LOGISTICS SOLUTION

Secure the flow of goods, and optimize the operation processes

- Security Management

- Operation Management

- IT Management

LOGISTICS SOLUTION

RICOH
imagine. change.

INTRODUCTION

Protecting the goods from damage and loss, and delivering them within the estimated arrival time are the most critical missions that logistics companies have to accomplish. However, the logistics business deals with thousands of goods and people, therefore involving complex operation processes that cannot be efficiently done only by human efforts. Our video based system is just what you need to substantially optimize your logistics business. By investing on this solution, you will be able to enjoy the benefits of more efficient operations and better security management at the same time.

CONTENTS

SECURITY MANAGEMENT
Protect goods, and record evidence for incidents and arguments

Burglary Detection

If someone is lingering around and trying to break into the warehouse to steal, the video surveillance system can detect the intrusion and alert the manager to stop burglary from happening.

Unauthorized Access Prevention by Access Control Integration

Identity Fraud

Without surveillance videos, it is hard to be sure if the identity shown in the entry log matches the accessing person. Access control integrated with the surveillance system can remarkably prevent the crises and loss resulted from identity fraud by providing video proof and entry log at the same time for verification.

Tailing

When someone is entering the warehouse, the access control system will record only this entry, without noticing the people who tail behind and access without any access card. To avoid the danger generated from this situation, the surveillance system can detect it and alert the control center.

Driver's Accountability

The driver will be monitored remotely, reinforcing driver's accountability for his driving and road conduct. Also, the recorded videos can corroborate events upon claims such as poor driver's behaviors or car collisions.

Incident Notification and Verification

The driver can alert the control center upon incidents via the alarm button, which can be connected to the surveillance system. The control center can also verify the incidents from the video and take the right actions.

OPERATION MANAGEMENT
Improve operation efficiency with Ricoh's video intelligence and fleet management system

GPS and E-Map Integration

The control center will be able to know each vehicle's correct and real-time location through e-Map, saving time by eliminating calls to the driver enquiring about his actual location.

Goods Delivery

The transported goods can be protected from robberies or thefts during the delivery. Our video intelligence system helps to detect the opening of the truck's back door at unauthorized times, and ensure the unloading of goods at the right destination.

Warehouse Traffic Optimization

Identify traffic congestion in aisles through heat map to relocate some of the hot-selling products to areas with less traffic to increase efficiency at next picking. By spreading the heat from one location to another, the traffic can be balanced.

Stock and Shipment Control

The surveillance system can help you count the goods as they are removed from the aisles and packed to be delivered on conveyor belts. Match this real time information with the information logged by your employees. If any mismatch, abnormalities can be solved through video evidence.

Graphic Report

All the statistics the system has collected can be exported as clear and comprehensive graphic reports, helping you manage numbers and key information in a more efficient way.

IT MANAGEMENT
Get smooth and reliable live view and centralize the storage of recorded videos

Efficient Live Monitoring

The NVR will record the videos under high video quality; meanwhile it can also provide smooth and reliable live view under lower quality with smaller data size through 3G/4G signal.
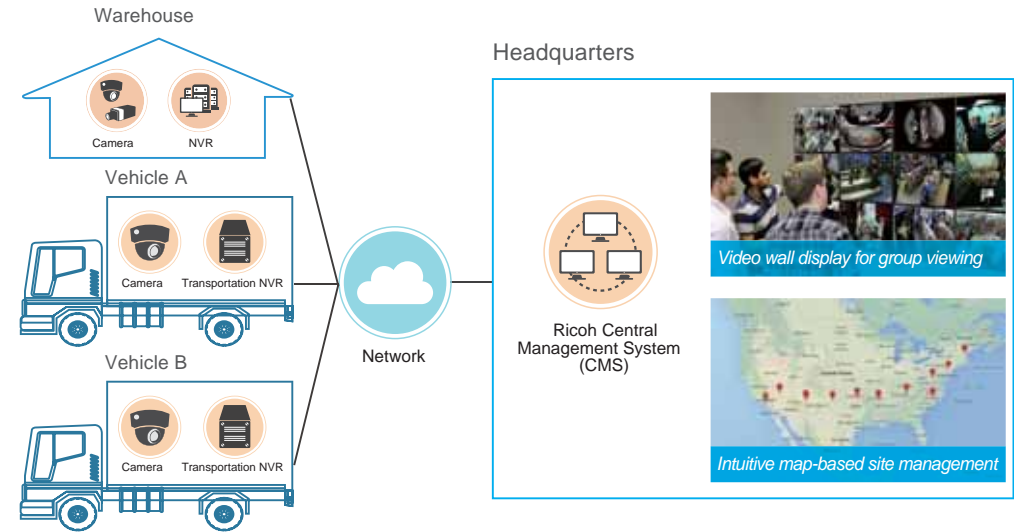
Automatic Video Offload

