

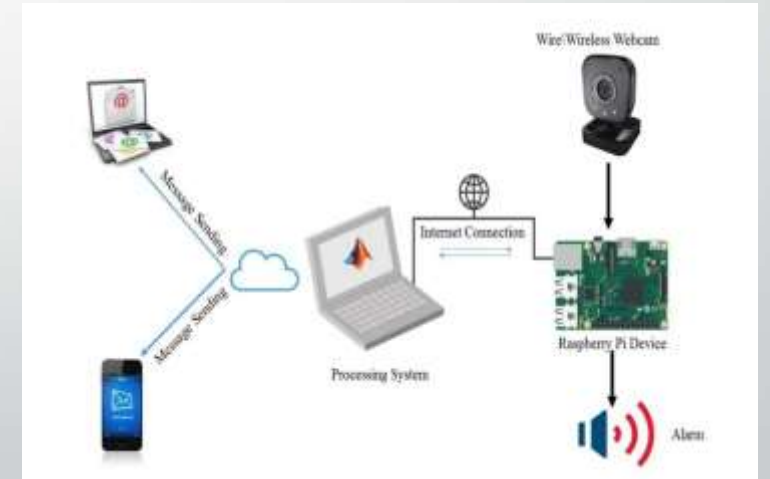
The Education University of Hong Kong
2021-2022 Quality Education Fund Thematic Network – Tertiary Institutes
STEM Project Team

SCHOOL: YING WA GIRLS' SCHOOL (S1)

