

Integrated CATALOG



 **ST-1**



“Parking system for customers’ convenience”


ST-1 specializes in parking control system.


Since its inception in 1998, it has been working toward developing expertise in parking and integrated control and guidance control systems by reflecting technologies from S/W and H/W and manufacturing production fields, and has been taking an initiating role in parking control systems.

ST-1 has been continuously developing technologies in smart parking control systems, integrated solutions, and guidance control fields.

It directly manufactures and sells products in these three fields in retail and wholesale markets in Korea. In fact, it also aims to offer better services and convenience, and maximize the production efficiency based on outstanding specialists in field technology.

ST-1 will do its best to become a reliable company that satisfies customers by promoting its technical development with their support and encouragement by understanding and considering customers’ needs.

CEO Yoon Jae-Min 



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Company overview

Company name	ST-1 Co., Ltd.
CEO	Yoon Jae-Min
Date of establishment	01. 2011
Business	Smart parking control system and guidance control system, construction of integrated control center, autopay system, parking lot operation, consignment management, service, rental, software development information and communication construction
Business type	Manufacturing, service, wholesale, and retail sales
Tel	+82-1899-2864
Fax	+82-63-262-1020



Management philosophy

- ST-1 will continuously exert efforts to develop parking control systems.
- It will pioneer the future high-tech parking control system market that is based on outstanding experts and new technologies.
- ST-1 has built a smart parking control system.
This will become a part of people's lives and will lead high technology to provide customers greater convenience and safety.
- It will aim at developing total parking solutions from beginning to end of parking using accumulated core technology and expertise, and exert its efforts to create new values that are necessary for customers' and companies' activities.
- ST-1 will become a company that contributes to a new era through foregoing activities.



Permit registration

- Information and communication contractors business
- Manufacturing, sale, and rental of data processing computers
- Manufacturing and sale of machines and apparatus for information and communication
- Computer software development
- Design consignment and sale of computer software
- Information and communication engineer
- Parking lot operation management
- Manufacturing, sale, and rental of parking lot facilities
- ISO9001 and ISO14001
- Parking lot operation management
- Patent register
- Closed-circuit television (CCTV)
- Certificate of Quality Certification(Q-Mark)

Company history

**1998
~
2005**

- Established Techone System Co., Ltd.
- Built an automated parking system in Kunsan National University
- Built the LPR system in Chonbuk National University
- Built the LPR system in the public parking lot (eight places) of Jeonju Facilities Management Corporation

2011

- Established ST-1 Co., Ltd.
- Increased capital (KRW 100 million)

2012

- Increased capital (KRW 200 million)

2013

- Increased capital (KRW 300 million)
- Registered a factory
- Obtained a certificate of direct production (parking system / Korea Federation of SMEs)

2014

- Registered Broadcasting and Communication Equipment
- Obtained a KC certification

2015

- Increased capital (KRW 400 million)
- Registered Information and Communication Contractors Business
- Registered as a member of Korea Information and Communication Contractors Association
- Registered as a small and medium business
- Obtained the LPR system performance certification

2016

- Reported a software business license
- Increased capital (KRW 500 million)
- Developed and launched the LPR system (ST-LPR100 and ST-LPR/B)
- Developed and launched the autopay system (ST-AFO)
- Launched the PC-type parking fee calculation system (ST-AFM100)

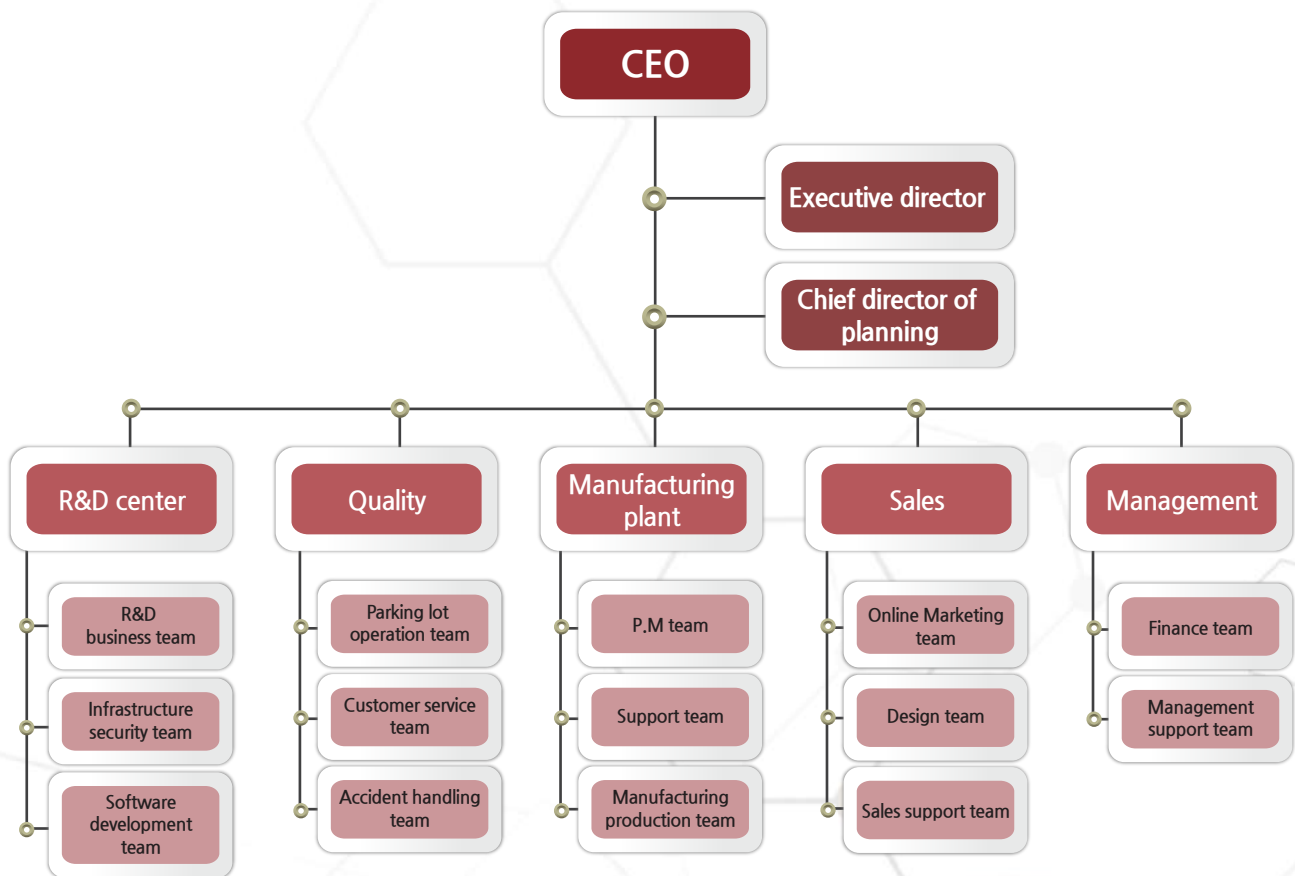
2017

- Established an R&D center
- Registered to Korea ON-line E-Procurement System (KONEPS)
- Developed and launched the Model Distinction System
- Obtained patent application number
- Designated as a venture business

2018

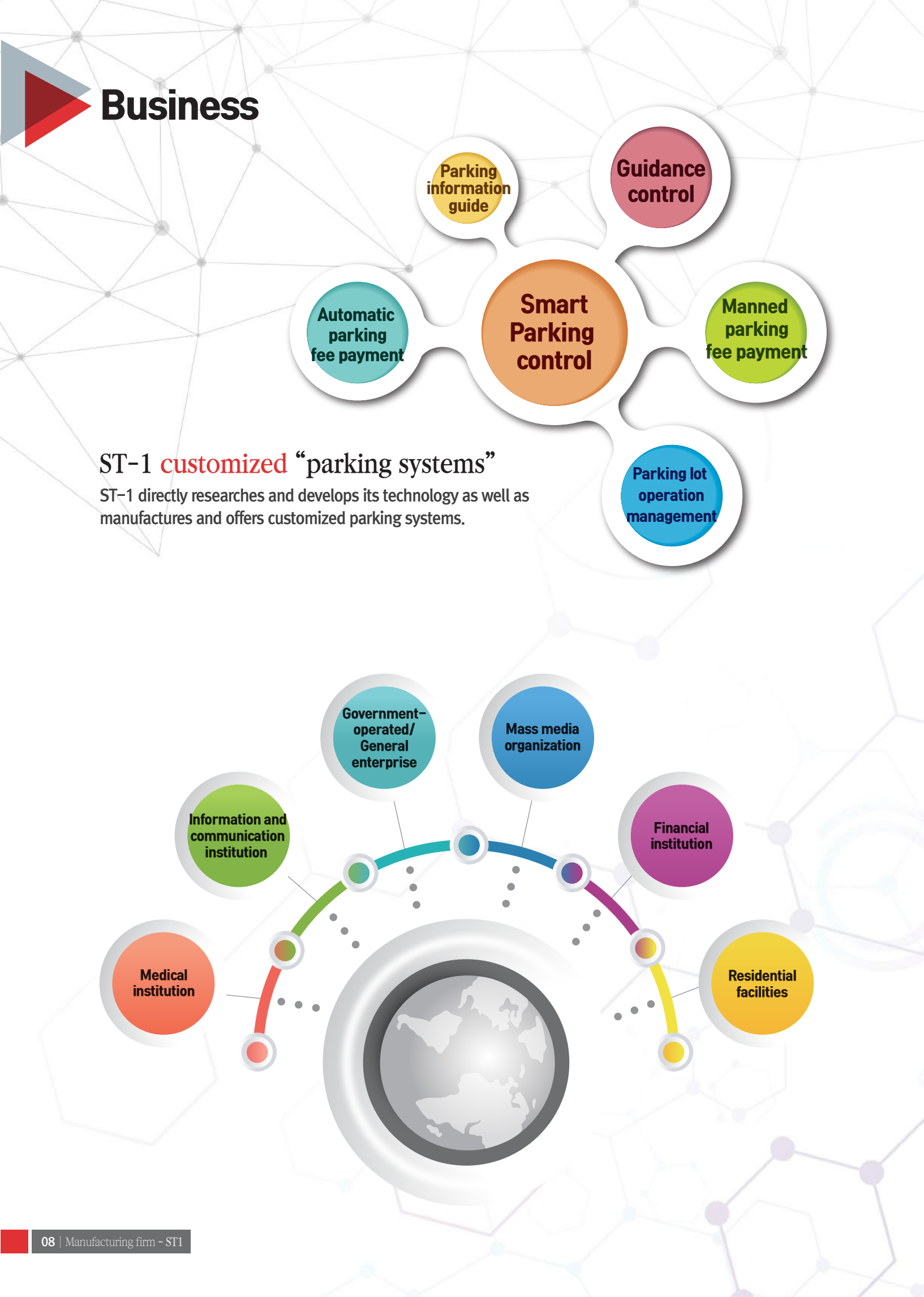
- Selected as a promising small and medium business in Jeollabuk-do
- Obtained an Inno-Biz certification
- Obtained a certificate of direct production (computer software development)