When the vehicle approaches the station, the recorded videos stored in the NVR will be automatically offloaded to the data center under high video quality settings through Wi-Fi, saving human effort on transferring the recordings to the data center.
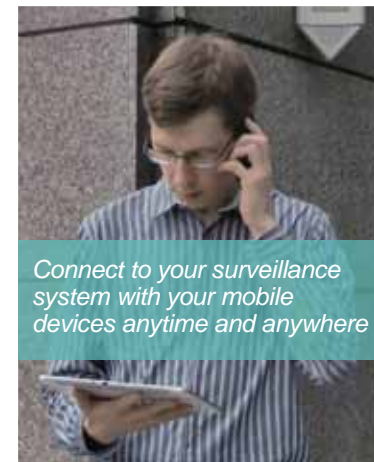
Live view streaming via 3G/4G signal

Automatic video offload via Wi-Fi

Company Wi-Fi Coverage

MAP-BASED CENTRAL MANAGEMENT
Conveniently manage the warehouse and all the vehicles in a control center

Warehouse

Headquarters

Camera   NVR

Vehicle A

Camera   Transportation NVR

Vehicle B

Camera   Transportation NVR

Network

Ricoh Central Management System (CMS)

Video wall display for group viewing

Intuitive map-based site management

REMOTE MONITORING FROM MOBILE DEVICE
Conveniently manage the warehouse and all the vehicles in a control center

See Live View

Watch Playback

Control PTZ Cam

Take Snapshots

Connect to your surveillance system with your mobile devices anytime and anywhere

RICOH UNIFIED SOLUTION
Cameras • NVRs • IVS • CMS • Client Applications

Cameras

- Up to 10 megapixel resolution
- Various camera types for different applications
- Super wide angle lens or fisheye lens
- Local storage for recording back-up
- Clear videos with details in any lighting condition
- Surveillance both in daytime and nighttime
- Weatherproof, vandal proof and vibration proof

Intelligent Video Surveillance (IVS)

- Smart algorithms to detect and identify various scenarios
- Heat map to identify traffic congestion in the warehouse
- Precise analytics and reports for better business management and strategy planning

Network Video Recorders (NVR)

- Standalone and Software NVRs -

- Up to 200 channels of cameras supported
- High definition live view with preferable layouts
- Simple and fast search for recorded videos
- Recording based on custom schedules or events
- Optimal reliability with redundancy system

- Transportation Standalone NVRs -

- Up to 16 channels of cameras supported
- High definition live view with preferable layouts
- Simple and fast search for recorded videos
- Data transmission through 3G/4G and Wi-Fi
- GPS integration
- Ignition control and surge protection
- Vibration proof
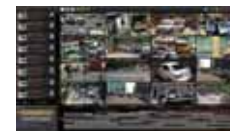
Central Management System (CMS)

- Unlimited cameras and NVRs supported
- Map-based site management
- Single control center to manage and monitor multiple sites
- Video wall display for group viewing

