DAHUA Cargo & Logistics
Security and Management Solution

WEU Version 1.0

WEU Product and Solution Department

Zoetermeer, The Netherlands

GUIDE
CONTENT

Logistic Industry in EU

Country	LPI Rank	LPI Score	Customs	Infrastructure	International shipments	Logistics competence	Tracking & tracing	Timeliness
Germany	1	4.19	4.09	4.38	3.83	4.26	4.22	4.40
Netherlands	2	4.07	3.97	4.23	3.76	4.12	4.08	4.30
Sweden	3	4.07	3.95	4.22	3.88	4.04	4.02	4.32
Belgium	4	4.05	3.74	4.03	3.97	4.10	4.11	4.40
Singapore	5	4.05	4.00	4.14	3.72	4.08	4.05	4.34
United Kingdom	6	4.01	3.85	4.09	3.69	4.04	4.10	4.32
Japan	7	3.99	3.91	4.19	3.61	4.03	4.03	4.24
Austria	8	3.99	3.71	4.07	3.78	4.04	4.13	4.22
Hong Kong, China	9	3.96	3.85	4.02	3.85	3.94	3.95	4.18
United States	10	3.92	3.76	4.10	3.54	3.93	4.13	4.14
Denmark	11	3.92	3.88	3.89	3.59	3.98	3.94	4.26
Finland	12	3.92	3.89	3.95	3.56	3.88	4.10	4.17
Switzerland	13	3.91	3.75	4.07	3.57	3.92	4.02	4.20
United Arab Emirates	14	3.89	3.66	3.98	3.76	3.83	3.89	4.23
France	15	3.86	3.63	4.00	3.60	3.82	3.99	4.17

*Data from World Bank

World Bank has recently come out with the **Logistics Performance Index** 2018 (released every two years). **Germany again leads the table as #1 with an LPI score of 4.20.** Followed by **Netherlands,** Sweden, **Belgium,** and Singapore. The LPI scores of high-income countries are 48% higher than in lower-income countries. Logistics is a $4.3 trillion industry globally. It is the backbone of trade, and good logistics can reduce trade cost and make countries compete globally. Getting logistics right means improving infrastructure, skills, customs and regulations, policies and governance at the right proportion.

The functioning of the logistics sector is the key to the functioning of the European economy. According to the 2018 Global Logistics Index published by the World Bank, **eight out of the ten best-performing countries in the logistics sector worldwide are EU countries.**

Germany
Rank #1

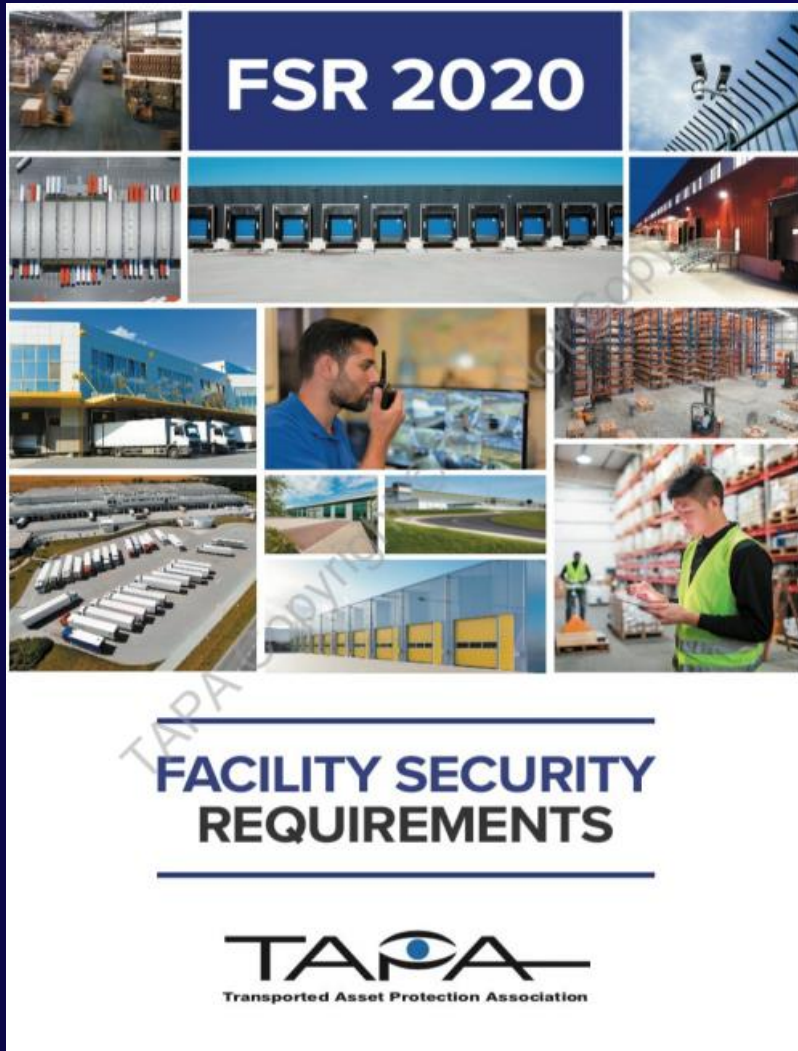Netherlands
Rank #2

Belgium
Rank #4

Austria
Rank #8

France
Rank #15

TAPA FSR _ LEVEL A Standards

FSR 2020
FACILITY SECURITY REQUIREMENTS
TAPA
Transported Asset Protection Association

Transported Asset Protection Association (TAPA) is an association of security professionals and related business partners from high technology and high value companies. Their objective is to address the emerging security threats common to the high value industry supply chain. It unites global manufacturers, logistics providers, freight carriers, law enforcement agencies, and other stakeholders with the common aim of reducing and preventing losses from international supply chains.

Dahua Logistic park and warehouse solution are designed with full reference to TAPA Level A standards, which will help our customer to get the TAPA certification more easily. Also strengthen the security of logistic park and warehouse.

