



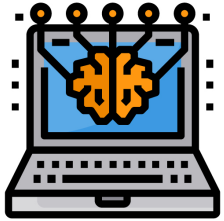
Ai Vision

Smart Recognition System

WHAT'S AI VISION

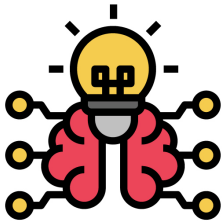
Ai Vision can make each image recognizable by interpretation, Ai Vision could drive the machine understand the current situation , after continuously learning and improvement, the accuracy rate of computer Ai vision recognition , will be able to reach almost 100% . Ai Vision can be implement in different types of business , could be customized according to different industries. The state -of-art Ai Vision image recognition system developed by eRaySecure, we partner with every manufacturers upgrades them to the phase of Industry 4.0 , developing to the industrial automatic systems, make factories moving forward into the intelligence era, also for sure more competitive. The Ai Vision image recognition system is different from the former 2D image recognition. Ai Vision uses multiple 3D with multi condition , integrated with the most state-of-art artificial intelligence deep learning technology, self-learning enables the system to the most accuracy. In addition, Ai Vision can also integrate with back-end PLC and ERP systems to generate the reports in order to optimize production lines, improve efficiency, and reduce the total human resource and management cost.

AI VISION EXPERTISE



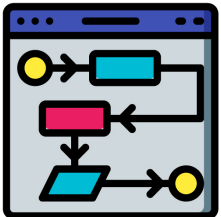
HIGH CUSTOMIZATION

Ai Vision image recognition can make different customized services according to the needs of the industry, with extremely high flexibility.



SELF-LEARNING SYSTEM

Ai Vision recognition server uses deep learning technology, it needs only few samples to determine a specific event or object. For example, the behavior of people in the picture, or the direction of the car, the flashing light, etc., However the more of samples giving, the higher of the accuracy of recognition will be.



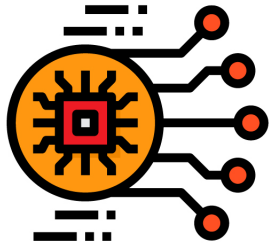
DETECT ANORMALY CONDITION

It only needs to define clearly what is “normal” and what is “Anomaly”, and the Ai Vision recognition server can instantly determine what is anomaly, which is convenient for personnel to follow-up working process.



NOTIFICATION OF DANGEROUS AND SUSPICIOUS MATTERS

In case an abnormal situation or a pre-defined suspicious behavior is detected, the system can immediately alert through the CMS, allowing relevant personnel to deal with it in real time, and even help prevent the occurrence of regrets during the critical period.



INTEGRATE EXISTING SYSTEMS

As the brain of the monitor, Ai Vision only needs to connect to the back-end system to make an immediately and correct response. We can transmit the calculating result to the back-end alarm system or let the system respond automatically to the control system which can reduce the Manpower.



Ai Vision Solution



AI Behavior Detect



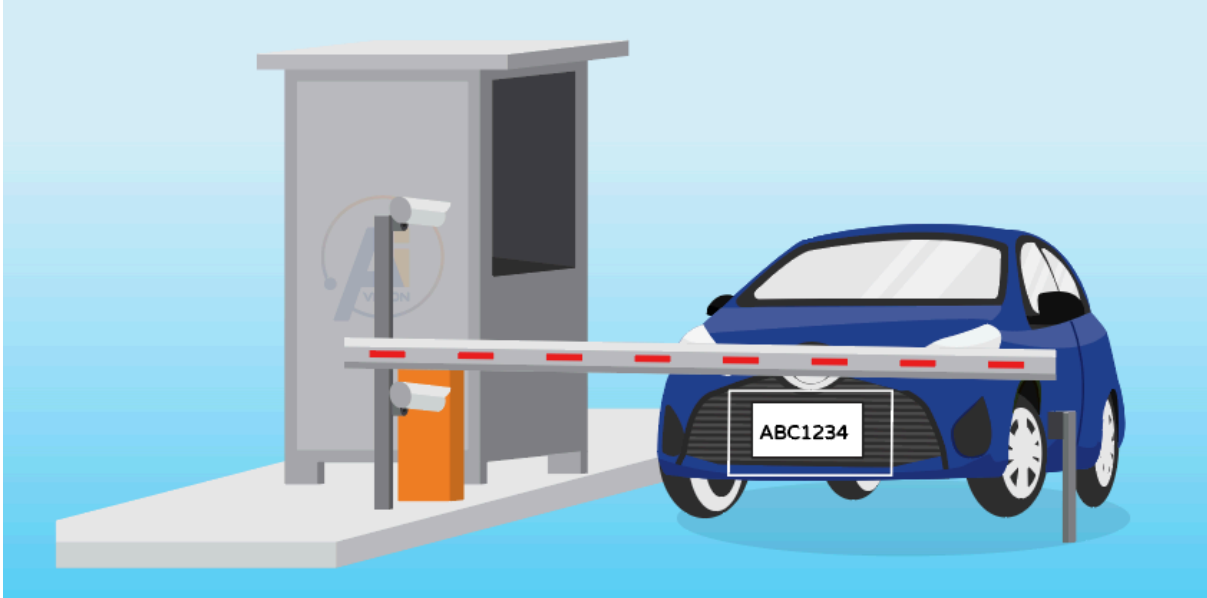
Ai Vision can detect data from a vision by camera and transferred data generated by human faces and bodies. Track harmful behavior, violence, climbing, line crossing, movement, incorporate medical recommendations into patient behavior and predict disorders.

