 1920 x 1200 WUXGA

Q4) What OS does it support will it run ~~on~~ WINE
(Windows & other x86 s/w.s) ?

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- 1) Wine is a compatibility layer that allows running window applications on UNIX systems.
 - 2) Windows Apps are mostly compiled for x86 CPU architecture & they wont run on ARM-based raspberry Pi with WINE.
 - 3) It provides x86 Linux environment on our ARM device making it possible to run x86 Windows app with WINE

Q.5) What codec can it play?

→ MPEG-2 and VC-1 decode, H264 encode, CEC Support:

- 1) Pi Codec is a device or a Computer program for encoding or decoding a digital or signal code.
- 2) A code encodes a digital stream or a signal for transmission and storage possibility in encrypted form & the function reverse the encoding for playback or editing.
- 3) Code are used to configure video streaming media & video editing applications.
- 4) In order to enjoy diverse media playback we need to manually enable the MPEG tool & VC-1 codes.