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#### Sky Imager Aggregator Documentation for Admin/User

# Short description of the system as a whole

The RaspberryPi is connected to the camera true an Ethernet cable. The purpose of this system is to accesses the camera to take a picture every 10 seconds. Once the photo is taken a mask is applied to cover the surrounding objects. When this process is finished the software accesses the server and sends the photo.

### Minimum HW requirement

- RaspberryPi 3 Model B+
- Noobs microSD
- Power supply 2.5A 5.1V
- Ethernet cable
- o camera

#### Library and SW

The RaspberryPi works on Debian operating system which is a Linux based system. For use of this code you will need python 3.5 and python 2 as well.

OpenCV library is needed as well, which you can install by following this link: https://www.pyimagesearch.com/2018/09/26/install-opency-4-on-your-raspberry-pi/a You will also need the following libraries:

- **o** numpy
- subrpocess
- **o** datetime
- **o** http
- os os
- sys
- time ison
- base64
- сору
- configparser

And to control the program we use supervisor service.

## Installation and use

Using the code is pretty simple and can be done in two steps:

- 1. You need to download the repository from github
- Change supervisor service configuration file by adding the two scripts to supervisord.conf like so:

[program: split] directory = /home/pi/code command = python3 split.py startsecs = 10 nodaemon = false autostart = true autorestart = true



This is to be done for SendStorage.py the same way. For more information about supervisor read the instruction manuel.