AI Behavior Detection for Healthcare features and more.

- Apply predictive analytics and deep learning techniques to predict suspicious behavior in real time.
- Monitoring and Notification for all suspicious behavior.
- Smarter report with reliant information and data.
- Able to work with other system such as alarm system and mobile notification.
- Customizable dashboard and centralized management.



AI License Plate Recognition



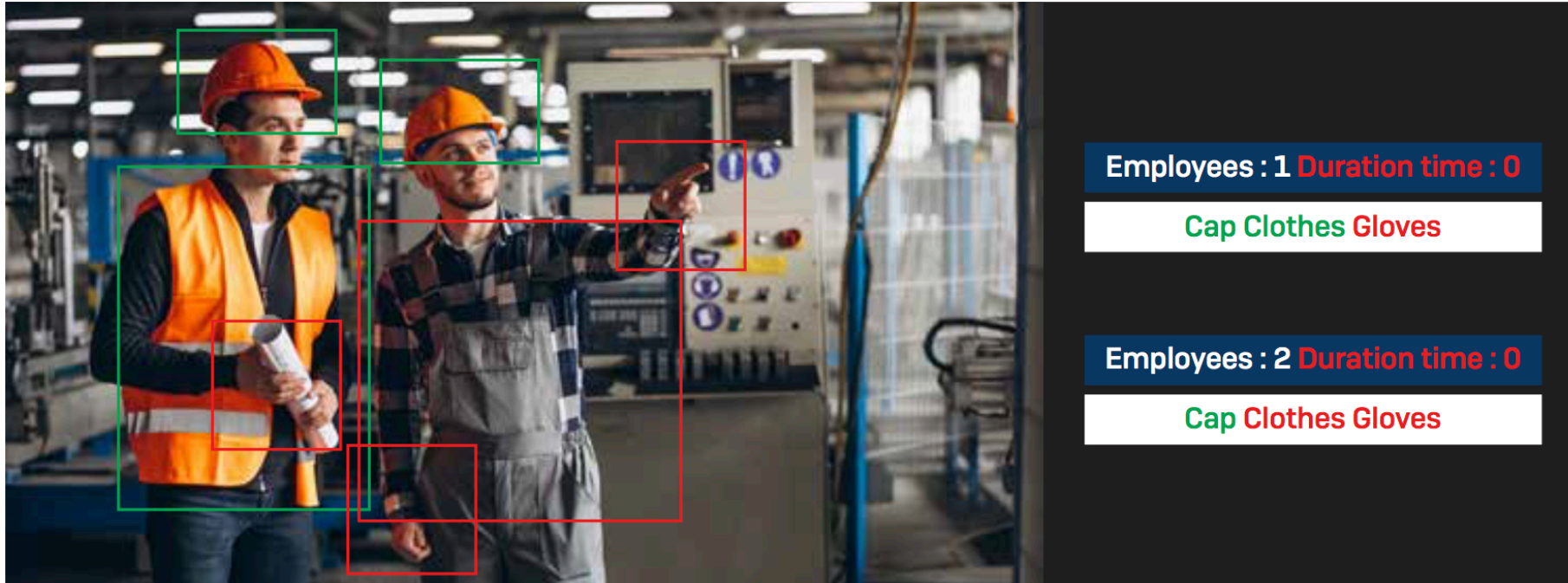
The latest technology and advance of AI which is different from other License Plate Recognition, Ai Vision use AI algorithm platform to analyze as well as recognize letters, numbers types, colors, and brands of the vehicles. Ai Vision can recognize license plate correctly in any kind of circumstances.

