Rex watch ®

SHINYTECH Co., Ltd.

Products

1 RexWatch Road License Plate recognition system

A system that provides the query for the possible accidents/incidents and clue of investigation to arrest the criminal by shooting the plate and cargo box of the vehicles with the high resolution cameras that are installed on major location of roads.

2 RexWatch City High resolution surveillance camera system

A system that can obtain, save and transmit the stable images by using the high resolution camera in order to avoid the illegible situation caused by low resolution images.

3 RexWatch Speed Overspeed enforcement system

This system is a monitoring system to control speeding vehicle for 24 hours a day. The speeding cars are to be caught on the unmanned camera and it can read the plate number, capture the image of the vehicle and store in a database. It issues the citation after matching up the plate number with vehicle registration database .

4 RexWatch Parking Parking management system

RexWatch License Plate Recognition parking system provides real-time parking status report, non-stop traffic control, transparent parking fee management and clear proof of any trouble which may arise in the parking place.

5 RexWatch Car Built-in plate recognition system

An automatic plate recognition system which can browse the parking/moving vehicles used for the crimes that are registered in National Police Agency. This device is to be installed inside of police cars.

6 RexWatch PES Parking Enforcement System

By filming illegally-parked vehicles on roadsides & blind spots and efficiently regulating them, this intellectual parking regulation system ensures fluent traffic flow and enforces advance parking order

Greetings

The Shinytech has been offering our customers traffic signal controllers and LED traffic signal equipment of superior quality since 1995. As the leader, the Shinytech provides with best possible solutions to keep traffic moving adaptively and efficiently in urban road ways. It helps road users well-informed, contributes to increasing road safety, and improves mobility, especially for drivers and pedestrians. As a result of massive investments in research and development, the company has been grown very fast and has been providing high quality products.

Since its foundation, the Shinytech has been maintaining its status as a leading provider of innovative and high quality traffic signal controllers and LED traffic signal equipment. Nonetheless, modern road conditions have become more complex than ever before. Every day, traffic conditions get more complicated due to parking, stops and speeding violations. Moreover, we face the challenges of congestion, stopped vehicles, and serious accidents.

In order to make the traffic flowing smoothly in road networks, the Shinytech has been developed traffic monitoring solutions that detect incidents, speeding or illegal vehicles on roadways. RexWatch Speed, RexWatch Parking, RexWatch Car and RexWatch PES can keep roadways safe and running at peak efficiency. Moreover, RexWatch Road and RexWatch City can protect pedestrians and drivers from incidents or accidents. The Shinytech traffic monitoring solutions put our comstmers at the heart of the action and help them keep the traffic flowing smoothly at all times. Please feel free to keep in touch with us and send us your business related requirements or queries.

Products

Rex watch®

Major History

1995 Shinytech co., Ltd. Established
1996 Electrical Construction Business Permit (Class II)
2003 New Plant in Suwon
2004 LED Lights Drive System Patent (Article No. 0440184)
      High Efficiency Certificate for LED Lights
      Venture Company Certificate: Gyeonggi Small and Medium Business Administration
2006 ISO 9001 Certification
      New Headquarter in Suwon
      Passed Traffic Signal Controller Specifications from the National Policy Agency
2008 Patent Registration : Power Supply for LED Traffic Lights
2009 Excellent Product Certification: Public Procurement Service (LED Traffic Lights: Article No. 2009096)
2011 Excellent Product Certification: Small and Medium Business Administration (ST-09ST , ST-09SL , ST-09SM)
2013 High efficiency Certificate(LED Traffic Light: Article No. 2013169)
      Patent Registration : power supply for LED traffic light capable of controlling Luminous-intensity
      in dimming control mode - Green Technology (Patent No: 10-1289438)
      Green Technology Recognition (Article No. GT-13-00133)
      Excellent Product Certification: Small and Medium Business Administration
2014 Excellent Product Certification: Public Procurement Service (Traffic Signal Controller Model, ST-09ST-D, ST-09SL-D, ST-13SL)

