

Installation Manual

V1.0

Xiamen Leelen Technology Co., Ltd.

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Foreword

Xiamen Leelen Technology Co., Ltd. is the biggest domestic supplier of building intercom and digital /system devices. In this industry, only Leelen won the honor of "China Top Brand" and "Famous Trademark of China." Leelen ranks third by virtue of its comprehensive strength in China's building intercom industry.

Leelen has nearly a dozen subordinate enterprises such as Leelen Investment Company, Leelen Technology Co., Ltd., Leelen Electric Control Technology Co., Ltd, Leelen High Voltage Electric Co., Ltd, SafeHouse Electronic Science and Technology Co., Ltd, and Zhonglin Machine Co., Ltd. It has 37 subsidiary companies, offices and after-sales service sites which are spread all over China. Leelen has an industrial park which covers an area of nearly 110,000m², owns international first-class production and detection equipment and realizes self-production of products through a full set of procedures.

As for research and development, Leelen has established research and development centers in Ximen and Beijing, and has a deep cooperation with famous institutes and enterprises such as Peking University, Xiamen University, Huaqiao University, ABB (Xiamen), Haier, Tsinghua Tongfang, Honeywell and Johnson Controls in various aspects such as technologies, products, etc. Leelen is a compiling and drafting member of national standards and industrial standards and is the leader of the drafting team responsible for international building intercom standards.

Leelen is the first one to launch the national service hotline and to implement the 95105895 and the "full-course 315" service mode" in the industry. It is the first one to apply for and pass the ISO9001 quality system certification, ISO14001 environment system certification and OHSAS18001 occupational health management system certification. We have been confirmed by the standardization of the enterprise system evaluation (AAAA level) and obtained the Certificate for Use of Product Marks of International Standards. We won the "Xiamen Quality Award" in the third year. Meanwhile, Leelen is the vice-president of China Security Association and China Real Estate Procurement Alliance, the First Choice Brand for Qualified Affordable Housing Project and China Top-500 Real Estate Enterprises' Procurement, the "5E" supplier of China Real Estate procurement. Besides, Leelen has been receiving the "China Top-10 Security Brands" awards since 2004.

This Installation and Commissioning Manual was compiled in the principle "being practical, convenient," simply and clearly divided into several elements including Foreword, Construction Manual, Installation Manual, Commissioning Manual, etc. Limited by experience and knowledge level, there are some inevitable shortcomings. Project contractors and technicians using this Manual are welcome to put forward suggestions which will be used as a reference for our subsequent revisions. Thank You!

Leelen Technical Support Center 2017.8

Notices for use

Correct transportation, installation, operation, service and maintenance ensure normal work of the intercom equipment. However, you must be aware of the notices for product use before doing those works.

- Attention Incorrect operations may cause danger and may result in system abnormalities or equipment damage, which will lead to unnecessary losses.
- Transport During transport, keep the product well packaged, do not unpack the product and guard the product against water, dust, collision, etc.
- ➤ Storage The packaged product should be stored in a well-ventilated room or warehouse at an ambient temperature within a range of 10°C-40°C, with a relative humidity not greater than 80% and without corrosive gases.
- Installation Before installation, please cut off all power supplies. The installation should proceed in accordance with the installation manual. After installation, the equipment is powered on only after it is checked that the wiring is correct.
- Maintenance The project contractor or relevant technicians should maintain, test and update the system regularly.

Description of version

- This manual is an engineering installation and commissioning manual, used as a reference by engineering technicians for installation and commissioning. If it is found that a certain product is inconsistent with the real object or the product manual in a certain aspect, the real object shall prevail.
- This manual is customized for the company's current product. Our company will launch new products and revised versions will be made as soon as possible. However, if new products are not recorded in time, please refer to the product manual or contact our company's technicians.
- All registered trademarks and product and company names in this manual belong to our company, and may not be duplicated or used without consent or written authorization of the our company.
- Some information about the products in this manual is confidential, and its copyright belongs to Leelen.
- Leelen reserves the right of final interpretation on all contents of this manual.

1.Construction manual

1.1 System overview

1.1.1 Description of digital building intercom system

A digital building intercom system is a building intercom and access control system based on computer network transmission.

In this system, enclosure station, a center guard unit, a central management computer, outdoor stations, digital access control units, indoor stations, etc. are uniformly accessed to a computer network. The network computer transmits signals to realize video intercom and access control functions, etc.

The digital building intercom system provides functions of allowing people to go in and out by sweeping access cards, to call a home at the door to perform video intercom and ask for opening the door, and to call the management center to perform video intercom and ask for opening the door, and allowing residents to use indoor stations to monitor the camera of the outdoor station at the door, call the management guard unit to perform video intercom.

It also provides functions of allowing people in the management center to use the management guard unit to call residents' indoor stations to perform video intercom, allowing people in the management center to use the computer to perform access card management send messages to residents and send messages to enclosure stations and building outdoor stations.

1.1.2 Main functions and features

Digital network-based data transmission makes the system more stable.

Video intercom function, door-to-door intercom function.

Support recording of incoming calls. The incoming call record includes information automatically captured by the system.

Support visitors to leave messages.

The number of residents is not limited.

RJ45 connection for the equipment.

Support IC card-based access control and management.

The computer of the management center supports management on the access records, intercom records, etc.

Support a messaging function. The computer of the management center can send messages to the building outdoor stations and indoor stations.

1.1.3 Topological graph and description of overall system architecture

Topological graph of overall system architecture



A project usually includes an enclosure access section, a management center section, a building unit access section and an indoor section. The four sections are described in detail below.

1.1.3.1 Enclosure access section

For access control of the enclosure, an enclosure outdoor station can be installed. Visitors can call indoor stations or the management center using the enclosure outdoor station to perform the video intercom operation. Residents can go in and out by sweeping cards at the outdoor station.

A project can include a plurality of enclosure entrances. Some enclosure entrances are equipped with a digital access controller instead of digital outdoor station. The digital access controller is externally connected with a card reader and residents can go in and out by sweeping cards on the card reader.

1.1.3.2 Management center section

The management center is usually equipped with a center management computer and a management guard unit. Management persons can use the management computer to perform management operations on access cards and use the management guard unit to call residents at home and perform video intercom operations or answer calls from indoor stations of residents and perform video intercom operations.

A large project can be equipped with an auxiliary management center. The auxiliary management center can also be equipped with the center management computer and the management guard unit.

