SAMWOOTEK

SAMWOOTEK
LANKA (PVT)LTD.

Samwootek Lanka (Pvt) Ltd is a Korean based company with team of experienced Staff in Engineering and Marketing Industry. we operating since 2002 in korea. our company aims to offer a service where quality, efficiency and value are key fundanmentals

Environment-friendly design buildings

Wind farm

Regional EMS (Control center)

Smart Buildings linked through Regional EMS

Battery storage systems

MegaSolar

Next-generation vehicle center(operation center)

Smart House

Intelligent Transportation System (ITS)

Biomass fuels

Multi-energy station

TECHNOLOGY AT YOUR PLACE

EV car sharing

EV car sharing

Fibre Connectivity

Electric bus

Smart House

Small / Medium-scale Smart Buildings

Solar panel

Offshore wind farm

Multi-energy station

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SAMWOOTEK

OUR VISION

Become the leader in implementation of high-tech solutions and urban development projects in Asia Pacific region

OUR MISSION

Help to change lifestyle by introducing innovative new technologies, changing the industry from traditional way of thinking

INTRODUCTION

Our company was established in 2016. We have offices in Sri Lanka, Korea. We are providing service for Sri Lanka, Maldives, Bangladesh and Myanmar at present. Samwootek Lanka Private Limited is a professional service provider of new technologies. We have wide range of product and services. They are Guest Relationship Management Systems (GRMS), Video Door Phone, Reverse Osmosis (RO) plant, CCTV systems, and Access control systems. Also we are providing engineering services and installations for Extra Low voltage (ELV), Low Voltage (LV), Medium Voltage (MV) and High Voltage (HV) projects. Also we engage in urban development project with the collaboration of Garamspace Co. Ltd, Korea. The company has very abundant experience on Building services and devotes itself to the development and application on new technology, new techniques, and new materials, and devotes itself to contracting high, mega, complicated and sophisticated projects. Our teams of professionals are consisting of Engineering, Marketing and finance professionals. We have in house team is capable of deliver results. Also we are delivering projects incorporate with project management principles. We will continue to be a people oriented and faithful supplier offering technical supports and good customer services.

Company History

2015-2017
IOT Project Engineering Total Solution Provider

2013
SMART HOME BMS

2010
SRILANKA Monorail project coworker with Garamsfce

2002.09
SAMWOOTEK

1. Software (SiManager)

SiManager is HMI software optimized for integrated monitoring control of intelligent buildings based on user-friendly convenience, diversity and stability and it provides a more convenient and efficient building operation environment

2. Graphical Monitoring and Control (Graphic map)

3-Dimensional stereoscopic graphics enable realistic system monitoring control, by arranging thecamera image on the graphic screen, you can check the scene situation in real time.
A variety of methods can be used to create a highly readable graphical monitoring that fits your needs and objectives.

3. Text Monitoring and Control (Text map)

A text map is a system default map, consisting of a device tree for Device Manager and a user tree by user configuration.
Text maps can be conveniently used during real-time monitoring and control of individual or collective tag.
The operator can configure the text map tree according to the purpose and function.
You can set the tag's attributes, view the tag history and register the schedule for each tag.

4. Schedule setting and control (Schedule map)

Schedule can be set easily using calendar and time bar.
You can easily register a large number of schedules by using schedule groups such as holidays, weekdays, specific days and customization.
Using the individual schedule function, it is possible to centrally manage tag with characteristic according to usage.
You can copy and move schedule by drag & drop method.

5. Create Report (Report Map)

You can register and use various report forms (daily, weekly, monthly, and yearly) written in EXCEL.
Setting information (tag and target value) can be specified and used in each cell.
You can see the results of the registered report in preview form.
You can also set up and print the report file automatically using the automatic print function.
When setting the cell, you can easily and quickly set the expression value (minimum value maximum value, average value, accumulated value, etc.) of the tag by using the auto-increment function and cell copy function.

6. Real-time trend monitoring (trend map)

It compares and monitors the real-time values of tags registered by the operator in graph form.

The tag value is automatically reflected in the trend graph according to the collection period set by the operator.

It is possible to monitor 10 tags for each trend at the same time and it is easy to manage trends per group through a transaction.

By using the right Y axis, trends can be monitored simultaneously for two kinds of tags with different ranges, so it is possible to monitor analog and digital tags at the same time.
Past trends can be checked again using the display shift functiont

7. IP camera monitoring (camera map)

By registering the camera, you can monitor the situation on the spot by real-time video.

Provides functions such as moving the monitor position, zooming in / out, and saving and capturing video. Six types of screen configurations are possible using the cameras already registered in the camera settings for each group in the camera tree.

It is possible to register and use camera screen by drag & drop method.

Compatible with various IP cameras supporting RTSP and Onvif.

8. View Tag History

You can view the collected tag data by time or by day in graph and table form.

Analog points display minimum, maximum, average and home digital points hourly and daily cumulative uptime.

By adding up to 8 date and tag, you can compare by tag and date.

If you double-click the specific time zone of the graph that is displayed on the first day of each day, a detailed graph for each day of the day is displayed.

9. Alarm occurrence and inquiry

According to the alarm level and detailed classification, system operation status can be informed by various media (screen, printer, document, SMS) according to the user's setting, and alarm status is reported by voice (TTS).

It can be used for diagnosis and management of system status by using alarm history inquiry.

It shows the alarm history by process, event, and system can change alarm display by recognition and deletion processing.

You can use the filtering function to display only the set category and items.

10. User program (script)

SiScript is a user programming framework that can monitor and control all the points set in DvManager through programming techniques, thereby enhancing the diversity and flexibility of equipment operation.

Provides user-friendly programming methods by providing various types of script templates within the program.

Grammar checking and debugging functions are provided at the time of program to enable quick response to incorrect program logic written by the user

11. Device (Device Manager)

DvManager (Device Manager) is a device setting frame for setting device configuration of network ports of all devices, input / output definition for each device, local schedule input, and so on to perform independent functions of the device itself.

DvManager supports multiport architecture and supports various communication methods per port and protocols (SE-Net,CU-Net,DDE,MODBUS,OPC,XNET,BACnet) thus facilitating system integration for various devices including third party products.