Licenses and Records

Excellent Product Certification

The Public Procurement Service certifies Small and Median Enterprise (SME) products of superior technology and of high quality.
Products : 3 traffic signal controllers

Excellent Product Certification

The Public Procurement Service certifies SME products of superior technology and of high quality.
Products : 15 traffic lights

Performance certified products

The Small and Medium Business Administration cirtifies exellent commentcial products according to its patent and utility model.
Products: 4 traffic signal controllers and 6 traffic lights

Green Technology & Products

The Ministry of Trade, Industry and Energy Greenhouse cirtifies products of energy efficiency technology and of eco-friendly technology.
Products: 6 signal controllers and 21 traffice lights

Certificate of Direct Productions

The Federation of Small and Medium Business cirtifies that Shinytech manufactures all the roducts by itself.
Products: Traffic Lights / Traffic Signal Controllers

Utility Model Patent

The Korean Intellectual Property Office cirtifies Traffi Signal Controller (Patent No. 10-1214468) and cirtifies that LED lights are equipped with a brightness control function and with a power supply function (Patent No. 10-1289438)
Products: Traffic Lights / Traffic Signal Controllers

High efficiency Certificate

The Korea Energy Management Corporation (KEMC) certifies products of high efficient energy consumption; and certifiies that Shinytech products passed the official tests offered by KEMC's designated testing agencies such as KATS.
Products: Traffic lights

Performance certified products

- Research and Development Certificate
- Venture Company Certificate
- High Quality Management System Certificate

License Plate recognition system
RexWatch Road

Shinytech co., Ltd.

Technology & Products

A system that provides the query for the possible accidents/incidents and clue of investigation to arrest the criminal by shooting the plate and cargo box of the vehicles with the high resolution cameras that are installed on major location of roads.

System Installation (example)

Sample Image(Day)

Sample Image(Night)

Center Operation Room
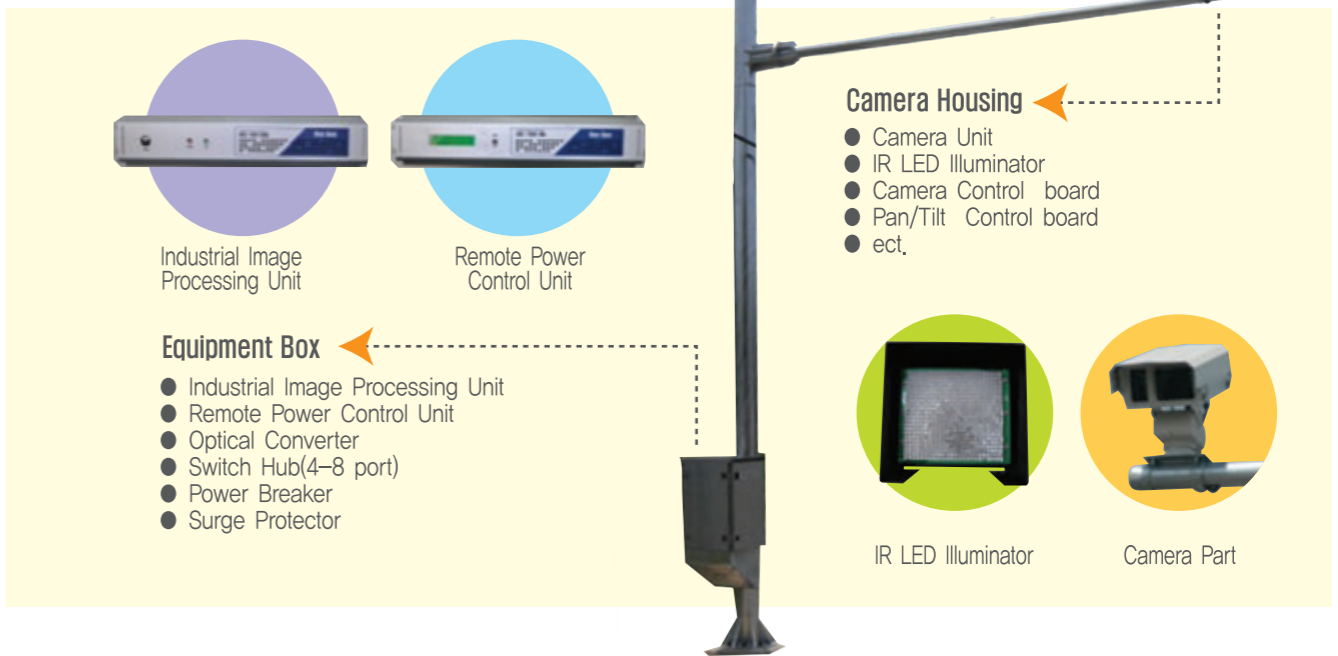
Center operation S/W