1.1.3.3 Building unit access section

A unit of a building is usually equipped with a building outdoor station. Visitors use the outdoor station to call building outdoor station of residents in the unit to perform video intercom. Residents can go in and out of the unit by sweeping cards on the outdoor station.

If a unit has several entrances, some entrances can be equipped with the digital access controller. The digital access controller is connected with the card reader. Residents can go in and out by sweeping cards on the card reader.

1.1.3.4 Indoor section

Indoor stations are installed at residents' homes. Residents can use the indoor station to answer calls from the enclosure outdoor station and the building outdoor station to perform video intercom and open the door.

Residents can use the indoor station to answer calls from the management guard unit and indoor stations of other residents, or call the management guard unit or other homes, to perform video intercom.

Residents can also use the indoor station to check call records and visitor's messages, and check notifications from the management center.

1.2 Description of cables

1.2.1 Line configuration

Devices connected	Distance <u>L(</u> m)	Line type	Remarks
1.Incoming line			
From the Indoor station	L≤90	UTP5E	
to the network distributor	90≤L≤2K	Multi-mode fiber (number of	
or network switch		cores, self-defined)	
	L≤20K	Single-mode fiber (number of	
		cores, self-defined)	
From the flat outdoor	L≤90	UTP5E	Flat outdoor station:
station to network			refers to the unit
distributor or network			serving as the
switch			secondary video
			doorbell.
	2. Main lines	s in a building	
From the building outdoor	L≤90	UTP5E	
station to the switch	90≤L≤2K	Multi-mode fiber (number of	
		cores, self-defined)	
	L≤20K	Single-mode fiber (number of	
		cores, self-defined)	
From the building outdoor	L≤10	RVV2*1.0	
station to the electric			
control lock			
From the building outdoor	L≤10	RVV2*1.0	

station to the magnetic			
lock			
From the building outdoor	L≤10	RVV2*1.0	12V~24V
station to the power supply			
	3.Main net	twork cable	
From guard unit to the	L≤90	UTP5E	
central core switch	90≤L≤2K	Multi-mode fiber (number of	
		cores, self-defined)	
	L≤20K	Single-mode fiber (number of	
		cores, self-defined)	
From the lower-level	L≤90	UTP5E	
network switch to central			
network switch			
From the enclosure	90≤L≤2K	Multi-mode fiber (number of	
outdoor station to the		cores, self-defined)	
network switch	L≤20K	Single-mode fiber (number of	
		cores, self-defined)	
	L≤90	UTP5E	
	4. Indoo	or wiring	
Power wire of the indoor	L≤30	RVV2*1.0	
station			
Zone wire of the indoor	L≤30	RVV3*0.5	
station			
Note: The building intercom	device does not support dire	ect fiber, but needs to connect via t	fiber optical converters.

1.2.2 Requirements for network cables

1.2.2.1 Requirements for wire diameter and wire resistance

\square
Diam eter of a bare copper wire >0.5mm ² e Resistance <12Ω'100me
Length (300m) of cables in each case <36Ω-
Jun
1

- Wire diameter: The diameter of a single UTP5E bare copper wire should be greater than 0.51m m².
- Wire resistance: The wire resistance of a single UTP5E wire should be less than 12Ω per 100m; the wires resistance of a case (305m) of UTP5E wires should be controlled to be less than 36Ω .

Wiring diagram of RJ-45 joints (crystal heads) of the network wires

Note: The line sequence of the RJ45 joints follows the standard 568b, and all manufactured UTP5E wires must pass the UTP5E wire on-off test (a cable wire tester can be used).

1.3 Requirements for pipeline construction

For installation and commissioning of the building intercom system, the pre-stage wiring is an important link of the system installation and commissioning. Wiring builds an "information express way" in a residential community. The intercom system of the whole residential community can run steadily and reliably only when signal transmission is smooth. It is undoubted that high-quality wiring ensures stable and reliable system operations. Unreasonable wiring makes the whole system unstable and causes system crash and abnormalities. Therefore, a rational construction of the pipelines is very important.

1.3.1 Requirements for pipeline solution

• Pipeline architecture: Recommended architecture is a linear architecture. Tree-type, star-type and bus-type pipeline architectures should be used as little as possible (or not used).

- Requirements for pipe quality: The networked lines among buildings must be independently laid with steel pipes or racks.
- Requirements for pipe diameter: The inner diameter of the pipes is usually 1.7-2 times the outer diameter of the engineering cable; and the pipes should have as few elbows as possible, better not more than 2.

1.3.2 Requirements for pipe material solution

- Performance: Selected devices such as wires, interfaces and plug-ins should have high physical and electrical performance and high anti-interference.
- Practicability: Convenient installation, high cost performance, configuration of structure and plug-in interfaces easy to be extended.
- Flexibility: Rational information interface devices, random pull and plug.
- Easy management: Convenient maintenance, uniform marks, convenient wiring and wire jumping.

1.3.3 Requirements for system environment

- All signal lines are wired through the weak electrical well, avoid interference sources as many as possible, and completely follow the national standard GB-50348-2004. The signal lines cannot be configured in parallel to strong-current wires (AC 220V), radio frequency lines, CATV cables, large-signal audio lines, etc. If parallel wiring is inevitable, the intervals between parallel lines must be greater than 35cm.
- Environmental elements such as damp-proofing and dust-proofing must be taken into consideration of installation sites of system devices, and the installation sites must be away from acoustic, thermal, optical and vibrating factors other than environmental factors to avoid affecting the system usage performance.

Device type	Device position	Device requirements
Access layer	Applicable to network distributor/switch which is	Digital intercom network
	directly connected or accessed by an Indoor station	distributor or common switch
Aggregation	Applicable to the network distributor/switch that	Has the capability of processing
layer	aggregates the access-layer switches	data of all devices accessed to
		this device
Core layer	Communication with all network devices,	Switch with high stability and
	positioned in the central computer room	high performance is selected.

