

Portal Control System:

This system controls the opening of a portal with a remote control.

There is a motion sensor that takes pictures (VGA 640x480) and stores them on the SD card (It is possible to enable / disable motion detection).

Remote control is able to open portal, enable/disable motion sensor and take photo, with many push buttons. A bip sound indicates if command is transmit. In the case of motion detection: 1 bip = enable 3 bip = disable

- Using RF module (433MHz) to communicate with remote control
- Using relay module to activate portal command
- Using OV7670 sensor to take photo
- Using SD card to store image
- Using motion sensor to detect person in front of portal

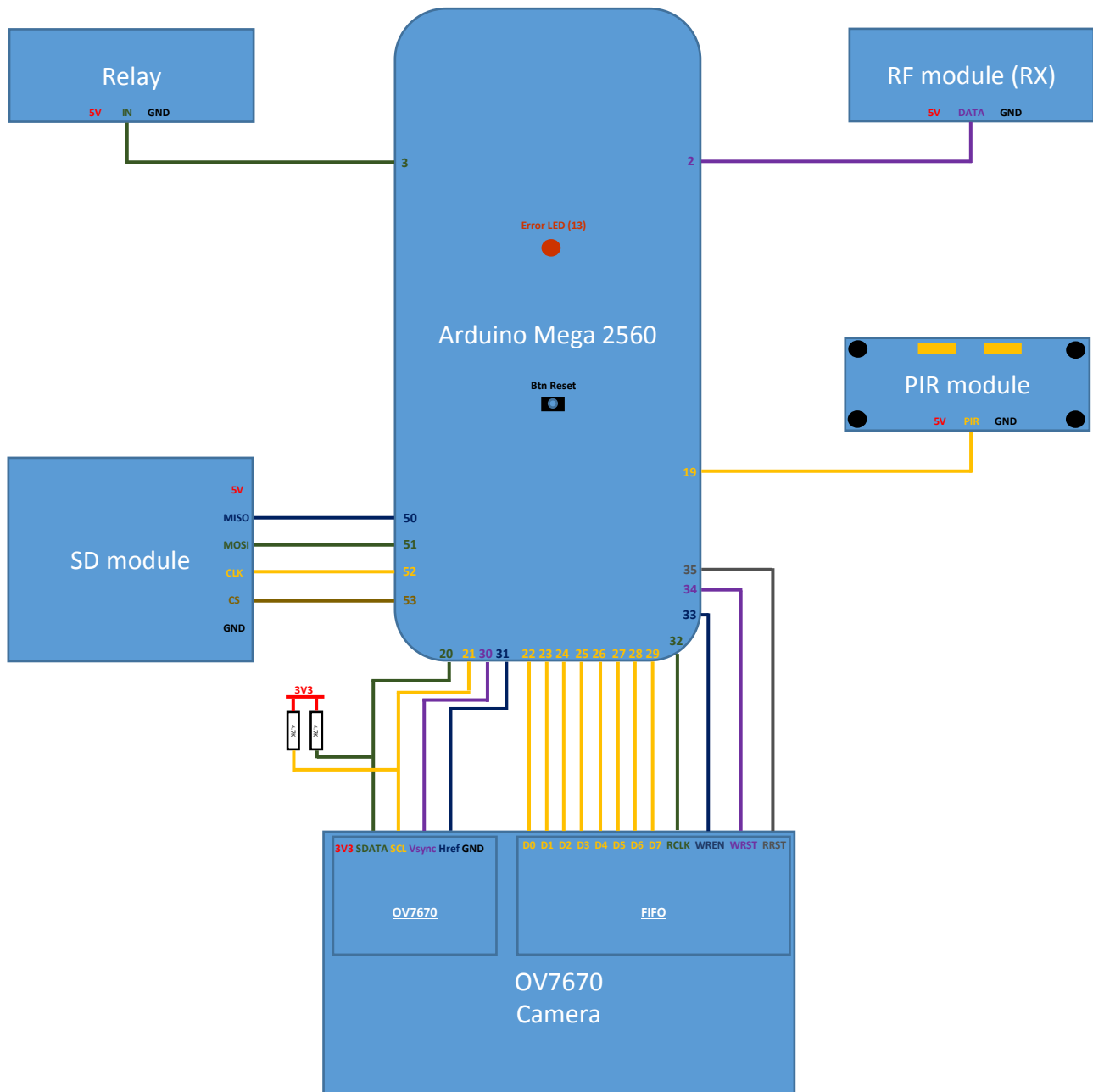
Material:

- Portal Control
 - Arduino Mega
 - OV7670 camera
 - SD module
 - PIR Motion sensor
 - RF module 433MHz (RX)
 - Relay

- Remote control
 - Tiny85
 - RF module 433MHz (TX)
 - Push button
 - Buzzer

Block diagram:

- Portal Control



▪ Remote Control :

