MIO MONITOR
INSTALLER'S MANUAL

ENGLISH Version

Cod. 970135Ib V09_18

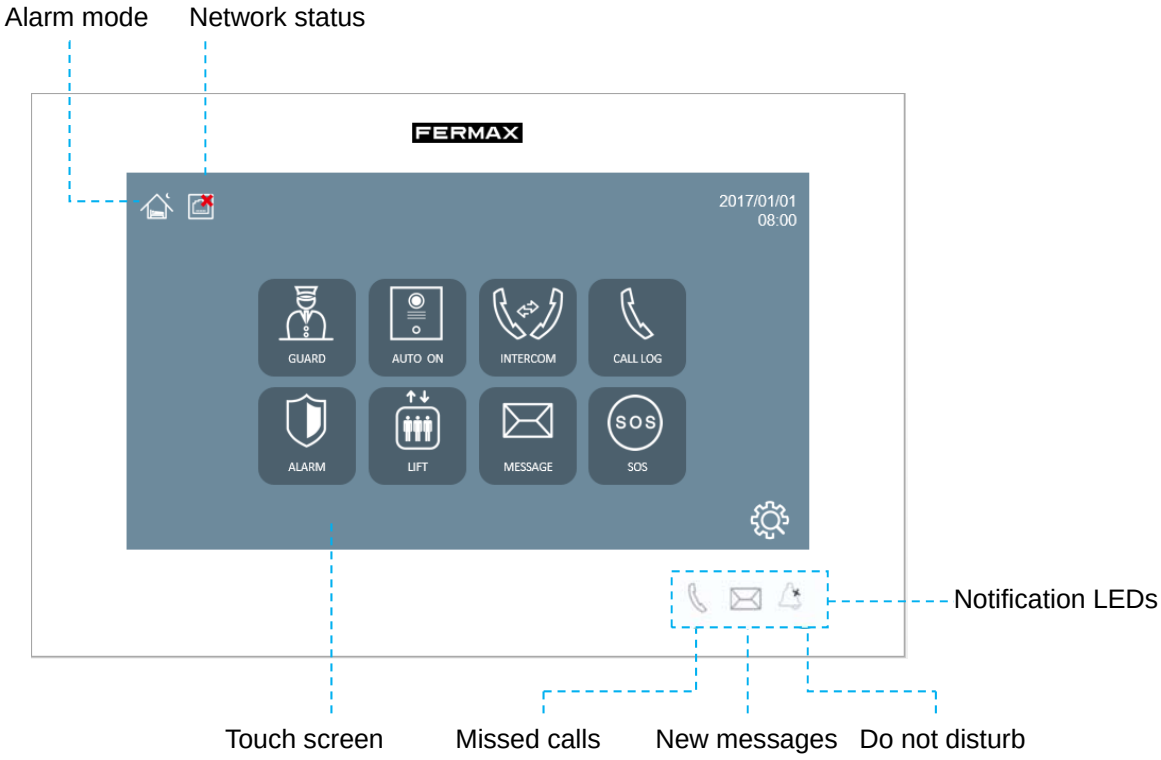
This manual corresponds to MIO Monitor firmware version V2.0.

FERMAX ELECTRÓNICA S.A.U.
http://www.fermax.com
MIO Monitor manual available at https://www.fermax.com/qr/meet/

INDEX

1 Product Introduction

1.1 Overview



2 Functions Overview

- Call reception and door lock release
- Call to guard unit
- Panel auto swtich on
- Apartment to apartment intercom
- Messages
- Alarms (Only when installed)
- Lift control (Only when installed)
- Relay Control (Only when installed)
- Scenes control
- APP Applications
- SOS
- Do not disturb
- Ringtone setting
- Screen setting

- Date/Time settings

3 Function Introduction

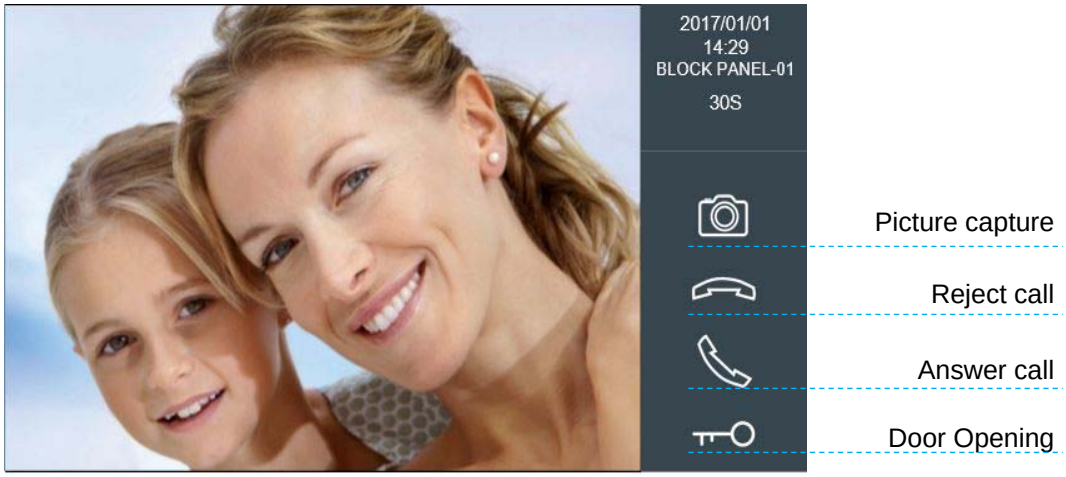
3.1 Call Reception And Release lock

Monitor can send or receive calls from:

- Outdoor panels
- Guard Units
- Other apartments in the same installation

The monitor can establish conversation, capture pictures and release door lock when the monitor is connected to the outdoor panel.

