**VRcamera Setup with Raspi OS Lite Setup (Bullseye) – 64 bit**

**Note: 64 bit does not support picamera**

1. Download OS image.
2. Create image on SD card (zip format is ok) using Pi Imager.
3. In Imager software:

* After selecting the image and SD card, enter the Setting / Advanced Option:
* Set password authentication
* Set username and password
* Enable ssh

1. Boot on Raspberry Pi.
2. Enter config: sudo raspi-config. Perform config (if required):

* Enable camera and SSH
* Enable i2c
* Localisation: Timezone

1. Set computer name:

* Reboot
* Ensure correct hostname in /etc/hostname
* Add ‘hostname’.local in /etc/hosts (example ‘vr77499 vr774.local

1. Update and upgrade: **sudo** **apt update ; sudo apt full-upgrade**

python -m pip install --upgrade pip

1. Install Git: **sudo** **apt install git**
2. Clone the Git repository in user root directory:

git clone https://github.com/vilerareza/vrcamera7.git

1. No need to install Python. Verify Python installation: **python –version** - (should be latest)
2. Install pip3: **sudo** **apt install python3-pip**.
3. Install OpenCV (headless): pip install opencv-python
4. Install dlib: pip install dlib
5. Install scipy: pip install scipy
6. Reboot

git clone <https://github.com/vilerareza/sleep_awaker_pi.git>

scp "E:/vscode/eye\_blink\_detection/ shape\_predictor\_68\_face\_landmarks.dat" pi@192.168.43.109:/home/pi/

**Checking available camera:** vcgencmd get\_camera

/boot/config.txt

dtoverlay=imx708

camera\_auto\_detect=0

sudo nano /etc/dphys-swapfile

sudo /etc/init.d/dphys-swapfile stop

sudo /etc/init.d/dphys-swapfile start

sudo apt-get install build-essential cmake

sudo apt-get install libgtk-3-dev

sudo apt-get install libboost-all-dev

wget <https://github.com/prepkg/dlib-raspberrypi/releases/latest/download/dlib_64.deb>

sudo apt install -y ./dlib\_64.deb