

Raspberry Pi B+ als (Zeitraffer) Kamera

Quellen:

- [Cron Jobs einrichten](#)
- [JPG-Bilder zusammenfügen](#)

Basissystem

- Installation des Basissystems - Raspberri OS aka. Debian Buster vom 04.03.2021

Kamera testen - einzelne Aufnahme auslösen

```
# get image directly from camera:  
christoph@christophs-nb:~$ ssh pi@raspberrypi-test-wlan 'raspistill -o  
cam.jpg'; DATE=$(date +"%Y-%m-%d_%H%M"); scp pi@raspberrypi-test-  
wlan:~/cam.jpg $DATE.jpg
```

USB-Stick einbinden

```
sudo su  
echo "/dev/sda1 /mnt/sda1          ext4          defaults,noatime 0  
1" >> /etc/fstab
```

Bilder aufnehmen

```
pi@raspicam:~ $ cat time-laps.sh  
#!/bin/bash  
#  
#FOLDER=/home/pi/time-laps  
#FOLDER=/mnt/sda1/time-laps  
DATE=$(date +"%Y%m%d")  
echo "DATE: $DATE"  
TIMESTAMP=$(date +"%Y-%m-%d_%H%M")  
echo "TIMESTAMP: $TIMESTAMP"  
FILE=$TIMESTAMP.jpg  
echo "FILE: $FILE"  
FOLDER="/mnt/sda1/$DATE"  
echo "FOLDER: $FOLDER"  
  
if [ -d $FOLDER ]; then
```

```
echo "Folder $FOLDER already exist!"
else
  mkdir $FOLDER
fi

echo -n "take a picture and store it to: $FOLDER/$FILE ... "
raspistill -o "$FOLDER/$FILE"
echo "done"
```

Automatische Aufnahmen via CRON Job

```
crontab -e
...
# execute every 5 minutes between 07:00 and 20:00 am:
*/5 7-19 * * * /home/pi/time-laps.sh
```

Check crontab for user pi:

```
sudo su
cat /var/spool/cron/crontabs/pi
```

Aufnahmen vom Pi holen

```
christoph@christophs-nb:~$ DATE=20210408; mkdir $DATE; scp pi@raspberrypi-test-wlan:/mnt/sda1/$DATE/* $DATE/
```

Zeitraffer erstellen

```
ffmpeg -r 30 -pattern_type glob -i "*.jpg" -c:v libx264 -pix_fmt yuv420p -movflags +faststart timelapse.mp4
```

From:
<https://www.von-thuelen.de/> - Christophs DokuWiki

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