AI License Plate Recognition features and more.

- Vehicles evaluation and recognition
- Simple search information by license plate number, date and time, Driver's name and so on.
- Automatic control to gate access and parking system.
- Easy tracking to driver face recognition, facial Expression and attributes
- Persons or vehicles recognition and tracking
- Log and report for all information and data



AI Equipment Policy check

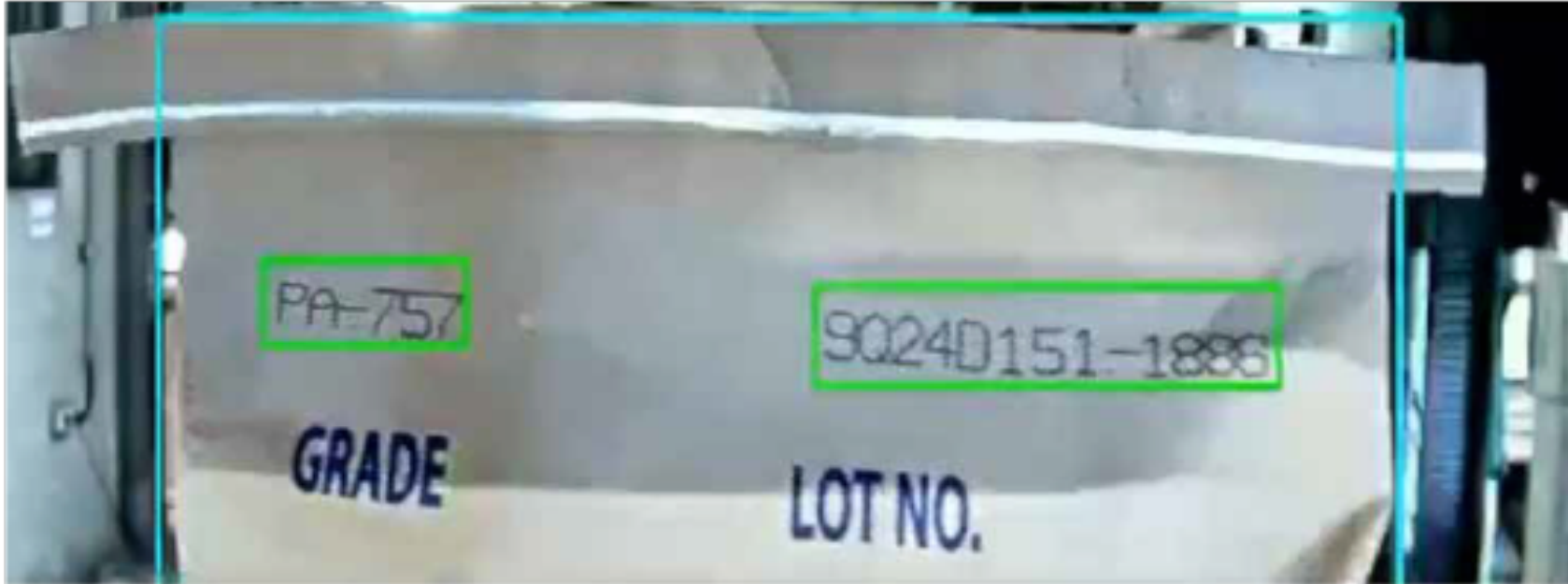


Improve safety in your workplace with AI equipment policy check which can help reduce unexpected accident, especially for the hazard environment, such as Petrochemicals & Chemicals Industrial, Metal Industrial, Construction, and so on.

- For safety purposes: Equipment wearing check e.g. Mask, Cap, Hat, Glasses, and Gloves.
- Avoid contamination in products



Smart Q.C Abnormal Detection



Ai Vision can replace the former manual inspection and reduce the errors. It can provide an effective management with a consistency, immediacy, and overall image of the production data, makes the business decisions are clearer. Manufacturers can also use the data in management, it always a milestone in optimizing production process. The production process data management system in a traditional way requires manager to process workflow and deal with the information from several units and categories. This can greatly reduce the efficiency of administrator and production units.



