

# TT SMART VISION

## Face Recognition and Face Matching



TT SMART VISION CO., LTD.

The screenshot displays the TT SMART VISION software interface. At the top, there are tabs for 'ภาพสด', 'ค้นหาใบหน้า', 'ค้นหาใบหน้า Matching', and 'ภาพใบหน้าที่ถูกจับคู่ Matching'. Below these is a table with columns: No, Image, ID, Date-Time, camera, and Path. Two rows are visible, corresponding to IDs 13423 and 13422. Below the table is a 'Live Streaming' window showing a video feed of three people. To the right of the video is a 'Live Data' table with columns: No, ภาพที่จับคู่, Date-Time, Gender, and Exp. A yellow circle highlights a row with a matching percentage of 67%. To the right of the 'Live Data' table is a 'Real Time Matching ...' section showing two face images and a matching percentage of 21.00984%. Below this is a 'ภาพจากกล้อง' section with a table of images and their matching percentages. At the bottom left, there is a 'Live Report' section with statistics: จำนวนทั้งหมด: 1372, จำนวนเพศชายทั้งหมด: 645, จำนวนเพศหญิงทั้งหมด: 727, and จำนวนคนที่ขึ้นทั้งหมด: 372.

No	Image	ID	Date-Time	camera	Path
13423		20161008-120431-2797	2016-10-08 12:04:31	cam02	save2mp\cam02\20161008_20161008_120431_2797_cam02_nb_i...
13422		20161008-120430-2796	2016-10-08 12:04:30	cam02	save2mp\cam02\20161008_20161008_120430_2796_cam02_nb_i...

No	ภาพที่จับคู่	Date-Time	Gender	Exp
1...		2016-10-08 12:04:30	ชาย(99%)	ดี: 67%; ผิด: 13%
1...		2016-10-08 12:04:25	ชาย(82%)	ดี: 13%; ผิด: 8%
1...		2016-10-08 12:04:19	ชาย(99%)	ดี: 82%; ผิด: 8%
1...		2016-10-08 12:04:18	ชาย(99%)	ดี: 83%; ผิด: 8%
1...		2016-10-08 12:04:17	ชาย(99%)	ดี: 94%; ผิด: 8%
1...		2016-10-08 12:04:05	ชาย(99%)	ดี: 7%; ผิด: 8%

No	Image	ความเหมือน	Path
1		21.00984%	Store4match\201603...
2		6.222044%	Store4match\201603...
3		5.754233%	Store4match\201603...

Live Report

- จำนวนทั้งหมด : 1372
- จำนวนเพศชายทั้งหมด : 645
- จำนวนเพศหญิงทั้งหมด : 727
- จำนวนคนที่ขึ้นทั้งหมด : 372

Face Detection engine will detect and capture the face from the surveillance camera, which required high resolution IP CCTV camera.

Then Face Recognition engine will analyse the facial image of newly capture then compared to the image in the database, then program will provide the matching percentage scale ranging from 1-100%, The more accuracy, the more percentage you get. We can programmable the detection percentage, alarm percentage, If the percentage is reach the matching number, then system will be notified immediately.

The system is suitable for monitoring the safety of people in the office building, agency or location. Checkpoint security, etc.

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### Software Specification

- Maximum five face detection system simultaneously.
- The system can analyze facial features point from the facial structure.
- The system can add new face database for comparison.
- The system can alert the Blacklist.
- The system can set the accuracy level for comparison.
- The system can display similarities.
- Facial image management system such as search, edit, and edit.
- File transfer protocol
- Supports SQL, MySQL, Oracle databases.
- All recorded faces will have timestamp for easy searching.
- The system can be export to excel or pdf, providing the interface to sent out notification through http command.

### Camera specification

- High Resolution Network Camera at least 3MP or better.
- 8-50mm Vari-focal Lens which can adjust the lens distance to get the desired image range.

### PC CPU Specification

- Processor Corei7 Gen6 Speed 2.6GHz, 8GB RAM, 1 TB HDD Windows 7 Professional/Windows 10 Professional
- Webserver Kit (for central administration)

### Recommended Camera Installation

- The camera mount position is in portrait orientation. Face viewing angle not more than 15 degrees.
- The size of a person's face must be about 1 in 10 of the total viewing angle for the most accurate system work.
- Details and size of the person's face. The distance between black eye with a resolution not less than 150 pixels will help make the system work as accurately as possible.

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- In the camera angle, the subject must not obstruct the subject, to get accurate information.

### System Restrictions

- The camera should be mounted in a light-sensitive area.
- Human must not be wearing dark glasses or mask cover your mouth and nose.
- The camera mount must not be subjected to vibration. This will cause data corruption.

### Highlights of the Face Recorder program.

- The program was developed by Thai team (Made in Thailand) so it can customize the program to suit the needs of customers.
- Compatible with all brands of cameras with ONVIF or RTSP standards.
- We can provide the alarm events to the Video Management Software that customer wants. Currently supports NxWitness, VIVOTEK VAST, 3T SMART and more.

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