12. Create control logic (logic builder)

Easily implement the logic and download it to the device via the graphical editing environment for the device (FCU.MCU) that can execute the control logic (about 100 standard-lines).
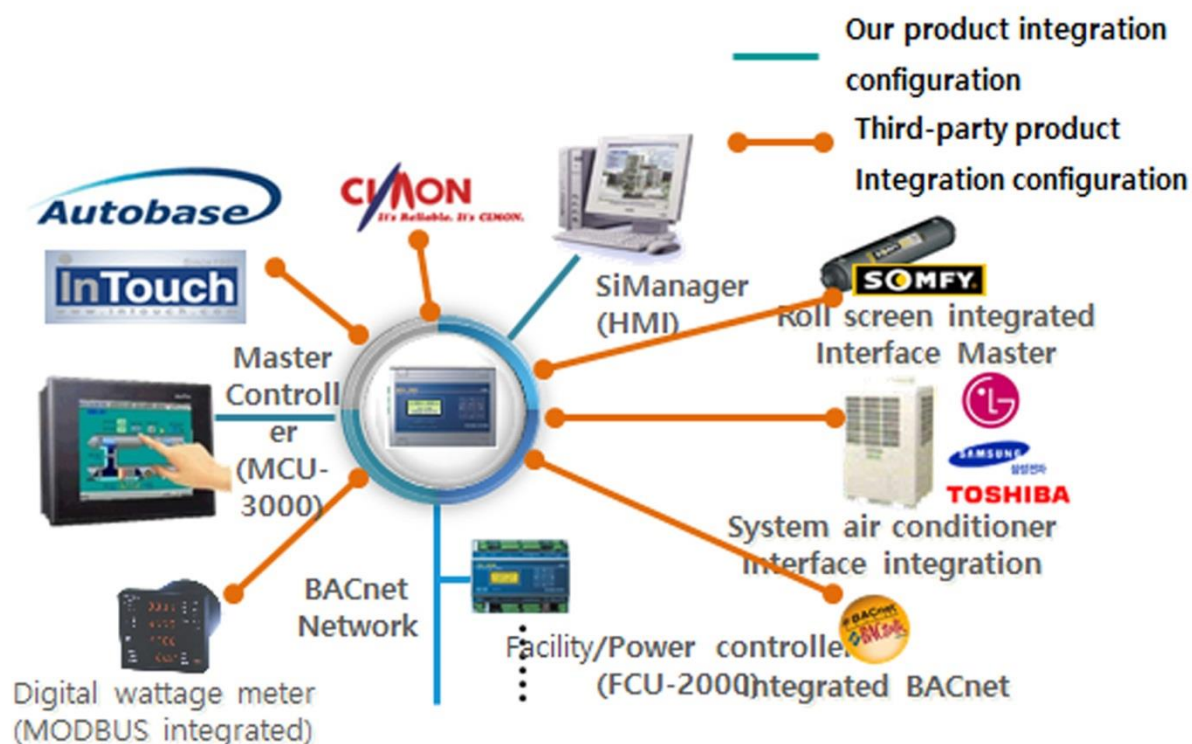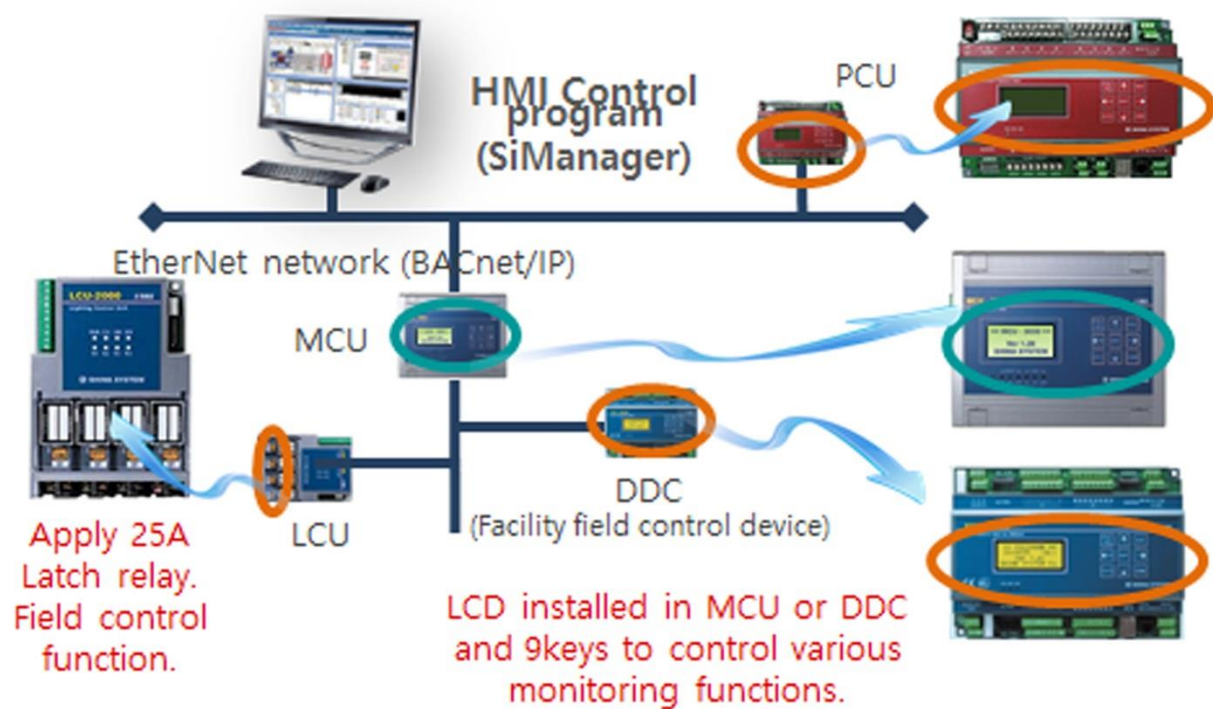
Real-time monitoring and tuning can be added together to verify the logic immediately. It implements control logic by drag & drop method easily using object (flat block, point, integer, real number, connecting line).

13. Blanket Device Management

BACNetManager is a B-AWS certified product that can search for and register devices supporting the BACNet protocol, register objects and object attributes of the BACNet device, and monitor and control the status of the BACNet device.

Connects with SiManager and DvManager to set, monitor and control the execution environment of the device.

HMI Control program (SiManager)

PCU

EtherNet network (BACnet/IP)

MCU

LCU

DDC
(Facility field control device)

Apply 25A Latch relay. Field control function.

LCD installed in MCU or DDC and 9keys to control various monitoring functions.

Our product integration configuration

Third-party product Integration configuration

Autobase

InTouch

CIMON
It's Reliable. It's CIMON.

SiManager (HMI)

SOMFY
Roll screen integrated Interface Master

Master Controller (MCU-3000)

LG
SAMSUNG
TOSHIBA
System air conditioner Interface integration

BACnet Network

Facility/Power controller (FCU-2000)

BACnet Integrated BACnet

Digital wattage meter (MODBUS integrated)

MCU(Master Control Unit)

Function

1. Up to 4,800 points in connection with SiManager
2. Time schedule function by built-in clock
3. Detailed environment setting by terminal (VT=100) function, UP/DOWN LOAD function of sys diagnosis and system setting data
4. Firmware Up-Grade function by adopting Flash Memory (Supports X-Modem)
5. Automatic time setting and data synchronization function with direct digital controller (FCU-2000)
6. Pass Word security function
7. Supported protocols : CU-NET, TCP/IT, BACnet, ModBus/ TCP and many 3'rd Party protocols

FCU(Field Control Unit)

Function

1. Direct monitoring and control functions for various facilities (Point Management)
2. Local setting and operation by built-in LCD and Keypad
3. Point quantity : Up to 160 points
   - Built-in: 32channels(AI:8/ BI:8/ AO:8/ BO:8)
   - Expansion module: Up to 8 XIM series can be connected
4. Communication function: Provides various upper and lower communication functions (LAN, RS-485, RS-232, etc.)
5. Various communication protocol support (CU-NET, Modbus, BACnet, Terminal,SMS)
6. Equipment control program creation and control function (Composed of about 90 types of function blocks)
7. Time schedule function (100 schedules, daily, weekly, monthly, annual schedule)
8. I/O type setting and change by simple setting (Ω, mA, V)
9. Security function and priority according to password control function
10. Data setting download, upload and firmware upgrade by computer

BMS Software (si manager)

Function

1. Upper communication (RS-485) redundancy support (A/B port auto switching function)
2. It is composed of main unit and spare unit and it supports CPU duplication function without interruption. It is also possible to operate independently (CPU automatic transfer function)
3. Direct monitoring and control functions for various facilities (Point Management)
4. Local setting and operation by built-in LCD and keypad
5. Communication function: Provides various upper and lower communication functions.
6. Various communication protocol support (CU-NET, MODbus, BACnet, Terminal, SMS)
7. I/O type setting and change by simple setting (Ω,mA, V)
8. Security function and priority according to password control function
9. Data setting download, upload and firmware upgrade by computer
10. Equipment control program creation and control function (Composed of about 90 types of function blocks)
11. Time schedule function (100 schedules, daily, weekly, monthly, annual schedule, Skip)
12. Dual data backup function of semi-permanent flash memory and flash memory and flash memory
13. Available points; Expansion of I/O points up to 128 points(8 XIM *16 points =128)