AI Weighbridge System



1 On arrival, The AI will scan the license plate and determine the truck's approval for entry in real-time eliminating.

2 Without going to the checkpoint, all information will be available on the cloud. Eliminating the first checkpoint and the 6 employees.

3 Due to the smart weighbridge system connected to the cloud, distributors can fill out the application form in advance.

4 Once the vehicle passes through the weighbridge, the system will retrieve vehicle data determining the truck's purpose from loading or unloading without any human intervention

5 The truck will then arrive at the loading dock per instructions

6 While waiting for other trucks to unload, the driver can exchange documents at the second checkpoint

7 After unloading or loading cargo, the truck will arrive at the weighbridge again and the license plate and cargo will be sent to the database for departure



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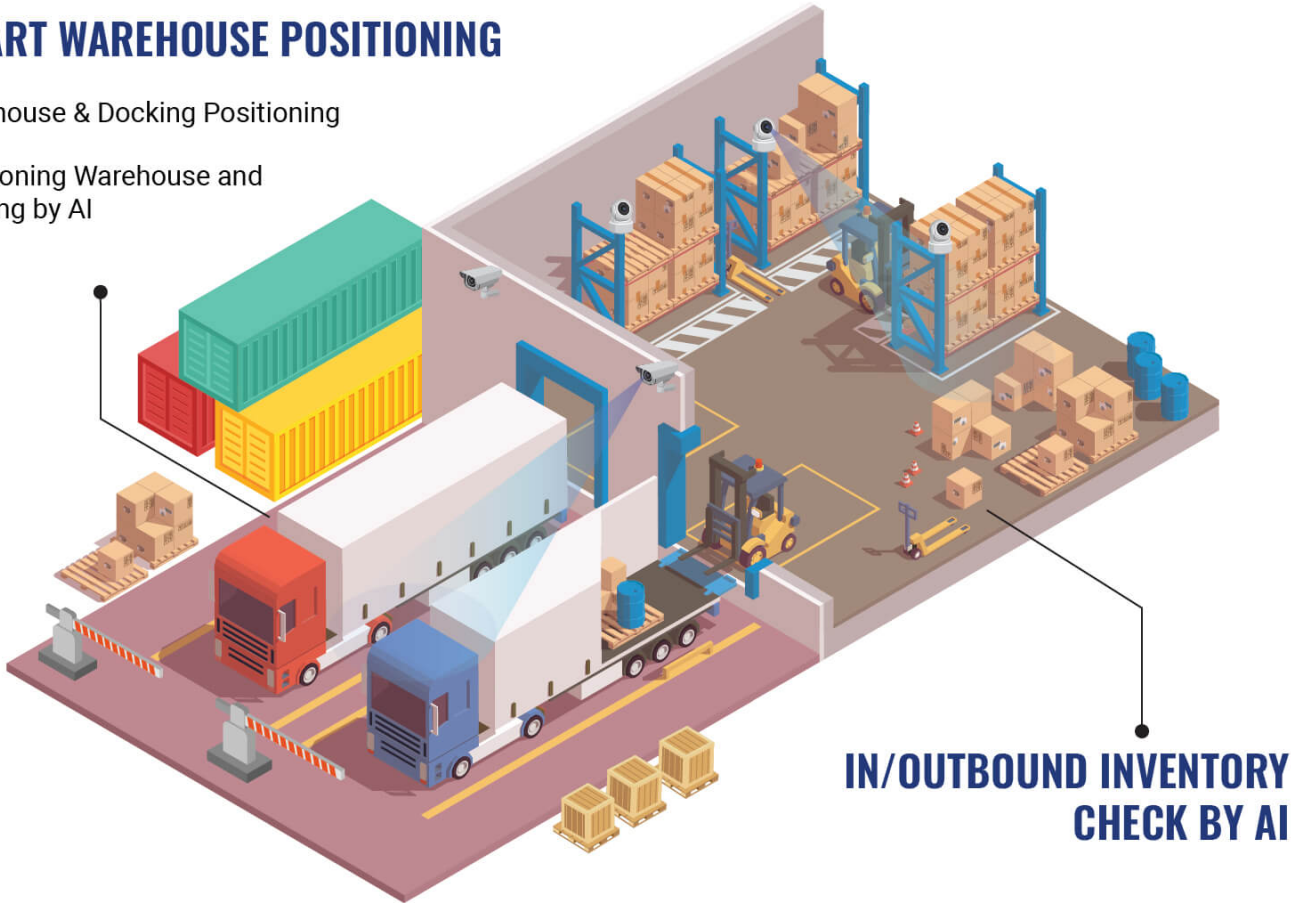