1.3.4 Network configuration environment

In order to ensure good network environment and network construction quality for the TCP/IP communication of the company's digital intercom system devices and the communication quality among the devices, and to help technicians, salesmen and project construction persons give instructions to clients to standardize the network application environment, network design requirements are hereby specified:

- RJ45 manufacturing standard: international standard T568B (see "Definitions of line sequence of crystal heads" for details);
- Network address configuration: ensure that the network IP addresses are not conflicting;
- Communication transmission distance: maximum transmission distance of UTP5E ≤90m; if the wire length exceeds 90m, optical fiber transmission or switch cascading are required;

- Wire selection: famous brands are recommended and the channel DC Loop resistance of all selected wires should be less than or equal to 25Ω , which means that the closed loop resistance of any twisted pair is less than or equal to 25Ω . For specific parameters, see electric standards in the "Code for design of comprehensive wiring system project (GB50311-2007)."
- Requirements for pipeline laying: wires and cables should be kept a necessary distance from surrounding electric appliances such as electric motor, power transformer and radio frequency application devices that may generate high level and strong-current cables; the wired cables cannot be electrified by AC 220V/380V strong-current power supply, or laid in parallel with radio frequency signal lines (CATV cables, large-signal audio lines); and if parallel wiring is inevitable, the distance between parallel wires should be greater than 30cm. For specific parameters, see "Code for design of comprehensive wiring system project (GB50311-2007)."
- Model selection of network switches of all layers

2. Installation manual

2.1 Installation attentions

• Preparation before installation

- \diamond Check if the installation site is firm and flat;
- ♦ Ensure all wires and cables are smoothly connected and are free of damage, defects, etc.
- ☆ To install the pre-embedded box or bottom case, ensure that the installation site meets requirements, the pre-embedded box is free of deformation and its edge is not higher than the wall;

• Attentions for installation process

- ☆ The installation height must be controlled. The camera center of the intercom outdoor station is recommended to be 145cm above the ground.
- ♦ During installation, the environment of the installation site of the device should be taken into consideration. The device should not be installed at the following sites:
 - wet site or water dropping position;
 - hot or cold place;
 - place with strong magnesium presence;
 - place with much dust;
 - corrosive place, etc.
 - The face recognizing device may not be installed at a position with direct exposure to sunlight.
- ♦ Never beat or collide the device with a hard substance, or the device will malfunction.

✤ Do not operate the device when it is electrified or accidents such as an electric shock or device damage may be caused.

☆ To install screws, directly screw in the screws without inclination or locking may be not tight or the device may be damaged.

• Installation completed

♦ Clean the site and devices. Never clean the intercom devices with flammable cleaners such as alcohol or benzene.

♦ During cleaning, never pour liquid into the product or accidents such as electric conduction may be caused.

2.2 Outdoor station

2.2.1 Appearances and main parameters of outdoor stations

Outdoor station	Appearance	Main parameters
Model No.8 series		Working Voltage: DC12-24V \pm 10% Max Power Consumption: \leq 4W Standby Power Consumption: \leq 2.5W IP Grade: IP54 Capacity of Cards: \leq 30,000 pcs Panel Material: Alum Casting Working Temp: -40°C to 70°C Operation: Mechanical Pushbutton Installation on Gate or Wall Dimension(mm): 120×240×60.5 Embedded Box

	Dim(mm):104×214×50 Color: Iron Grey
Model No.15 series	Working Voltage: DC12-24V±10% Max Power Consumption: ≤6W Standby Power Consumption: ≤3W IP Grade: IP54 Capacity of Cards: ≤30,000 pcs Panel Material:Alum Casting Working Temp: -40°C to 70°C Operation: Mechanical Pushbutton Installation: Surface-mounting/emb edded-mounting Dimension(mm):79×148×45
Model No.10 series	Working Voltage: DC12-24V Max Power Consumption: ≤8W Standby Power Consumption: ≤4W IP Grade: IP54 Capacity of Cards: ≤30,000 pcs Panel Material: Alum +Tempered Glass Working Temp: -40°C to 70°C Operation: Touch Screen Installation: Embedded/ Iron Gate Dimension(mm): 170×386×54 Embedded Box Dim(mm):142×358×64 Color: Aluminum Color
Model No.16 series	Working Voltage: DC18-24VMax Power Consumption: $\leq 8W$ Standby Power Consumption: $\leq 4W$ IP Grade: IP54Capacity of Cards: $\leq 30,000$ pcsPanel Material: Alum +TemperedGlassWorking Temp: -40° C to 55° COperation: Touch PushbuttonInstallation: Embedded/ Iron GateDimension(mm):166×386×52Embedded Box Dim(mm):145×358×60Color:Black + Aluminum Color

2.2.2 Installation of outdoor station

2.2.2.1 Model NO.8 outdoor station:

Instructions on the installation

- Embed pipelines and a pre-embedded box.
- Connect wires, fix the outdoor station and the sealing ring on the pre-embedded box using screws.
- Place the front panel on the outdoor station.
- Fasten the front panel and the outdoor station with screws. Then, the installation is completed.

2.2.2.2 Instructions on the installation of the Model No.15 outdoor station:

• Surface installation on the wall

Instructions

- Embed pipelines.
- Fix a sunshade on an iron door using screws.
- Connect wires, place the outdoor station on the sunshade in the direction of the arrow.
- Fasten the outdoor station and the sunshade using screws. Then, then installation is completed.
- Insertion installation

Instructions on the insertion installation of the 15-type entrance machine:

- Embed pipelines and the pre-embedded box.
- Connect wires, fix the outdoor station on the pre-embedded box with screws. The, then installation is completed.

2.2.2.3 Instructions on the installation of the Model No.10:

Instructions of the embedded installation:

- Embed pipelines and the pre-embedded box.
- Connect wires, fix the outdoor station on the pre-embedded box with screws. Then, the installation is completed.

2.2.2.4 Instructions on the installation of the Model No.16 outdoor station:

Instructions of the embedded:

- Embed pipelines and the pre-embedded box.
- Connect wires, place the outdoor station on the pre-embedded box.
- Fasten the outdoor station and the pre-embedded box with screws. Then, the installation is completed.

2.2.3 Instruction on device wiring interface

2.2.3.1 Wiring interfaces of model No.8 Outdoor Station :

2.2.3.2 Wiring interfaces of model No.15 Outdoor Station:

2.2.3.3 Wiring interfaces of model No.10/16 Outdoor Stations:

Interface description:

- Power interface: Power input, connected to red/black wires, supporting DC12-24V, supporting SPoE power supply.
- > 12V output: Connected to red/black wires, corresponding implication: 12 V + / GND, output $\leq 750 \text{mA}$.