Organization Chart



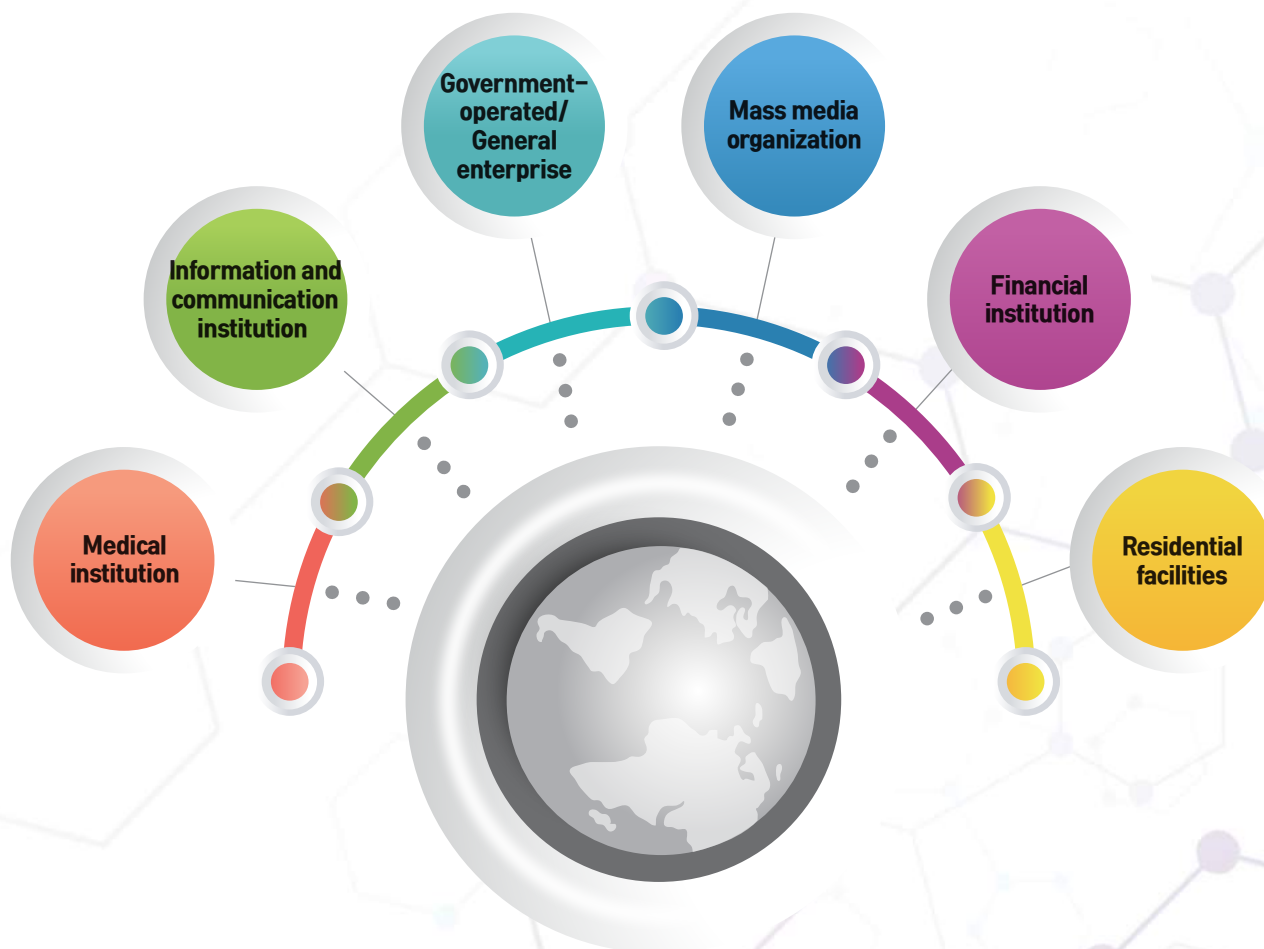
Management System

R&D center	<ul style="list-style-type: none">• The latest technology trend analysis• Continuous support• Research and development of new technology• Participation and holding of seminars	Sales	<ul style="list-style-type: none">• Computerized customer management• Businesses and customers management• Customer response service• Monthly business place report• Annual report and plan
Quality	<ul style="list-style-type: none">• Customer follow-up services management• Quick accident handling• Thorough maintenance		
Manufacturing plant	<ul style="list-style-type: none">• Product manufacturing• Equipment development• Automation technology	Management	<ul style="list-style-type: none">• Customer contact• Growth potential• Customized training• Quarterly workshop



ST-1 **customized** “parking systems”

ST-1 directly researches and develops its technology as well as manufactures and offers customized parking systems.





Parking Control System

Parking control systems automatically recognize vehicles' license plates using LPR during entry or exit to the parking lot, and calculate parking fees by time difference or allow drivers to pay using an autopay system (cash or credit card).

- Automatic parking fee calculation, automatic monthly commutation vehicle management, by the day, and coupon management.
- Identifies a vehicle accident by capturing the license plate from the front and rear photos of the vehicle.
- Manages parking fees utilizing LPR technology without the use of parking tickets.



Parking Control System



Accurate vehicle detection!



Convenient parking fee calculation!



Quick pass!



Entry

License Plate Recognition

Recognizes the license plate and photograph, and saves license plate information.

Barrier Gate

Raises/lowers the barrier gate, and allows the vehicle to pass.

Vehicle Damage Scanner

Photographs four sides of the vehicle and allows a user to check damage of the vehicle.

Autopay Station

Parking fee payment system

Loop-Coil

Transmits signals by detecting vehicles (metal)

01. One-way LPR(General)

One-way LPR recognizes and extracts characters, numbers, and other information from the best video photo of a license plate that was acquired by digital cameras (1.3 million pixels or more) with lighting fixtures, as well as shows relevant information to a driver through the LED display and provides real-time information to a management administrator.



Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Size:** 320(W) x 260(D) x 1302(H) (including the LED display)
 - **Input voltage:** AC 220V / 60Hz
 - **Operating temperature:** -30°C ~ 50°C
 - **Recognition rate:** 99.5% (excluding defective license plates)
 - **Recognition speed:** 0.8sec
 - **Speed of a passing vehicle:** 10km/h ~ 60km/h
 - **Communication:** TCP / IP
 - **Image sensor:** black and white with 1.3 million pixels
 - **Shutter speed:** Auto
 - **Lens:** 2.8~50m
 - **Lighting:** High-intensity infrared light
 - **LED display:** Displays 12 Korean characters (2 columns and 6 rows), 3 Colors
-
- Reduces traffic congestion because of no parking ticket and nonstop systems during entry and exit of vehicles.
 - Reduces consumable parking ticket cost because of no parking ticket system.
 - Automatic entry or exit of vehicles is available by the LPR system when registering vehicles for business or related purposes.
 - No difficulty in continuous picture taking during the night because of lighting fixtures.
 - Allows a driver to have an unobstructed view because of the use of IR LED element.

02. One-way LPR(Premium)

One-way LPR recognizes and extracts characters, numbers, and other information from the best video photo of a license plate that was acquired by digital cameras (1.3 million pixels or more) with lighting fixtures, as well as shows relevant information to a driver through the LED display and provides real-time information to a management administrator.



Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Size:** 320(W) x 260(D) x 1302(H) (including the LED display)
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 - **Recognition speed:** 0.5sec
 - **Speed of a passing vehicle:** 10km/h ~ 60km/h
 - **Communication:** TCP / IP
 - **Image sensor:** black and white with 1.3 million pixels
 - **Shutter speed:** Auto
 - **Lens:** 2.8~50m
 - **Lighting:** High-intensity infrared light
 - **LED display:** Displays 12 Korean characters (2 columns and 6 rows), 8 Colors
-
- Reduces traffic congestion because of no parking ticket and nonstop systems during entry and exit of vehicles.
 - Reduces consumable parking ticket cost because of no parking ticket system.
 - Automatic entry or exit of vehicles is available by the LPR system when registering vehicles for business or related purposes.
 - No difficulty in continuous picture taking during the night because of lighting fixtures.
 - Allows a driver to have an unobstructed view because of the use of IR LED element.

03. Two-way LPR(General)

Two-way LPR recognizes and extracts a license plate after taking a photo of it when a vehicle enters the parking lot. Furthermore, it selects and processes the normal photo of the license plate when one of the two license plate photos is poor.

A no parking ticket system can be established. In fact, it ensures the accurate recognition rate by recognizing the front and rear license plates when the front license plate is damaged, or the photo of the license plate is unrecognized because of snow or backlight.



Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Size:** 320(W) x 260(D) x 1302(H) (including the LED display)
 - **Input voltage:** AC 220V / 60Hz
 - **Operating temperature:** -30°C ~ 50°C
 - **Recognition rate:** 99.5% (excluding defective license plates)
 - **Recognition speed:** 0.8sec
 - **Speed of a passing vehicle:** 10km/h ~ 60km/h
 - **Communication:** TCP / IP
 - **Image sensor:** black and white with 1.3 million pixels
 - **Shutter speed:** Auto
 - **Lens:** 2.8~50m
 - **Lighting:** High-intensity infrared light
 - **LED display:** Displays 12 Korean characters (2 columns and 6 rows), 3 Colors
- Reduces traffic congestion because of no parking ticket and nonstop systems during entry and exit of vehicles.
 - Reduces consumable parking ticket cost because of no parking ticket system.
 - Automatic entry or exit of vehicles is available by the LPR system when registering vehicles for business or related purposes.
 - No difficulty in continuous picture taking during the night because of lighting fixtures.
 - Allows a driver to have an unobstructed view because of the use of IR LED element.
 - The license plate recognition rate is 99.9% or higher using double recognition of the front and rear license plates.

04. Two-way LPR(Premium)

Two-way LPR recognizes and extracts a license plate after taking a photo of it when a vehicle enters the parking lot. Furthermore, it selects and processes the normal photo of the license plate when one of the two license plate photos is poor.

A no parking ticket system can be established. In fact, it ensures the accurate recognition rate by recognizing the front and rear license plates when the front license plate is damaged, or the photo of the license plate is unrecognized because of snow or backlight.



Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Size:** 320(W) x 260(D) x 1302(H) (including the LED display)
 - **Input voltage:** AC 220V / 60Hz
 - **Operating temperature:** -30°C ~ 50°C
 - **Recognition rate:** 99.5% (excluding defective license plates)
 - **Recognition speed:** 0.5sec
 - **Speed of a passing vehicle:** 10km/h ~ 60km/h
 - **Communication:** TCP / IP
 - **Image sensor:** black and white with 1.3 million pixels
 - **Shutter speed:** Auto
 - **Lens:** 2.8~50m
 - **Lighting:** High-intensity infrared light
 - **LED display:** Displays 12 Korean characters (2 columns and 6 rows), 8 Colors
- Reduces traffic congestion because of no parking ticket and nonstop systems during entry and exit of vehicles.
 - Reduces consumable parking ticket cost because of no parking ticket system.
 - Automatic entry or exit of vehicles is available by the LPR system when registering vehicles for business or related purposes.
 - No difficulty in continuous picture taking during the night because of lighting fixtures.
 - Allows a driver to have an unobstructed view because of the use of IR LED element.
 - The license plate recognition rate is 99.9% or higher using double recognition of the front and rear license plates.

05. Ceiling Type LPR

Ceiling Type LPR recognizes and extracts characters, numbers, and other information from the best video photo of a license plate that was acquired by digital cameras (1.3 million pixels or more) with lighting fixtures, as well as shows relevant information to a driver through the LED display and provides real-time information to a management administrator.



Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Input voltage:** AC 220V / 60Hz
 - **Operating temperature:** -30°C ~ 50°C
 - **Recognition rate:** 99.9% (excluding defective license plates)
 - **Recognition speed:** 0.8sec
 - **Speed of a passing vehicle:** 10km/h ~ 60km/h
 - **Communication:** TCP / IP
 - **Image sensor:** black and white with 1.3 million pixels
 - **Shutter speed:** Auto
 - **Lens:** 2.8~50m
 - **Lighting:** High-intensity infrared light
- Reduces traffic congestion because of no parking ticket and nonstop systems during entry and exit of vehicles.
 - Reduces consumable parking ticket cost because of no parking ticket system.
 - Automatic entry or exit of vehicles is available by the LPR system when registering vehicles for business or related purposes.
 - No difficulty in continuous picture taking during the night because of lighting fixtures.
 - Allows a driver to have an unobstructed view because of the use of IR LED element.
 - Ceiling Type is an easy way to make better use of space because it is installed on the ceiling.