Ai inventory system

SMART WAREHOUSE POSITIONING

Warehouse & Docking Positioning

Positioning Warehouse and docking by AI



**IN/OUTBOUND INVENTORY
CHECK BY AI**

Ai Vision smart inventory system can be used with the internal inventory system. Use Ai to inventory the goods in and out. And when the goods in stock is too low, it will proactively notify the administrator. It can reduce errors caused by manual inventory and improve the efficiency.



AI Dashboard Recognition



AI Dashboard Recognition can provide overall view of information for all AI algorithm to track, collect, analyze, reports and display all data to monitor and management with our intelligence tools.

Camera Integrity Check



Agenda

Camera Integrity Check system introduction

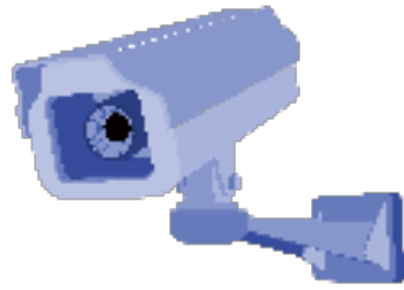
- To solve customers problem and meet their needs with regard to surveillance cameras.
- CIC strength and advantages.

Architecture and Deployment

- Architecture and Hardware.
- Deployment Cases.



Are They still Connected ?

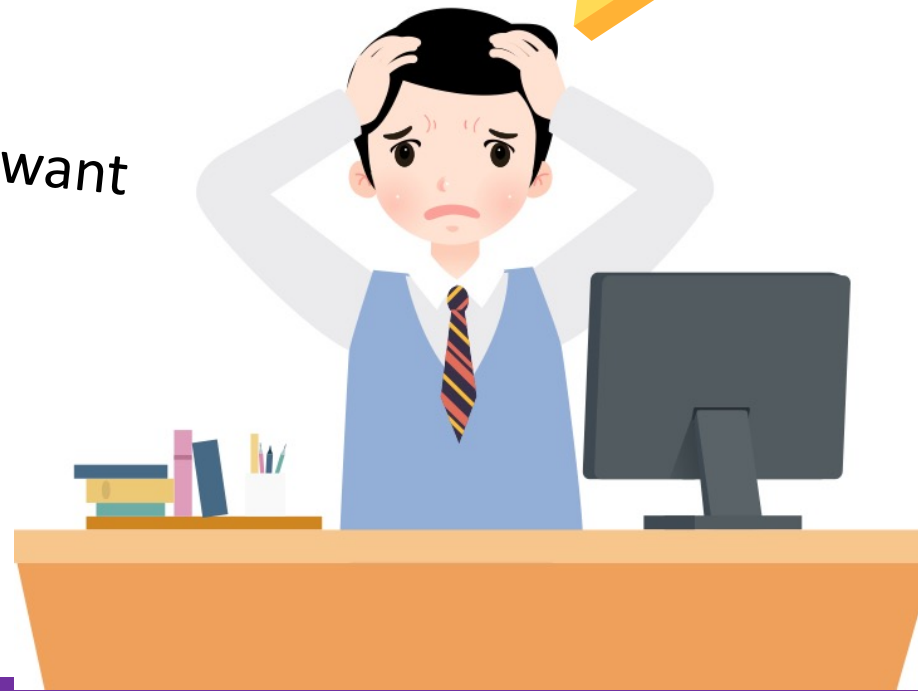


What Happened??

No Recorded Video When needed!!

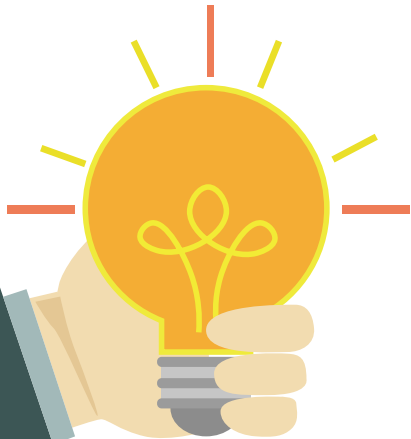
The Video is still What you want
(Quality ?)