Perimeter Protection

Access Control

Alarm System

HVC Monitoring
(High Value Cage)

Dock area surveillance

Central Management

SOLUTION OVERVIEW

VIDEO WALL

MATRIX

VMS

STORAGE

AGV Management system

WMS/ Stock management

SECURITY SYSTEM

Security Screening

Panoramic Camera

Fisheye Camera

TioC / Full color Camera

Thermal Camera

ACCESS CONTROL

Controller

PAKING SYSTEM

Video Intercom

ANPR

Outdoor parking space detector

Business Management

CCTV camera

Code reader Parcel Tracking

AGV

AGV

01
LOGISTIC PARK

ANPR   #PERIMETER PROTECTION   #PARCEL TRACKING

02 Perimeter Protection

03 Panoramic Monitoring

05 Dock Management

04 Parking Space Management

01 Entrance & Exit

Entrance and Exit ANPR System

Parking entrance and exit

Video intercom

Central Management

✅ Employee vehicle

✅ Registered trucks

❌ Unregistered
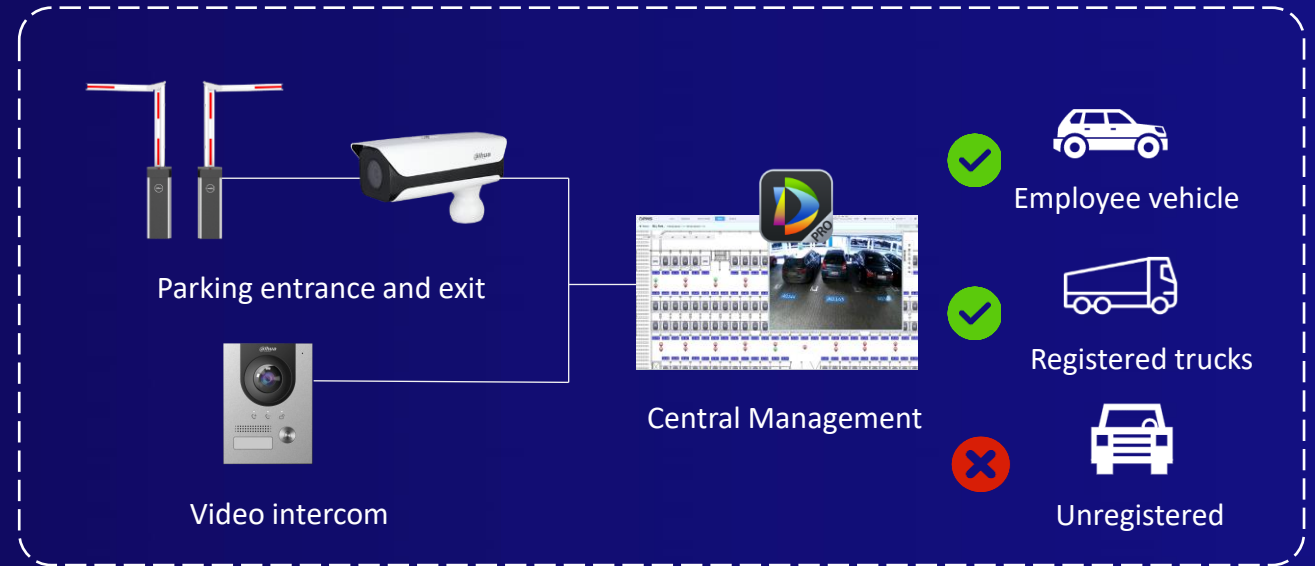
Innovations to Assure High Efficiency of Entrance/Exit Management

With global urbanization and rapid growth of vehicle population, how to manage the security by tight control of Entrance/Exit and at the same time improve running efficiency is one of the topic which concerns every potential Entrance/Exit manager.

Dahua innovative Entrance/Exit solution with embedded ANPR, seamless integration of various technologies like video , VTO and management platform offers you what matters most for Entrance/Exit management

Accurate ANPR algorithm and AI metadata (**Vehicle type /Color / Country recognition.**)

Vehicle access control: white list and block list

Temporary access permit: Visitor and logistic truck

Perimeter Protection
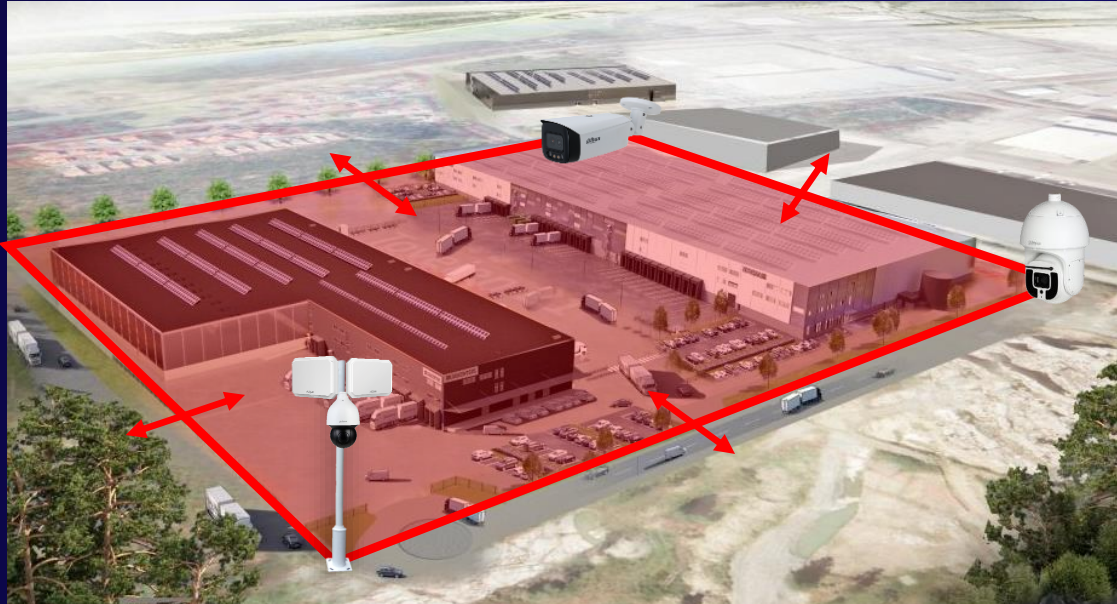
TiOC 2.0

Video Perimeter

Radar Perimeter projection

Central Management

⟳24 24/7 Day and Night / All-weather Monitoring

Wide Range / High Accuracy / Low false alarm

False alarm filtering : banners/ leaves/ Balloons

Loading Dock Panoramic Monitoring

Highlights

Wider field of view compared to standard cameras

Eliminate blind spots

AI applications : Auto tracking, Tripwire, crowd detection, etc.