Monitoring S/W

Characteristic of system

- Speed check function (able to search by speed)
- Automatic recognition of old and new plate
- Registration/alarm function of wanted or specified vehicles
- Providing the various search condition such as date, time, place and vehicle type.
- Provides the search of wrong way driving vehicles
- Search the cargo of vehicles using 3 frames images
- IR LED light that has over 10 million times life cycle.
- Provides the vehicle image printing preview and various statistics.
- Real time connection with the National Police Agent database.

Device configuration

Industrial Image Processing Unit

Remote Power Control Unit

Camera Housing
- Camera Unit
- IR LED Illuminator
- Camera Control board
- Pan/Tilt Control board
- ect.

Equipment Box
- Industrial Image Processing Unit
- Remote Power Control Unit
- Optical Converter
- Switch Hub(4~8 port)
- Power Breaker
- Surge Protector

IR LED Illuminator

Camera Part

Specification

ITEM	SPEC & FUNDTION
Camera	1/1,8" Progressive Color CCD Camera
Lens	Motorized Zoom Lens, Focal Length 8~80mm (IR Corrected Lens)
Light devise	IR-LED (life cycle more than 10 million times)
Control board (Power)	Power, lighting, fans, heaters, and automatic control and fault-auto-recovery function
Vehicle sensor	loop coil (or image detector)

ITEM	SPEC & FUNDTION
CPU	More than Intel Core 2 Duo
Memory	More than 2GB DDR2
Storage	More than SATA 500G HDD
Video input	Giga Ethernet
HOUSING	Waterproof, dustproof, special paint

RexWatch City

Shinytech co., Ltd.

Technology & Products

This Smart Surveillance System applies major TDR(Trouble Detection Recovery) to detect the malfunctioning of on-site CCTVs and automatically recover them. Especially during network errors, the TDR stores, searches and backs up images in real-time. With an additional image processing algorithm, this high-tech system also recognizes the vehicle plate.

System Installation (example)

On-site system

Pole/housing

Sensor/emergency bell/speaker

Camera

Router/PC

Center system

Control Center
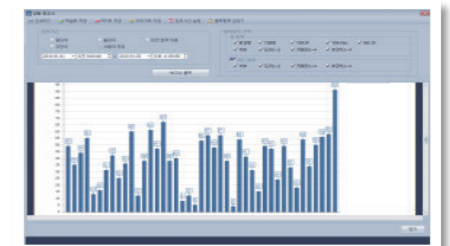
Integrated control

Characteristic of system

Intellectual image monitoring

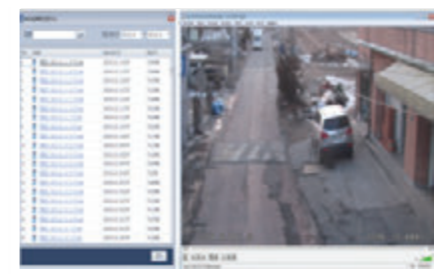Traces the image of major objects such as people, vehicles etc and stores them

Providing and analyzing malfunctioning information

Reports the information on the malfunctioning & recovery of the camera and surrounding devices / Provides statistics function