Are They still Functionable ?
(Still Alive ?)



Camera Integrity Check

Alert & Report the Abnormal



Abnormal Detection

- ✓ Physical appearance: Is there dust on it? Is it ruined?
- ✓ Signal: Does it connect well? Is the wire or cable wear and tear?
- ✓ Screen: Is it clear enough? Does the camera focus? Is the angle right?
- ✓ Does the video be saved in correct way?



Strength

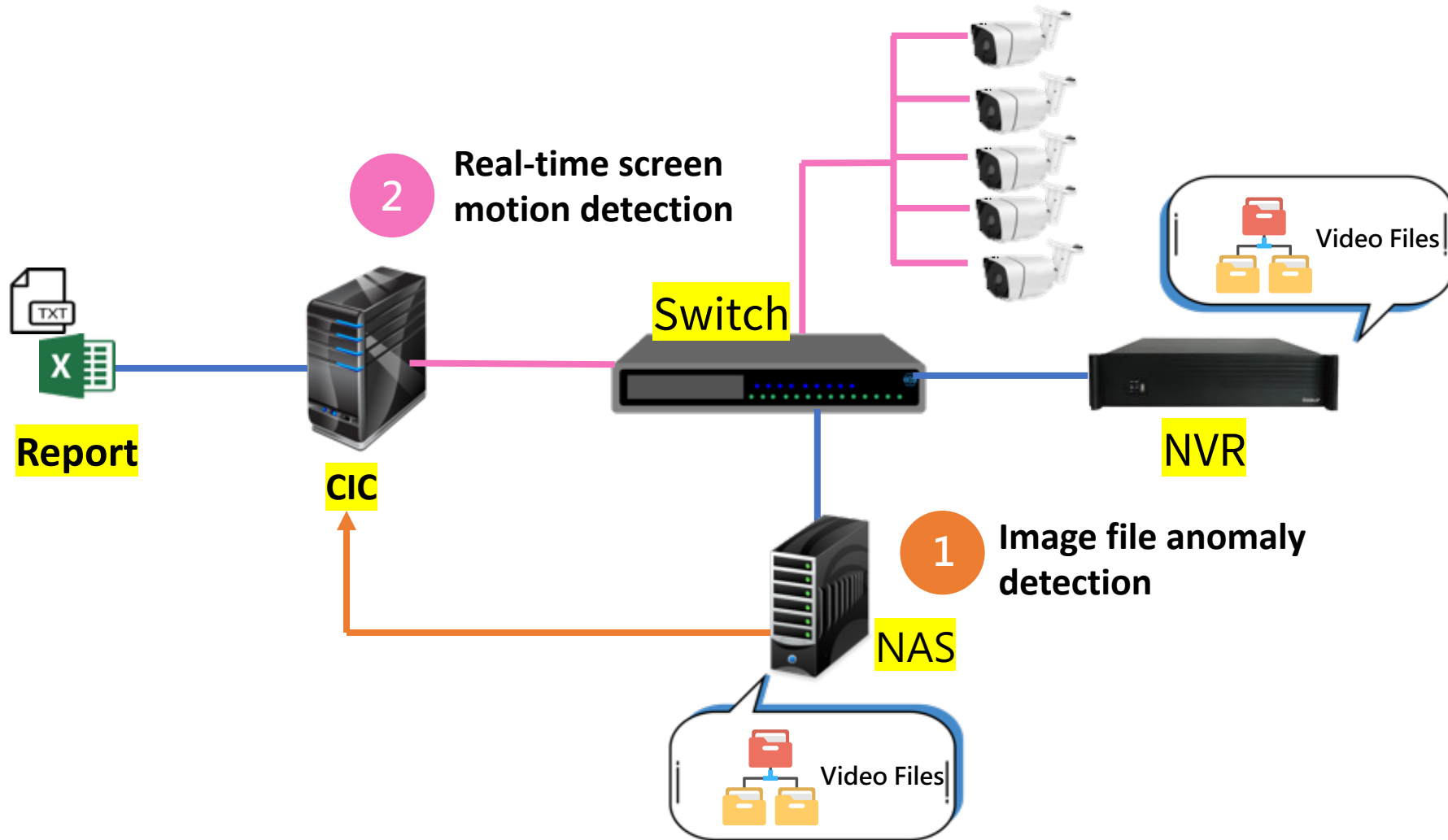
- ✓ Fit all the camera brands
- ✓ Lower cost reduction
- ✓ Set up the alert system and frequency by demand
- ✓ Import AI algorithm to decrease false alarm
- ✓ Improve resource efficiency
- ✓ Offer report to backtrack record