Function

1. Low-cost lighting control module with high-speed RISC CPU
2. Stability is secured by dispersion control of stand-alone type
3. Permanent storage of data by flash memory backup
4. Low-cost, Low-power consumption, self-diagnosis function
5. Built-in DIP switch allows independent individual, group and pattern setting (Stand Alone Configuration)
6. Simultaneous control of multiple relays is controlled at constant time intervals to prevent overload
7. Manual ON/OFF operation switch is built in the tip of the relay, so it can be directly ON/OFF operation in case of controller error.
8. Point of program switch direct registration function (Local Configuration Function)
9. Module Type with 25A Latch Relay (easy to install and easy to panel)
10. Up to 128 relays can be controlled by connecting four built-in relays and expansion modules (XRM-4A/4B/4D)
11. No additional circuit (built-in relay) is required and anyone can easily configure the lighting panel
12. Individual, group and pattern control can be specified by connecting program switched
13. Building master controller (MCU-5000/3000/2000) for the power system construction, the air conditioning, the plant and the integrated system
14. Maximum usage point: Max 31 XRM-4A/4B connections (128Relays)
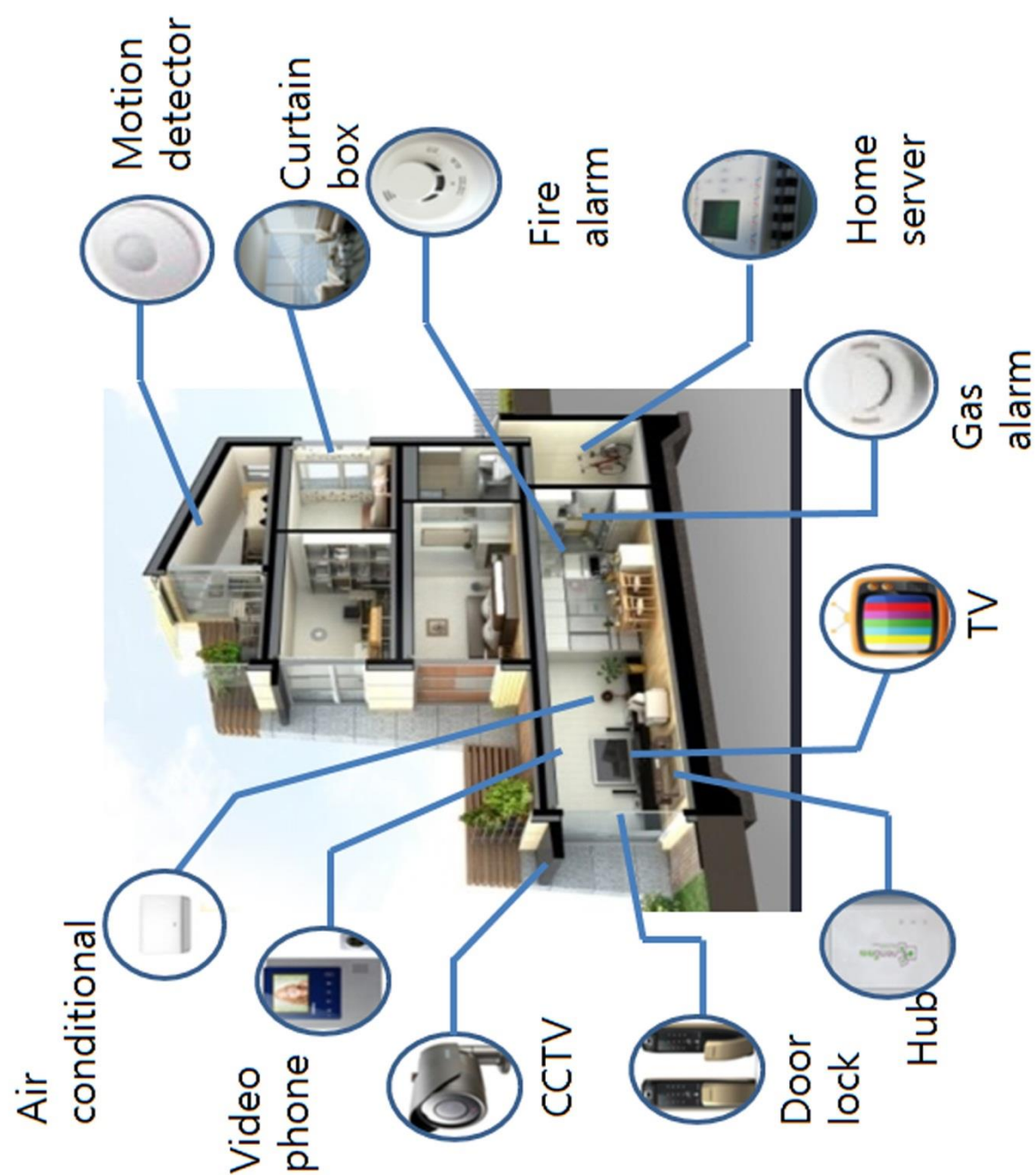15. Max 32 Switch Module (PSM 1 to 4)

Function

1. Maximum demand power control (DC: Cemand Control)
2. KEPCO Certification and Grant Support Products
3. Expansion through communication (DCU-3000, etc.)
4. Built-in LCD and key buttons
5. Providing additional functions through software
6. Set and manage each target power by season, time and holiday according to the fare system and the situation of the customer
7. DLC: Direct Load Control
8. Integrated system can be built in connection with building automatic control system
9. Individual and 8 groups of load control function (built-in, using active module)
10. Self-diagnosis function
11. Integrated wired / wireless system
12. Can establish communication I/F with Samsung / LG / Toshiba (Carrier) / Sanyo / Mitsubishi/ Hitachi / Aisin etc

Expansion modules (XIM-series)

Function

1. Communication: RS-485
2. Communication distance: 1.2km
3. Transfer rate: 9,600bps
4. Energy Management program execution function
5. Control point : AI:8, DI:8 (for XIM-ABI 8A), DI:8, DO:8 (for XIM-BIO 8A)
6. Module type : 9

Motion detector

Curtain box

Fire alarm

Home server

Gas alarm

TV

Air conditional

Video phone

CCTV

Door lock

Hub

HUB(Main IoT devices)

Main Function
This Device connects all of the Internet of things (IoT) to offer Internet access

Product Features
Connecting the lines to router with out of need for complicated network configuration.
Using a number of IoT devices, in one installation.
IoT devices connect multiple wireless no wiring is required.
SMS-based technology used to ensure the openness and scalability, such as kakao talk.

The products what you can use with IoT devices (HUB)
Houses and garden lighting switches, Thermostats, each room thermostats, Consents, Universal Controller, Gas valve and security devices

The Specifications of the product
Model: DJ201
Processor: MediatekRT5350F (300MHz, 32BIT CPU)
Memory: DRAM 32Mb
Flash Memory: 16Mb
Size: 113*78*25(mm)
Wired network: 1 Port, 10/100MbpsWAN
    Cable supports auto-detection
Wireless Network: 424.7MHz
    (Band wireless network)
Power: DCSV1A (Power consumption less than 2W)
Operating temperature: 0-045'c
Certification number: MSIP-CRM-H17-DJ201

Electrical outlet

Main Function
Outlet is connected to the smartphones, it confirms the power consumption measurements.
Display the cumulative power consumption and accumulation rates.
Reservations by day to set ON/OFF
If the power supply is less than the amount set. It shall be automatically cut off (Optional)

Product Features
It shows immediately converted into electric power consumption charge.
We can control the housewares such as home set to box, pc, printer, fans, humidifier, bidet, I air purifier and etc.
Also control lighting device ON/OFF, sophisticated timer of outdoor signage, pump in the farm, standing light, radio, shelf lighting in department store and etc.

The products what you can use with IoT devices
HUB (DJ201)

The Specifications of the product
Model: AS103
Size: 116*50*74(mm)
Rated: 10A, 220VAC, 60Hz
Maximum Load Capacity: 2.5KW
Electrical Safety Certification number:
    SH04070-15001
Electromagnetic Certification Number:
    MSIP-RES-H17-AS103
Wireless Certification number:MSIP-CRM-H17-AS102

Gas Circuit Braker

Main Function
This Device connects all of the Internet of things (IoT) to offer Internet access

Product Features
Easy setting because it is set on existing gas valve, but exceptional case can occur

The Specifications of the product
Power supply: AA size 4pcs (Min 12Months). Or DCSV Adapter.
Timers and Remotes control
One-Touch CLOSE/OPEN
Control Channel: 400MHz Wireless (Smart I/O)

Lighting Switch/Multi-Functional Controller

Remote Control with Smartphone and control timing.
One-to-one exchanging type without electrical wiring
Remote On/Off Control for home, Office and factory
Diversity application like system air-conditioner
but need expert support

The products what you can use with IoT devices
HUB (DJ201)

The Specifications of the product
Circuit No: 2 Circuit
Max. Load Capability: 400W/Circuit
Switching Type: Capacitive Touch Type
Control channel: 400MHz Wireless
Communication Port: RS-232 or RS-485
AI Input: 2 Circuit
Power: DC 12V 0.5A

Control System of Individual Room/Thermostat

Product Features
Suitable for newly-built villa and detached house
District heating temperature controller connecting with valve actuator
NemoAHN router involved (Remote control with Smartphone)
Remotely control for indoor temperature with remodeling existing
temperature sensor block.
District heating temperature controller connecting with valve actuator.
Individual heating for detached house / District heating for apartment

The Specifications of the product
Wired individual temperature control system 8 zone or max. 15 zone
concurrent control strong durability
Remote control with smartphone
Indoor temperature control
Time Control
Control Channel: 400 MHz Wireless
Remote control with Smartphone
Interlocked with weather (Scheduled)

Hot Water Mat

Product Features
1 heating / 2 heating concurrent support

The Specifications of the product
Parklon PA-001, PA-002
Remote Control with Smartphone

Push-Pull Type | Fingerprint Door lock
New Concept PUSH PULL Premium
Finger print Digital Door lock

Advanced fingerprint technology with
no hacking worry

H-7090SK/ Main Key (Fingerprint recognition)
- 4 Way door open
- Double locking from in & Outside
- Temp, Sensor built-in
- PIN + Card + Manual Key
- Panic Release Handle
- Operating sound Control

Features
- Number of registration possibilities fingerprint: 100
- License time that is a fingerprint is very fast (Under 1 Sec)
- Rang of the motion temperature is extensive and especially the low temperature characteristic is excellent.
- Fingerprint Sensor Area is big (9.6 x 9.6 mm)
- ESD Protection ±30KV
- Separate Wake-up action is not necessary.
- Fingerprint algorithm : Korea Internet & Security (KISA) authentication acquisition