- RS485 interface: Connected to red/black wires, corresponding implication: A /B, externally connected to the access card reader.
- Signal locking interface: This interface uses a relay to output a switching value, and is connected to orange/yellow/green wires with a corresponding implication of COM / NC / NO; it uses an auxiliary power supply to supply power to the magnetic lock, the negative pole of the auxiliary power supply is connected to the COM terminal of the interface, the NC terminal of the interface is connected to the negative pole of the magnetic lock and the positive pole of the auxiliary power supply is connected to the positive pole of the magnetic lock.
- > Network interface: Network connecting interface, 10/100m self-adaption.
- Exit button: The Exit button is connected to black/blue wires, with a corresponding implication of G N D / OPEN_DOOR.
- Door state: The door state interface is connected with black/gray wires, and is externally connected to a door magnet device.
- ➢ Fire alarm interface: The fire alarm interface is connected with black/purple wires, and is externally connected to a switching-value fire alarm signal line.
- Under-voltage alarm interface: The under-voltage alarm interface is connected with brown/white wires and is connected with a power supply under-voltage alarm signal line.

2.3 Indoor stations

Model No.	Appearance	Main parameters
V31	LEELEN	Working Voltage: DC12-24V±10% (SPOE support) Max Power Consumption: ≤5.5W Standby Power Consumption: 1.7W Display: 7-inch TFT LCD Operation: Capacitive Touch/Capacitive Pushbutton Installation: Surface Mounting Panel Material: PMMA Dimension(mm): 200×140×15.9
V32		Working Voltage: DC12-24V±10% (SPOE support) Max Power Consumption: ≤5.5W Standby Power Consumption: 1.7W Display: 7-inch TFT LCD Operation: Capacitive Touch/Capacitive Pushbutton Installation: Surface Mounting Panel Material: PMMA

2.3.1 Appearances and main parameters of indoor stations

V33		Working Voltage: DC12-24V±10% (SPOE support) Max Power Consumption: ≤5.5W Standby Power Consumption: 1.7W Display: 4.3-inch TFT LCD Operation: Capacitive Touch Installation: Surface Mounting Panel Material: PMMA Dimension(mm): 175×114×15.9
E60	LEELEN	Working Voltage: DC12-24V Max Power Consumption: ≤9 W Standby Power Consumption: 3W Display: 7-inch TFT LCD Operation: Capacitive Touch Installation: Surface Mounting Panel Material: Tempered Glass Dimension(mm): 239×139×20

2.3.2 Installation of Indoor stations

Installation instructions (applicable to V31, V32, V33 and E60)

Instructions on installation steps:

- Embed pipelines and a pre-embedded box and fix the hanging board with screws.
- After the lines and the indoor station are connected, the magnet steel on the back of the indoor station is aligned with the convex point on the hanging board, and then the indoor station is hung on the hanging board.
- Please confirm that the device has been stably hung and orderly placed.

2.3.3 Instructions on device wiring interfaces

2.3.2.1 Wiring diagram of V31 and V32 device terminals:

2.3.2.2 Wiring interface of V33:

2.3.2.3 Wiring interface of E60:

Description of relevant interfaces of indoor stations

Interface	Wiring	Wiring definition and color
Network interface	This interface is connected to	Connection method of the crystal heads of the power
	the network distributor/switch	cable 586B—586B
	using a straight-through line.	
Power interface	Red and black wires are	Red Black
	connected with a 18V power	18V GND
	supply.	
Alarm Zone	Interface connected to 8 paths	Red Black Yellow Yellow Yellow Yellow
interface	of wired zones	Yellow Yellow Yellow
		12V GND A1 A2 A3 A4 A5 A6 A7 A8

Interface description:

Anti-removal interface: An interface for monitoring the removal state of the device. (Note: 4.3-Inch indoor station has no such interface.)

- > Power interface: Power input, supports DC12-24V, supports SPOE power supply.
- > Network interface: Network connecting interface, 10/100m self-adaption.
- > Alarm Zone interface: An interface connected to the alarm device.
 - The 7-inch indoor station has 8 zones, and supports the 8th zone as the doorbell.
 - The 4.3-inch indoor station has 4 zones, and supports the 4th zone as the doorbell.
 - Wiring diagram of the zone infrared sensor:

2.4 Networking and intermediate devices

2.4.1 Appearances and main parameters

Networking and	Appearance	Main parameters
intermediate devices	Appearance	Main parameters

24V Switch power supply	LEELEN AND POWNET Supply EH-PS-D5-EN1 HPUT: 100-340V- 1.3Amax: 00 400H 1.3Amax: 00 40H 1.3Amax: 00 40H 1.3Amax: 0	Input voltage: AC90V-AC240V/50-60Hz Maximum input power supply: 0.36Amax Output voltage: 24VDC±4V (red + black-) Output current: 2.5A Static power consumption: 05W Working temperature: -40°C ~55°C; Protective grade: IP30 Appearance size: 169×61×124 (mm) Installation mode: Wall-typed installation
Digital network distributor		Working voltage: 18~24V DCStatic power consumption: 05WWorking temperature: -25°C~70°C;Capacity: 8 piecesInterface: RJ-45 interface/RS485interfaceProtective grade: IP30Appearance color: iron grayPanel material: ABS plasticAppearance size: 200×95×30(mm)Installation mode: Wall-typedinstallation
Digital access controller		Working voltage: 12~24V DC Static power consumption: 1 W Working temperature: -40°C ~70°C; Capacity: 30,000 pieces Interface: RJ-45 interface/RS485 interface/fire alarm interface Protective grade: IP30 Appearance color: iron gray Panel material: ABS plastic Appearance size: 200×95×30 (mm) Installation mode: Wall-typed installation

2.4.2 Device installation

2.4.2.1 Installation manner of 24V power supply

Use two screws to fix the power supply in an intelligent box which is about 160cm above the ground, as shown in the figure (the schematic installation diagram can be seen in the figure below).

Precautions for installation:

- Before installation, please read the product manual first, confirm the wiring manner, and confirm that the input voltage is consistent with the product requirements.
- Please use the power supply within the range of the technical parameters, or the product may be damaged.
- Non-professionals may not open the outer casing or disassemble the product, or an electric shock or product damage may be result.
- Do not install the device outdoors or at a dusty place.
- High Voltage. Danger! Non-professionals may not open the outer casing.

2.4.2.2 Installation modes of the digital network distributor and digital access controlle

> Installation of DIN rail

Pull out the slide fastener on the back of the device and install the device on the guide rail rack of the case.

Fasten the slide fastener on the device to complete the installation.

Installation on the wall

Drill two screw holes at a distance of 10cm at proper positions, screw in plastic bases and lock screws.

Align the hollow spaces on the back of the device with the screw heads, and then hang the device on

the screws.

Installation completed

Installation manner of access card reader
 Use screws to fix the rear cover on the 86-type pre-embedded box.

Fasten the front cover on the back of the rear cover.

Lock the front and rear cover with screws to complete the installation.

