

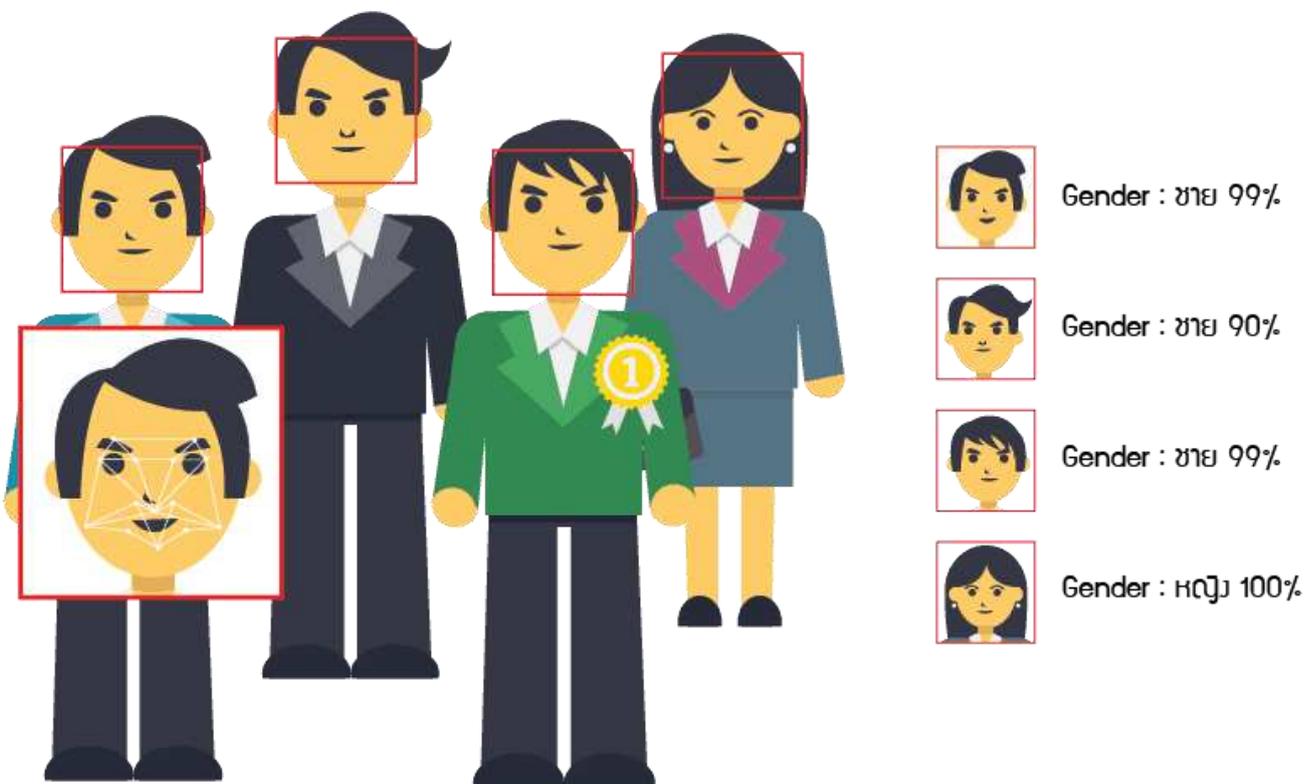
TT SMART VISION

Face counting and analysis



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Face recording program captures and records the faces of people passing through the area. The system will work with high quality IP Camera CCTV. By working, the system will capture and record the person's face that passed into the camera that has been set and set. Will then save to the database. By which the system can record and classify individuals according to gender And tell the age of the person that the camera can capture And also count the number of individuals by gender All data can be displayed in the report format. Such systems are suitable for use in marketing to analyze customer behavior. Of department stores, supermarket stores or applied to agencies or organizations as appropriate



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System features (Software)

- The system can detect faces with more than 95% accuracy.
- Three-face detection system can detect multiple faces simultaneously
- The system will record once and will not record in the same frame.
- There is a system to manage face data such as searching, recording, editing.
- There is a system to send image data via File transfer protocol
- Supports SQL database, MySQL, Oracle
- Every recorded face will have time to capture the detector for easy searching.
- The system can be used in conjunction with Software and other systems such as sheets, reports
- The system can record unlimited faces. Depending on the storage area of the computer

Features of the camera used to detect

- High resolution (Network Camera), resolution not less than 3MP or better
- can change the distance of the lens To get the desired image distance
- Low-pass filter technology for cutting bright light (Car headlight light) for clear images
- There is an infrared set For shining images at night
- The camera supports standard IP66 usage in case of external installation.



Installation equipment

- Camera for capturing images and recording faces automatically and housing
- Infrared set (in the case of low light and want to see the night image)
- Computer Set Specification Processor Corei7 Gen6 Speed 2.6GHz, 8GB RAM, 1 TB HDD Windows 7 professional or better or Windows 10 professional or better
- Uninterruptible power supplies for devices in the system
- Network Switch device
- Webserver device set (in case of need to manage the central system)
- ADSL Router device (in case of need to link and view data from the center)

Installation characteristics

- The camera installation position is in the corner of the face, capturing the face directly. Saw both of the two faces and the angle of the face tilted not more than 15 degrees
- The camera's angle of detection must match the face. In the most parallel manner To make the system work as accurately as possible
- In case of mounting the camera to a high ceiling Have to retract the camera in the far corner And zoom the lens into the most visible face of the face
- The size of a person's face image must be large, about 1 in 10 of the whole picture. To make the system work as accurately as possible
- Details and dimensions of individual faces Between the black eyes, the sharpness of the picture is not less than 150 pixels. It helps to make the system work as accurately as possible.
- In the camera angle for capturing faces, people must not obscure objects. In order to obtain accurate information



System installation restrictions

- Network Camera used to be a high resolution camera
- Sample of high resolution camera and can adjust lens size
- Select the software system that has been tested, installed and used And have clear reference information
- Should check the equipment that is used to support the software system used or not. Prevent problems with compatibility of devices.
- View and position in the camera installation Must be tested before actual installation. For the most accurate and accurate results
- The angle that captures a person's image Must have the characteristics of the image that is not directly tilted more than 15 degrees
- The camera should be installed in areas that can control light.
- Portrait characteristics must not wear dark glasses. Or wearing a mask covering the mouth and nose completely
- Do not wear a hat in the manner of covering the eyebrows, eyes and eyes that affect the operation of the system.
- The grip area of the camera must not shake. Because it can cause data errors
- In the area where the camera captures, captures, analyzes, and recognizes faces, there must be no obscured objects. Because it will affect the accuracy and accuracy of the system

Highlights of the Face Recorder program

- The program has been developed with the Thai team (Made in Thailand) so it can customize the program to suit the needs of customers.

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- Compatible with all brands of CCTV cameras via ONVIF or RTSP standards
- able to notify various events to the Video Management Software program that the customer wants
Currently supports VMS, NxWitness, VIVOTEK VAST, 3T SMART and others.

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