06. Integrated Type LPR

Integral Type recognizes and extracts characters, numbers, and other information from the best video photo of the license plate that was acquired by digital cameras (1.3 million pixels or more) with lighting fixtures, as well as shows relevant information to a driver through the LED display and provides real-time information to a management administrator. This is installed at the entrance or exit of the parking lot and controls the entry and exit of vehicles.



Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Size:** 530(W) x 320(D) x 1280(H) (including the LED display)
 - **Input voltage:** AC 220V / 60Hz
 - **Operating temperature:** -30°C ~ 50°C
 - **Recognition rate:** 99.9% (excluding defective license plates)
 - **Recognition speed:** 0.5sec
 - **Speed of a passing vehicle:** 10km/h ~ 60km/h
 - **Communication:** TCP / IP
 - **Image sensor:** black and white with 1.3 million pixels
 - **Shutter speed:** Auto
 - **Lens:** 2.8~50m
 - **Lighting:** High-intensity infrared light
 - **LED display:** Displays 12 Korean characters (2 columns and 6 rows), 8 Colors
 - **Driving system:** BLDC
 - **Opening speed:** Within 1.7 sec
- Reduces traffic congestion because of no parking ticket and nonstop systems during entry and exit of vehicles.
 - Reduces consumable parking ticket cost because of no parking ticket system.
 - Automatic entry or exit of vehicles is available by the LPR system when registering vehicles for business or related purposes.
 - No difficulty in continuous picture taking during the night because of lighting fixtures.
 - This can be installed by interworking with various access control equipment and can perfectly control vehicles that enter the parking lot.
 - The count function prevents accidents when vehicles continuously exit the parking lot.
 - When an object is detected while the barrier gate goes down, the rebound function detects the load of the drive motor and immediately raises the barrier gate to prevent vehicle damage.

07. Parking Ticket Dispenser



Parking Ticket Dispenser issues a parking ticket and displays the parking information by detecting vehicles that enter the parking lot. It also prints and records the entry serial number, date and time of entry, and parking location.

Specifications and features

- **Power supply:** AC 220V / 60Hz
 - **Power consumption:** 30W ~ 150W
 - **Size:** 590(L) x 400(W) x 1200(H)
 - **Printing speed:** 8cm/sec
 - **Cutter life cycle:** 1.5 million times 150
 - **Head life cycle:** 50km
 - **Communication method:** Serial (RS-232C)
 - **Service environment:** Temperature: 5°C~50°C | Humidity: 10%~100%
No condensation.
-
- Automatically (semiautomatically) or manually issues a parking ticket in front of the parking ticket dispenser when vehicles enter the parking lot. When they enter, it automatically (semiautomatically) or manually issues a parking ticket at the entrance.
 - Offers driving convenience by providing parking information.
 - Allows an administrator to check and modify data such as date and time, as well as inspect the equipment, parking tickets, and the number of various processing tickets.
 - Parking Ticket Dispenser can independently operate when it is disconnected to the administrative computer and calculator.

08. Parking Ticket Reader

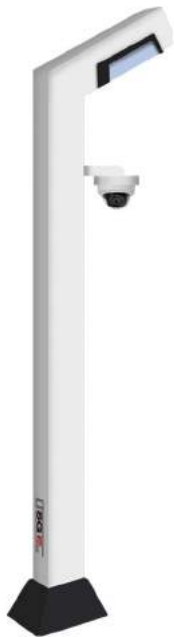


Parking Ticket Reader recognizes a commutation ticket by automatically reading the parking tickets of vehicles that enter the parking lot, and issues a parking ticket through the parking ticket dispenser.

Specifications and features

- **Power supply:** AC 220V / 60Hz
 - **Service environment:** Temperature: 10°C~50°C | Humidity: 10%~100%
No condensation
 - **Communication method:** Serial (RS-232C)
-
- When a parking ticket is inserted, it will automatically calculate the parking fee by interworking with the parking fee calculator.
 - Equipment status monitor with a graphic LED display.

09. Vehicle Damage Scanner



Vehicle Damage Scanner is installed at the parking lot entrance in four directions. It precisely takes photos of the front, rear, and sides of vehicles that enter or exit the parking lot, and saves the photos with a license plate.

When an accident occurs in the parking lot, it provides the information by checking the license plate and photos of the vehicle's exterior to help accurately analyze the accident in the parking lot.

Specifications and features

- **Image sensor:** 1/2.9 type progressive scanning SONY 2.9 megapixels with complementary metal-oxide-semiconductor (CMOS)
- **Effective pixels:** 1984(H) x 1105(V)
- **Minimum illumination:** 0.15LUX(Sense up Auto X4)
- **Infrared range:** Maximum of 25 m (based on indoor spaces)
- **Bracket:** Including Outdoor | Sunshield | Waterproof, moistureproof, dustproof
- **Camera Pole (including light):** Height: 2,310 mm (adjustable at fields)
Material: Stainless steel (SUS)

- The Vehicle Damage Scanner is installed at the parking lot entrance in four directions and precisely taking photos of the front, rear, and sides of vehicles.
- Allows an administrator to accurately check the vehicle by zooming in the photo after checking the photo of vehicles entering the parking lot using a license plate.

10. Call Telephone



Call Telephone enables a visitor to make an emergency call.

Specifications and features

- **Power supply:** DC12V 200mA
- **Form:** Self structure
- **Communication:** TCP/IP
- **Service environment:** 0°C ~ 40°C

- Mutual communication / PTT
- Adjustable volume.
- Available everywhere such as the hospital, security office, locker room, and other places.
- Applicable from channel 1 to channel 10 according to fields.

11. Barrier Gate (General)



Barrier Gate is installed at the entrance and exit of the parking lot and controls the entry and exit of vehicles.

Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Size:** 303(W) x 303(D) x 1051(H)
 - **Input voltage:** AC 220V / 60Hz
 - **Power consumption:** 5W(Normal), 120W(Operation)
 - **Driving system:** BLDC
 - **Thick exterior:** Steel plate 1.6 mm thick
 - **Opening speed:** Within 1.7 sec
-
- This can be installed by interworking with various access control equipment and can perfectly control vehicles that enter the parking lot.
 - The count function prevents accidents when vehicles continuously exit the parking lot.
 - A rubber packing is installed at the base of the barrier gate to protect vehicles.
 - When an object is detected while the barrier gate goes down, the rebound function detects the load of the drive motor and immediately raises the barrier gate to prevent vehicle damage.

12. Barrier Gate (premium)



Barrier Gate is installed at the entrance and exit of the parking lot and controls the entry and exit of vehicles.

Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Size:** 303(W) x 303(D) x 1051(H)
 - **Input voltage:** AC 220V / 60Hz
 - **Power consumption:** 5W(Normal), 120W(Operation)
 - **Driving system:** BLDC
 - **Thick exterior:** Steel plate 1.6 mm thick
 - **Opening speed:** Within 1.7 sec
-
- This can be installed by interworking with various access control equipment and can perfectly control vehicles that enter the parking lot.
 - The count function prevents accidents when vehicles continuously exit the parking lot.
 - A rubber packing is installed at the base of the barrier gate to protect vehicles.
 - When an object is detected while the barrier gate goes down, the rebound function detects the load of the drive motor and immediately raises the barrier gate to prevent vehicle damage.

13. Central Management PC



Central Management PC receives photos and vehicles' license plates from the LPR system at the entrance or exit of the parking lot, saves them, and allows an administrator to search various data and statistics.

Specifications and features

- **Input voltage:** AC 220V / 60Hz
 - **Power consumption:** 450W(Max)
 - **Service environment:** -10°C ~ 50°C, Humidity 10 ~ 70%
 - **Structure:** Main body, Monitor, keyboard, Mouse
 - **Specification:** Intel Core i3 7300, SSD 256GB, RAM 8G, 19-inch wide monitor, and Window 7 or higher
-
- Integrated management of all data that include operating data management, a detailed statement of entry and exit of vehicles, commutation ticket management, and others through communication with parking systems.
 - Allows an administrator to easily search the date and time of entry or exit of vehicles, photos, and other information.
 - Searchable parking history by parking date and time and license plate.

14. Monitoring PC



Monitoring PC shows the operation of all entry and exit control equipment, data collection, communication, and remote control at one glance and allows an administrator to easily monitor parking systems.

Specifications and features

- **Input voltage:** AC 220V / 60Hz
 - **Power consumption:** 450W(Max)
 - **Service environment:** -10°C ~ 50°C, Humidity 10 ~ 70%
 - **Structure:** Main body, Monitor, keyboard, Mouse
 - **Specification:** Intel Core i3 7300, HDD 1TB, RAM 8G, 19-inch wide monitor, and Window 7 or higher
-
- Shows the operation of all entry and exit control equipment, data collection, communication, and remote control at one glance.

15. Parking Fee Calculation PC



Parking Fee Calculation PC is installed at the parking lot exit and administrative office, and it displays the parking fee by calculating vehicles' time of entry and exit. In fact, it issues a receipt and allows drivers who paid the parking fee to exit by opening the barrier gate.

Specifications and features

- **Input voltage:** AC 220V / 60Hz
- **Power consumption:** 450W(Max)
- **Service environment:** -10°C ~ 50°C, Humidity 10 ~ 70%
- **Structure:** Main body, Monitor, keyboard, Mouse
- **Specification:** Intel Core i3 7300, SSD 256GB, RAM 8G, 19-inch wide monitor, and Window 7 or higher

- Various discount systems such as time discount, fee discount, day and night time zone discount, and others can be set.
- 10 or more various discount functions are available.

16. Integrated Control PC



Integrated Control PC enables the overall operation, management, and control of the parking lot. This system performs parking control equipment monitoring (status of LPR, barrier gate, and autopay system), entry and exit data check, parking fee calculation statement check, management of commutation ticket group and members, definition of parking fee system and discount system, and control of the LED display and barrier gate.

Specifications and features

- **Input voltage:** AC 220V / 60Hz
- **Power consumption:** 450W(Max)
- **Service environment:** -10°C ~ 50°C, Humidity 10 ~ 70%
- **Structure:** Main body, Monitor, keyboard, Mouse
- **Specification:** Intel Core i3 7600, SSD 512GB+HDD 1TB, RAM 8G, 19-inch wide monitor, and Window 7 or higher

- Parking control equipment monitoring.
- Detailed entry and exit statement checks.
- Detailed parking fee calculation statement checks.
- Management of commutation ticket group and members.
- Definition of parking fee system and discount system.
- Control of the LED display and barrier gate.

17. Vehicle Damage Scanner PC



Vehicle Damage Scanner PC saves and manages photos of the front, rear, and both sides of vehicles from four sides using four cameras when vehicles enter the parking lot.

It allows an administrator to check the status of vehicles that enter the parking lot.

Specifications and features

- **Input voltage:** AC 220V / 60Hz
- **Power consumption:** 450W(Max)
- **Service environment:** -10°C ~ 50°C, 10 ~ 70%
- **Structure:** Main body, Monitor, keyboard, Mouse
- **Specification:** Intel Core i3 7300, HDD 1TB, RAM 8G, 19-inch wide monitor, and Window 7 or higher

- Searches and shows photos when vehicles enter the parking lot using a license plate and time information.
(four sides: front, rear, and both sides)

18. Desktop Printing Calculator (POS type)



Desktop Printing Calculator enables anyone to easily use the calculator. It automatically processes parking ticket and calculates the parking fee by interworking with the barcode scanner and card reader.