2.4.3 Instructions of device wiring

2.4.3.1 Wiring diagram of 24V switch power supply:

2.4.3.2 Wiring diagram of digital network distributor:

2.4.3.3 Wiring diagram of access controller:

2.4.3.4 Wiring diagram of access card reader:

Wiring description

Card	reader	Digital access control	Door state	Exit button	Power supply	Fire alarm	Lock
	NO						Black
	NC						White
	COM						Grey
10 Car	+				Violet		
10-Cor	-				Blue		
e	FIRE					Green	
SUCKEI	G					Yellow	
	G		Orange	Orange			
	STATE		Red				
	OPEN			Brown			
Access	А	Red					
control	В	Black					

2.5 Center Guard Unit (model No.5)

2.5.1 Appearances and main parameters

Technical parameters:

Working voltage: DC12-24V±10% Maximum power consumption: 8W Standby power consumption: <3W Operating system: linux operating system CPU: dual core A7 Main screen: dual core 1.2GHz RAM: 8G Flash: 2G Screen: 10.1-inch TFT LCD Resolution: 1280*800 Video format: H.264 Transmission mode: TCP/IP network transmission Operating manner: capacitive touch

2.5.2 Desk top installation of the device

Precautions:

- Do not install the center guard unit in a damp environment.
- The desk where the center guide unit is placed should be kept clean and flat.
- The center guide unit should keep a sufficient distance from other devices to ensure airflow and sufficient heat dissipation.
- Do not place any articles on the center guide unit to avoid damage to the display screen and internal

elements of the center guide unit.

■ High Voltage. Danger! Non-professionals may not open the outer casing.

2.5.3 Instructions on device wiring

Diagram of backboard of guard unit

Interface of guard unit	Wiring	Wiring definition and color
Network interface	This interface is connected	Connection method of the crystal heads of the
	to the network switch using	power cable 586B—586B
	a straight-through line.	
Power interface		Red Black
		18V+ GND

3. Commissioning manual

3.1 Precautions for commissioning

Preparations for commissioning

- Collect information of the residential community, formulate a call code table and an IP plan of the residential community.
- > Test wires and ensure wires are smooth.
- Check if the device wiring is correct, in particular the wiring of the power supply and pay attention to the wiring of the positive and negative poles of the power supply.
 Precautions for commissioning
- > Power on the system and if there are abnormalities, cut off the power supply immediately and eliminate abnormalities.
- During commissioning within a building, follow the principle of "checking, powering on and commissioning layers one by one."
- During the commissioning of the main platform, follow the principle of "checking, powering on and commissioning buildings one by one."
- > When the system is powered on, it is forbidden to replace or wire the device.

3.2 Commissioning flow

3.3 Parameter planning

3.3.1 Sub-network division

Description of sub-network division

Before IP planning, check the number of the intercom device that are needed according to actual situations. The IP address is required to be greater than the number of all devices of a residential community because every device

needs an IP address.

Simple classification (three types: sub-net masks of A, B and C types of networks can be used.)

- type IP address and sub-net mask
 - ♦ Take 1 9 2 . x xx . x xx . x xx as an example
 - ♦ Range of IP address: 1 9 2 .0 .0 . 1 ~ 1 9 2 . 2 5 5 . 2 5 5 . 2 5 4
 - ♦ Default sub-net mask of A-type network: 2 5 5 .0 .0 . 0
 - \Rightarrow IP quantity: 2 5 6 x 2 5 6 x (2 5 6 2) = 1 6 6 4, 6 1 4 4
- B-type IP address and sub-net mask
 - ♦ Take 1 9 2 . 1 6 8 . x xx . x xx as an example
 - ♦ Range of IP address: 192.168.0.1~192.168.255.254
 - ♦ Default sub-net mask of B-type network: 2 5 5 . 2 5 5 . 0 . 0
 - \Rightarrow IP quantity: 2 5 6 x (2 5 6 2) = 6, 5 0 2 4
- C-type IP address and sub-net mask
 - ♦ Take 1 9 2 . 1 6 8 .1 . x xx as an example
 - ♦ Range of IP address: 192.168.1.1~192.168.1.254
 - ♦ Default sub-net mask of C-type network: 255.255.0
 - \Rightarrow IP quantity: 2 5 6 2 = 2 5 4

According to our project characteristics, our project is usually a local area network project of a residential community. Generally, a residential community includes thousands of apartments. We select the B-type IP address.

E.g.: With 1,500 homes, our IP range is:

- 192.168.1.1~192.168.1.254
- 192.168.2.1~192.168.2.254
- 192.168.3.1~192.168.3.254
- 192.168.4.1~192.168.4.254
- 192.168.5.1~192.168.5.254
- 192.168.6.1~192.168.6.254
- sub-net mask can be set as 2 5 5 . 2 5 5 . 2 4 8 . 0.

IP division and sub-net mask of device

We employ B-type IP address. 192.168.x. x as an example to divide subnets.

Quantity of	Quantity of IP in each	Sub-net mask	Range of IP in each segment
segments	segment		
1	65024	255.255.0.0	192.168.0.1~192.168.255.254
2	32512	255 255 128 0	192.168.0.1~192.168.127.254
2	32312	233.233.128.0	192.168.128.0~192.168.255.254
4 16256		255.255.192.0	192.168.0.1~192.168.63.254
	16256		192.168.64.1~192.168.127.254
			192.168.128.0~192.168.191.254
			192.168.192.1~192.168.255.254
			192.168.0.1~192.168.31.254
8	8128	255.255.224.0	192.168.32.0~192.168.63.254
			192.168.192.1~192.168.223.254

			192.168.224.1~192.168.255.254
			192.168.0.1~192.168.15.254
			192.168.16.0~192.168.31.254
16	4064	255.255.240.0	
			192.168.224.1~192.168.239.254
			192.168.240.1~192.168.255.254
			192.168.0.1~192.168.7.254
			192.168.8.0~192.168.15.254
32	2032	255.255.248.0	
			192.168.240.1~192.168.247.254
			192.168.248.1~192.168.255.254
			192.168.0.1~192.168.3.254
			192.168.4.0~192.168.7.254
64	1016	255.255.252.0	
			192.168.248.1~192.168.251.254
			192.168.252.1~192.168.255.254
128	Not recommende	ed!	

3.3.2 Planning of the call number of a device

3.3.2.1 Collect information of a residential community

information of a residential community includes the quantity of enclosure outdoor stations, quantity of buildings, quantity of ladder ways, floors of each ladder way, number of houses on each floor and quantity of the entrance machines and indoor stations of each house.