TOPIC: ESP₃₂ – CAM AS IOT RECORDING TOOL

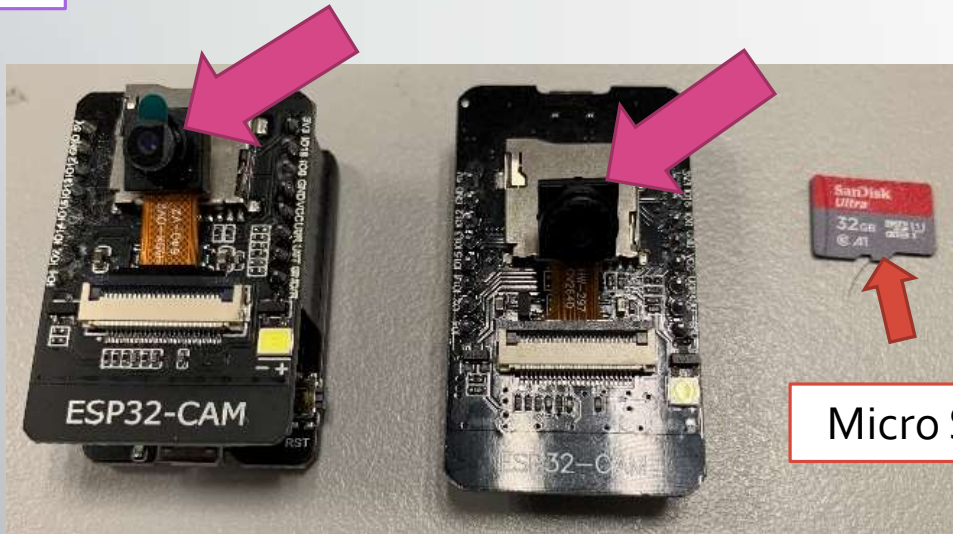
IOT Video Recording

- MIT App Inventor
- ESP32-CAM
- Raspberry Pi



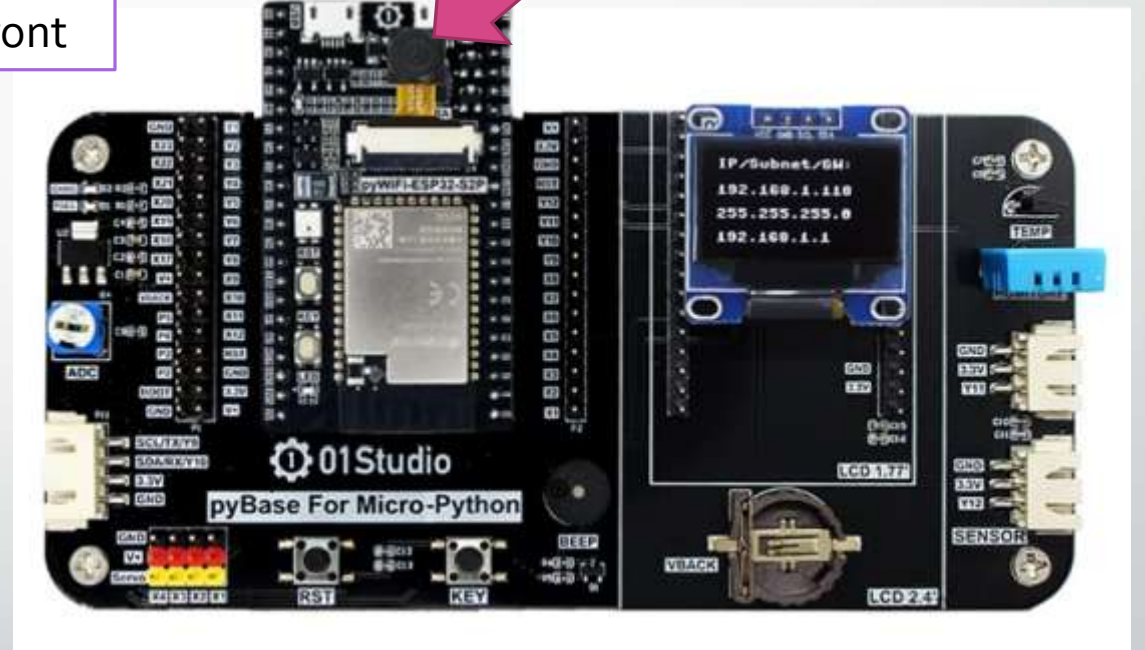
ESP32-CAM

Front



ESP32-CAM

Front



CAM: OV2640

ESP32-CAM(Python)

ESP32-CAM Arduino IDE

- CameraWebServer
- CameraWebServer + TimeLapse
- TimeLapse



Web Browser

☰ Toggle OV2640 settings

XCLK MHZ 20 **Set**

Resolution

Quality

Brightness

Contrast

Saturation

Special Effect

AWB

AWB Gain

WB Mode

UXGA(1600x1200)

✓ SXGA(1280x1024)

HD(1280x720)

XGA(1024x768)

SVGA(800x600)

VGA(640x480)

HVGA(480x320)

CIF(400x296)

QVGA(320x240)

240x240

HQVGA(240x176)

QCIF(176x144)

QQVGA(160x120)

96x96

ESP32 OV2640

Not Secure | 10.0.2.10

☰ Toggle OV2640 settings

XCLK MHz 20 **Set**

Resolution HD(1280x720)

Quality 4 — 63

Brightness -2 — 2

Contrast -2 — 2

Saturation -2 — 2

Special Effect No Effect

AWB

AWB Gain

WB Mode Auto

AEC SENSOR

AEC DSP

AE Level -2 — 2

AGC

Gain Ceiling 2x — 128x

BPC

WPC

Raw GMA

Lens Correction

H-Mirror


V-Flip

DCW (Downsize EN)

Color Bar

IP Address

Save



Export (IoT)



More about OV2640



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颜色分类 

数量 件(库存3312件)

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Materials List

- JOANLAB塑料刻度移液管 一次性血清移液管 (10ml)
~HKD 2
- RGB灯燈帶:彩色LED燈帶Neopixel WS2812B Micro:Bit
~HKD 34
- 水草 (羅漢西) (學名: Hornwort of *Ceratophyllum demersum*)
~HKD 10 /bunch
- Sodium Hydrogen Carbonate
~HKD 15 /500g
- ESP32-CAM
~HKD 35