Specifications and features

- **Input voltage:** AC 220V / 50~60Hz
- **Keyboard:** 78 keys (programmable)
- **Mode key:** Seven modes (five types of mode keys)
- **Printer type:** 2inch, Single-sheet thermal print, 80mm/sec
- **Printer paper:** 57mm(W) x 70m
- **Printing:** Supports 16 Korean characters and 32 English characters in one line
- **Other features:** Built-in autocutter
- **Memory:** Basic 2Mbit, Extend 8Mbit (SRAM)
- **Communication:** RS-232C 3port

- Easy change of feature that uses a screen of four-line Korean characters and Korean typing system.
- Free typing system design.
(Discount key: Up to 20 | Exit key: Up to 15 | Entry key: Up to 10)
- Interworking with the barrier gate and parking fee display.

19. PDA



It registers a license plate that is based on a parking lot and displays vehicle information and parking status on the main screen. Furthermore, it has features that include the processing of entry and exit of vehicles, daily count, and daily balance calculation. It also can print out the parking ticket, receipt, and daily calculation report with a built-in thermal printer.

Specifications and features

- **CPU:** ARM9 32-BIT processor
- **Operating system:** Windows CE 6.0
- **Memory:** 128MB(extendible up to 640 MB)
- **Battery:** Lithium polymer (3000 mAh), waiting time (20 hr or more), charging time (3 hr)
- **Screen:** 4"
- **Printer:** Thermal print, speed (40 mm/sec), paper (60 mm)
- **Communication:** RS-232C

- It allows an administrator to process the entry and exit of vehicles from the main screen by clicking the parking lot spaces that are displayed on the screen.
- Various discount functions (percent, time discount, and discount amount) can be set.
- Availability of reissued receipt.
- Convenient administrator menu.
- Registration of parking fee defaulters and evidential materials.

20. Credit-Only Autopay Station (midrange)



The Credit-Only Autopay Station is installed in the parking lot and enables the driver to use a discount coupon and barcode or pay the parking fee through various payment methods such as credit card, transportation card, and other methods after checking the parking fee that is automatically calculated while drivers wait. It can be controlled by a car passenger using the 12.1-inch screen.

Specifications and features

- **Input voltage:** AC 220V / 50~60Hz
- **Power consumption:** 1.2KW
- **Display:** 12.1 LCD
- **Touch screen:** Infrared ray
- **Interface:** TCP / IP
- **Card reader :** Credit Card
- **Payment method:** Credit Card
- **Receipt print:** Thermal print
- **Bar Code:** Stationary Bar code Scanner

- Various electronic payment methods, such as credit card, transportation card, etc., are available.
- 12.1 touch screen panel provides user convenience.
- Installation of the interphone in case of emergency.
- Direct payment of the parking fee through a car window while the driver is inside the car.
- Provides parking fee discount information with interworking with Point of sales (POS) / Order Communication system (OCS) / web

21. Credit-Only Autopay Station(Premium)



The Credit-Only Autopay Station is installed in the parking lot and enables the driver to use a discount coupon or pay the parking fee through various payment methods such as credit card, transportation card, and other methods after checking the parking fee that is automatically calculated while drivers wait. It can be controlled by a car passenger using the 12.1-inch screen.

Specifications and features

- Input voltage: AC 220V / 50~60Hz
 - Power consumption: 1.2KW
 - Display: 12.1 LCD
 - Touch screen: Infrared ray
 - Interface: TCP / IP
 - Card reader : Credit Card / Discount Coupon
 - Payment method: Credit Card / transportation Card
 - Receipt print: Thermal print
-
- Various electronic payment methods, such as credit card, transportation card, etc., are available.
 - 12.1 touch screen panel provides user convenience.
 - Installation of the interphone in case of emergency.
 - Direct payment of the parking fee through a car window while the driver is inside the car.
 - Provides parking fee discount information with interworking with Point of sales (POS) / Order Communication system (OCS) / web

22. Credit, Cash Autopay Station(Premium)



The Credit, Cash Autopay Station is installed in the parking lot and enables the driver to use a discount coupon and barcode or pay the parking fee through various payment methods such as credit card, transportation card, cash and other methods after checking the parking fee that is automatically calculated while drivers wait. It can be controlled by a car passenger using the 21inch screen.

Specifications and features

- Input voltage: AC 220V / 50~60Hz
 - Power consumption: 1.2KW
 - Display: 21 LCD
 - Touch screen: Infrared ray
 - Interface: TCP / IP
 - Card reader : Credit Card / Discount Coupon
 - Payment method: Credit Card / transportation Card / Cash
 - Receipt print: Thermal print
 - Bar Code: Stationary Bar code Scanner
-
- Various electronic payment methods, such as credit card, transportation card, etc., are available.
 - 21 touch screen panel provides user convenience.
 - Installation of the interphone in case of emergency.
 - Direct payment of the parking fee through a car window while the driver is inside the car.
 - Provides parking fee discount information with interworking with Point of sales (POS) / Order Communication system (OCS) / web.

23. Model Distinction System



The Model Distinction System is installed in front of the parking lot entrance and automatically classifies model of passing vehicles. It needs to accurately detect vehicles and classify the model for the parking fee collection criteria and transmits signals of the car model to the server (two classification types: compact and small cars).

Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Ultrasonic power:** 4~20 mA or more
 - **Frequency:** 40Hz
 - **Service environment:** -30°C ~ 60°C
 - **Operating speed:** Within 1sec
 - **Detecting the distance:** 0.4 ~ 10m
-
- Transmits information to the parking ticket dispenser, autopay station, main parking control system, and other systems and classifies car models without separate keys.

24. Comprehensive Entrance Indicator Board (General)



The Comprehensive Entrance Indicator Board informs parking lot users about the parking status of each level and helps ensure smooth traffic flow in the parking lot.

Specifications and features

- **Form and structure:** Self-waterproof structure
 - **Power supply:** AC 220V
 - **Power consumption:** 40W(Normal), 60W(Operation)
 - **LED display color:** 3 Colors
 - **Service environment:** -20°C ~ 50°C
 - **Communication:** TCP / IP
-
- Displays occupation status and available parking spaces of each level to drivers who enter the parking lot.
 - Displays the number of remaining parking spaces, traffic congestion, and full/empty status of parking spaces using high-intensity LED.
 - Displays parking information to drivers.
 - Displays English and Korean together or each language separately.

25. Comprehensive Entrance Indicator Board (Premium)



The Comprehensive Entrance Indicator Board informs parking lot users about the parking status of each level and helps ensure smooth traffic flow in the parking lot.

Specifications and features

- Form and structure: Self-waterproof structure
 - Power supply: AC 220V
 - Power consumption: 40W(Normal), 60W(Operation)
 - LED display color: 8 Colors
 - Service environment: -20°C ~ 50°C
 - Communication: TCP / IP
-
- Displays occupation status and available parking spaces of each level to drivers who enter the parking lot.
 - Displays the number of remaining parking spaces, traffic congestion, and full/empty status of parking spaces using high-intensity LED.
 - Displays parking information to drivers.
 - Displays English and Korean together or each language separately.

26. Parking Control Server(Rack)



It displays and enters operational status by control facilities, handling of matters by parking lots, and other information. Furthermore, it manages and controls all parking equipment in the parking lot and enables many additional services through connection to the outside.

Specifications and features

- Power supply: AC 220V / 60Hz
 - Power consumption: 450W(Max)
 - Service environment: -10°C ~ 50°C, Humidity 10 ~ 70%
 - Structure: Main body, Monitor, keyboard, Mouse
 - Specification: Intel Core i7 7700, SSD 512GB, RAM 16G, 19-inch wide monitor, and Window 10 or higher
-
- All data from the parking lot management can be integrated.
 - Interworking with data that is provided from the upper-level system.
 - Provides data for parking lot operation management in real time.

27. Vehicle Detection System



It detects modulated frequency signals by buried loop coils, and it is used with other linked equipment.

Specifications and features

- **Power supply:** AC 220V / 60Hz
- **Display:** Red LED (Power), Green LED (Detection), Yellow LED (Timer)
- **Frequency conversion:** High and Low Adjustable from level 1 to level 4
- **Sensitivity control:** Adjustable from level 1 to level 10
- **Power consumption:** 2 W (Normal), 25 W (Operation)

- Sets eight modes differently and uses them as 20 various functions
- Direction distinction.
- Sensitivity control from high sensitivity to low sensitivity.
- Randomly controls the time for warning light from 5 to 60 sec.

28. Barrier Gate Switch



A switch that opens or closes the barrier gate by manually operating a switch.

Specifications and features

- **Button type or toggle type**
- **Material:** Plastic

- Allows an administrator to control the barrier gate by manually operating the button.
- Three modes of Open / Close / Always Open are available.
- Easy management with the "Always Open" mode.

29. Warning Lamp



It sounds the alarm (buzzer) and rotates to warn other vehicles and pedestrians in the parking lot when vehicles enter or exit.

Specifications and features

- **Form:** Ceiling type
- **Material:** Plastic
- **Power supply:** AC 220V / 60Hz
- **Power consumption:** 1 W (Normal), 30 W (Operation)
- **Warning type:** 1 ~ 60 sec (detector output)
- **Pole length:** Adjust the length according to the height of the ceiling and install it (basic length: 800 mm)

- Prevents accidents in advance and helps ensure smooth traffic flow
- Easy identification during day and night because of built-in lighting

30. Exit Warning Lamp



It is installed at the exit of the parking lot and sounds the alarm (buzzer) and rotates to warn other vehicles and pedestrians when vehicles exit the parking lot.

Specifications and features

- **Form and structure:** Self-waterproof structure
- **Configuration:** Warning light, buzzer, and character printing
- **Material:** Aluminium, Stainless Steel
- **Power supply:** AC 220V / 60Hz

- Prevents accidents in advance and helps ensure smooth traffic flow.
- Easy identification during day and night because of built-in lighting.

31. Parking Fee Meter



The Parking Fee Meter is linked with the Parking Fee Calculator. It displays the parking fee that is calculated from the calculator and enables a driver to directly check the parking fee.

Specifications and features

- **Form:** Wall-mounted and self-waterproof types
- **Power supply:** DC12V
- **Service environment:** -20°C ~ 45°C, Humidity 10 ~ 90%
- **Communication:** RS232C

- Normally displays time and the charged parking fee.
- Displays up to five characters using digital display.
- Long visibility range using high-intensity LED.

32. Hand-Type Barcode Scanner



The Hand-Type Barcode Scanner reads the barcode of the parking ticket that is issued from the parking ticket dispenser with a scanner when a car exits and automatically calculates parking fee.

Specifications and features

- **Power supply:** DC5V, 55mA
- **Service environment:** 0°C ~ 40°C, Humidity 10 ~ 90%
- **Communication:** RS232C
- **Readable angle:** 0° ~ 6°
- **Readable distance:** 0 ~ 20mm
- **Ambient lighting:** 300 Lux or less

- Easy and fast processing speed.

33. Stationary Barcode Scanner



The Stationary Barcode Scanner reads the barcode of the parking ticket that is issued from the parking ticket dispenser with a scanner when a car exits and automatically calculates parking fee.

Specifications and features

- Power supply: DC5V
- Scan area: 45mm x 2 @ Contact, 218mm @ 216mm of depth
- Scan line: 32 lines
- Scan speed: 2400 (per sec)
- Scan pattern: Eight directions from the scanning area
- Inclination: Front: 8° | Rear: 6°

- 32-line scan pattern and fast scan speed of 2400 per sec.
- Scanning is available at a slope of 45° for user convenience.
- Switchable to the single-line mode to prevent incorrect barcode scan error.

34. Lobby Phone



The Lobby Phone allows an administrator to control visitors using a camera that identifies and checks visitors through various authentication methods.

Specifications and features

- Power supply: DC12V / 1A
- Communication: Hands-free
- Call/image operating time: Call operating time: 30 sec \pm 3 sec
Household call operating time: 3 min \pm 5 sec
- Service environment: -10°C ~ 50°C

- Household calls and calls are available.
- Checks the number through the flexible numeric display (FND) of designation numbers.
- Opens and closes an automatic door.