Safety at the loading dock is an indispensable aspect of loading dock management. That said, loading dock management doesn't end at safety, because without proper security at the loading dock, you're leaving a vulnerability that can potentially disrupt the operations of the entire warehouse.

Full-Color

Loading Dock Management

OCCUPIED

License Plate : K123BC

AVAILABLE

DOCK A : FREE
DOCK B : FREE
DOCK C

DOCK A

DOCK B

DOCK C

Central Management

Radar Perimeter projection

Dock Status Detection : Available / Occupied

Logistic Truck Recognition : License Plate / Parking time

Dock Location Guidance : Show available docks to drivers

*Notice: Part of the function is under developing

Outdoor Parking Space Management

Outdoor parking space detector

Parking space guidance

Parking space management platform

Large Coverage

Single camera up to **50** parking spaces

Low Bandwidth

AI embedded inside camera, no back-end server required

Availability Auto-counting

Use for data analysis

Precise Guidance (Optional)

24*7 Working Design

Température -30°C – 65°C

* Min Environnement light 10lux
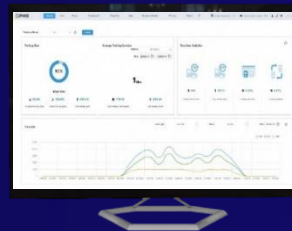
02
WAREHOUSE

THERMAL   #ACCESS CONTROL   #PANORAMIC

Indoor Panoramic

Thermal Fire Prevention

Access Control System

High Value Cage Control
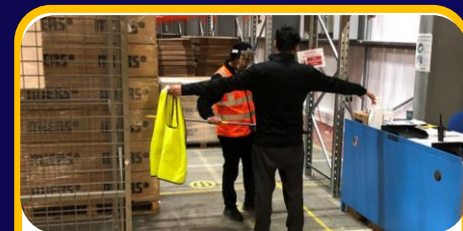
Loss Prevention

Loading Area Monitoring

alhua
TECHNOLOGY

Entrance and Exit Control

Security Camera

Access Control

Access Control

Central Management

🚨 Trespasser alarm

📹 Video Record
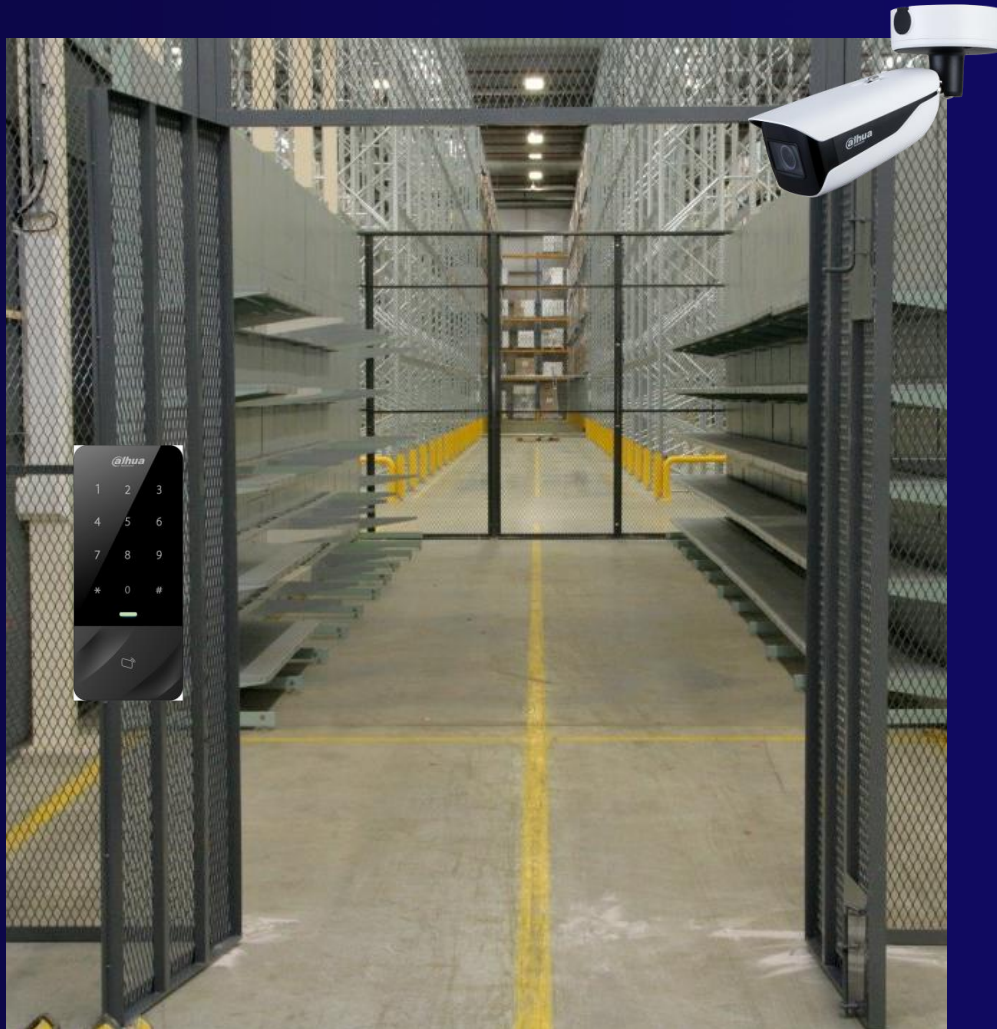
🚪 Remote Unlock

🔁 **Dual Protection :** Access control & Video monitoring

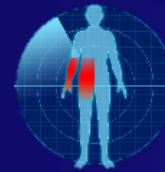**Multiple unlock methods :** card/ Remote/ password/ fingerprint*/ Face* or combination , 90 days access records