How We did

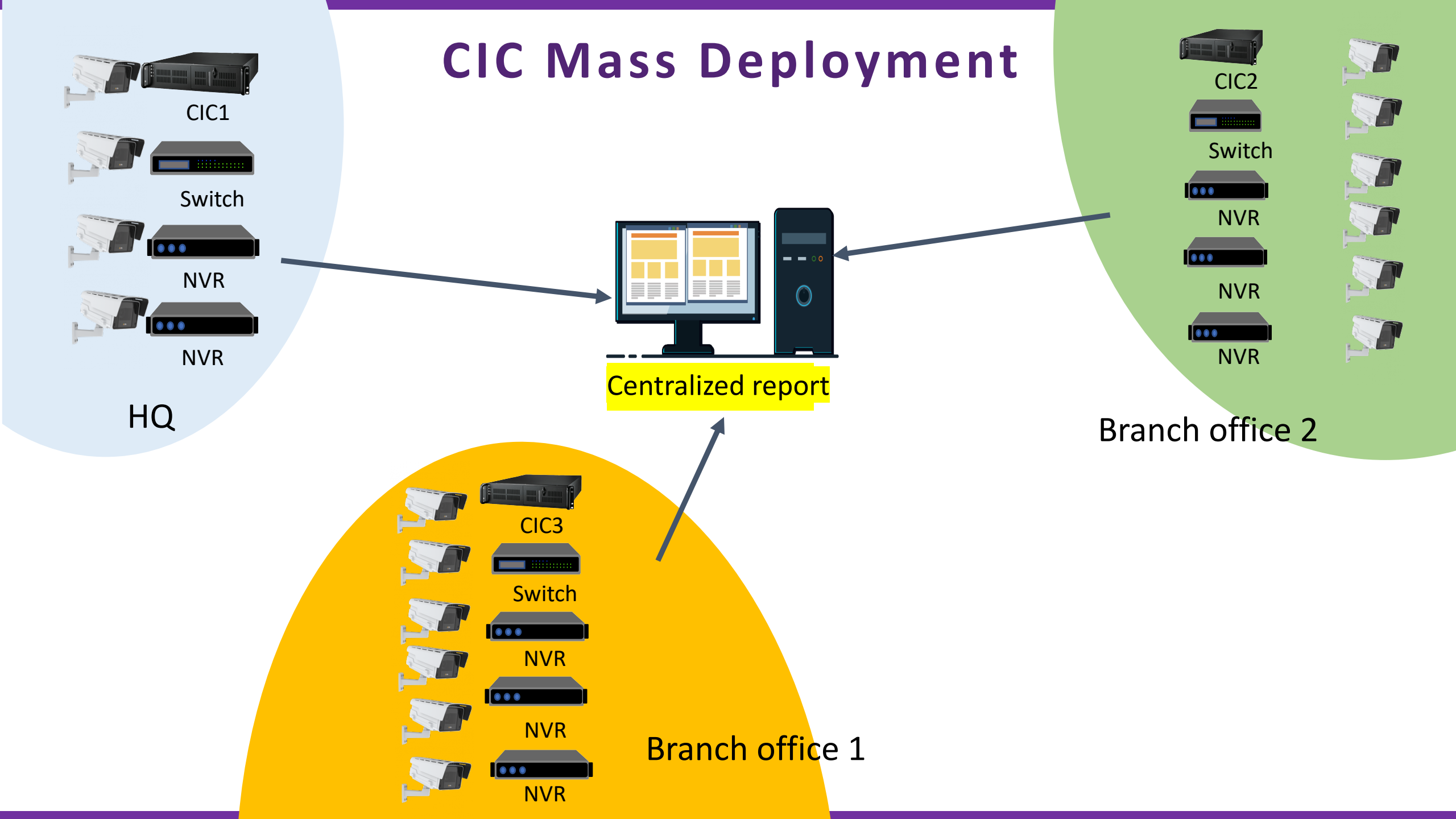
Check Steps:

1. Make sure if cameras connect to the host or storage correctly.
2. Determine by the color distribution & visual noise intensity on the current screen.
3. Based on the screen differences and the clarity, comparing the golden image with the current scene to determine if it is blocked.
4. Based on the screen datum point difference, comparing the golden image with the current scene to determine if the angle is moved.
5. Confirm the file path is valid, and the authority is accurate.