3.3.2.2 Formulate rules for the call number of a device

The call number of a device has 8 digits, divided into a unit-number section and a home-number section.

The rules for unit numbers are formulated first: A unit number is four-digit, where the former two digits are the building number, while the latter two are the unit number, for example the unit number of unit 01 of building 01 is 0101.

Then, the rules for home numbers are formulated: A home number is also four-digit, where the former two digits are floor number and the latter two are house numbers, for example, the home number of house 03 on floor 8 should be 0803.

For example, a certain indoor station is installed in house 03 on floor 8 of unit 01 of building 01, then the call number of the indoor station should be 0101-0803.

If there are several indoor stations in a home, then 9-digit call numbers can be configured for the indoor stations, where the former 8 digits are the unit number and house number of the home and the 9th digit is the sequence number of the indoor station. For example, the home 03 on floor 8 of unit 01 of building 01 is equipped with three indoor phones, then the call numbers of the three indoor stations are 0101-0803-1,0101-0803-2 and 0101-0803-3,

respectively.

3.3.2.3 Formulate rules for the call number of an outdoor station

An outdoor station usually includes enclosure outdoor station and building outdoor station.

The call number of an enclosure outdoor station is 8-bit, where the former four bits are usually set to be 8888, and the latter four are usually the sequence number. For example, if a residential community has four enclosure outdoor station and then the number of the four enclosure outdoor stations are 8888-0001, 8888-0002, 8888-0003 and 8888-0004 in sequence.

The call number of a building outdoor station is 8-bit, where in the former four bits are unit number, and the latter four are sequence number which usually starts from 0001. For example, if the unit 01 of building 01 has two building outdoor stations, then the call numbers of the two building outdoor stations are 0101-0001 and 0101-0002 in sequence.

3.3.2.4 Formulate rules for the call number (*e.g.:* Model No.15) of a flat outdoor station (a secondary video doorbell installed at a higher home)

The call number of a flat outdoor station usually includes 8 bits, where the former four are consistent with the device number of the unit, while the latter four are the indoor station number + 8000.

For example, for the flat outdoor station of the home 03 on floor 8 of unit 01 of building 01, the call number should be 0101-8803.

(Note: 0803 + 8000 = 8803)

3.3.2.5 Rules for the call number of the digital access controller

The call number of the digital access controller is 8-digit. The number is set according to the position where the device is installed. If the digital access controller is installed at a position of the enclosure, then the call number is progressively increased according to the rules for the call number of the enclosure outdoor stations. If the digital access controller is installed at a ladder way, then the call number is progressively increased according to the rules for the call number is progressively increased according to the rules for the call number is progressively increased according to the rules for the call number is progressively increased according to the rules for the call number of the building outdoor station.

For example, if a certain residential community has two enclosure outdoor station s and two digital access controllers installed at the enclosure, then the call numbers of the enclosure outdoor stations are 8888-0001 and 8888-0002 in sequence and the call numbers of the digital access controllers are 8888-0003 and 8888-0004 in sequence.

For example, if the unit 01 of building 01 has two building outdoor station and two digital access controllers installed at the enclosure, then the call numbers of the elevator machines are 0101-0001 and 0101-0002 in sequence, and the call numbers of the digital access controllers are 0101-0003 and 0101-0004 in sequence.

3.3.2.6 Rules for the call numbers of Guard Unit and management software

The call number of a guard unit is 8-digit, where the former four digits are usually set to be 9999, and the latter four are usually the sequence number. For example, if a certain residential community has two guard units, then the call numbers of the two guard units are 9999-0001 and 9999-0002 in sequence.

The call number of a piece of management software is 8-digit, where the former four are usually set as 9999, while the latter four are progressively increased according to the call number of the guard unit, for example, the call number of the management software is 9999-0003 under the condition that there are two guard units.

3.3.2.7 Set call modes

The call number of a device is a number input by a user to call a certain device. For example, if a user using a certain outdoor station to call an indoor station in room 03 on floor 8 of unit 01 of building 01, it only needs to input the call number (0101-0803) of the outdoor station at the indoor station, and then the user can call the indoor station and perform intercom.

During actual applications, users do not need to input all the 8 digits to call an indoor station. Users can set the bit of digitals of a call number in the parameter setting menu of the outdoor station according to actual situations to reduce the digits of a call number input to call an indoor station.

After a user sets the calling digits in the outdoor station, the outdoor station will supplement the former digits automatically according to the call number of the outdoor station itself and the call number input by the user before making a call.

For example, if a user sets a 3-bit call number in the parameter setting interface of an outdoor station, the outdoor station automatically generates the final call number according to the former 5 digits of the call number of the outdoor station itself and the 3-bit call number input by the user to make a call after the user inputs the 3-bit call number.

For example, if the call number of an outdoor station itself is 0101-0001 and the set call number is a 3-bit outdoor station automatically generates the final call number according to the former five digits of the call number of the outdoor station itself and the 3-bit call number input by the user to make a call when the user inputs the 3-bit call number.

Note: The digits of a call number should be set according to actual situations. Generally, the call number of the Enclosure outdoor station is 8-bit, and the call number of the ladder way outdoor station is 4-bit. If the total floors of a certain ladder way are less than 10, the call number can be set to be 3-bit.

If a user wants to set a 2-bit call number, the user can define rules of the call numbers of the outdoor station and indoor station again according to actual situations, thus realizing 2-bit calling.

Rules for call number:

- XXXX (unit number) XXXX (home number)
- For example, for unit 01 of building 01, the first outdoor station can be set as 0101-0001.
- For a home 0803, the indoor station can be set as 0101-0803.
- For a 3-digit contact number, it can be set as XXXX-0XXX.
- The outdoor station is usually set as XXXX-0001.
- The management guard unit is usually set as 9999-0001.
- The management software is 9999-0002 by default.
- The contact number should be set according to the above rules as possible as it can, and 0 is used to supplement lacking digits.

3.3.3 Application cases

- Information collection of a residential community: A residential community has six high buildings; each building has one unit; each unit has 30 floors; there are four houses on each floor; there is an access at the underground floor 1; the residential community has two access doors, and one management center. Besides, there are two villas, each with two access doors and four indoor stations. According to the above information, it is known that, the residential community has indoor stations:
 - \diamond 6 (building) x 1 (unit) x 3 0 (floor) x 4 (house) x 1 (indoor station) = 7 2 0
 - \diamond There are 8 indoor stations and 4 outdoor stations for the villas.
 - \diamond Quantity of the outdoor stations: 6 (building) x 1 (unit) x 2 (pieces) = 12

- \diamond Quantity of the enclosure outdoor stations: 2
- \diamond Quantity of the center guide unit: 1
- ➢ Formulate IP rules:

Select the B-type IP to divide network segments. The network is divided into 16 segments, one of which is selected to set IP.