Video record: Realtime video record and AI add-ons like unauthorized person alarm, tripwire etc.
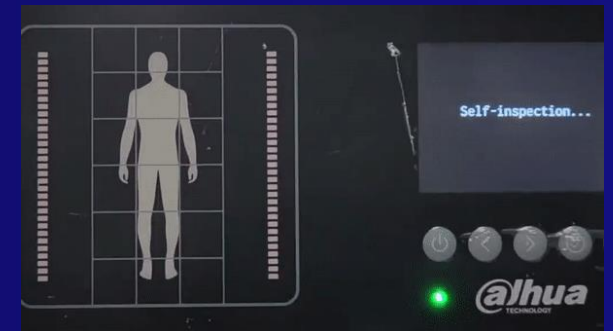
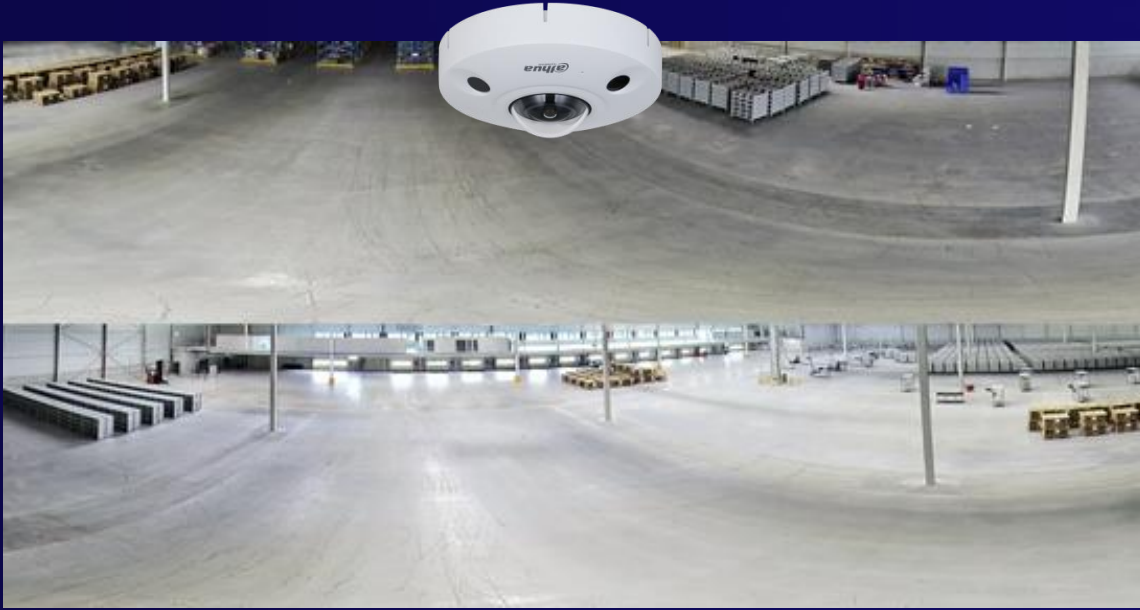* Please follow GDPR restrictions.

Internal Loss Prevention

CCTV System

CCTV System

Central Management
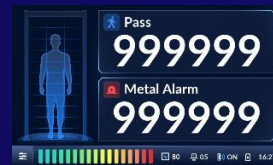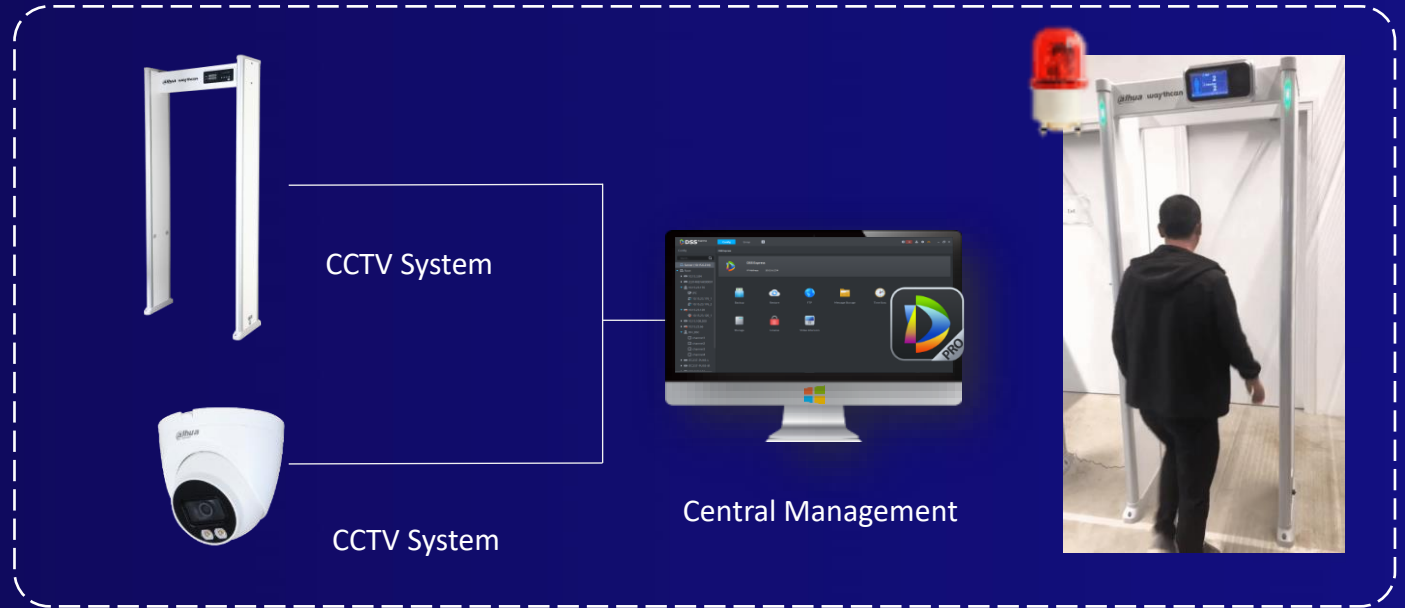
People Counting

Max 18 Zones Alarm

Warehouse Indoor Panoramic

Securing large areas with adequate camera coverage can be challenging, and the use of pan-tilt-zoom (PTZ) cameras often does not suffice in these applications. Panoramic view cameras don't miss anything; a single 180° or 360° panoramic view camera can cover a large area that would require many conventional cameras or multiple PTZ cameras.

