

Simple home surveillace system

Since security and privacy has become something crucial nowadays we decided to build a simple surveillance system designed mainly for houses but the general design can be used to larger properties such as companies parkinglots or any sort of property that can be assigned one or more individuals

Members

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Description

A house autonomous surveillance system that notify the owner whenever it detects any sort of movements and trigger a sound alarm in the absence of the owner's feedback.

Fonctionement

The system is a combination of two cameras , two motion sensors and finger print working in parallel . The sytem is continuously proccessing its environment , and when a object is close enough the system begin a live stream , if the system does recognize the owner using the fingerprint device he will receive an email wich contains an image of the detected object as well as a link to the camera live stream , the owner than will have the choise to trigger

an alarm or discard the the warning , in the absence of any feedback the alarm will be trigged any way .

Market study

There are already a tons of [houmeSurveillance-like](#) device with almost the same range of prices (200€ - 1000€) in the market however none of them provide the fingerprint feature which make security more robust and reliable .

Leading companies

- VERISURE

Verisure, formerly Securitas Direct, is a Swedish-based company specializing in alarms with remote monitoring for individuals and small businesses. It is present in 17 countries¹ in Europe and South America and has 3.3 million customers

Description de leur produits

Once the system is connected, the remote monitoring must respond to alarm signals at all times. In the event of an alarm, it is necessary to remove the doubt, this is compulsory according to the internal security before notifying the police, the fire brigade or the SAMU. The remote surveillance officers can communicate with the customer or potential-

intruders via the intercom in the alarm center. The company can also send a guard on the property

composants

- Raspberry pi 4 (pour l'instant)
- 500W Raspberry Pi Camera Module HD 160 ° Vidéo Grand Angle Webcam
- DC 2.7 À 12 V Infrarouge PIR Motion Capteur Humain Détecteur Automatique Module Mini Module PIR Mini Module D'induction Du Corps Humain
- Arduino capteur digital