Push-Pull Type | Main Key
New Concept PUSH PULL Premium Finger print Digital Door lock
Convenient Push-Pull Digital Door lock

H-7000SK / Main key

- 3 way door open
- PIN + Card + Manual Key
- Panic Release Handle
- Double Locking from in & Outside
- Operating sound Control
- Temp, Sensor built-in

Features

- Easy to replace when moving
- No need a Shim plate when replacing other Door Lock
- Changeable Push and Pull

Value up your home Main key Door Lock, No hole required

H-5000 / Main Key

- 3 way door open
- PIN + Card + Manual Key
- Panic Release Handle
- Double Locking from in & Outside
- Operating sound Control
- Temp, Sensor built-in

Features

- Easy Installation
- No Hole required type main key lock
- Easy to replace when moving
- No need a Shim plate when replacing other Door Lock

Handle All-in One Type Mini-Main Key 1
Door Lock for Wooden door
H-2480/ mini Main Key

- 2 Way door Open
- Pin + Card
- No hole required

Features

- Easy to install
- No hole required
- Easy to move and re-installation

Variety Features Comfort and Stability
H-3000/ Mini Main key

- 3 way door open
- PIN + Card + Manual Key
- No hole required
- Panic Release Handle
- Double Locking from in & Outside
- Operating sound Control
- Temp, Sensor built-in

Hotel Lock | Main Key

H-7030/ Main Key
- 2 way door open
- Card + Manual key

H-5330 / Main Key
- 2 way door open
- Card + Manual key

H-5230 / Main Key
- 2 way door open
- Card + Manual key

H-5030 / Main Key
- 2 way door open
- Card + Manual key
- Main key lock with no hole required

Locker Key

HLK-1000 / Locker Key
- 2 way door open

HLK-1033 / Locker key
- 1 way door open

Automatic door button

HJB-200 / Automatic door button
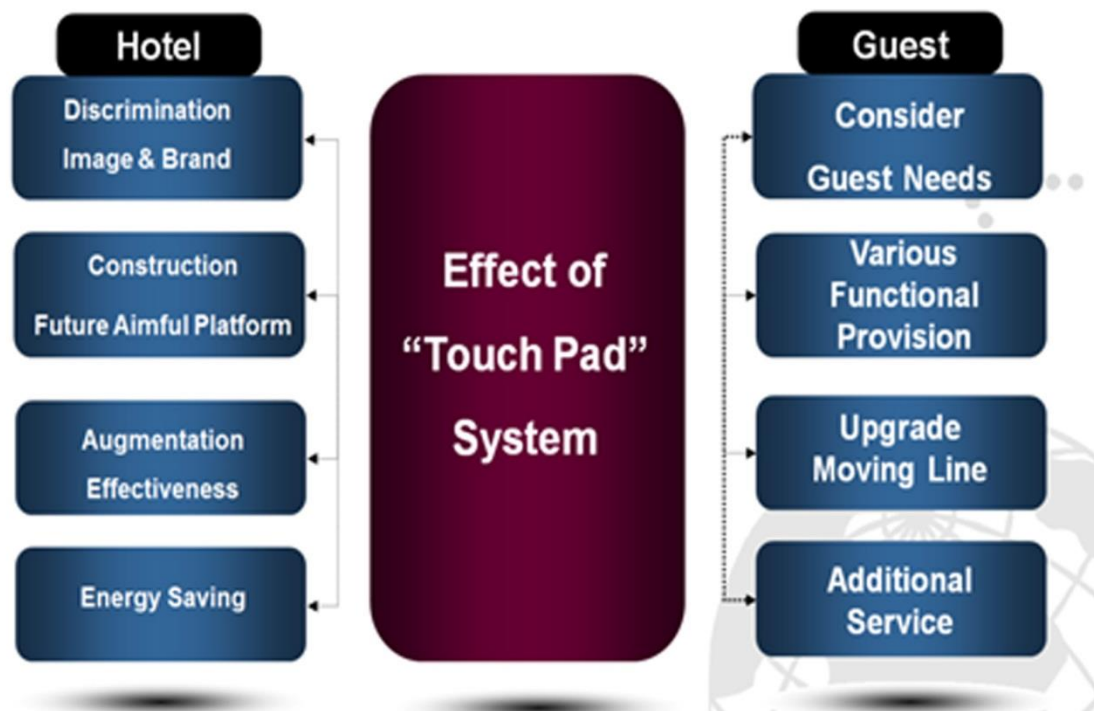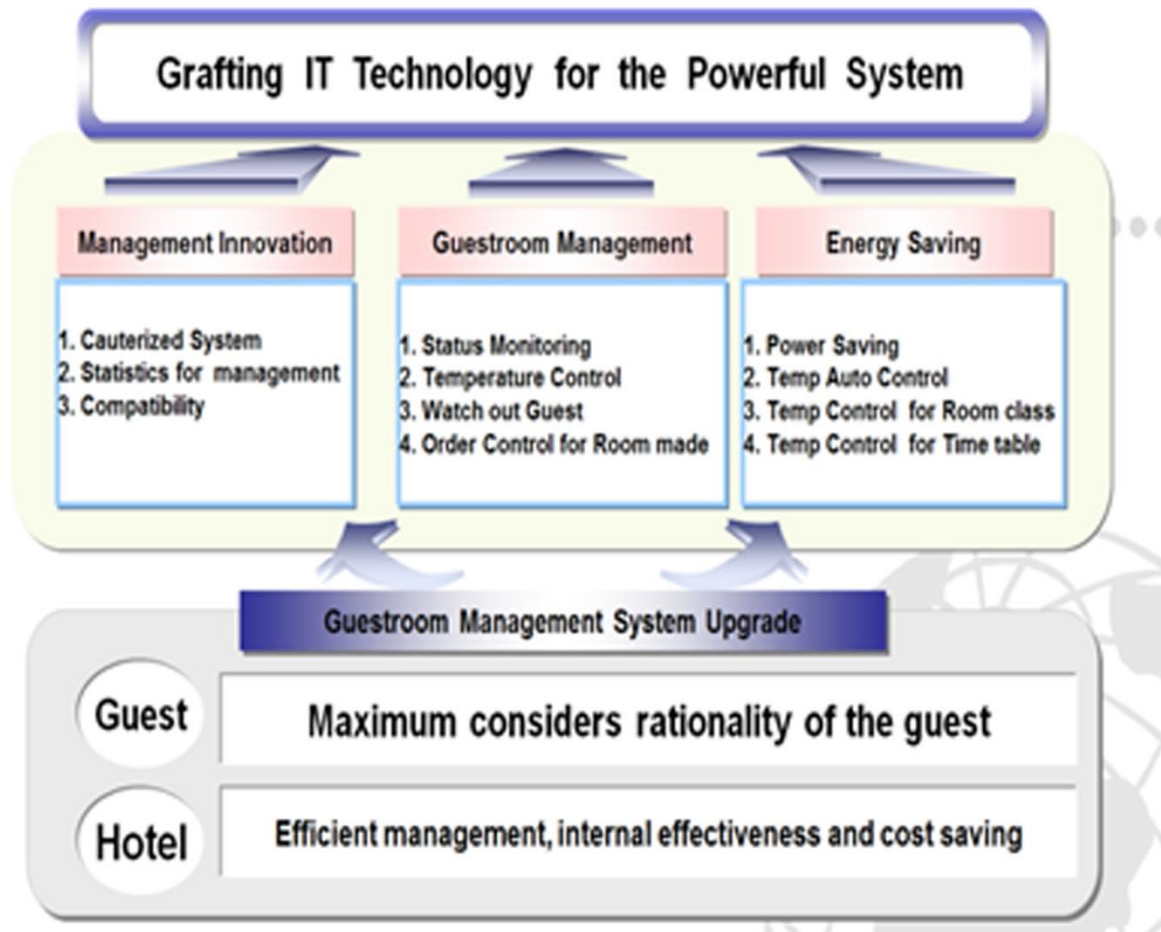
Accessories
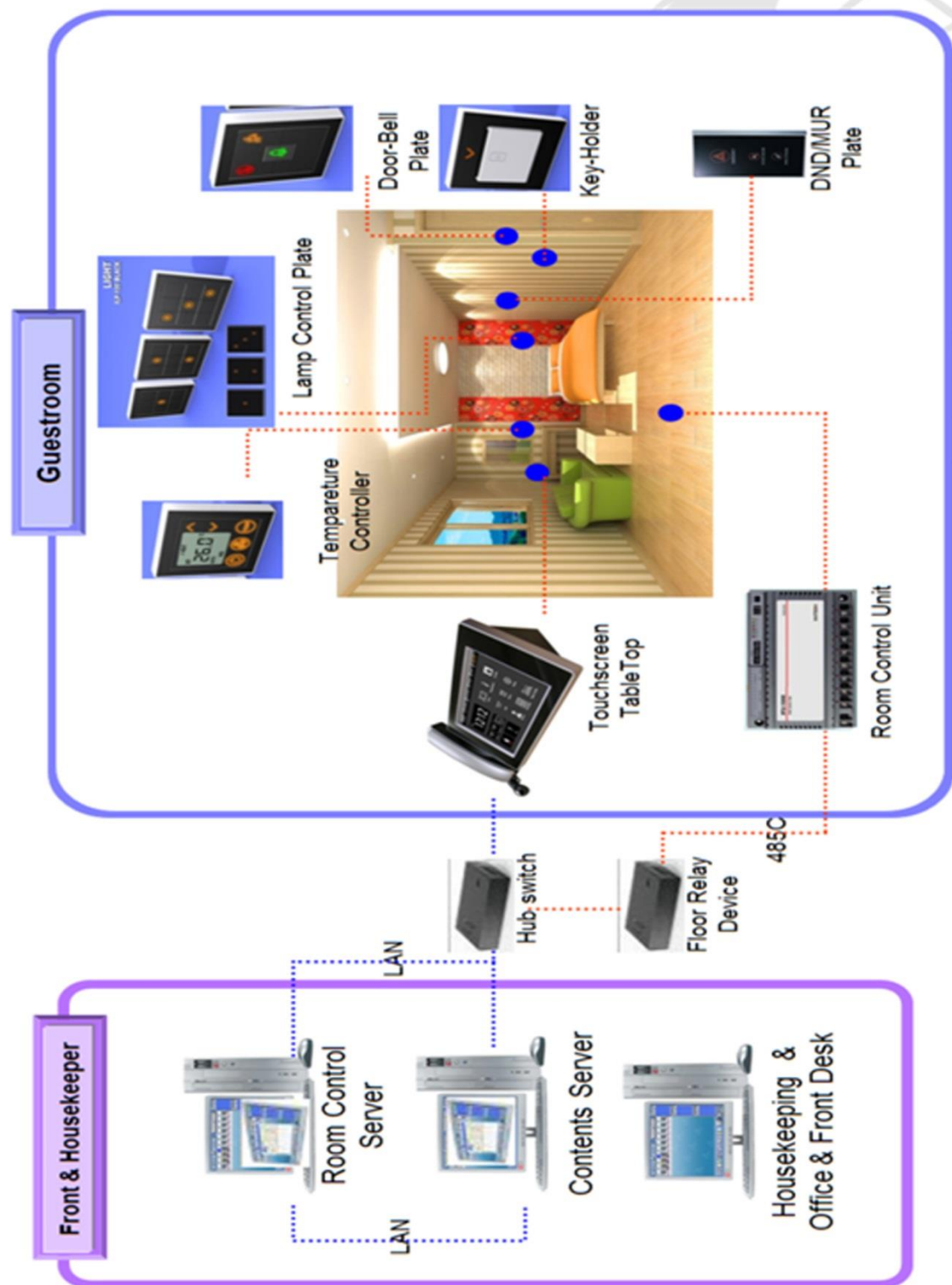
Remote Control Unit (option)