HD Fisheye panoramic monitoring wider area

Multiple Display mode : overview or details, your choice

Intelligent add-ons : People counting , Heatmap, etc.

Thermal Fire and Smoke detection

Fire Early Warning

The primary benefit of thermal cameras for fire protection lies in their ability to detect the temperature anomalies that occur just before a fire starts, or if the fire has already started before the smoke can be detected by a conventional smoke detector.

7X24 Detection

Unlike regular video cameras, thermal cameras do not require light to capture an image, making them ideal for use in low-light settings and at night.

Dual Lens (Thermal/Visual)

they can be used for fire detection and prevention, security, and equipment monitoring all at the same time, offering a broader spectrum of protection than standard video cameras can provide.

High Value Cage (HVC) Security

Full-Color

Handling specialty and high value inventory is both complex and high risk. With each unit value at over $100 per pound your supply chain could be storing and protecting millions of dollars in customer assets. The most common types of high value cargo handled by supply chain operations are precious metals, semi-precious stones, electronics, documents and life science/ pharmaceutical inventory.

Access Control

Perimeter Protection

Access Control

Authorized employee only

Unlock through Card/ Remote/ Password/ Fingerprint*/ Face * OR COMBINATIONS
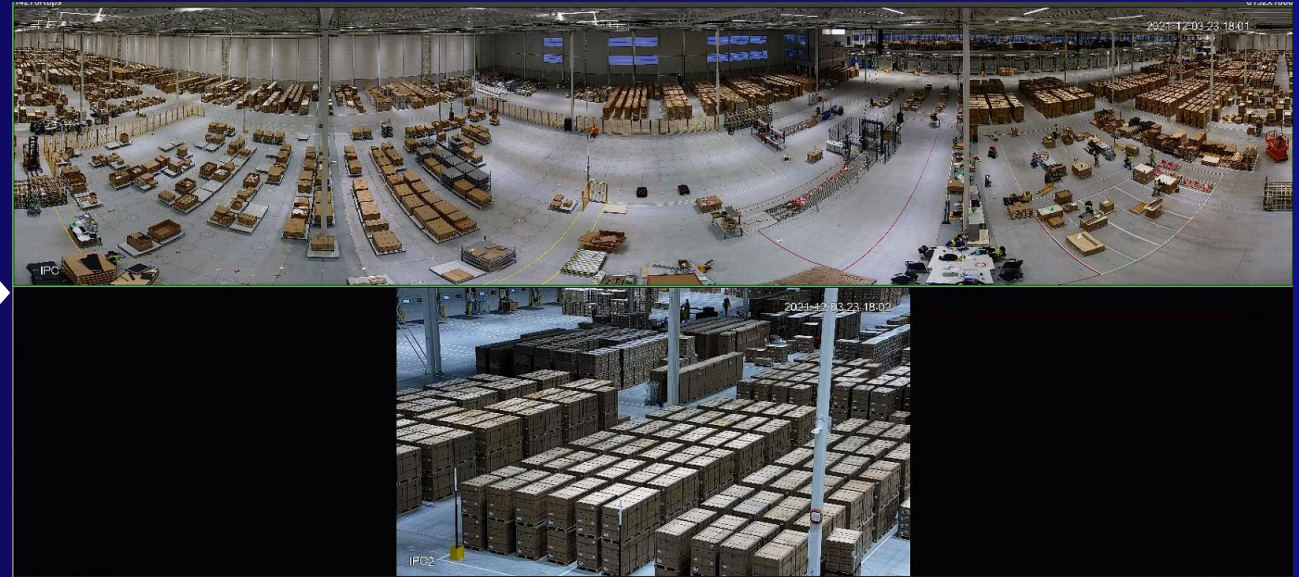
Video Parameter

Video Parameter Detection

Loitering detection

* Please follow GDPR restrictions.

Inventory Area Monitoring

360° Panoramic & PTZ

360° Panoramic view of the warehouse

Intelligent video analysis : tripwire, parameter, etc.

45x optical zoom and auto tracking.

Internal Dock Doors Monitoring

According to TAPA standard, internal dock doors should be covered with CCTV system ,views of freight being loaded/unloaded at all internal dock doors and dock areas should always clear.

👁 One HD camera could cover 1~2 dock doors without any blind area.

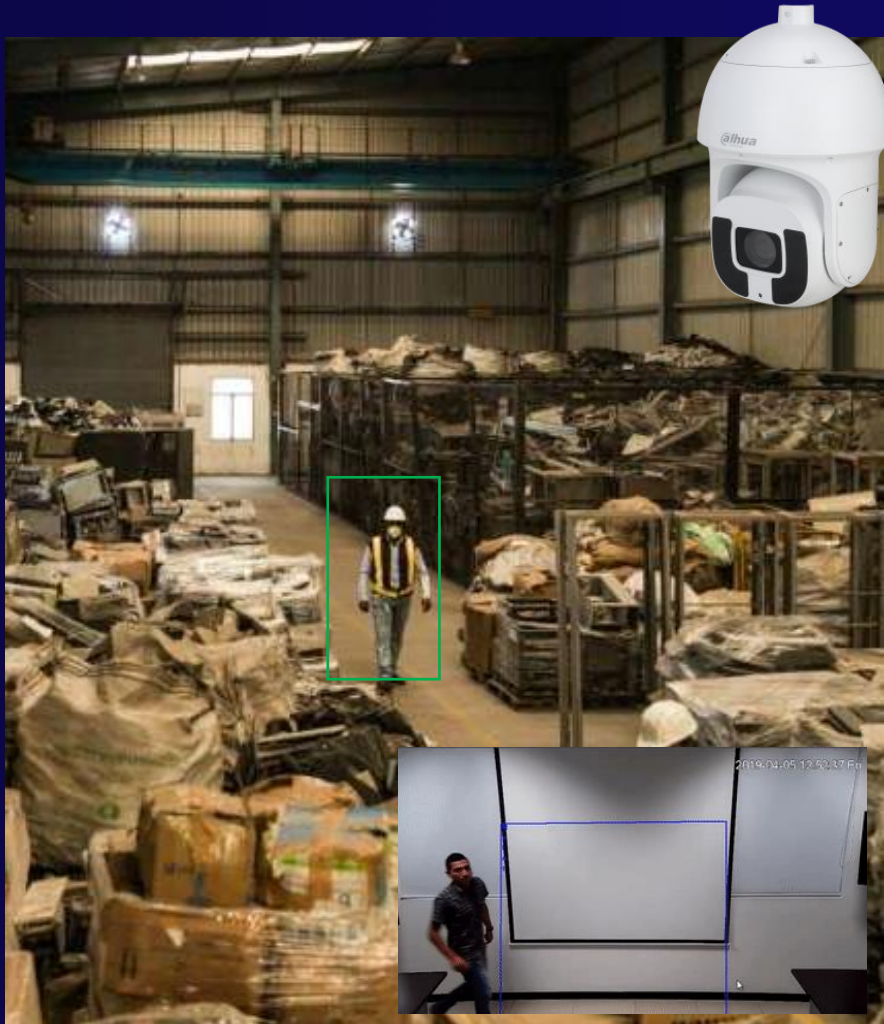**WDR** Ture WDR technology up to 120dB could provide clear image at daytime.

