

# PARKING LOT SOLUTION

Conveniently manage your parking lot while protecting drivers and their cars

- Security Management
- Operation Management
- IT Management



# PARKING LOT SOLUTION

## INTRODUCTION

Security for parking lots is always a critical issue that the parking lot companies have to face with. Robberies and car thefts could happen in your parking lot, and it will cause negative effects on your business if you are not able to deter these criminal activities. On top of that, people could park cars without paying correctly or even nothing, and it is a difficult job for your employees to manually check each of parked cars. Our video based solution can significantly help you secure your parking lot and substantially optimize your 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.



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# SECURITY MANAGEMENT

Protect people and cars, maintaining a safe environment

## Prevention of Criminal Activities



Robbers can easily hide in the parking lot. You can minimize the chances of robberies by thoroughly monitoring your lot, and record evidences even if robberies do happen to help the customers.



The parking lot is like a gold mine for thieves. Besides cars, they can also steal personal properties in the cars. Give your customers a sense of security when they are away from their cars to win their trust and loyalty.

## Camera Tampering Detection



When camera manipulations happen, such as redirection, defocus, and covering or spray-painting the lens, it may indicate someone is there trying to commit crimes. The surveillance system can detect the tampering, and immediately alert the control center.

# IT MANAGEMENT

Get smooth and reliable live view and store videos for long with minimum cost

## Efficient Live Monitoring and Storage Management



Each parking lot can locally keep videos at best video quality and store them for a short period of time; meanwhile, these videos can be transmitted to the control center under lower quality settings to save on bandwidth and storage. The control center can store the data for long without extra cost.



# OPERATION MANAGEMENT

Improve operations and provide better services with Ricoh's video intelligence

## Correct Parking Payment and Overtime Alert



In the traditional parking lot, the employee must manually verify if each car is paying the right amount of parking fee, which is not efficient and reliable. Our video based system will optimize this process by identifying the license plate and match it with the parking time to calculate the parking fee, and it will send an alert as well to the control center when a car has been parked over the paid time.

## Precise Location of the Parked Car



People often forget where they parked their cars, especially in big parking areas. The surveillance system can read the license plate and identify the location of the parked car, helping the driver to easily find the car through a self-service workstation.

## Obstruction Detection



Cars might be parked in a wrong spot or objects such as supermarket trolleys might be left in the driving lanes or parking space, blocking cars from driving in or out of the parking lot. These obstructions can be detected immediately and cleared in time.

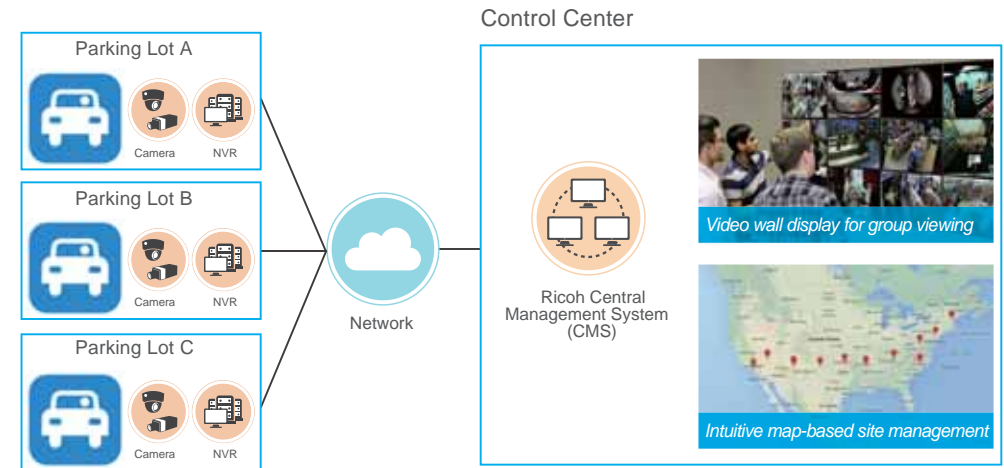
## Verification of Incident Liability



A car in the parking lot could be hit or scratched by the neighboring careless cars, and it is the parking lot's duty to assist customers to find the person who should be responsible for that damage. The camera can pick up the driver's face and license plate as evidence to verify events.