35. VoIP Phone



The VoIP Phone can be used as a general telephone and has many additional functions that include call forwarding, call forwarding during a phone call, automatic answering, and others.

Specifications and features

- **Power supply:** DC5V 1A
 - **Installation:** Desk type
 - **Remote configuration:** Built-in type Web server
 - **Korean input method:** KT Narat-gul
-
- Available as a telephone.
 - Call forwarding, call forwarding during a phone call, automatic answering, and many additional functions are available.
 - Provides a remote web server.
 - Available as a broadcasting terminal.

36. Interphone



The Interphone enables an administrator to check the visitor by voice.

Specifications and features

- **Power supply:** DC12V 200mA
 - **Installation:** Wall-mounted and desk types
 - **Wiring:** Two-wire
 - **Distance range:** 300 m
 - **Service environment:** 0°C ~ 40°C
-
- Mutual communication / PTT
 - Adjustable volume
 - Available everywhere such as the hospital, security office, locker room, and other places.
 - Applicable from channel 1 to channel 10 according to fields.

37. Commutation Ticket Receiver



Commutation Ticket Receiver is installed at the entrance or exit of the parking lot and automatically opens the barrier gate by reading the contactless radio frequency (R/F) card of drivers when vehicles reach the receiver.

Specifications and features

- Detecting the distance: 4~6m
 - Power supply: AC 220V / 60Hz
 - Service environment: Temperature: -30℃~45℃ | Humidity: 95%
-
- Encoded ID communication that uses a protocol between a reader and a tag.
 - Contactless card reader with the maximum reading distance of 70 cm (optimal reading distance: 40 cm).

38. Remote Control Receiver



Remote Control Receiver acquires data from the remote control and transmits an open command of the barrier gate.

Specifications and features

- Relay contact capacity: 10 A / 120 VAC and 10 A / 24 VDC
 - Power supply: AC 220V / 60Hz
 - Size: 130x109x45mm
 - Weight: 241g(Receiver), 49g(Antenna)
-
- Easily controls the barrier gate using a remote control.



Guidance Control System

The Guidance Control System guides and allows a driver to quickly and easily park a car by detecting the presence of other vehicles in parking lots using ultrasonic sensors or cameras and displaying the number of available parking spaces.

Guidance control systems are classified into two systems by detection methods of LPR: ultrasound system for sensor detection and image guidance system for photo imaging.

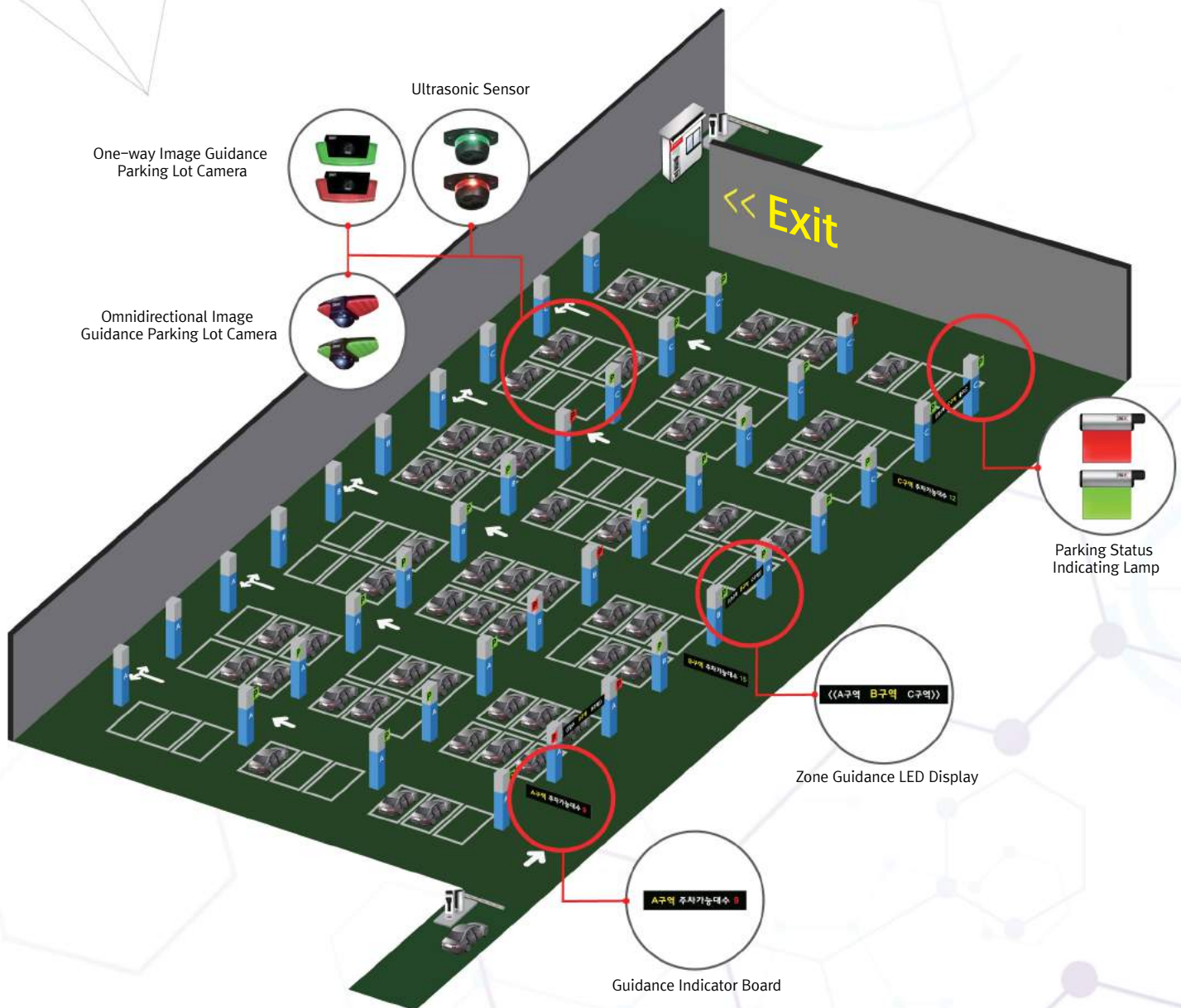
An image guidance system that accurately recognizes a license plate by taking photos using cameras in the parking lot.

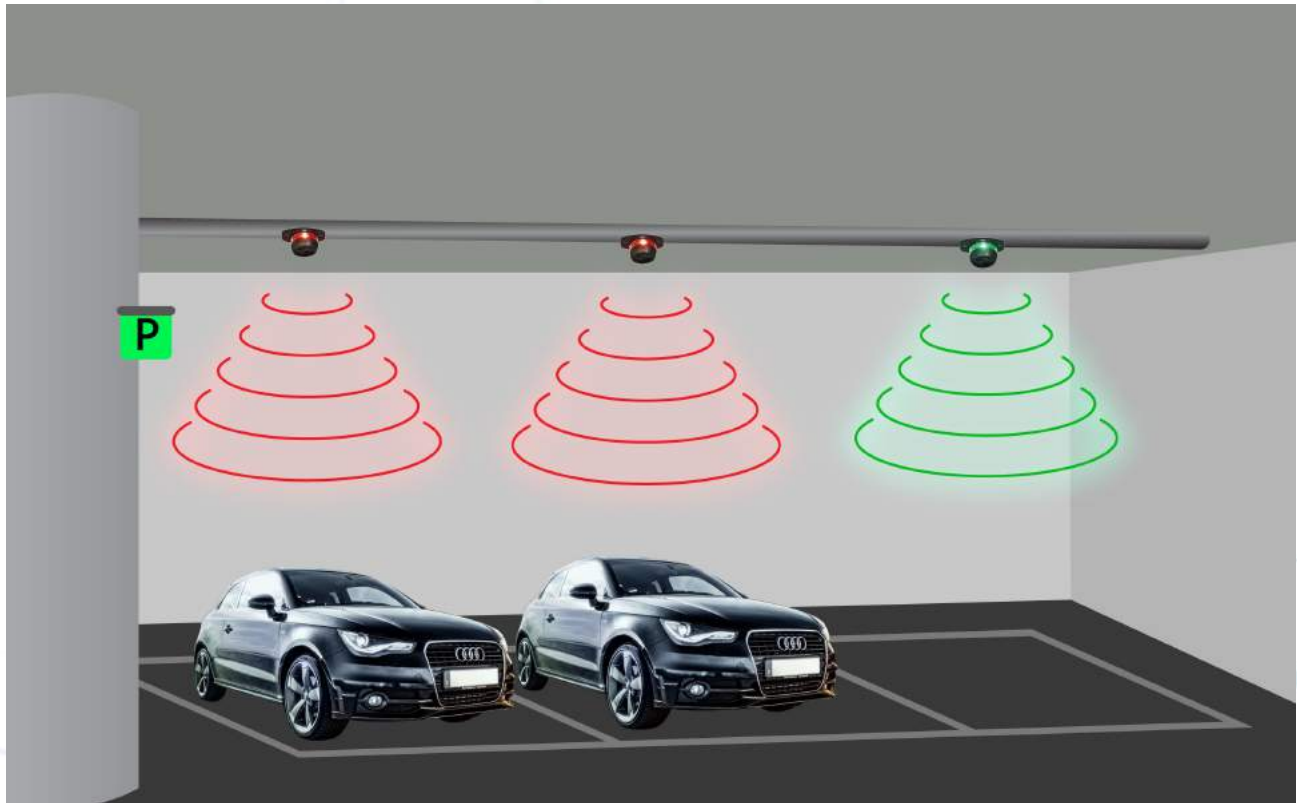
This is an ultrasonic system that detects the presence of other vehicles in the parking lot through an ultrasonic sensor.



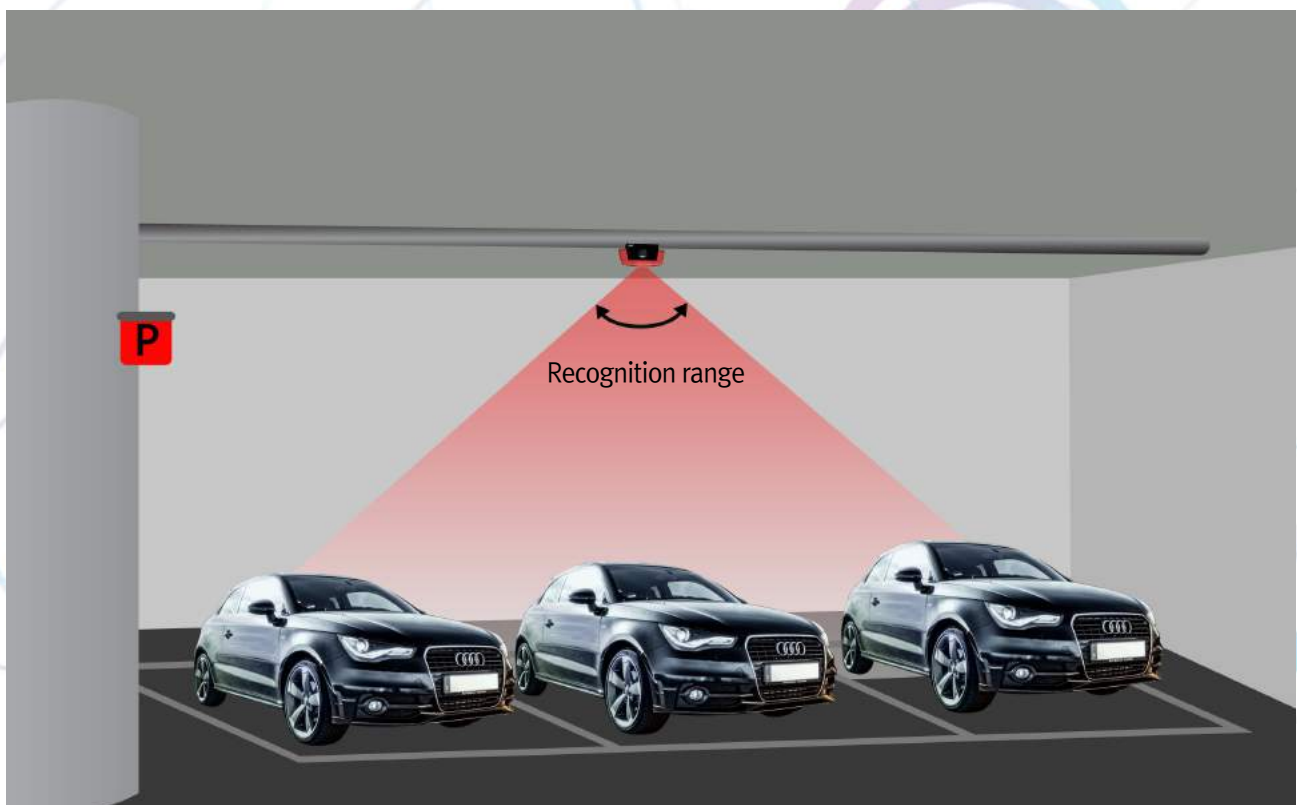
Guidance Control System

- ✓ Detecting presence of vehicles in parking lots!
- ✓ LED display parking location guide!
- ✓ Quick parking guidance!