- Mobile Client -

- Both iOS and Android supported
- Live monitoring from everywhere with mobile devices
- Access to multiple devices, including cameras, NVRs and CMS servers
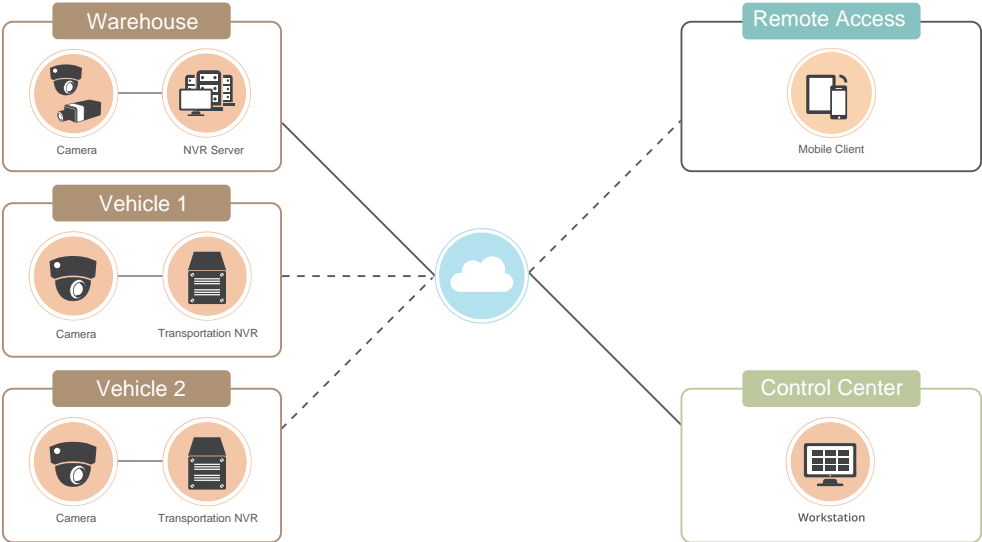- PTZ camera control and snapshot

- Workstation -

- Both Windows and MAC OS systems supported
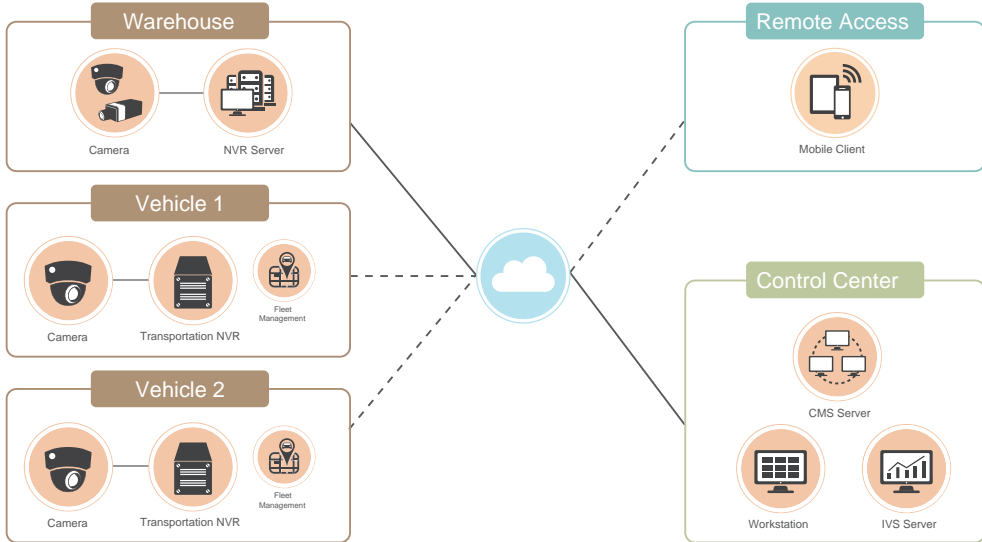- User-friendly interface to configure NVR or CMS servers