Transmitter (Option)

Receiver(Option)

Tag (option) mifare ISO

Grafting IT Technology for the Powerful System

Management Innovation

1. Cauterized System
2. Statistics for management
3. Compatibility

Guestroom Management

1. Status Monitoring
2. Temperature Control
3. Watch out Guest
4. Order Control for Room made

Energy Saving

1. Power Saving
2. Temp Auto Control
3. Temp Control for Room class
4. Temp Control for Time table

Guestroom Management System Upgrade

Guest — Maximum considers rationality of the guest

Hotel — Efficient management, internal effectiveness and cost saving

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Hotel

- Discrimination Image & Brand
- Construction Future Aimful Platform
- Augmentation Effectiveness
- Energy Saving

Effect of "Touch Pad" System

Guest

- Consider Guest Needs
- Various Functional Provision
- Upgrade Moving Line
- Additional Service

Guestroom

Door-Bell Plate

Key-Holder

DND/MUR Plate

Lamp Control Plate

Tempareture Controller

Touchscreen TableTop

Room Control Unit

485C

Hub switch

Floor Relay Device

LAN

Front & Housekeeper

Room Control Server

Contents Server

Housekeeping & Office & Front Desk

LAN

Monitoring S/W

Specifications

- Monitoring and controlling upon server
- Display summary page
- Event monitoring for room status
  - Check-in/ Existence
  - Do not disturb/ Make up Room
  - Temperature Modify
- Guestroom Control
  - Room Maid/Check-in
  - Message Delivery
  - Empty room control
- Support Intuition interface which is familiar in guest

Hardware Requirement

- CPU: up to Pentium 4
- RAM: Min 256MM
- HDD: min 500MB Free
- VGA: up to 1024 x 768, 256 Color
- O/S: MS Windows-XP, 2000

Guestroom Controller, ILU-100 & IFU-100
Room Control Unit for Temperature Controller, Table-Top Console, Doorbell-plate, key-Holder Function
(ILU-1000 Light Control Unit)

- Lighting Control: Max 6 Lamp
- Dimming Control: 2 Dimmer 255 step dimming
- Fade in/Out
- Scene Function
- Power Control: Empty / Guest exist

(FU-1000 Field Control Unit)

- Cool & Heat Valve & Fan Control
- Temperature control
- Curtain Control
- Doorbell, key Holder, Chime Bell Interface

(IMU-1000)

- Gateway device between room controllers & Server PC
- Max 32 room control possible
- Save connected room status
- Time sync , remote firmware upgrade function

New generation of Guestroom Console "YT-1000)
Guest can make a scene for lighting in the room produce the various atmosphere.
It provides the basic intelligence and area information of the hotel with the maximum
it increased the convenient characteristic of the customer

Control Functions & Services

- Lighting & Dimming with Scene
- Temperature control
- Music (optional)
- MUR/DND/MSG
- Emergency call
- Curtain Control (optional)
- Phone dialing
- Hotel information by page-view
- World-Time Display
- Alarm
- Language (Korea, Japan, Chinese, English, Russia and Germany)

Specifications

- Power: AC 220V 50~60Hz
- Display: 7 Inch TFT LCD 640x480 16bit Color
- CPU : ARM9 (Samsung S3C2441)
- O/S : Windows- CE 5.0
- Size : 260(W)x 130(H)x 110(D) mm
- Internet- explore 6.0 & Multimedia codec (wav,Mp3)

Configuration Products- Touch Screen-Top 2
"Touch Pad Controller" is upgrade the hotel image & Brand.
Provide the high quality "service" to the guest

Status Icon Display
  a. Room number, Status icon
  b. Current temperature

Clock

Main Functions
  a. Phone interface
  b. Temperature
  c. Curtain Control
  d. Light Control
  e. Alarm Control
  f. Music Control
  g. Services (DND,MUR)
  h. Change Language
  i. Hotel Guide

Short Functions
  a. Lamp at on
  b. Lamp at off
  c. LCD off
  d. Emergency
  e. Help

Temperature Products YTC-200

Temperature control for Guest room

Functions
- Temperature control and 3 step speed control for FCU
- Fahrenheit/ Centi degree unit available
- Valve control
- 3-position proportional control
- Include temp sensor
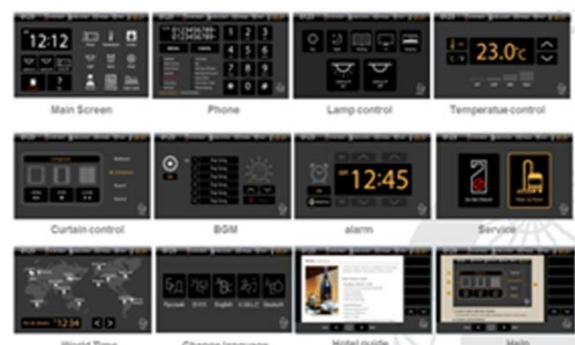- Remote control for air- conditioner via IR-Remocon

Specifications
- Power: DC 7-12V, 0.5A
- Display: 4.5cm x 4.0cm size LCD & Backlight
- Dimension: 70(W) x 120 (H) x 15 (D) mm
- Back Side Plate: 89(W) x 134 (H) mm

Touch button type table top console
Touch Button type table, YT-200
Elegant designed flat panel interface with room control unit

Functions
- Temperature control
- FCU Control (Speed Mode)
- Message Delivery
- Emergency delivery
- DND/MUR
- Alarm
- World time
- BGM channel & volume (optional)
- Lighting Control (6 Lamp/2 Dimmer/ Master)
- Curtain Control optional
- Large size LCD & Backlight
- Customized panel design

