

# TT SMART VISION

## Industry Object Counting System



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Counting and sorting systems for industrial objects (Industry Object Counting System) is a system for counting quantities, numbers and types of industrial system objects. The system will work with high quality IP Camera to capture real time images along with software to count the number and size of objects. And displays the said amount in real time on the monitor screen Such information can be used for evaluation and business analysis. The system can display the data in the form of Report.

The screenshot shows a software window titled 'Form1' with two buttons, 'button1' and 'button2'. Below the buttons is a live video feed of a person in a white uniform working at a conveyor belt. A red rectangular box highlights a specific object on the belt, and a blue box highlights another object below it. To the right of the video feed is a data table with columns for 'no', 'pic', 'size', and 'desc'. Below the video feed, there is a summary of counts in Thai text.

no	pic	size	desc
7		329 [115808]	size 30
6		439 [151455]	size 90
5		353 [85426]	size 60
4		400 [132800]	size 90
3		355 [91590]	size 60
2		407 [129019]	size 90
1		372 [96720]	size 60

ทั้งหมด : 7  
Size 30 : 1  
Size 60 : 3  
Size 90 : 3

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### System features (Software)

- The system can count objects at the desired location.
- The system can count all types of objects.
- The system can display images of objects, number, size and type of objects.
- Data can be analyzed And evaluating work in each department
- There is a data management system such as searching for notes, editing
- There is a system to send image data via File transfer protocol
- Supports SQL database, MySQL, Oracle, Postgres

### Features of the camera

- High resolution (Network Camera), resolution not less than 2MP or better
- can change the distance of the lens To get the desired image distance
- Low pass filter technology for cutting bright light for clear images
- The camera supports standard IP66 applications in case of external installation.

### Installation equipment

- Camera for capturing, analyzing and counting the number of objects
- Comprehensive computer set introducing 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

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- 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 location of the camera is located in a high angle, with an overview of the area to set the system to count the number of objects.
- Camera angle for counting, counting, pressing, shining, clear objects
- In the camera angle for capturing objects to count and classify Must not be obscured In order to obtain accurate information

### System installation restrictions

- Network Camera used to be a high resolution camera
- 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 grip area of the camera must not shake. Because it can cause data errors
- In the camera installation area, count the number of objects and classify Must not be obscured Because it will affect the accuracy and accuracy of the system

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Example of system operation

The screenshot shows a software window titled 'Form1' with two buttons, 'button1' and 'button2'. Below the buttons is a camera feed of a factory floor. A yellow box highlights a white box on a conveyor belt. Below the camera feed, the following text is displayed:

ทั้งหมด : 7  
Size 30 : 1  
Size 60 : 3  
Size 90 : 3

no	pic	size	desc
7		329 [115808]	size 30
6		439 [151455]	size 90
5		353 [85426]	size 60
4		400 [132800]	size 90
3		355 [91590]	size 60
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Highlights of the counting system And sorting objects In industrial

- Program can customize the program to suit the needs of customers.
- Can be used with all brands of CCTV cameras via the ONVIF or RTSP standard.
- Can notify various events to the Video Management Software program that customers want Currently supports VMS, NxWitness, VIVOTEK VAST, 3T SMART and others.

ติดต่อเรา : โทร. 062-365-6463

บริษัท ทีที สมารท วิชั่น จำกัด : 519/13 หมู่บ้านนาราสี โทเพียร์ ถนนนวมินทร์ แขวงคลองจั่น เขตบึงกุ่ม กรุงเทพฯ 10240