Full-Color Full Color technology provide color image even in the darkness.

Warehouse Trash Inspection

One of the ways a thief will remove products from the warehouse is to put the product in the trash and recover the stolen property later after the building is closed. This is the main reason for the CCTV coverage on the internal and external main trash collecting bins. TAPA has recognized trash security as being a risk to logistic service providers such as warehouses and transportation companies.

7x24H day and night monitoring : No matter in the daytime or in the darkness evening, Full Color / starlight technology could provide HD video for trash inspections.

Loitering detection : Suspects usually loitering around the trash bins for an opportunity .once the loitering incident detected, an alarm will send to control center.

Auto Tracking : Anyone enter the trash bin area will be tracked and recorded by the camera until he/she left the area.
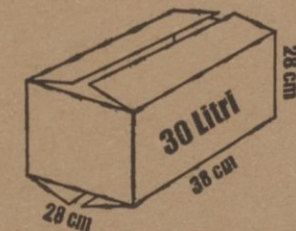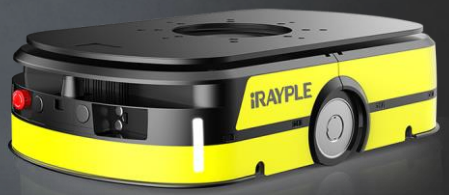
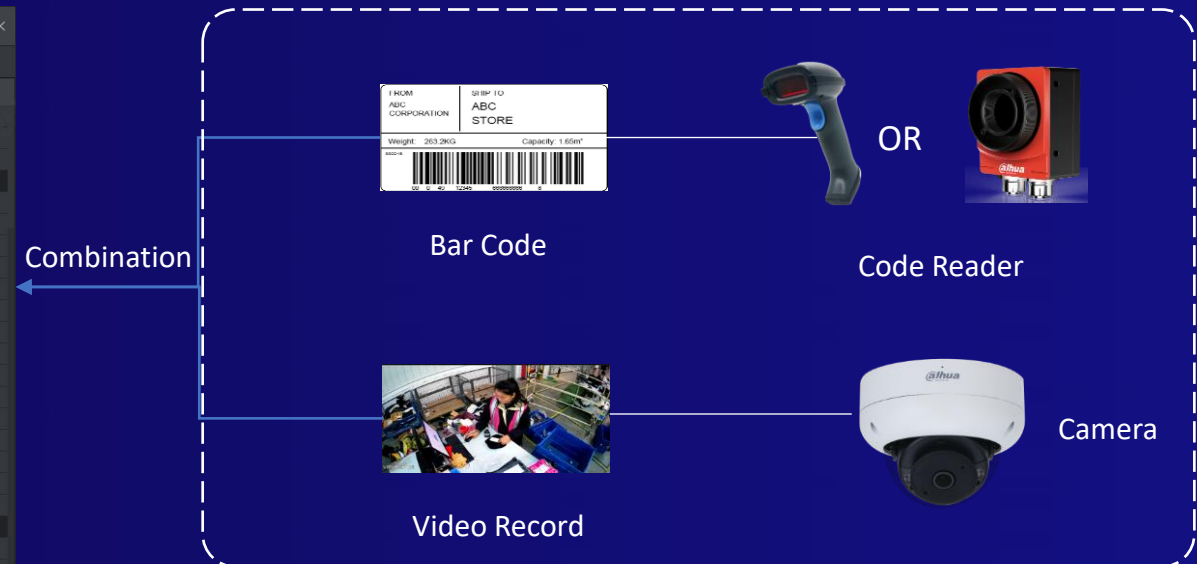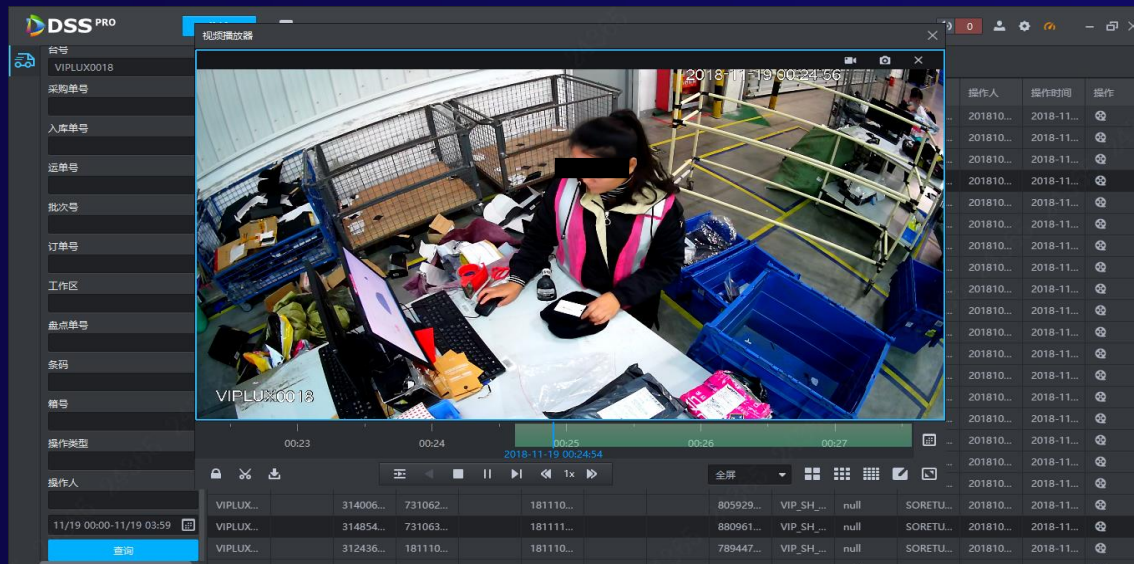# 03
How Dahua help to improve your business?