Specifications
- Power: DC 7-12V, 0.5A
- Comm: RS-485 (RSU)
- Display:4.5cm x 4.0cm size LCD & Backlight
- Dimension: 230 (W) x 65(H) x 105(D) mm
- UI: touch type button

wall mounted Light switch
Wall Mounted Light Switch, YLP-100D1
For Designed Light Control device by touch technology

Functions
- 4 lamp on/off
- 2 dimmer
- Master switch On/OFF
- Flat &Slim Design
- Customized Color change

Specifications
- Power: DC 7-12V, 0.5A
- Display: 4.5cm x 4.0cm size LCD & Backlight
- Dimension: 70(W) x 120 (H) x 15 (D) mm
- Back Side Plate: 89(W) x 134 (H) mm

Touchscreen Table-Top-3

User interface Screen
- Present the room condition for the guest within his information on hotel server
- "Welcome" voice message consider guest nationality
- Present the temp
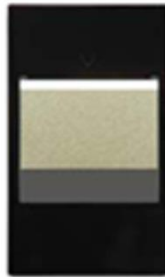erature for the guest within database

Card Key- Holder, YKH-100
Card key-Holder. YKH-200
Function
Detect the status of the card (Insert/remove)
Data send to the RSU
Status indicate by LED
Separate class of card (Guest/ Maid)
Specifications
Button: 2 EA for Guest/ Maid
LED: 1 Exist
Dimension: 70(W) x 115(H) x22(D) mm

Configuration Products- DND Switch, YDM-100
 DND Switch, YDM-100
Switch for DND /MUR and emergency
Function
 • Do-Not-Disturb button
 • Make-up room Button
 • Emergency call button
 • Data communication to RSU

Specifications
 • Power DC 7~12V, 0.5A
 • Display: 4.5cm x 4.0cm size LCD & Backlight
 • Dimension: 70(W) x 120(H) x 15 (D) mm
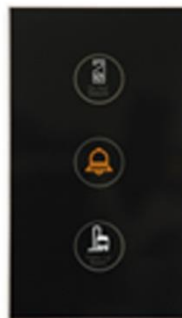 • Backside plate: 89(W) x 134 (H) mm

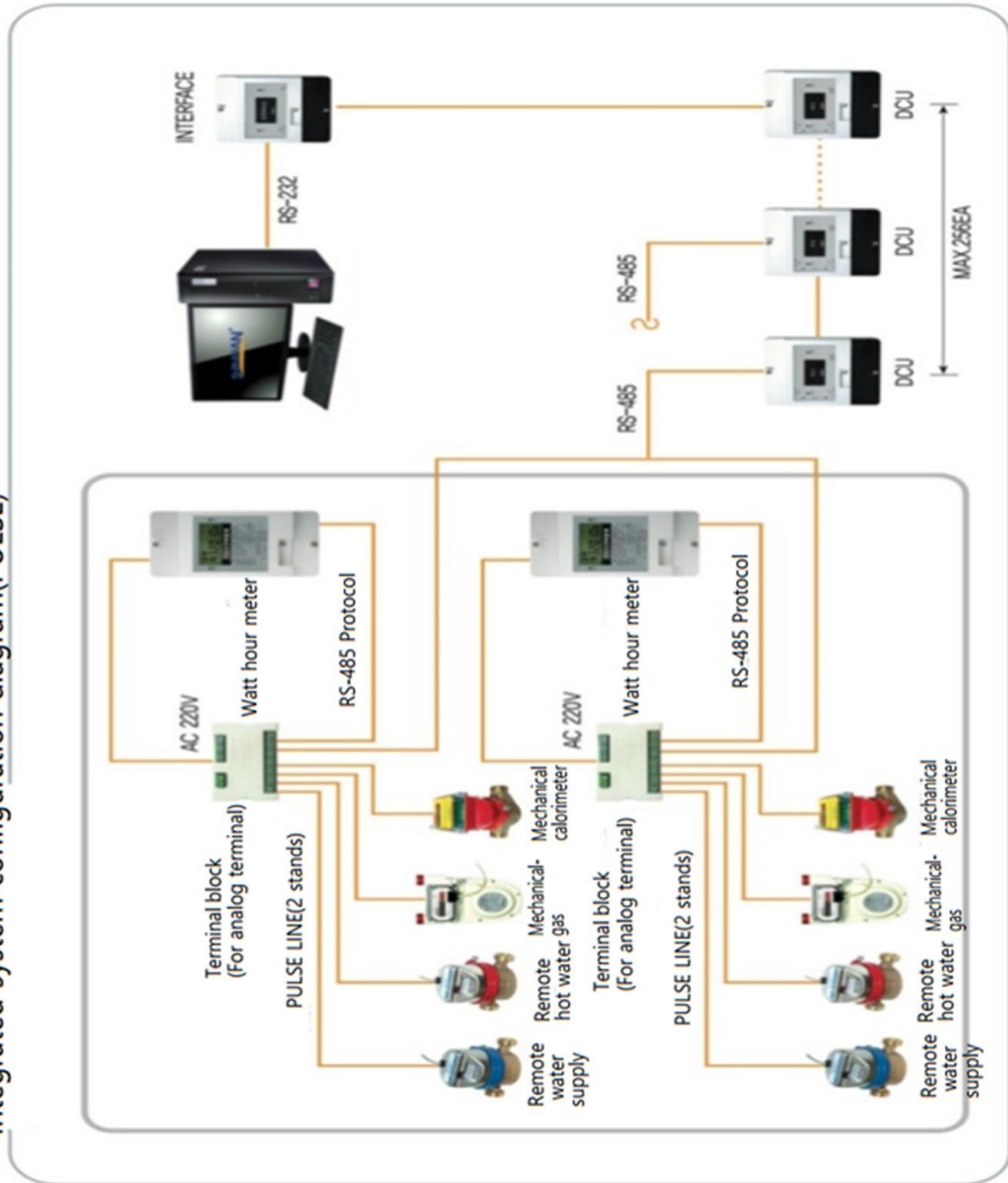Configuration Products- Door Bell Plate, YDP-100

Function
 • Door Bell (Chime/Ding-dong)
 • DND/MUR LED
 • House keeper check exist guest by hidden key
 • Mute function when DND

Specifications
 • Power DC 7~12V, 0.5A
 • Display: 4.5cm x 4.0cm size LCD & Backlight
 • Dimension: 70(W) x 120(H) x 15 (D) mm
 • Backside plate: 89(W) x 134 (H) mm

Integrated system configuration diagram(PULSE)

INTERFACE

RS-232

DCU

DCU

DCU

RS-485

RS-485

MAX 255EA

Watt hour meter

AC 220V

RS-485 Protocol

Terminal block
(For analog terminal)

PULSE LINE(2 stands)

Mechanical calorimeter

Mechanical-gas

Remote hot water

Remote water supply

Watt hour meter

AC 220V

RS-485 Protocol

Terminal block
(For analog terminal)

PULSE LINE(2 stands)

Mechanical calorimeter

Mechanical-gas

Remote hot water

Remote water supply

Electricity Meter (W-Type)

**CT / CT-VT Meter
Three Phase
Dual Voltage
1.5(6)A**

Temperature Range	• Limit range for storage and transportation: -10ºC ~ 85ºC • Limit range for operation: -10ºC ~ 70ºC
Voltage (Dual)	• CT Meter (3P4W) : 133 / 230 / 400V • CT-VT Meter (3P3W) : 110V (Phase to Phase)
Protocol	• Open Protocol (DLMS / COSEM protocol) • IEC 62056 / IEC 62056-42 / IEC 62056-21 / IEC 62056-46 / IEC 9646 / DLMS UA
Case	• Nonmetallic • The degree of protection is IP51 or better.
Accuracy Class	• Active Energy: CL 0.5 • Reactive and Apparent Energy: CL 2.0
Physical Port	• RS-485 / Optical Port • Optical Port (300 baud, 9600 baud) • To secure scalability of RS-485, RS-485 drivers of Gateways, PLC Modems and Electronic revenue meters Up to 32 drivers in single line
Features	• Bidirectional Communication • Remote F/W Upgrade • Encrypted Data Transfer • Advanced Metering Infrastructure

Smart Electricity Meter (KEPCO G-Type)