SOLUTION ARCHITECTURES

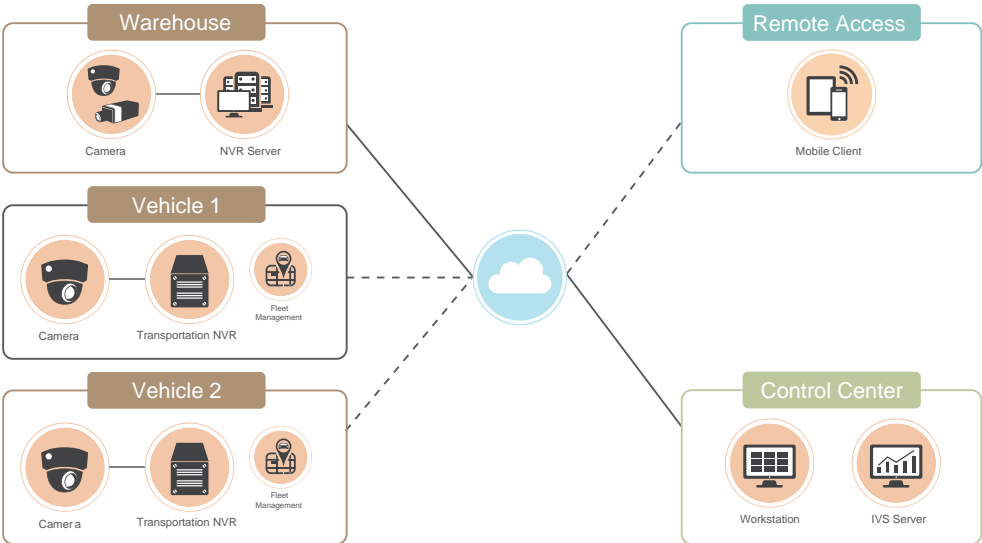Satisfy your surveillance needs with flexible solution architectures

Basic Solution

Warehouse

Camera — NVR Server

Vehicle 1

Camera — Transportation NVR

Vehicle 2

Camera — Transportation NVR

Remote Access

Mobile Client

Control Center

Workstation

Advanced Solution

Warehouse

Camera — NVR Server

Vehicle 1

Camera — Transportation NVR — Fleet Management

Vehicle 2

Camera — Transportation NVR — Fleet Management

Remote Access

Mobile Client

Control Center

Workstation — IVS Server

Complete Solution

Warehouse

Camera — NVR Server

Vehicle 1

Camera — Transportation NVR — Fleet Management

Vehicle 2

Camera — Transportation NVR — Fleet Management

Remote Access

Mobile Client

Control Center

CMS Server

Workstation — IVS Server

RICOH, YOUR BEST PARTNER IN LOGISTICS SECURITY AND MANAGEMENT

As a fast growing solution provider, Ricoh is dedicated to manufacturing state of the art IP video surveillance technology and providing end-to-end turn-key solutions worldwide. To satisfy the security needs for logistics applications and improve overall fleet efficiency and operation management, Ricoh's surveillance system integrates your access control system to enhance the security of the warehouse, and GPS and e-Map to track the real-time location of your vehicles. With video proof, the suspicious activities and incidents inside or outside the vehicle can be immediately verified and handled. Thanks to its intelligent and analytical ability, it can also be a smart detecting system to prevent any potential crises and simplify operation processes.

Secure the flow of goods and optimize the operation management with Ricoh now !

RICOH (MALAYSIA) SDN. BHD. (10078-W)

Lock + Store, Level 1 & 3,
No 5, Jalan Penyair U1/44, Off Jalan Glenmarie,
40150 Shah Alam, Selangor Darul Ehsan.
T 03-5565 3888   F 03-5569 7761 / 03-5569 7760

JB Network Operations Centre .
No 49A, Jalan Harmonium 23/14,
Taman Desa Tebrau, 81100 Johor Bahru,
Johor Darul Takzim.
T 607-3596833   F 607-3596877

Alor Setar	T 04-730 3299	F 04-730 2880
Ipoh	T 05-254 9251	F 05-253 5377
Johor Bahru	T 07-351 8311	F 07-352 3622
Penang	T 04-283 7354	F 04-283 7439
Melaka	T 06-282 7500	F 06-282 8931
Kota Kinabalu	T 088-439 427	F 088-432 845

For more information, please contact :

1300 88 8228

www.ricoh.com.my

RICOH MALAYSIA (Official)

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