- Formulate ID number rules:
 - ♦ Building No.: 2-bit
 - ♦ Unit No.: 2-bit
 - ♦ Floor No.: 2-bit
 - ♦ Home No.: 2-bit

Parameter planning list of indoor stations:

Parameters of unit 01 of building 01 are as follows:				
Floor	Home	SN	J	IP address
	1	0101-	0101	192.168.1.10
1	2	0101-	0102	192.168.1.11
1	3	0101-0103		192.168.1.12
	4	0101-0104		192.168.1.13
	1	0101-	0201	192.168.1.14
2	2	0101-0	0202	192.168.1.15
2	3	0101-0	0203	192.168.1.16
	4	0101-	0204	192.168.1.17
	1	0101-0801		192.168.1.38
o	2	0101-0802		192.168.1.39
0	3	0101-0803		192.168.1.40
	4	0101-0804		192.168.1.41
	1	0101-3001		192.168.1.126
20	2	0101-3002		192.168.1.127
50	3	0101-3	3003	192.168.1.128
	4	0101-3004		192.168.1.129
Outdoor station parameters of unit 01 of building 01 are as follows:				
Position	SN IP addr		IP address	
1 layers	0101-0	0001	-	192.168.1.2
Undergroun d floor 1	0101-0081			192.168.1.3

The IP parameter of the indoor station of the unit 01 of building 02 can be set in a range from 1 9 2 .1 6 8 .2 . 1 0 to 1 9 2 .1 6 8 .2 . 1 2 9.

For the serial number of a villa, usually, the unit is set as 1111. A villa can be regarded as one unit with a uniform unit number.

For the serial number of the outdoor station of the villa, the 5th digit can be declined from 9 or 8 in turn, and it is ensured that there is no conflict with the numbers of other devices.

Villa	Indoor station number	SN	IP address
	1	1111-0001-1	192.168.7.10
01	2	1111-0001-2	192.168.7.11
01	3	1111-0001-3	192.168.7.12
	4	1111-0001-4	192.168.7.13
Outdoor stat	ion01 of villa	1111-9001	192.168.7.14
Outdoor station 02 of villa 01		1111-8001	192.168.7.15
	1	1111-0002-1	192.168.7.16
02	2	1111-0002-2	192.168.7.17
02	3	1111-0002-3	192.168.7.18
	4	1111-0002-4	192.168.7.19
Outdoor station 01 of villa 02		1111-9002	192.168.7.20
Outdoor station 02 of villa 02		1111-8002	192.168.7.21

The serial number of a villa is as follows:

Enclosure outdoor station No.

Position	SN	IP address
1	8888-0001	192.168.8.10
2	8888-0002	192.168.8.11

Center guard unit No. and center PC No.

Position	SN	IP address
Center guide unit	9999-0001	192.168.8.2
Center PC machine	9999-0002	192.168.8.5

Setting of public parameters of a residential community: Subnet mask of all devices: 255.255.0.0

Gateway of all devices: 192.168.1.1

3.4 Description of commissioning of guard unit

3.4.1 Necessary parameters to be set

Device address Input "9999999" in the engineering setting column to enter the setting interface. Set the device number and IP address of the guard unit. Select defaults for other items.

3.4.2 Parameter setting method

	User Settings Menu
	Display Settings
	Password Settings Unlock Settings User
	Monitor Settings
	Restore Settings (2) About Device Back
Duty	The guard unit can be set on an on-duty state or off-duty state. In the off-duty state, an incoming call is transferred to a guard unit of the next level.
Intercom	On the intercom interface, you can input the device number using the guard unit to perform intercom.
SOS Records	Check the records on SOS signals initiated by the indoor station in the SOS Records.
Alarm Records	Check the records on zone alarms initiated by indoor stations in the Alarm Records.

3.5 Instructions on commissioning of outdoor stations

3.5.1 Instructions on parameters to be set on the outdoor stations

Network IP: Set the IP address, gateway and sub-net mask of the device according to the parameters planned in the project and check the MAC address.

Address ID: Set the device number, management number, management center number and outdoor station type of the device according to the planned parameters.

3.5.2 Instructions of parameter settings

Instructions of the outdoor station setting menu: (for example, the outdoor station of unit 01 of building 01 can be set as 0101-0001).

outdoor station system access setting:"*90*+1234*", or press the "Set" key through the "Set" hole on the back to enter the outdoor station system setting interface. 1234 is the default engineering password of the outdoor station device. Users can modify the password in the outdoor station settings.

Item	Setting instructions
Access card	Has functions of access control configuration, resident card management, property
management	card, registered face recognition, blue-tooth, QR code, etc.

	Set the IP address, gateway and subnet mask of the device according to the parameters planned in the project.		
	Network Settings		
	IP Address 192 · 168 · 1 · 2		
Network	Gateway 192 · 168 · 1 · 1		
	Subnet Mask 255 · 255 · 0 · 0		
	DNS 192 · 168 · 1 · 1		
	Press ▲▼ move, ¥ return, # select		
	Set the device number, management number, management center number, and outdoor station type of the device according to the planned parameters.		
	Address Settings		
	Device No. 0101 - 0001		
Address	Manager No. 9999 - 0001		
	Center Computer 9999 - 0002		
	Host Type(1:Unit 2:Wall) 1		
	Press ▲▼ move, ¥ return, # select		
Varian	Check the software version, hardware version, core version, face version, blue-tooth		
version	address.		

	2 2					
	Screen Saver 1/2					
	Enter The Screen Saver Time					
	Screen Saver Mode					
	Press ▲ ▼ move, ★ return, # select					
	Set engineering password. Default engineering password is 1234.					
	Engineering Password Settings					
	New Password					
Deceword	Reconfirm					
Password						
	Press ▲ ▼ move, ¥ return, # select					
	Set language.					
	Language 3/3					
Language	中文简体					
	山立敏休					
	English					
	Press ▲▼ move, ¥ return, # select					
ne-key-acquire	Press one key to acquire parameters of the device in the configuration software.					