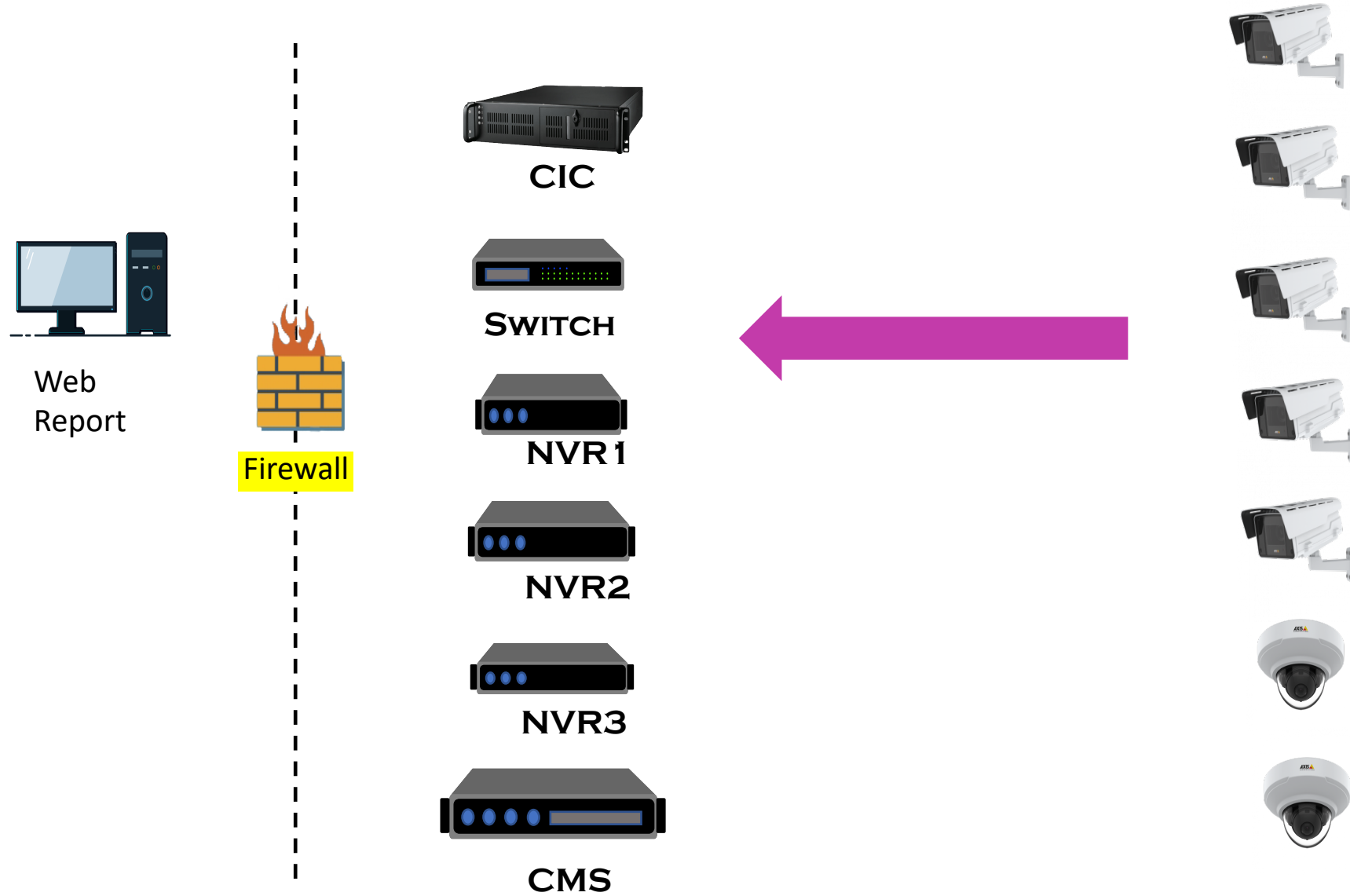
CIC System Structure



CIC Mass Deployment



Information Security



Thank you

