Warning: Trying to access array offset on value of type null in /home/clients/
ee3f943e731fc0a12d3400116692186f/html/wp-content/plugins/unyson/framework/
includes/option-types/typography-v2/class-fw-option-type-typography-v2.php on line 148

Warning: foreach() argument must be of type array | object, null given in /home/clients/ee3f943e731fc0a12d3400116692186f/html/wp-content/plugins/unyson/framework/includes/option-types/typography-v2/class-fw-option-type-typography-v2.php on line 148

Warning: Trying to access array offset on value of type null in /home/clients/ ee3f943e731fc0a12d3400116692186f/html/wp-content/plugins/unyson/framework/ helpers/general.php on line 1275

Warning: foreach() argument must be of type array | object, null given in /home/clients/ee3f943e731fc0a12d3400116692186f/html/wp-content/plugins/unyson/framework/helpers/general.php on line 1275



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Utilisation d'une camera thermique

HOME (HTTPS://ECO-SENSORS.CH/)

/ SYSTÈMES EMBARQUÉS (HTTPS://ECO-SENSORS.CH/
CATEGORY/SYSTEMES-EMBARQUES/)

/ UTILISATION D'UNE CAMERA THERMIQUE

BY ECOSENSORS (HTTPS://ECO-SENSORS.CH/AUTHOR/ ECOSENSORS/)

COSENSORS/

13 DÉCEMBRE 2018 (HTTPS://ECO-SENSORS.CH/CAMERA-THERMIQUE/)

♥ 0 **②** 2,120 **9** 0 **f У**

SYSTÈMES EMBARQUÉS (HTTPS://ECO-SENSORS.CH/CATEGORY/ SYSTEMES-EMBARQUES/)

Dans cet article je vais brièvement vous montrer comment configurer une camera thermique ARG8833 avec un Rasberry Pi

Cet article n'est pas terminé mais sert comme aide-mémoire

Préparation de votre Rasberry

Pour l'installation de votre Raspberry, vous pouvez vous aider de cet article. (https://eco-sensors.ch/2-faire-ses-sauvegardes-sans-connexion/#installation)

Privilégier, la dernière version de Rasbian, évidemment.

▲ MAIS ATTENTION, DANS LE CADRE DE CETTE EXERCICE, NE SUPPRIMER PAS LE COMPTE PI.

Il vous faudra encore faire les mises à jour et installer git (et vim et ntpdate, si ce n'est pas fait)

- 1 sudo apt-get update
- 2 sudo apt-get upgrade
- 3 sudo apt-get install vim ntpdate
- 4 sudo apt-get install git

Installation de l'écran

Référence: https://learn.adafruit.com/adafruit-pitft-3-dot-5-touch-screen-for-raspberry-pi?view=all (https://learn.adafruit.com/adafruit-pitft-3-dot-5-touch-screen-for-raspberry-pi?view=all)

https://learn.adafruit.com/circuitpython-on-raspberrypi-linux/installing-circuitpython-on-raspberry-pi (https://learn.adafruit.com/circuitpython-on-raspberrypi-linux/installing-circuitpython-on-raspberry-pi)

```
1 cd ~
2 sudo apt-get install -y git python3-pip
3 sudo pip3 install --upgrade adarruit-python-sl
```

- git clone https://github.com/adafruit/Raspber
 - 6 sudo python3 adafruit-pitft.py --display=35r -

La partie ci-dessous est obsolète. Je la garde pour mémoire

```
Select configuration:
\Psi (PiTF 2.4 . 2.8" or 3.2" resistive (240x320)
2. PiTFT 2.2" no touch (240x320)
3. PiTFT 2.8" capacitive touch (240x320)
4. PiTFT 3.5" resistive touch (320x480)
5. Quit without installing
SELECT 1-5: 4
Select rotation:
1. 90 degrees (landscape)
2. 180 degrees (portait)
3. 270 degrees (landscape)
4. 0 degrees (portait)
SELECT 1-4: 1
[PITFT] Checking init system...
Found systemd
/boot is mounted
[PITFT] System update
Updating apt indexes...
. . . . . . . . .
Reading package lists...
[PITFT] Installing Python libraries & Software...
Installing Pre-requisite Software...This may take a few mir
[PITFT] Updating /boot/config.txt...
[PITFT] Updating SysFS rules for Touchscreen...
[PITFT] Updating TSLib default calibration...
Would you like the console to appear on the PiTFT display?
[PITFT] Making sure console doesn't use PiTFT
Removing console fbcon map from /boot/cmdline.txt
Screen blanking time reset to 10 minutes
Would you like the HDMI display to mirror to the PiTFT disp
[PITFT] Adding FBCP support...
Installing cmake...
W: --force-yes is deprecated, use one of the options starti
Downloading rpi-fbcp...
Uncompressing rpi-fbcp...
Building rpi-fbcp...
Installing rpi-fbcp...
Remove fbcp from /etc/rc.local, if it's there...
We have systemd, so install fbcp systemd unit...
Created symlink /etc/systemd/system/multi-user.target.wants
Setting raspi-config to boot to desktop w/o login...
Created symlink /etc/systemd/system/default.target → /lib/s
Configuring boot/config.txt for forced HDMI
Using x1.5 resolution
[PITFT] Updating X11 default calibration...
[PITFT] Success!
Settings take effect on next boot.
REBOOT NOW? [y/N] y
                                          French
```