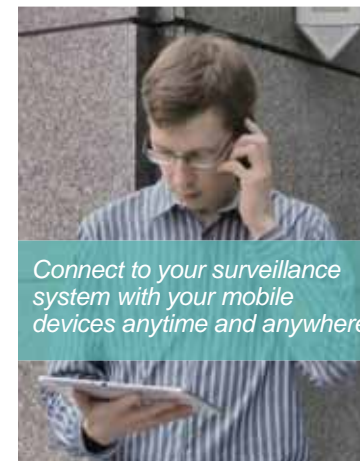
# MAP-BASED CENTRAL MANAGEMENT

Conveniently manage all your parking lots far and wide in a control center



# REMOTEMONITORING FROM MOBILE DEVICE

Get real-time video feeds wherever you are



See Live View



Watch Playback



Control PTZ Cam



Take Snapshots



# RICOH UNIFIED SOLUTION

Cameras • NVRs • IVS • CMS • Client Applications

## Cameras



- Up to 10 megapixel resolution
- Various camera types for different applications
- GPS location setting
- 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

## Network Video Recorders (NVR)



- 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

## Intelligent Video Surveillance (IVS)



- Smart algorithms to detect various scenarios.
- Automatic license plate recognition to simplify operation and improve efficiency.
- Precise analytics and reports for better business management and strategy planning

## 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

## Client Applications

- 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 -

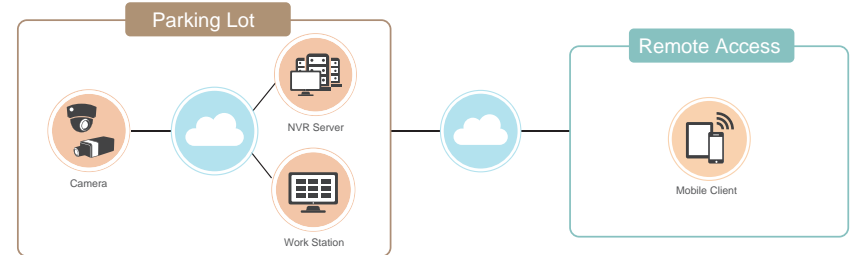


- Both Windows and MAC OS systems supported
- User-friendly interface to configure NVR or CMS servers

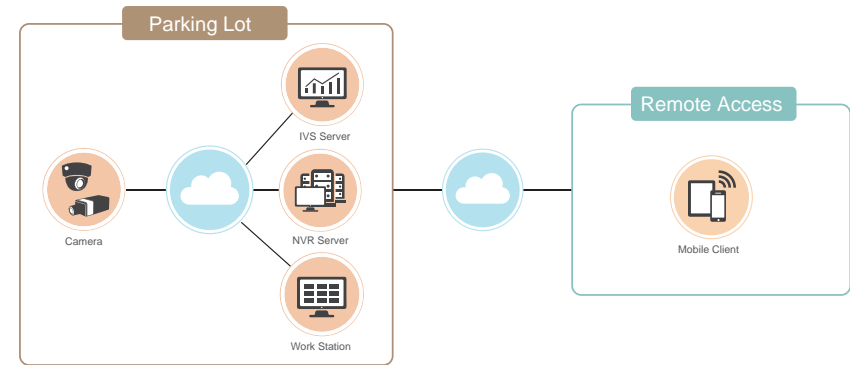
# SOLUTION ARCHITECTURES

Satisfy your surveillance needs with flexible solution architectures

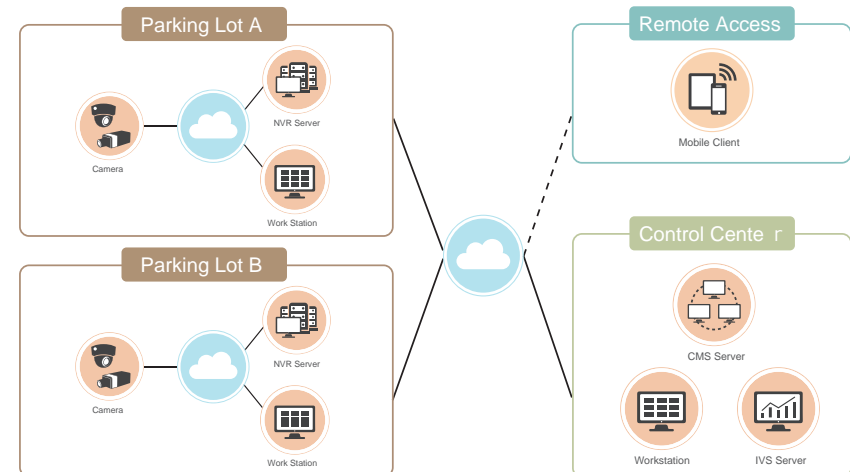
## Basic Solution



## Advanced Solution



## Complete Solution



# RICOH, YOUR BEST PARTNER IN PARKING LOT 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 turnkey solutions worldwide. To satisfy the security needs for parking lot applications and improve the operation management, Ricoh's surveillance system integrates automatic license plate recognition with the parking payment system to minimize the deficiency from human efforts. Besides criminal activities, the incidents that happen in the parking lot can be captured as well to further verify the liabilities. Thanks to its intelligent and analytical ability, it can also be a smart detecting system that can enhance the security level and simplify the operation processes.

Secure your factory and maximize operational efficiency with Ricoh now !

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