**1 Phase
220V
100(10)A**

**3 Phase
220/380V
100(10)A**

Communication	Open Protocol (DLMS/COSEM Protocol) • IEC62056 / IEC62056-42 / IEC62056-46 / IEC 9646 / DLMS UA Remote Relay On/Off, Bidirectional	
	Physical Port • RS-485 (RJ-45 Jack) • RF/PLC modem module can be inserted inside of meter (Option Module)	
Metering (Monthly)	Maximum Data of 8pcs channels is automatic saved : • Power Receiving Data : Active / Apparent / Lagging / Leading • Power transmission data : Active / Apparent / Lagging / Leading	
	Manages monthly reading data: • Monthly automatic meter reading is operated as designating auto reading day. • If person reads passively, he can conduct passive meter reading via using a button. • Monthly meter reading can make report as it read : Month / Last month / 2 months before. • Monthly reading data includes data of 8 channels as maximum demand power and power factor, power monitoring.	
Power Quality Monitoring	Power Failure	With backup battery, power failure can be detected and the history will be saved.
	Power Factor	Power factor value can be saved in real-time : • Monthly report for each TOU / Load profile interval
	Sag & Swell Voltage	Real-time monitoring for Sag and swell : • When Sag or Swell occurred, their history can be saved. • Adjustment : Swell (110% 120%), Sag (60% - 90%)
	Total Harmonic Distortion (THD) Monitoring	Real-time harmonic distortion (%) can be measured : • THD value can be saved up to 288 (3 days). • Period : 1/5/10/15/30/60 minute

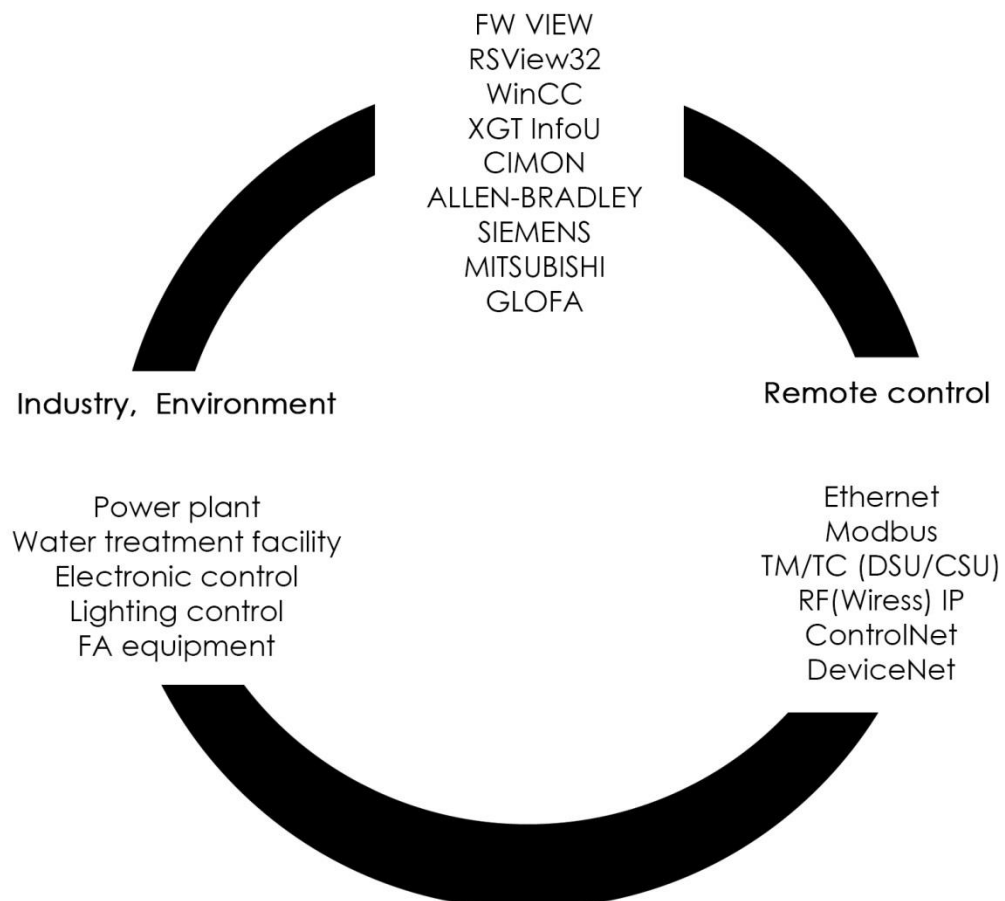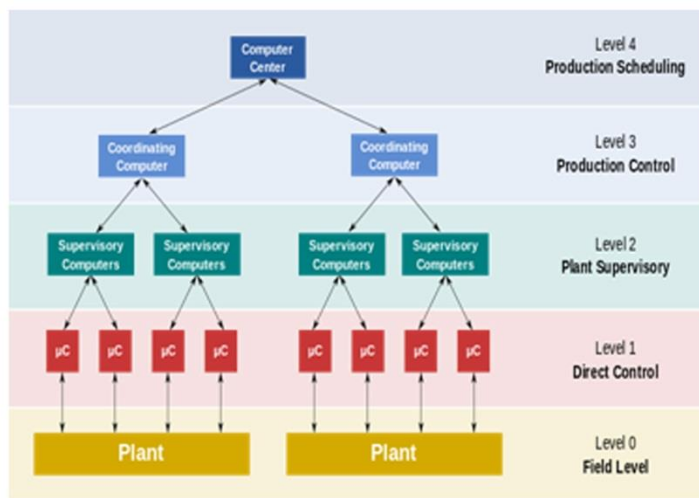## Electricity Meter (Real-Time Bidirectional)

Single Phase

Three Phase

Category	Meter Type	
	Single Phase	Three Phase
Voltage (V)	220V	220V / 380V
Current (A)	40A / 80A / 120A	
Accuracy	Class 1.0	
Communication	RS-485 Communication (Wired)	
IEC Standard	IEC 62052-11, IEC 62053-21, IEC 62056-56	
Reading Function	• Accumulated Energy Amount • Instantaneous Consumption Amount • Transmission & Receiving Energy Amount • Active / Reactive Energy Amount	
Features	• It stores data in nonvolatile memory. • It is easy to measure export & import energy by each device. • It is easy to install due to compact size.	
Size	70 (W) x 131 (L) x 47 (H)	114 (W) x 131 (L) x 65 (H)

SCADA system is its ability to perform a supervisory operation over a variety of other proprietary devices.

FW VIEW
RSView32
WinCC
XGT InfoU
CIMON
ALLEN-BRADLEY
SIEMENS
MITSUBISHI
GLOFA

Industry, Environment

Remote control

Power plant
Water treatment facility
Electronic control
Lighting control
FA equipment

Ethernet
Modbus
TM/TC (DSU/CSU)
RF(Wiress) IP
ControlNet
DeviceNet

Supplies
- MED (Multi Effect Distillation)
- Membrane Desalination plant (Reserve Osmosis, Ultra Filtration)
- Hybrid Facilities

Advantages
- Compact & High efficient design
- Energy saving with MVR/TVC

Industries
- Power plant water, Industrial water, cooling water, Portable water, Pure/Ultra-pure water etc.

Supplies
- Bio reactor/ Anaerobic Digester
- Zero Liquid Discharge
- MBR (Membrane Bio Reactor)

Advantages
- Biological H28/So2 remova
- High performance

Industries
- Power plant Waste water, Industrial waste water,

Supplies
- Evaporators(MVR Evaporators)
- Dryer
- Distillation/ Crystallization plant
- Renewable Bio-fuel production plant etc.
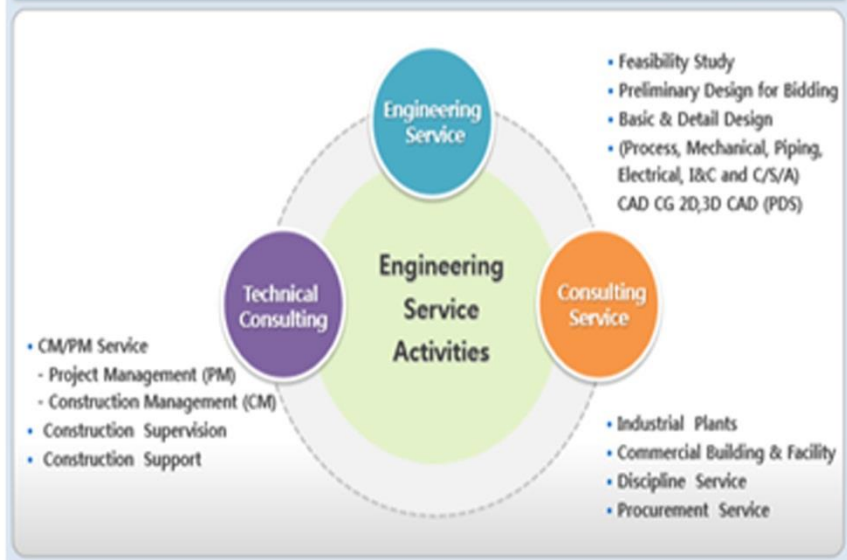- Secondary cell plant