An ultrasonic sensor system detects the presence of vehicles in the parking lot and displays them in color.



An image guidance system detects the presence of vehicles in the parking lot within a range and displays them in color.

01. One-way Image Guidance Parking Lot Camera



One camera can recognize up to three lots and quickly guides the driver to park by monitoring and saving photos of entire zones for 24 hr.

Specifications and features

- **Input voltage:** PoE 36~56V DC
- **Image sensor:** 1/2.5 Color 5M CMOS (5 million pixels)
- **Power consumption:** About 7 W (including the parking status indicating lamp)
- **Communication:** 100M Ethernet
- **Minimum illumination:** 1.2 ~ 1Lux @ F1.2
- **Synchronization:** Internet Trigger
- **S/N Ratio:** 38dB
- **Shutter speed:** Auto
- **Frame:** 1.3 million pixels 5 fps (up to 10 fps)
5 million pixels, 1 image per 2 sec (up to 1 fps)
- **Form:** Raceway-attachment type, Raceway TWO LINE
- **Video:** H.264
- **Vehicle image:** JPEG
- **Recognition range:** Three lots per vehicle

- A guide for an empty parking space and full/empty status of the parking lot.
- 24-hr monitoring and saving for entire zones.
- Solves compensation expenses using saved photos as evidentiary materials in case of an accident.
- Saved information on time and photos can be used as various statistics.

02. Omnidirectional Image Guidance Parking Lot Camera



One camera can recognize up to six lots and quickly guides the driver to park by monitoring and saving photos of entire zones for 24 hr.

Specifications and features

- **Input voltage:** PoE 36~56V DC
- **Image sensor:** 1/2.5 Color 5M CMOS (5 million pixels)
- **Power consumption:** About 7 W (including the parking status indicating lamp)
- **Communication:** 100M Ethernet
- **Minimum illumination:** 1.2 ~ 1Lux @ F1.2
- **Synchronization:** Internet Trigger
- **S/N Ratio:** 38dB
- **Shutter speed:** Auto
- **Frame:** 1.3 million pixels 5 fps (up to 10 fps)
5 million pixels, 1 image per 2 sec (up to 1 fps)
- **Form:** Raceway-attachment type
- **Video:** H.264
- **Vehicle image:** JPEG
- **Recognition range:** Max Six lots

- A guide for an empty parking space and full/empty status of the parking lot.
- Searches for drivers' parking location and shows the route using LPR.
- 24-hr monitoring and saving for entire zones.
- Solves compensation expenses using saved photos as evidentiary materials in case of an accident.
- Saved information on time and photos can be used as various statistics.

03. Geomagnetic Sensor



The Geomagnetic Sensor is installed in each parking lot and transmits the parking status information through wireless communication.

Specifications and features

- **Form:** Wireless vehicle detector
 - **Communication:** 2.4 (GHz) Radio Frequency (RF) communication
 - **Communication distance:** SINK@30~40(m)
-
- Easy laying, reduction of construction time, reduction of people's installation, and minimization of road wear.
 - Installable in all areas regardless of ground and basement as well as indoor and outdoor.
 - Excellent energy efficiency with low power communication, high reliability, and safety.

04. Ultrasonic Sensor



The Ultrasonic Sensor is installed in every parking lot that needs to be managed and sends signals to the sensor controller by detecting the presence of other vehicles in the parking lot using ultrasonic waves.

Specifications and features

- **Sensor type:** Transmit / Receive separable type
 - **Form:** Raceway-attachment type
 - **Sensing accuracy:** 99% or higher
 - **Exterior material:** Flame-resistant ABS
-
- A guide for an empty parking space and full/empty status of the parking lot.
 - Real-time parking status management in the parking lot and display of various graphs for parking lots.
 - Easy installation and maintenance without separate communication lines by selecting the communication method of nonpolar two-wire direct current (DC) power line.

05. Main Controller



The Main Controller is controls parking lot sensors, vehicle presence indicating lamp, and available parking space indicator and transmits parking lot status data to the parking guidance server.

Specifications and features

- **Input voltage:** AC220V/50~60Hz
 - **Communication:** RS422/485, RS232
 - **Data transmission distance:** 1.5 km
 - **Structure:** Main body, Monitor, keyboard
 - **Specification:** Intel Core i3 7300, HDD 1TB, RAM 8G, 19-inch wide monitor, and Window 7 or higher
-
- Controls the Section Controller Module (SCM) and the Electronic Data Management (EDM) by interworking with the parking guidance program.
 - Connected with the parking guidance program and Transmission Control Protocol (TCP) / Internet Protocol (IP) network.
 - Connected to external equipment that requires control such as SCM via RS 485 communication lines.
 - Easy operation and operational status check with a touch screen LCD panel.

06. Parking Lot Sensor Controller



The Parking Lot Sensor Controller transfers parking information to the parent parking guidance server by detecting vehicles and calculating the number of available parking spaces in the parking lot using ultrasonic sensors, as well as provides parking information to parking status indicating lamp, guidance indicator board by levels, and zone guidance LED display and controls them.

Specifications and features

- **Power supply:** DC 24 V (DC 13 V ~ DC 28 V), 185 W,
Mounted with separate power supply
 - **Service environment:** -30°C ~ 60°C, Humidity 10 % ~ 90 % (No condensation)
 - **Power consumption:** 4.8 W (DC 24 V, 200 mA)
-
- Controls each apparatus by interworking with the ultrasonic sensor, parking space indicating lamp, and the LED display by levels and controls each apparatus.

07. Parking Guidance Management Server (Rack Type)



The Parking Guidance and DB Server allow an administrator to check for the presence of other vehicles in the corresponding parking lot and the parking location of a specific vehicle and monitor a parking lot.

Specifications and features

- **Power supply:** AC 220V / 60Hz
- **Power consumption:** 450W(Max)
- **Service environment:** -10°C ~ 50°C, 10 ~ 70%
- **Structure:** Main body, Monitor, keyboard, Mouse
- **Specification:** Intel Core i7 7700, SSD 512GB, RAM 16G, 19-inch wide monitor, and Window 10 or higher

- Mapping for the serial number of the parking lot and license plate of a vehicle.
- Displays alarms for equipment failure and allows an administrator to manage history.
- Displays the number of available parking spaces for each level.
- Selects a parking lot and manages parking hours and parking status by vehicles.

08. Guidance Indicator Board

◀◀ 101동 102 103동 ▶▶

◀◀ A동 B동 C동 ▶▶

The Guidance Indicator Board is installed at a crossroad in the parking lot, and displays direction that indicates arrows in high-intensity LED for safe driving and quick vehicle traffic flow.

Specifications and features

- **Form and structure:** Ceiling type (cross-sectional structure)
- **Exterior material:** Aluminum extrusion with a thickness of 1.2 mm or more
- **Power supply:** AC 220V / 60Hz
- **Character display:** Blue sheet in a white acrylic base (negotiable)
- **Size:** 1,300 (W) × 250 (H) × 60 (D) mm (Built-in LED lighting)
- **Power consumption:** 25 W

- Breaks the structure of existing fluorescent lamp and manufactures a simple structure using the LED light source.
- A structure that can be easily recognized from a distance.
- Has higher illuminance and lower power consumption compared to the brightness of existing fluorescent lamps.

09. Zone Guidance LED Display



The Zone Guidance LED Display is installed at the vehicle entry and guides drivers faster by informing the number of available parking spaces in the corresponding parking zone.

Specifications and features

- **Form:** Self structure
 - **Power supply:** AC90~132V/180~264V, 50/60Hz(44~440Hz)
 - **Service environment:** -25°C ~ 75°C, Humidity 90% or less
 - **Exterior material:** SPCC 1.2t
 - **Display element:** LED
 - **LED module color:** Three colors
 - **Communication:** RS485
- Guides the entry direction of vehicles and displays the number of available parking spaces when a vehicle enters the corresponding level.
 - Displays the number of available parking spaces in numbers and characters through guide indicator boards in each level.

10. Parking Status Indicating Lamp



The Parking Status Indicating Lamp is installed in the parking lot and provides the full/empty status of parking information to drivers in real time by displaying the parking availability in green or red LED.

Specifications and features

- **Form:** Ceiling type, column, and wall-mounted type
 - **Display type:** High-intensity LED
 - **Power supply:** DC12
 - **Exterior material:** LED light guided plate (acrylic)
 - **Size:** 180(W) x 180(H) x 10(D), Display
 - **Communication:** Interworking with parking lot sensors and Relay Contact 2 Point
 - **Display:** Supports green, blue, red, and PWD marks
- Handicapped parking lot can be displayed in blue.
 - Enables drivers to easily recognize LED light.



Road Security Camera

The system offers security service by recognizing the license plate on the road. It recognizes the license plates of driving vehicles during day and night. In addition, it can capture images and videos in real time using CCTV cameras, and saves transmitted data in the network video recorder (NVR).

- Real-time video capture and recording
 - Data storage
 - 24 hr surveillance
 - Remote control
- DB statistics and report



01. Road Security Camera



The road security camera is installed on roads and sends information in real time by recognizing the license plates of driving vehicles.

Specifications and features

- **Size:** 220(W)x450(D)x200(H)
 - **Image sensor:** 1/1.8Type 3M CMOS
 - **Pixel:** 2,048(H)x1,536(V) 3.15M pixels
 - **Scan mode:** progressive
 - **Lens:** 10–100mm(10x Varifocal Lens)/F1.4
 - **Point-blank range:** 1.5M(Min), C-Mount
 - **IR LED:** Maximum night vision: 20M(Vehicle speeds within 70km/h), 100M(security)
 - **Service environment:** -20°C~55°C, Humidity within 90%
 - **Fan:** IR LED ON, IR LED OFF
(Pan - tilt - zoom (PTZ) motion sync/Program setup)
 - **Power supply:** 220V AC/24V DC, 5A
-
- Real-time transmission of the captured images of license plates
 - Design operable in poor external environments (Rain, dust, and others)

02. Housing camera



The progressive complementary metal-oxide semiconductor (CMOS) image sensor has been adopted to obtain clearer, high-definition image information. A minimum illumination of 0.001 lux enables it to obtain the best color image information in dark environments or at night.