Swift image back-up

Backs up image in TDR in a downloadable format when the storage of image is impossible due to the malfunctioning of device or error in network
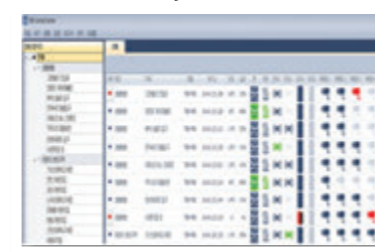
Remote control of the camera and major devices

Reduces costs for maintaining the system by remote controlling the devices installed on the site in real-time

Monitors system condition and conducts auto-recovery

Monitors in real-time the surrounding devices such as the camera, network, emergency bell, housing etc and conducts auto-recovery when there are abnormalities
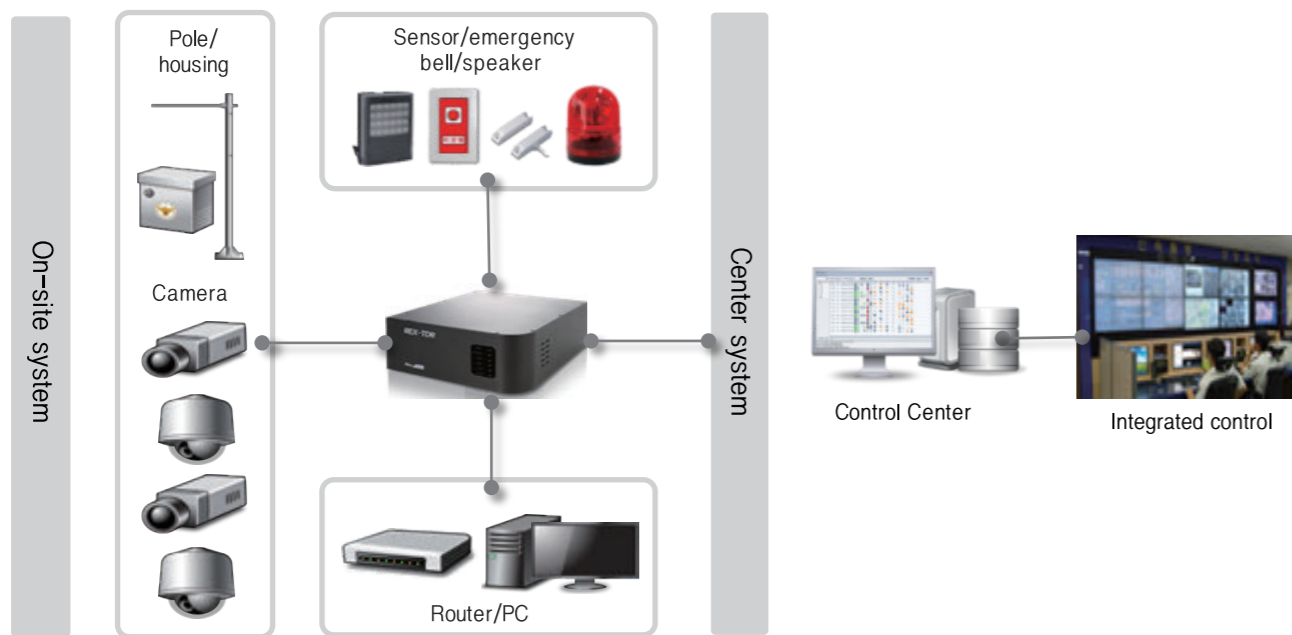
Alternative filming by SPD

When the main camera is malfunctioning, the TDR detects it and the rotational camera films the subject area alternatively

RexWatch Speed

Shinytech co., Ltd.