Advantages
- Energy saving with MVR/TVR
- Compact & high energy efficient design
- Continuous operation

Application
- Chemicals, Food, Starch, Fermentation, Wood processing, Sugar, Fiber, Biofuel, Water reuse, Desalination, Oil sand and etc.
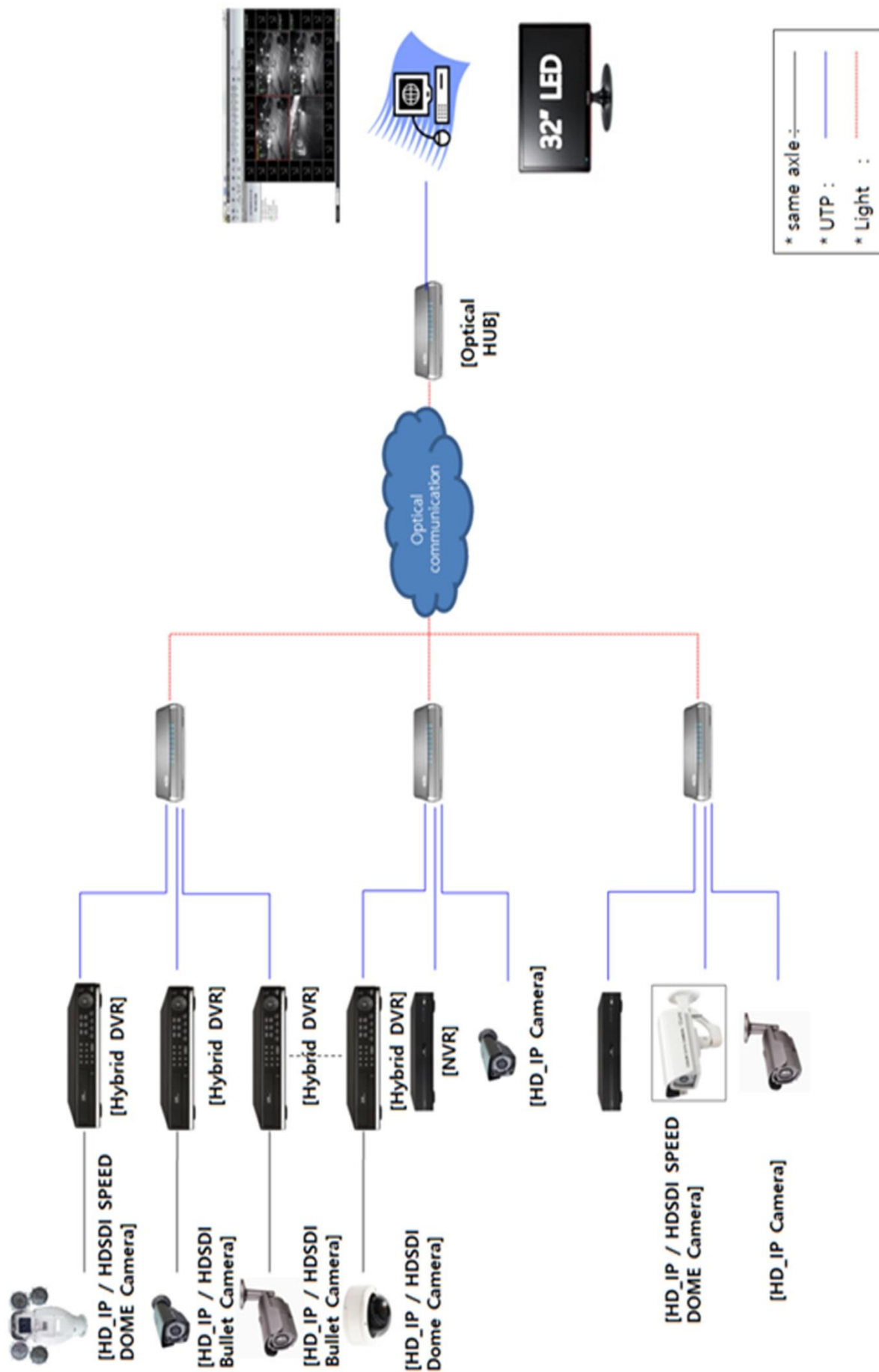
• Water & Waste Water Engineering and Desalination Plant Construction

Engineering Service
- Feasibility Study
- Preliminary Design for Bidding
- Basic & Detail Design
- (Process, Mechanical, Piping, Electrical, I&C and C/S/A)
  CAD CG 2D,3D CAD (PDS)

Engineering Service Activities

Technical Consulting
- CM/PM Service
  - Project Management (PM)
  - Construction Management (CM)
- Construction Supervision
- Construction Support

Consulting Service
- Industrial Plants
- Commercial Building & Facility
- Discipline Service
- Procurement Service

Field	List	Date of Issue	Remark
Global Network	Certificate of corporate credit Rating	2013.07.11	
	Confirmation Letter	2013.04.23	Hwaseong Chamber of Commerce & Industries
	Recommendation Letter	2013.04.23	Korea plant Industries Association
	Service Investment License	2013.10.23–2014.10.18	Saudi Arabia General Investment Authority
	Certificate company Registration	2013.12.23	Saudi Arabia
Process	Desalination Process	2014.01.24–	New Excellent
	NET	2019.01.23	Technology
Quality	ISO14001:2004	2011.12.02–2014.03.28	
	ISO9001:2008	2011.03.29–2014.03.28	
	ISO9001:2008 KS Q 9001:2009	2011.03.29–2014.03.28	
Fabrication	ASME "U" Stamp	2012.02.24–2015.02.24	
	ANSI/AIHA Z10-2005 & OHSAS 18001:2007	2013.01.22–2016.01.16	
	AME "S" Stamp	2011.03.14–2014.04.14	
	ASME "PP" Stamp	2011.03.14–2014.04.14	

Welcome Hantec has been hard to guarantee the quality of project that based on year of experience and enhance technical know-how as well as quality management.We has established quality management system and has a quality guarantee system that meet global standard and relevant lows to achieve a perfection of project

- ISO 9001:2008
- OHSAS 18001
- ASME STAMP "U" Pressure vessel
- ASME STAMP "PP" Pressure piping
- ASME STAMP "S" Power boiler
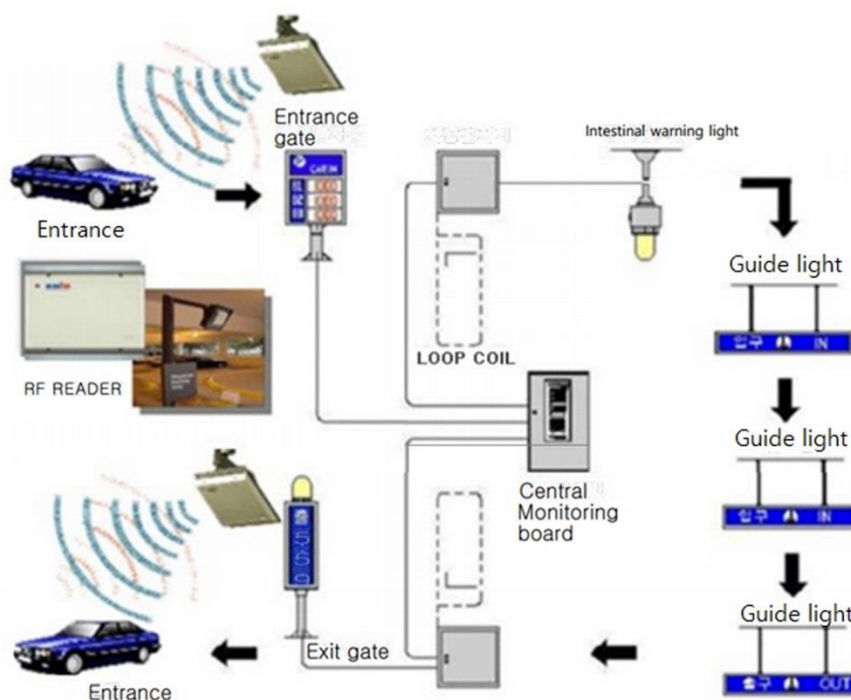- Manufacturing License of special Equipment (China) Biller & Pressure vessel

IR-LESS IP CAMERA in Super low illumination
(Implementing a color image in the low illumination as low as moonlight <0.001 Lux>)
Comparison images of using IR Camera(CH1) and BLACKNOON(CH2)

1.Implementing a color image in the low illumination as low as moonlight
2.Implementing a color image of perceiver capable of recognizing the subject
No power required (Built-in PoE)

Remote controller

Signal receiver

Remote control

Blocking controller

Fee calculator (PC)

Barcode parking ticket issuer

For more information about our products and Services, please visit:
http://www.samwootek.lk