MACHINE VISION #AGV #PARCEL TRACKING

iRAYPLE

Video Parcel Tracking System – One barcode, Multi video

Combination

Bar Code

OR

Code Reader

Video Record

Camera

High Flexibility
Compatible with third part business platform and video platform
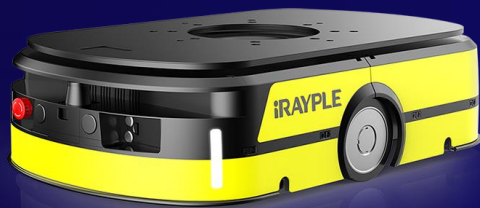
Industrial Code-Reading Camera and Lens
Clear image, high speed, support 1D &2D codes, high recognition rate

Visualization Tracing
View the target video based on the code information

Packaging ↔ Sorting ↔ Loading

AGV System _ Latent Lifting AMR

iRAYPLE

AGV Management System

Stock / Location Management System

8 / H
Working time

1.5 H
Fast Charging

10 mm
Accurate Navigation

Maximum Load Capacity : 600 KG to 1000kg

Shock mitigation system

Multiple carrier adaptability

Dual laser 360° detection

Pallet Forklift Code-Reading Solution

iRAYPLE

Intel Dimension Camera

Code Rader

Distance Sensor

Barcode

Dimensions

Weight

Packaging status

Labor Saving: The operation is carried out on a single pallet, with high accuracy and avoiding a large amount of secondary workload.

Avoid profits loss: The solution is connected with parcel volume and weight measurement. Avoid loss of profits due to end user's misrepresentation of package volume and weight.

Traceable: each time the goods are forked, the pictures of the goods packaging can be taken, which is convenient for further tracing.

UVSS System

iRAYPLE
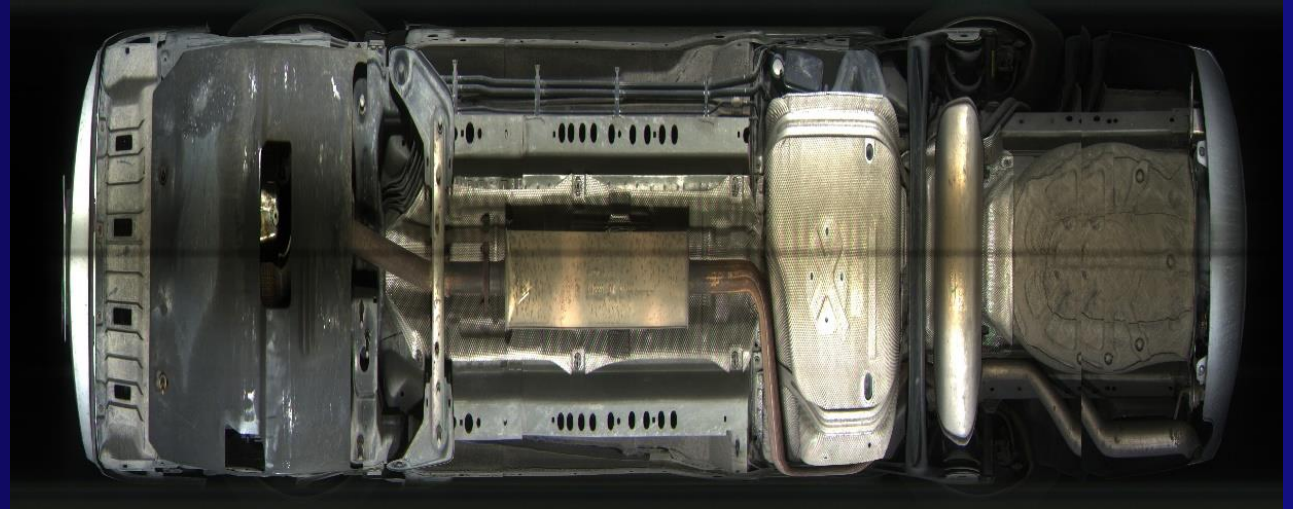
● High resolution line scan camera captures details with 180°field of view, engages the users with a sharp and clear color image.

● High frame(max 26KHz) support high Vehicle Speed to 80km/h without the disruption of traffic flow.
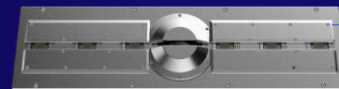
UVSS scan module

ANPR CAMERA

04
Central Management

VIDEO MANAGEMENT SOFTWARE   #ALARMS MANAGEMENT

Video management system – Dahua DSS PRO

DSS Pro is a Comprehensive and Expandable VMS. Beside its basic CCTV functions, it also supports GIS map, system maintenance, ANPR, People Counting and etc. You also can extend functions, Traffic, Business Intelligence, Mobile via add-on modules.

✓ Advanced VMS: supports special functions, like auto-register, thumbnail search.

✓ Add-on modules promote the software value.

✓ Openness can satisfy the project integration.

✓ Supports distributed system and cascading, it's more suitable for medium and large projects.
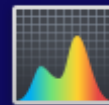
Live View   Playback   Event   Video Wall

Map   ANPR   Face Recognition   Thermal

DSS Mobile Client
Watch video, handle alarm
Anytime,
Anywhere

Video management system – Dahua Video Wall

In security center applications, Dahua provides the Video Management Platform (VMP), decoders, splicing controllers, and network keyboards.