Technology & Products

This system is a monitoring system to control speeding vehicle for 24 hours a day. The speeding cars are to be caught on the unmanned camera and it can read the plate number, capture the image of the vehicle and store in a database. It issues the citation after matching up the plate number with vehicle registration database.
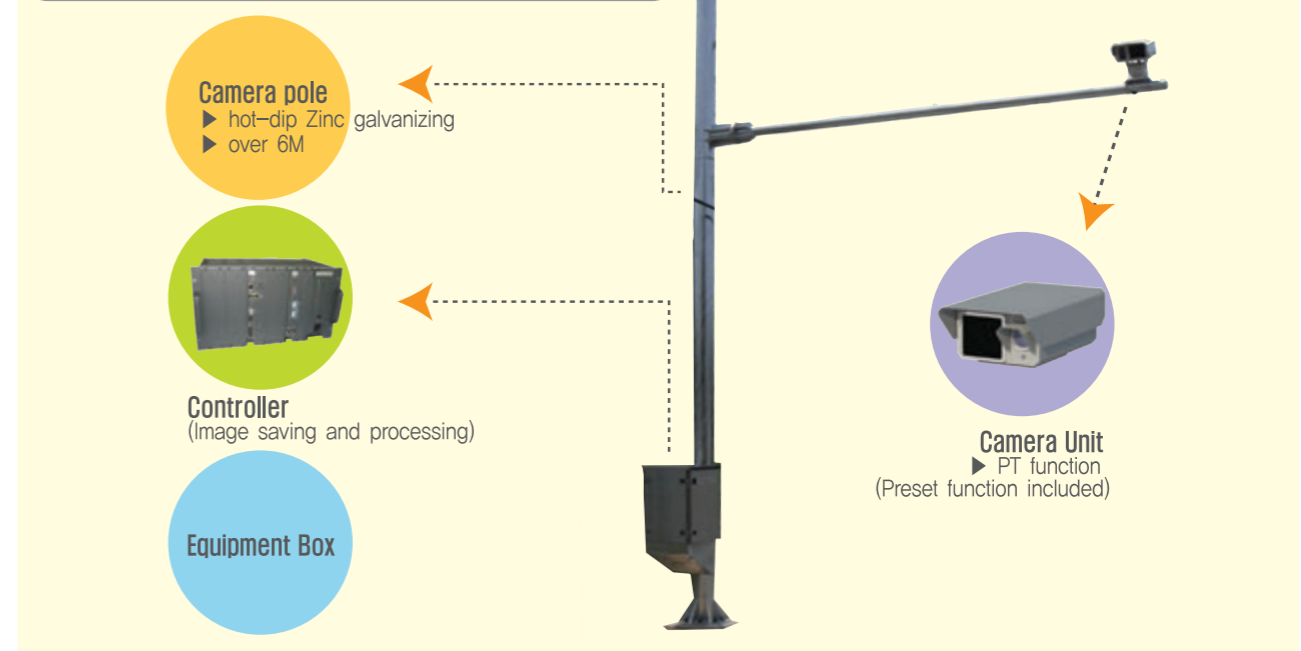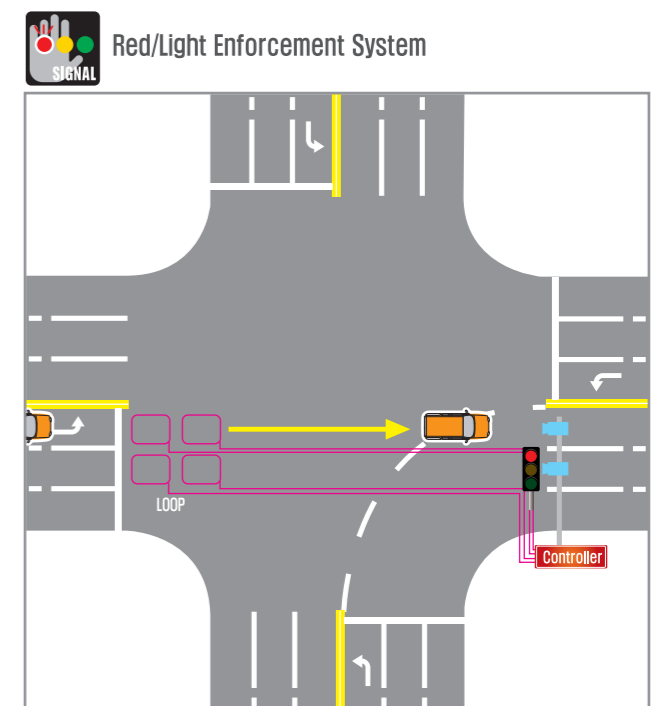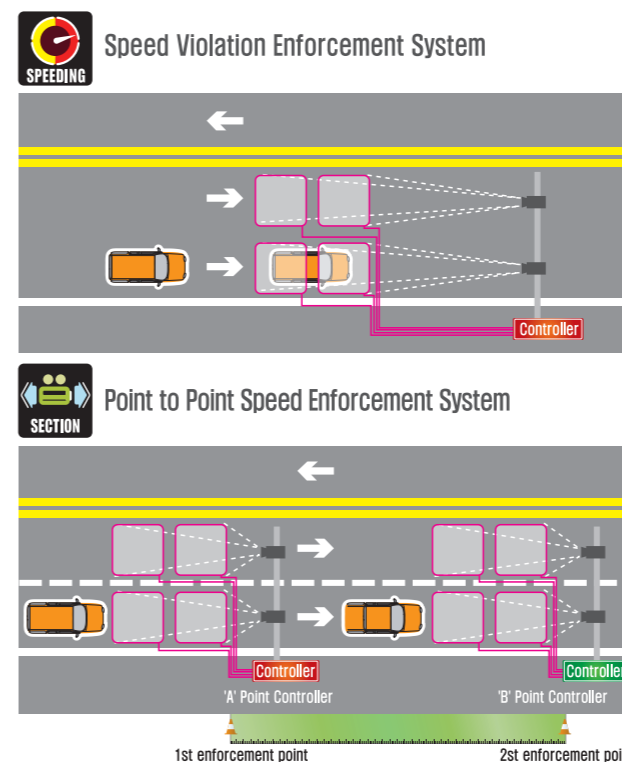
System Installation (example)