lastallation de la camera thermique

https://learn.adafruit.com/adafruit-amg8833-8×8-thermal-camera-sensor/raspberry-pi-thermal-camera (https://learn.adafruit.com/adafruit-amg8833-8x8-thermal-camera-sensor/raspberry-pi-thermal-camera)

Connections

Vin à la broche t3V ou 5V GND à la broche GND SDA à la broche o SDA SCL à la broche SCL

Contrôler les connections:

1 sudo i2cdetect -y 1

Ce qui devrait afficher

Installation des softs

Documentation (https://eco-sensors.ch/wp-content/uploads/2018/12/adafruit-amg8833-8x8-thermal-camerasensor.pdf)

https://learn.adafruit.com/adafruit-amg8833-8×8-thermal-camera-sensor/raspberry-pi-thermal-camera (https://learn.adafruit.com/adafruit-amg8833-8x8-thermal-camera-sensor/raspberry-pi-thermal-camera)

sudo apt-get install libatlas-base-dev (/) Q (/) (x) install adafruit-circuitpython-amg8

- 3 sudo apt-get install -y python3-scipy python3-
- 4 sudo pip3 install colour

Le script

Créer le script

1 sudo nano /home/pi/thermcam.py

Le script d'adafruit



Rendre le script exécutable et redémarrer votre Pi

1 sudo chmod +x /home/pi/thermcam.py

Lancement du script au démarrage

Editez le fichier

1 sudo nano /etc/xdg/lxsession/LXDE-pi/autostar

et ajoutez

- 1 @lxpanel --profile LXDE-pi
- 2 @pcmanfm --desktop --profile LXDE-pi
- 3 @xscreensaver -no-splash
- 4 @python3 /home/pi/thermcam.py &

Screenshot

Voici une solution simple pour faire des screenshots de l'image rendu par la caméra thermique

Installation de scrot

1 sudo apt install scrot

Création du script

1 sudo nano /home/pi/scrot.sh

French



et ajoutez les lignes

#!/bin/sh (/) C LOCATION="\$(date +/path/to/home/Pictures/shote

- 3 mkdir -p \$LOCATION
- 4 cd \$LOCATION
- 5 DISPLAY=:0 scrot '%Y-%m-%d-%H%M.jpg' -q 20

mac(if)caton despermissions

1 chmod u+x /home/pi/scrot.sh



essayez

- 1 cd /home/pi/
- 2 ./scrot.sh

Prendre un screenshot toutes les 15mn

1 crontab -e

ajoutez la ligne



Le fichier sera exécuté toutes les 15mn, du lundi au dimanche

Discussion

https://forums.adafruit.com/viewtopic.php? f=50&t=143684&p=709531&hilit=raspberry+numpy#p709531 (https://forums.adafruit.com/viewtopic.php? f=50&t=143684&p=709531&hilit=raspberry+numpy#p709531)

ARG8833 (HTTPS://ECO-SENSORS.CH/TAG/ARG8833/)
AUTOSTART (HTTPS://ECO-SENSORS.CH/TAG/AUTOSTART/)
CAMERA (HTTPS://ECO-SENSORS.CH/TAG/CAMERA/) CRONTAB
(HTTPS://ECO-SENSORS.CH/TAG/CRONTAB/) PITFT (HTTPS://ECO-SENSORS.CH/TAG/PITFT/) RASPBERRY (HTTPS://ECO-SENSORS.CH/TAG/RASPBERRY/) TFT (HTTPS://ECO-SENSORS.CH/TAG/TFT/) THERMIQUE (HTTPS://ECO-SENSORS.CH/TAG/THERMIQUE/)

PREV POST

NEXT POST

(https://eco-sensors.ch/luma-oledet-python-sur-un-raspberry/) (https://eco-sensors.ch/ installation-de-jeedom-sur-unraspberry-pi4/)





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