Ultra-narrow BtB width	0.88, 1.7/1.8, 3.5 mm
High Definition	4K, 1080P
Multiple input interfaces	24h/7 reliable operation
Industrial grade panel	HDMI/VGA/DVI/DP/CVBS/USB
Multiple installation modes	Floor-standing, wall-mounted, front-maintenance

Matrix

LCD wall

04
KEY PRODUCT

Key Products

ITC437-PW6M

Access ANPR Camera

SD5A Series PTZ

WizSense Network PTZ Camera

H-IPC-PFW5849P-A180-E2

4K Full-color 180˚ Splicing Camera

PSDW81642ML-A360

Panoramic camera

IPC-HFW5849T1-ASE-LED

4K Full-color Fixed-focal

IPC-EBW81242-AS-S2

12MP IR Fisheye

TPC-BF2241

Thermal Hybrid Bullet Camera

IPC-HDBW5449R-ASE

full-color Fixed-focal Dome

Key Products

ASC2208C-S

Access Controller

ASI1201E

Water-proof RFID Standalone

ISC-D7 SERIES

Walk-through Metal Detector

ISC-H001

Hand Held Metal Detector

NVR5XXX-I/L

WizMind Network Video Recorder

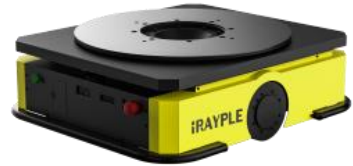**Vto2 SERIES**

Video Intercom

LM32

Monitor

DSS PRO

VMS

Key Products

iRAYPLE

R7000 series

High speed code reader

C100-Q

Latent Lifting AMR

F150

Forklift AMR

5000 Series

Line scan camera

05
PROJECT CASE

Parcel Tracking Project _ GLS Netherlands

GLS is the one of the largest ground-based parcel delivery service providers in Europe. Processes and supply chains are prone to error. Irregularities, broken goods and loading errors are some of the common issues that occur daily. them want to find smart solution to care this.

Solution highlights:

- Keep the entire supply chain and other processes in view.
- Record the status of goods at every point in time and down to the last detail.
- Parcel tracking (Machine vision code scanner).

Benefits:

- ✓ Process visualization provides you with the full picture.
- ✓ Each shipment is recorded at each point, with no gaps, and documented in video images without any additional work.
- ✓ Process visualization links video images with scanned codes. Thus, the state of each shipment can be found within seconds.
- ✓ Potential thieves are now aware of our high level of security and are heavily discouraged from committing crimes

Logistic Park and Warehouse Project _ JD Logistics

unloading Dock panoramic monitoring

Warehouse panoramic monitoring

Distribute center monitoring

warehouse monitoring & Fire proetection

JD Logistics company lately launched their first logistics park in Venray, Netherlands. The warehouse spreads out over a total area of 12000m2, complying with C3 warehouse standard. Dahua, as the total physical security system provide, delivers whole intelligent logistic security solution for this logistics park, including CCTV, access control, transmission network, management platform.

Solution highlights:

● Thermal camera to overheating detection;

● Access control associated to video surveillance camera;

● Perimeter defense based on thermal technique;

● HD Video monitoring covers all important spot inside the warehouse;

● All-in-one management platform for all security devices operation, administration and maintenance.
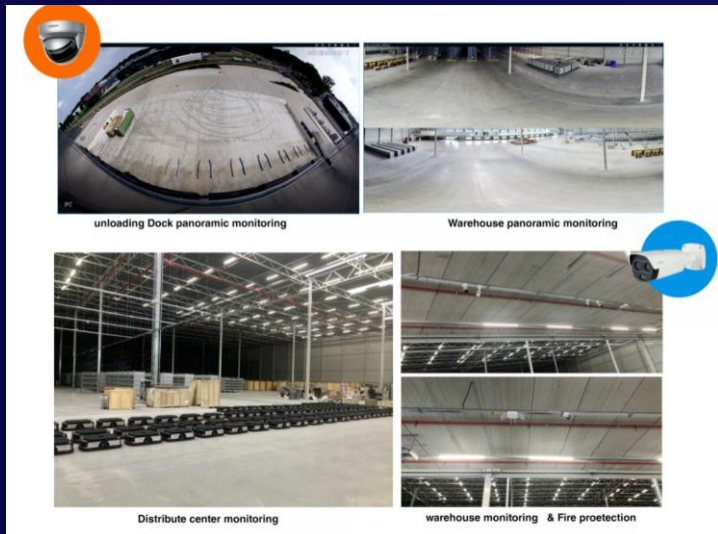
Benefits:

✓ Reliable fire precaution and prevention;

✓ Insight of all suspicious intrusion attempt;

✓ All-environment proof perimeter protection;

✓ Enabling AI-enhanced detection in case of any suspicious motion all the time;

Ingram-Micro Parcel Tracking Project

There is always dispute exists such like commodity missing or damaged when the parcel is delivered to customer. Ingram Micro want to record the commodity in parcel which is passing a fixed point on conveyer belt before delivering to the customer. Once dispute happens, they will generate a box contents statement which contains the snapshot of the commodity for the customer, to prove the parcel is intact before delivered to the customer.

Solution highlights:

- Machine vision camera to scan the barcode.
- 2MP dome camera to record the parcel content.
- DSS to combine barcode/PI number/parcel number/time with video footage and it's able to output package info including a snapshot of parcel content with PDF format.

Benefits:

- ✓ 100% scanning rate and 100% recognition rate.
- ✓ Record the parcel content clearly
- ✓ Thanks to the high performance of hardware and advanced algorithm, the barcode can be recognized with 100% of accuracy.
- ✓ The Ingram Micro LOGISTICS is satisfied with the performance that combines Barcode/PI number/parcel number/time/and parcel content snapshot.

ENABLING A SAFER SOCIETY AND SMARTER LIVING

WEU Product and Solution Department

Zoetermeer , The Netherlands

Weu.productandsolution@dahuatech.com

www.dahuasecurity.com