Characteristic of system

- Capture the clear image of the driver and the plate number by using high resolution camera
- Classify vehicles between cargo trucks and cars
- Crack down bus only lane & illegal driving on the shoulder
- Options either looping method or non-contact method (laser method)
- Install a separate line for data communication
- High recognition rate (90%~95%)
- Variety sorting criteria such as date, time, location, vehicle type etc
- Life cycle of IR LED light is more than 10mil times

Device configuration

Camera pole
▶ hot-dip Zinc galvanizing
▶ over 6M

Controller
(Image saving and processing)

Equipment Box

Camera Unit
▶ PT function
(Preset function included)

Enforcement System

SPEEDING — Speed Violation Enforcement System

Controller

SECTION — Point to Point Speed Enforcement System

Controller 'A' Point Controller   Controller 'B' Point Controller

1st enforcement point   2st enforcement point

SIGNAL — Red/Light Enforcement System

LOOP

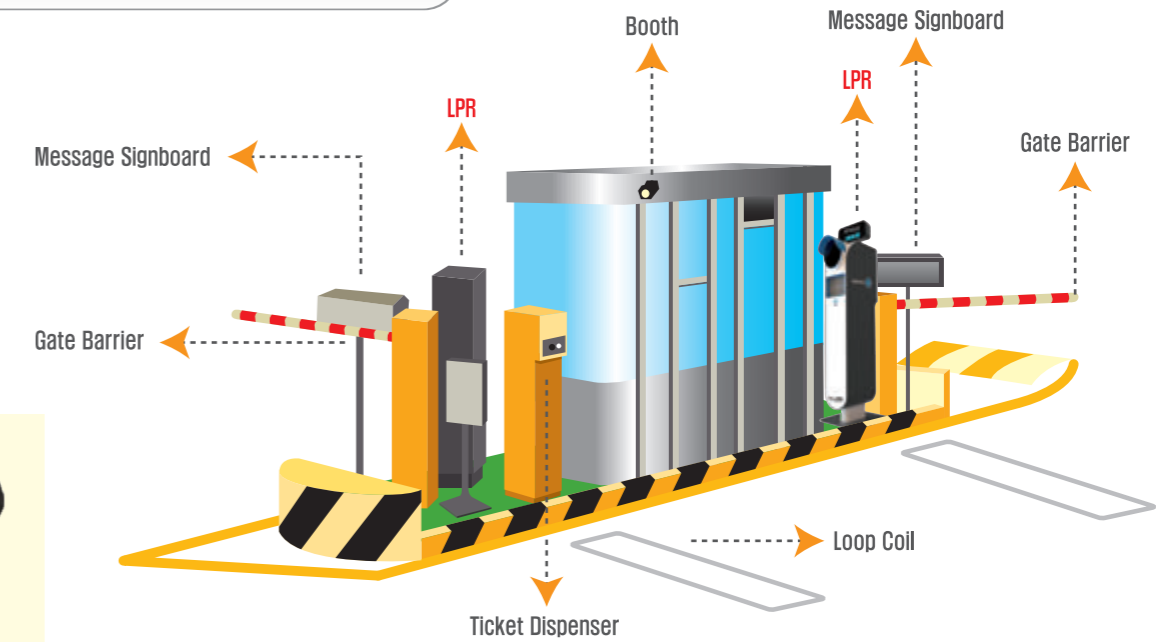Controller

RexWatch Parking