Specifications and features

- **Size:** 161.6mm X 85.5mm X 74.0mm
 - **Image sensor :** 1/2.8" 3Megapixel progressive scan STARVIS™ CMOS
 - **Zoom:** 16x
 - **Video compression:** H.265/H.264 triple-stream encoding
 - **Transmission speed:** 50/60fps@3M(2048×1536)
 - **Lens:** - 4 MEGA PIXEL 2.7–12mm Lens
 - **Power supply:** DC12V, AC24V, PoE(802.3af)(Class 0)
 - **Interoperability:** ONVIF, PSIA, CGI
-
- Obtains high-quality image and video information in dark environments by applying the best backlight compensation
 - Offers the best quality among box cameras by applying the best backlight compensation
 - Design operable in poor external environments (Rain, dust, and others)
 - Available in various places and can easily be installed

03. Speed dome camera



The speed dome camera, which applies Predictive Focus Algorithm (PFA), always maintains clear focus when zooming in and out, thereby providing clearer images. It also delivers the best image quality under various lighting conditions at night.

Specifications and features

- **Size:** $\varnothing 209(\text{mm}) \times 337.4(\text{mm})$
 - **Image sensor:** 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
 - **Zoom:** 25x
 - **Video compression:** H.265+/H.265/H.264+/H.264
 - **Transmission speed:** Max. 50/60fps@1080P
 - **Power supply:** AC24V/3A($\pm 25\%$), PoE+(802.3at)
 - **Lens:** 4.8mm~120mm
 - **Backlight compensation:** | BLC / HLC / WDR(120dB)
 - **Day/Night:** | Auto(ICR) / Color / B/W
-
- Face recognition and intrusion detection
 - Accurate and clear focus
 - Available in various places
 - Smart exterior design that blends in everywhere

04. Dome camera



The motorized dome camera has the best quality and efficiency for the price, and is the easiest to install indoors. It has adopted the SONY CMOS image sensor, enabling it to obtain the best color image information in dark environments or at night.

Specifications and features

- **Size:** $\varnothing 159.1\text{mm} \times 117.9\text{mm}$
 - **Image sensor:** 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
 - **Zoom:** 25x
 - **Video compression:** H.265/H.264 triple-stream encoding
 - **Transmission speed:** 50/60fps@1080(1920×1080)
 - **Power supply:** DC12V, AC24V, PoE+(802.3at)(Class 4)
 - **Lens:** 4.8mm~120mm
 - **Backlight compensation:** | BLC / HLC / WDR(120dB)
 - **Day/Night:** | Auto(ICR) / Color / B/W
-
- Face recognition and intrusion detection
 - Accurate and clear focus
 - Available in various places
 - Smart exterior design that blends in everywhere

05. NVR



The NVR is a high-end network recorder that supports images of up to 4K resolution.

Specifications and features

- Size: 440mm×450.1mm×95mm
 - Main Processor | ARM Quad-core CPU
 - IP Video input: 16CH
 - Transmission speed: 320Mbps / 320Mbps
 - Decoding: 4CH@4K / 16CH@1080P
 - HDD: 8 X 10TB
 - Ethernet: 2G Port
 - USB | 4EA USB 2.0
 - Operating temperature: -10°C ~ +55°C (+14° F ~ +131° F), 86 ~ 106kpa
-
- Max 12MP resolution real time / Play
 - 2 HDMI/VGA Sync output
 - RAID 0/1/5/6/10

KC | Korea certification

KC-Road Security Camera

방송통신기자재등의 Registration of Broadcasting and Communication Equipment	
상호 또는 상품명 Trade Name or Registered Name	(주)에스씨비
기자재명칭(제품명칭) Equipment Name	초소형방화 카메라
기본모델명 Basic Model Number	ST-SEC-A
파생모델명 Derivative Model Number	
등록번호 Registration No.	R-RS-45W-STSEC-A
제조자(제조국명)국가 Manufacturer/Country of Origin	(주)에스씨비 / 한국
등록연월일 Date of Registration	2019-04-23
기타 Others	
위 기지재는 「전자파」 제58조제2 제3항에 따라 It is verified that foregoing equipment has been registered Waves Act.	
국립전파연구원 Director General of National Radio Research Agency	

KC-Housing camera

방송통신기자재등의 Registration of Broadcasting and Communication Equipment	
상호 또는 상품명 Trade Name or Registered Name	(주)에스씨비
기자재명칭(제품명칭) Equipment Name	비무선방화 카메라
기본모델명 Basic Model Number	ST-HSC
파생모델명 Derivative Model Number	
등록번호 Registration No.	R-RS-45W-STHSC
제조자(제조국명)국가 Manufacturer/Country of Origin	(주)에스씨비 / 한국
등록연월일 Date of Registration	2019-04-23
기타 Others	
위 기지재는 「전자파」 제58조제2 제3항에 따라 It is verified that foregoing equipment has been registered Waves Act.	
국립전파연구원 Director General of National Radio Research Agency	

KC-Speed dome

방송통신기자재등의 Registration of Broadcasting and Communication Equipment	
상호 또는 상품명 Trade Name or Registered Name	(주)에스씨비
기자재명칭(제품명칭) Equipment Name	스피드 돔
기본모델명 Basic Model Number	ST-SPD
파생모델명 Derivative Model Number	
등록번호 Registration No.	R-RS-45W-STSPD
제조자(제조국명)국가 Manufacturer/Country of Origin	(주)에스씨비 / 한국
등록연월일 Date of Registration	2019-04-23
기타 Others	
위 기지재는 「전자파」 제58조제2 제3항에 따라 It is verified that foregoing equipment has been registered Waves Act.	
국립전파연구원 Director General of National Radio Research Agency	

KC-Dome camera

방송통신기자재등의 Registration of Broadcasting and Communication Equipment	
상호 또는 상품명 Trade Name or Registered Name	(주)에스씨비
기자재명칭(제품명칭) Equipment Name	돔 카메라
기본모델명 Basic Model Number	SHD1041
파생모델명 Derivative Model Number	ST-DMC
등록번호 Registration No.	R-RS-45W-STDMC
제조자(제조국명)국가 Manufacturer/Country of Origin	(주)에스씨비 / 한국
등록연월일 Date of Registration	2019-04-23
기타 Others	
위 기지재는 「전자파」 제58조제2 제3항에 따라 It is verified that foregoing equipment has been registered Waves Act.	
국립전파연구원 Director General of National Radio Research Agency	

KC-NVR

방송통신기자재등의 Registration of Broadcasting and Communication Equipment	
상호 또는 상품명 Trade Name or Registered Name	(주)에스씨비
기자재명칭(제품명칭) Equipment Name	NVR
기본모델명 Basic Model Number	SHN816
파생모델명 Derivative Model Number	ST-MVR
등록번호 Registration No.	R-RS-45W-STNVR
제조자(제조국명)국가 Manufacturer/Country of Origin	(주)에스씨비 / 한국
등록연월일 Date of Registration	2019-04-23
기타 Others	
위 기지재는 「전자파」 제58조제2 제3항에 따라 It is verified that foregoing equipment has been registered Waves Act.	
2019년 04월 23일(Month 25 Day) 국립전파연구원장 Director General of National Radio Research Agency	

Major results

Jeonju Facilities Management Corporation	Nakseongdae Science Park	Anyang Metro Hospital
Mokpo Regional Office of Oceans and Fisheries	Sadaong Cultural Center	Jeonju Korea Hospital
Jeonju Health Center	Seoul Museum of Art	Jeonju Hyundai Radiology Clinic
Flower Market	Buan-gun County Office	Chung-Ang University Hospital
Korea Agro-Fisheries & Food Trade Corporation	Seoul Arts Center	Korea Institute of Radiological & Medical Sciences
Daechi-dong Cultural & Welfare Center	Olympic Memorial Civic Center	Chosun University Dental Hospital
Gunsan Regional Office of Oceans & Fisheries	Suwon Yeongtong-gu Office	Dongguk University Ilsan Hospital
Jongno-gu Office	Suwon Stadium	Incheon Sarang Hospital
Seongnam Jungwon-gu Senior Social Services Center	Giheung-eup Office	Korea University Guro Hospital
Bundang-gu Car Registration Office	Gwangmyeong Social Services Center	Ewha Mokdong Hospital
Uijeongbu Chu-dong Library	Anyang City hall	Jasan Medical Foundation
Eunpyeong-gu Office	Jeollabuk-do Provincial Office	Cham Hospital
Jeongeup City Hall	Jindo National Gugak Center	Himchan Hospital
FKI (Federation of the Korean Industries) Tower	Teachers' Pension	Wongkwang Hyodo Medical Care Hospital
Jungnang Sewage Treatment Center	Daejeon Doosan branch	Jeonju Seongsim Girl's Middle School
Hyochang Stadium	Nakseongdae Hyundai Apartment	Jeonju CGV Movie Theater
KOTRA Seoul Trade Exhibition & Convention	Jinju City Hall	Bong-dong National Agricultural Cooperative Federation
Gyeonggi Cultural Foundation	Seogyo-dong Daea Apartment	Jeonju National University of Education
Byeoksan Apartment	Jeonju Songcheon-dong Wellga Apartment	Sori Arts Center of Jeollabuk-do
Gwangmyeong Jungang Heights Apartment	Geonsancheon Parking Lot	Iksan Northern Market
Jeonju City Hall	Jeonbuk Veterans Hall	Jeonju Sungsim Girl's High School
Dorim Chung-gu Apartment	Woomi Lynn Apartment	Kunsan Girl's High School
KBIZ Korea Federation of SMEs	Jeonju Family Mart	Jeonju Okto Parking Lot
National Library of Korea	Seongnam Yeil Hospital	Chimyeongjasan Parking Lot



Jinju City Hall



Jesus Hospital



Gunsan Medical Center

※ In addition to foregoing cases, ST-1 has about 782 results or more.

Licenses

Certificate of Business Registration(Head)

사업자등록증
(법인사업자)
등록번호: 402-81-89874

본인명(단체명): (유)에스티원
대표자: 윤재민

계업연월일: 2011년 01월 26일 | 법인등록번호: 210114-0075321
사업장소재지: 전라북도 전주시 덕진구 신북로 118, 1층(유흥동4가)

본점소재지: 전라북도 전주시 덕진구 신북로 118, 1층(유흥동4가)

사업의종류: [표준] 제조업 [등록] 주차관리시스템
제조업: 한국정보통신기술연구원(주) (정보통신사업)
정보통신사업: 정보통신사업
제조업: 한국정보통신기술연구원(주) (정보통신사업)
정보통신사업: 정보통신사업
제조업: 한국정보통신기술연구원(주) (정보통신사업)
정보통신사업: 정보통신사업

발급사유: 변경

사업자등록과세 적용사유: 없음 () 부(V)
전자세금계산서 전용 문자번호: cho16675@hometax.go.kr

2018년 12월 17일

북전주세무서장

Certificate of Authorization for Industrial R&D Center

[유지번호: QWKE-WORK-REFIT-WAFI] [발급일자: 2017년 02월 09일]

제 2017110632 호

기업부설연구소 인정서

1. 연구소명: (유)에스티원 기업부설연구소
[소속기업명: (유)에스티원]

2. 소재지: 전라북도 전주시 덕진구 신북로 118 1층(유흥동4가)

3. 신고연월일: 2017년 02월 07일

미래창조과학부

「기초연구진흥 및 기술개발지원에 관한 법률」 제14조, 같은 법 시행령 제16조제1항 및 제27조제1항에 따라 위와 같이 기업부설연구소로 인정합니다.

2017년 2월 8일

한국산업기술진흥협회장

Registration of Information and Communication Contractors Business

제 630204 호

정보통신공사사업등록증

상호: 유한회사 에스티원
대표자: 윤재민 | 생년월일(법인등록번호): 210114-0075321
영업소재지: 전라북도 전주시 덕진구 신북로 118, 1층(유흥동4가)
등록연월일: 2018년 05월 13일

「정보통신사업법」 제14조에 따라 정보통신사업 등록하였음을 증명합니다.