	A Key To Get					
	Device ID Code 0101 - 0001					
	Center Computer 9999 - 0002					
	Please press # to get the parameters					
	Press ▲▼ move, 🛠 return, # select					
Select to re-set to factory default.						
	Reset All Settings?					
Reset to factory default	Yes(Device will restart)					
	No					
	Press ▲ ▼ move, ¥ return, # select					

3.5.3 Device commissioning steps

- > Confirm the number of the guard unit.
- > Use the "Security" button of the outdoor station to call the guard unit.
- > The guard uneit confirms if the number of the outdoor station is correct.
- > The guard unit answers the call and confirms the audio and video quality.
- > The guard unit unlocks the door and then confirms that the unit door has been unlocked.
- > All the above items are confirmed, and then the commissioning is complete.

3.6 Instructions on indoor station commissioning

3.6.1 Necessary parameters to be set of the indoor station

Click on the setting key of at the right lower corner on the desk top of an extension, select "engineering setting"

and input the password "9999999" to enter engineering setting: Modify the device number and IP in the address information column (for example, the indoor station of the resident with a home number 0803 can be set as 0101-0803).

Item	Instructions				Remarks
	Input the password "	999999" to enter the	engineering setting i	nterface.	
	Engineer's password! 💉 🔒				
	1	2	3	ு User	
	4	5	6	Engineer	
	7	8	9		
	\otimes	0	\odot		
Settings	Modify the device nu				
				¢	
	Address Ir	ıfo	Monitor	्रि User	
	Security	En	g Password	Engineer	
	Paramete	Othe	er Parameters		

3.6.2 Indoor station setting method

1			Absent		
	─ No.1		Permanent	SOS	C
	─ No.2		Permanent	Smoke	9.
	─ No.3		Permanent	Gas	्र User
	O No.4		Immediate	IR	×
	O No.5		Immediate	IR	Engineer
	O No.6	34	Immediate	Door magnet	
	O No.7		Delay	Prohibit	
-	O No.8		Delay	SOS	
	1/1	1			
	Home sett	ing: check e	effective zones i	n the home mode.	
ſ			Home		
	✓ No.1		Permanent	SOS	C
	✓ No.2		Permanent	Smoke	9
	✓ No.3		Permanent	Gas	User
	🚫 No.4		Immediate	IR	×
	─ No.5		Immediate	IR	Engineer
	🚫 No.6		Immediate	Door magnet	
	🕑 No.7		Delay	Prohibit	
	🚫 No.8		Delay	SOS	
	1/1	1			
s a s	Arm delay set to the mo arm-and-work small allowanc Alarm del Generally, Alarm rep been trigg alarm info allowance Remove so when the o	time: leng oment when situations. C e. ay time: a t the arm del eat time: if a ered, the sy prmation. T etting: it is u levice is dis	th of time delay n zones work, Generally, the ar ime length for ay time is 60 se a zone is re-trig stem does not h 'he default sett used to set whet mantled. This it	from the moment of for the purpose m delay time is 60 alarming after a zo econds, with a small gered within 60s aft handle the re-triggen ing is 60 seconds ther or not an alarm tem is switched to the	when zones are of preventing seconds, with a one is triggered. I allowance. I allowance. I ter the zone has ring and record b, with a small a sound is given urn on or off.
5	Set the number	of the elev	ator-control ou	tdoor station of the	

3.6.3 Test steps after device parameter setting

- > Confirm the number of the guard unit.
- > Use the "Security" button of the outdoor station to call the guard unit.
- > The guard unit confirms if the number of the outdoor station is correct.
- > The guard unit answers the call and confirms the audio and video quality.
- > The guard unit unlocks the door and then confirms that the unit door has been unlocked.
- > All the above items are confirmed, and then the commissioning is complete.

3.7 Web setting parameters (parameter setting of Model No.8 and

Model No.15 Outdoor Station)

In addition to modifying parameters on the device, you can also modify parameters through web setting.

The operating steps are as follows:

- \diamond Open the browser (the latest 360 browser/QQ browser are recommended).
- \diamond Input the IP number of the device (see the default device IP in the table below).
- \diamond Input the user's name and password (the user's name is admin and the password is 123456/999999/111666).

Default device IP:

Name	Default device IP
Model No.8 outdoor station	192.168.1.8
Model No.10 outdoor station	192.168.1.16
Model No.15 outdoor station	192.168.1.15

E.g.: (Model No.15 outdoor station) To avoid same with any indoor station, we suggest to set the device No. for No.15 outdoor station as 0101-8803, i.e. the indoor station device No. + 8000

(Note:0803+8000=8803)

8/15 Host Parameter Configuration	Save		
Network/Address		Entrance	
IP Address	192.168.1.8	Digital Access Controller Switch	Close •
Subnet Mask	255.255.0.0	Digital Access Controller Number	1111-0008
Gateway	192.168.1.1	Access Control Lock Number	0 (1~4)
DNS	192.168.1.1	Swiping Card to Arm or Disarm	Close •
Device No.	1111-0001	Management Card Function	Close •
Guard Unit No.	9999-0001	The Property Card Patrol Function	Close V
Service center No.	9999-0002	Copy Card Prevention Function	Close V
OS Type	Block Unit 🔻	Password To Unlock	Open •
MAC Address		Network Environment Settings	100M •
SN Information]	
		Limited Time Settings	
Display/Volume		Unlock Time	5 (0~253)s
Language Settings	English •	Door Status Switch	Close •
Ring Volume	60 • %	Opening Time	3 (1~300)s
Speech Volume	60 • %	Time-limited Service	Close •
Ring	ring1 V		
Camera Tone	Close •		

		Dial/Message Settings	
Dial-up Address		Dialing No.	4 (1~8)
	Button 0 9999-0001	Message Function	Open •
Button 1 1111-2221	Button 4 1111-2224	Time To Wait For Message Prompt	35 (5~40)s
Button 2 1111-2222	Button 3 1111-2223		
		Date/Time Settings	
Unlock Password		Get Time	Set Time
New Password	Please enter 4 passwords	Date Settings	Year - Mon - Day
Confirm Password	Please enter 4 passwords again	Time Settings	Hour : Min : Sec
			Save Time

Modify the parameters needing to be modified in the Web page, and click on "Save."

3.8 Installation and commissioning of management software

See the individual User Manual for installation of the management software.

3.9 Commissioning steps of the main platform

- Check if the home alarm, outdoor station and management software can receive messages from the main platform.
- Check if the outdoor station can call indoor station and if the outdoor station can call the management machine and unlock doors.
- > Check if the management software download is jammed.
- > Check if the outdoor station can sweep card and unlocks doors.