Shinytech co., Ltd.

Technology & Products

RexWatch License Plate Recognition parking system provides real-time parking status report, non-stop traffic control, transparent parking fee management and clear proof of any trouble which may arise in the parking place.

System Installation (example)

FRONT

BACK

- Progressive Scan Digital Camera
- IR LED
- HOUSING : Waterproof, dustproof, special paint

Device configuration

Booth

Message Signboard

LPR

LPR

Message Signboard

Gate Barrier

Gate Barrier

Loop Coil

Ticket Dispenser

Booth s/w program

Center s/w program

Characteristic of system

- High recognition rate up to 99%
- Intelligent Power Control – Automatic Power Reset / power can be controlled remotely
- High efficient parking management system thru automatic recognizing plate number and linking to the data base /Security functions
- Provide customized statistics by using various criteria of vehicle searching function
- Elegant design (to improve the image of doors – brand value rise)
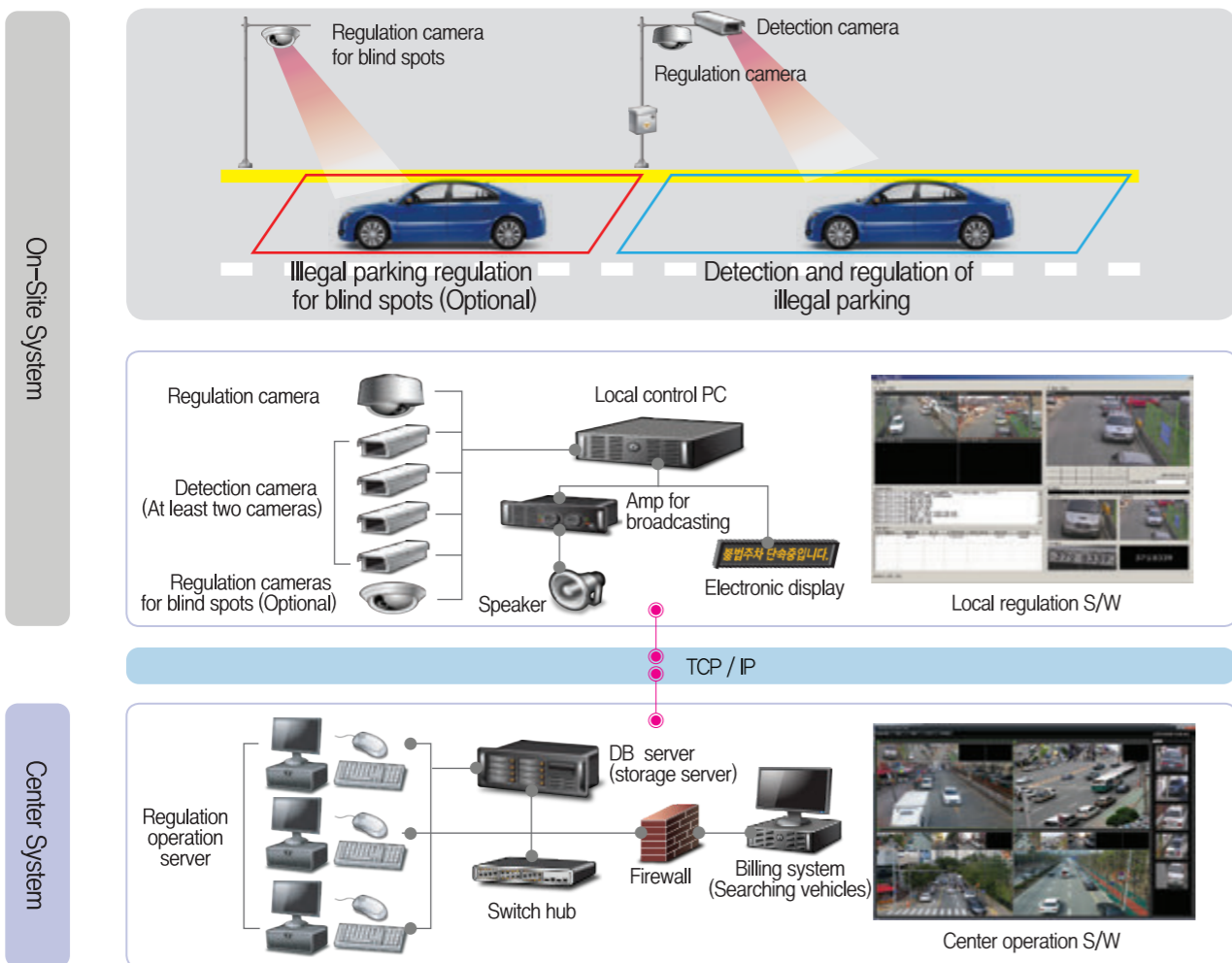
Specification