2018년 06월 01일

전라북도지사

Membership of Information and Communication Contractors Business

제 전0459 호
Document No.

회원증
Certificate of Membership

업종: 정보통신공사업
Business Line: Information And Communication Contractors Business

등록번호: 630204
Registration No.

상호: 유한회사 에스티원
Name of company

대표자: 윤재민
Representative

위 업체는 정보통신공사법 제42조 및 우리 협회 정관 제8조의 규정에 의한 회원임을 증명함

This is to certify that the above-mentioned company is a duly accredited member of the Korea Information And Communication Contractors Association in accordance with Art. 42 of the Information And Communication Construction business Act and Art. 8 of the Regulations of this association.

2016년 05월 31일
Year Month Day

한국정보통신공사협회장
Chairman Korea Information & Comm. Contractors Association

Certificate of Direct Production (Parking System)

[별지 제3호서식]

제 2018-0129-00033 호

직접생산확인증명서

○산업군: 기계
○제품명: 주차장치
○생산업체명: (유)에스티원
○사업자번호: 402-81-89874
○대표자성명: 윤재민
○소재지(본사): 전라북도 전주시 덕진구 신북로 118 1층 에스티원 (공장) : [402-81-89874] 전라북도 전주시 덕진구 신북로 118 2층 에스티원(유흥동4가)

※ 뒷면 「생산공장 목록」에 계속

○유효기간: ※ 불입의 세부명명별 유효기간 참조

「중소기업제품 구매촉진 및 판권지원에 관한 법률」 제9조제4항 본문 및 같은 법 시행규칙 제5조제3항에 따라 위와 같이 직접생산을 증명합니다.

출력일자: 2018년 08월 13일

중소기업중앙회장

※ 유의사항(별첨표지)
① 해당생산 제품 또는 다른 유사 판제품 등 직접생산하지 아니한 제품, 직접생산한 판제품에 다른 회사 상표 부착제품 납품금지
② (위반시, 모든 중소기업과 경쟁제품 직접생산확인 취소 및 6개월간 생산정지 조치, 형사처벌)
③ 생산품의 입하, 제작 등 직접생산확인일은 제출후 30일 이내에 증명서 반납
④ (미 반납시, 해당제품 직접생산확인 취소 및 6개월간 생산정지 조치)
⑤ 직접생산확인받은 중형의 이면지 30일 이내 증명서 반납시 직접생산확인 취소
※ 이 증명서는 중소기업제품 구매촉진 및 판권지원법(www.smepp.go.kr)을 통해 출력(2018-08-13 11:57)한 증명서로서 등 정외에서 출력여부를 확인하실 수 있습니다.
1/3

Certificate of direct production (software development)

[별지 제3호서식]

제 2018-0071-05427 호

직접생산확인증명서

○산업군: 기타
○제품명: 생산업무(소프트웨어개발)
○생산업체명: (유)에스티원
○사업자번호: 402-81-89874
○대표자성명: 윤재민
○소재지(본사): 전라북도 전주시 덕진구 신북로 118 1층 에스티원 (공장) : [402-81-89874] 전라북도 전주시 덕진구 신북로 118 2층 에스티원(유흥동4가)

※ 뒷면 「생산공장 목록」에 계속

○유효기간: ※ 불입의 세부명명별 유효기간 참조

「중소기업제품 구매촉진 및 판권지원에 관한 법률」 제9조제4항 본문 및 같은 법 시행규칙 제5조제3항에 따라 위와 같이 직접생산을 증명합니다.

출력일자: 2018년 12월 13일

중소기업중앙회장

※ 유의사항(별첨표지)
① 해당생산 제품 또는 다른 유사 판제품 등 직접생산하지 아니한 제품, 직접생산한 판제품에 다른 회사 상표 부착제품 납품금지
② (위반시, 모든 중소기업과 경쟁제품 직접생산확인 취소 및 6개월간 생산정지 조치, 형사처벌)
③ 생산품의 입하, 제작 등 직접생산확인일은 제출후 30일 이내에 증명서 반납
④ (미 반납시, 해당제품 직접생산확인 취소 및 6개월간 생산정지 조치)
⑤ 직접생산확인받은 중형의 이면지 30일 이내 증명서 반납시 직접생산확인 취소
※ 이 증명서는 중소기업제품 구매촉진 및 판권지원법(www.smepp.go.kr)을 통해 출력(2018-12-13 11:57)한 증명서로서 등 정외에서 출력여부를 확인하실 수 있습니다.
1/3

Korea certification-Vehicle Damage Scanner

방송통신기자재등의 적합등록 필증 Registration of Broadcasting and Communication Equipments	
상호 또는 상품명 Trade Name or Register	(유)에스티원
기자재명칭 Equipment Name	4면촬영카메라
기본모델명 Base Model Number	ST-PC
과제모델명 Spec Model Number	
등록번호 Registration No.	M3IP-BEEM-aw-ST-PC
제조자(제조(조립)국가) Manufacturer/Country of Origin	(유)에스티원 / 한국
등록연월일 Date of Registration	2015-08-21
기타 Others	

위 기지재는 「전파법」 제58조제2 제3항에 따라 등록되었음을 증명합니다.
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2015년 (Year) 08월 (Month) 21일 (Date)

국립전파연구원장
Director General of National Radio Research Agency

* 적합등록 필증(합격)은 전파법 제58조제2 제3항에 따라 등록되었음을 증명합니다.
본 필증의 유효기간은 등록일로부터 5년입니다.
본 필증의 유효기간 만료 시 재등록을 하여야 합니다.

Korea certification-Autopay Station

방송통신기자재등의 적합등록 필증 Registration of Broadcasting and Communication Equipments	
상호 또는 상품명 Trade Name or Register	(유)에스티원
기자재명칭 Equipment Name	무선충전결제기
기본모델명 Base Model Number	ST-APO
과제모델명 Spec Model Number	ST-MFC
등록번호 Registration No.	M3IP-BEEM-aw-ST-APO
제조자(제조(조립)국가) Manufacturer/Country of Origin	(유)에스티원 / 한국
등록연월일 Date of Registration	2015-08-21
기타 Others	

위 기지재는 「전파법」 제58조제2 제3항에 따라 등록되었음을 증명합니다.
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2015년 (Year) 08월 (Month) 21일 (Date)

국립전파연구원장
Director General of National Radio Research Agency

* 적합등록 필증(합격)은 전파법 제58조제2 제3항에 따라 등록되었음을 증명합니다.
본 필증의 유효기간은 등록일로부터 5년입니다.
본 필증의 유효기간 만료 시 재등록을 하여야 합니다.

Korea certification-LPR

방송통신기자재등의 적합등록 필증 Registration of Broadcasting and Communication Equipments	
상호 또는 상품명 Trade Name or Register	(유)에스티원
기자재명칭(제품명칭) Equipment Name	영상촬영(LPR)필증합성필증
기본모델명 Base Model Number	ST-LPR-10
과제모델명 Spec Model Number	ST-LPR, ST-BLPR, ST-WLPR, ST-LPR100
등록번호 Registration No.	M3IP-BEEM-aw-ST-LPR
제조자(제조(조립)국가) Manufacturer/Country of Origin	(유)에스티원 / 한국
등록연월일 Date of Registration	2015-08-21
기타 Others	

위 기지재는 「전파법」 제58조제2 제3항에 따라 등록되었음을 증명합니다.
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2015년 (Year) 08월 (Month) 21일 (Date)

국립전파연구원장
Director General of National Radio Research Agency

* 적합등록 필증(합격)은 전파법 제58조제2 제3항에 따라 등록되었음을 증명합니다.
본 필증의 유효기간은 등록일로부터 5년입니다.
본 필증의 유효기간 만료 시 재등록을 하여야 합니다.

Korea certification-Integrated Type LPR

방송통신기자재등의 적합등록 필증 Registration of Broadcasting and Communication Equipments	
상호 또는 상품명 Trade Name or Register	(유)에스티원
기자재명칭(제품명칭) Equipment Name	영상촬영(LPR)필증합성필증
기본모델명 Base Model Number	ST-PCB-A
과제모델명 Spec Model Number	ST-PCB/AD100, ST-PCB/AD200
등록번호 Registration No.	B-aw-STPCB
제조자(제조(조립)국가) Manufacturer/Country of Origin	(유)에스티원 / 한국
등록연월일 Date of Registration	2018-02-15
기타 Others	

위 기지재는 「전파법」 제58조제2 제3항에 따라 등록되었음을 증명합니다.
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2018년 (Year) 02월 (Month) 15일 (Date)

국립전파연구원장
Director General of National Radio Research Agency

* 적합등록 필증(합격)은 전파법 제58조제2 제3항에 따라 등록되었음을 증명합니다.
본 필증의 유효기간은 등록일로부터 5년입니다.
본 필증의 유효기간 만료 시 재등록을 하여야 합니다.

Obtained an Inno-Biz certification

기술혁신형 중소기업(Inno-Biz) 확인서	
제 1801001 - 00975 호	
업 계 명 : (유)에스티원	
대 표 자 : 유재민	
주 소 : 전북 전주시 덕진구 신북로 118 (팔복동4차) 1층 에스원	
등 급 : AA	
유효기간 : 2018. 11. 14 ~ 2021. 11. 13	
위 업체는 기술혁신형 중소기업 육성사업에 의해 선정된 기술혁신형 중소기업(Inno-Biz)임을 확인합니다.	
2018년 11월 14일	
중소벤처기업부장	

Certificate of Promising Small and Medium Enterprise

전라북도 인 증 서	
제 436 호	
전주시 덕진구 신북로 118 (유)에스티원	
위 회사를 2018년도 「전라북도 유망중소기업」으로 인증합니다. (인증기간 : 2018. 10. 19 ~ 2023. 10. 18)	
2018년 10월 19일	
전라북도지사 송 하 천	

Certificate of Quality Certification(Q-Mark)

품질인증(Q-Mark)지정서
Certificate of Quality Certification(Q-Mark)

회 사 명 : (주)에스티원
대 표 자 : 윤재민
주 소 : 전라북도 전주시 덕진구 신복로 118, 1층(광복동4가)

지정번호 : L151-2019-004
계약기간 : 2019. 05. 24. ~ 2020. 05. 23.
인증종목 : 주차관리시스템
모 델 명 : '꽃잎' 시리즈

품질인증 (Q-Mark) 운영규정에 적합한 인증제품을 생산하는 업체로 선정되어 품질인증 (Q-Mark) 업체로 지정합니다.

We give a certificate of Quality Certification (Q-Mark) to the enterprise producing the authentication product which is suitable for the operational regulation of Quality Certification (Q-Mark) Scheme.

2019년 05월 24일

KTCT 한국기계전자시험연구원
Korea Testing Certification

표지제일 : 2019년 05월 24일

Certificate of Venture Business

제 2019051300 호

벤처기업확인서

업 체 명 : (유한)에스티원
대 표 자 : 윤재민
소 재 지 : 전라북도 전주시 덕진구 신복로 118, 1층
확 인 유 형 : 기술형기대중기업(중견급)
평 가 기 관 : 중소벤처기업진흥공단
유 효 기 간 : 2019년5월30일 ~ 2021년05월29일

위 업체는 「벤처기업육성에 관한 특별조치법」 제25조의 규정에 의하여 벤처기업임을 확인합니다.

2019 년 05 월 30 일

KOSME 중소벤처기업진흥공단 이사장
중소벤처기업진흥공단





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1F, 44-18, Gwangwol-gil, Okgu-eup, Gunsan-si, Jeollabuk-do, Republic of Korea / zip code. 54172
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