ITEM	SPEC & FUNDTION
Camera	1/3" CCD 1.3M Pixels Color Camera
Lens	2/3" Zoom Lens (IR Corrected Lens)
Light devise	IR–LED (life cycle more than 1,000 million times)
Control board (Power)	Power, lighting, fans, heaters, and automatic control and fault–auto–recovery function
Vehicle sensor	loop coil

ITEM	SPEC & FUNDTION
CPU	More than Intel Core 2 Duo
Memory	More than 2GB DDR2
Storage	More than SATA 500G HDD
Video input	IEEE 1394 INTERFACE, Network, USB
HOUSING	Waterproof, dustproof, special paint

Parking Enforcement System

RexWatch PES

Shinytech co., Ltd.

Technology & Products

By filming illegally-parked vehicles on roadsides & blind spots and efficiently regulating them, this intellectual parking regulation system ensures fluent traffic flow and enforces advance parking order

System Installation (example)

On-Site System

Regulation camera for blind spots

Detection camera

Regulation camera

Illegal parking regulation for blind spots (Optional)

Detection and regulation of illegal parking

Regulation camera

Detection camera (At least two cameras)

Regulation cameras for blind spots (Optional)

Speaker

Local control PC

Amp for broadcasting

Electronic display

Local regulation S/W

TCP / IP

Center System

Regulation operation server

DB server (storage server)

Firewall

Switch hub

Billing system (Searching vehicles)

Center operation S/W

Characteristic of system

Automatic/semi-automatic regulation

The process of creating information on parking violation can be conducted automatically or semi-automatically without the work of the operator

Function of detecting and tracing vehicles

The status of illegal parking in the area is marked with flags to allow swift and accurate detection and tracing of objects

Provides real-time image and regulation information

Provides real-time image and regulation information for each site, and plays the saved image using the playback function

Technology of controlling the camera

The automatic control of cameras is available through the adjustment of location between the fixed camera and the rotational camera

Automatic prevention of overlapped regulation

When the same vehicle is regulated twice or more by the camera, the system automatically prevents overlapped regulation

Anti-crime function

Using the regulation schedule and the preset of the rotational camera, the system can be operated for anti-crime in times other than the illegal parking regulation hours