REMARK: The monitors with same room number can't call each other.



3.2 Audio setting.

The audio volume can be adjusted with the setting bar. This volume adjustment bar is only available when the audio is active.

You can press up or down volume icon, the volume will be saved automatically.

MUTE:Temporarily turn off the microphone, to prevent an indoor conversation from being heard at the outdoor panel.

3.3 Extended Unlock

If extended relays are defined in the monitor, a menu with more unlock options will be displayed after the resident touch release lock icon. The resident can select and acitvate any of the 4 relays available on the ref.1491 4 Relay module connected to the panel.
The number of relays used for extended unlock can be set on monitor's web server setup.

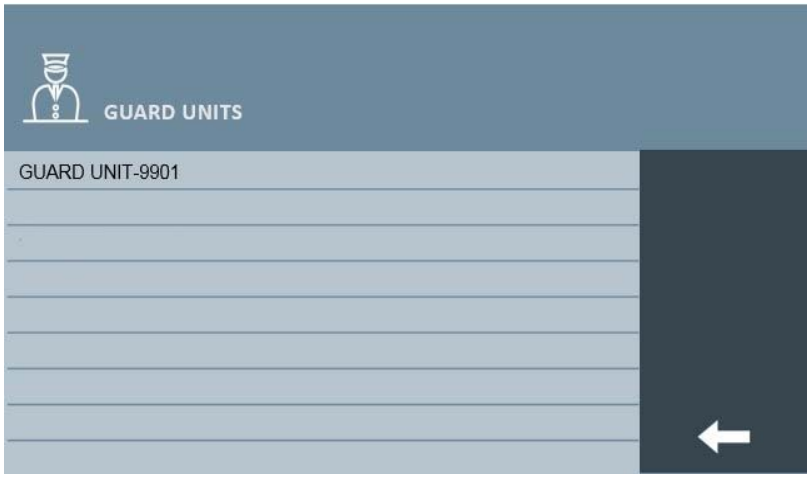
3.4 Switching to IP Cameras related to the panel

The monitor can switch the video to an auxiliar IP Camera when the monitor is in conversation with the panel. The number of the IP cameras can be set on web server of the monitor. 0-4 optional.

The settings related to the IP cameras (like door lock relationship) need to be setup on the web server of the panel.

3.5 Guard Unit Call

The resident can call to any available guard unit by selecting it from the guard unit list. Only 9901, 9902, 9903, 9904, 9905 can appear in the guard list.



3.6 Panel Auto On

The resident can select any available outdoor panel from the panel list. After auto on, the monitor will receive audio and video from the panel (no audio from monitor to the panel will be sent) . The monitor will send audio to the panel if answer call icon is pressed on the monitor.

***REMARK*:** Panel auto on function is available only for block panels and 1W panels. Not available for General entrance panels. Only block panel numbers from 1 to 9 will appear on the list.

3.7 Auto On-IP Camera

Touch the **IP Camera** icon.

The name of IP camera will be shown in the IP camera list interface. Maximum of 8 IP cameras can be displayed.
Select the desired camera to display the image. The video of IP camera will close if the panel or guard unit calls to the monitor. The video of IP camera will not close if the door bell is activated.

***REMARK*:** The camera still appears in IP camera list even if the IP camera is disconnected from the network. There is no autodiscovery process on IP cameras.

3.8 Door release for IP CCTV Camera

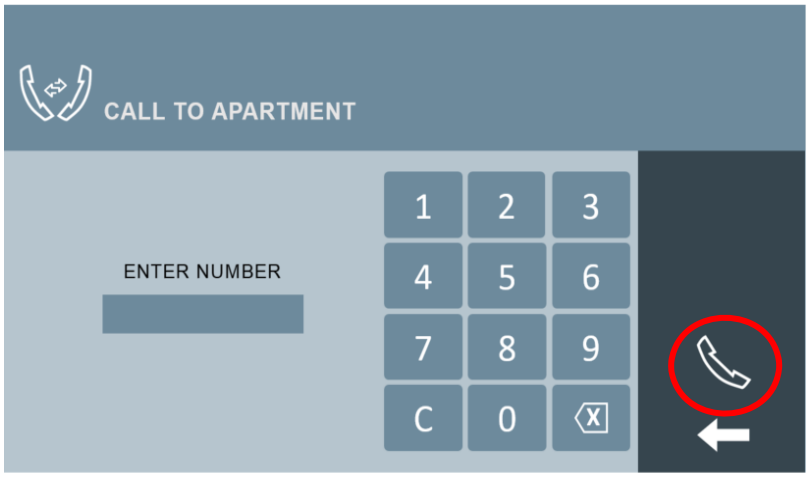
The resident can open the door lock related to an specific CCTV camera just pressing the key button. This key button will open the lock associated to each CCTV camera. These locks can be selected from the ref. F01491(4 relay module) connected to panel 1.

3.9 IP Camera activated by Door Bell

The monitor will display the video of a selected IP camera when the doorbell is actived. This function can be set at ‘IP Camera’ settings on the monitor’s web browser.

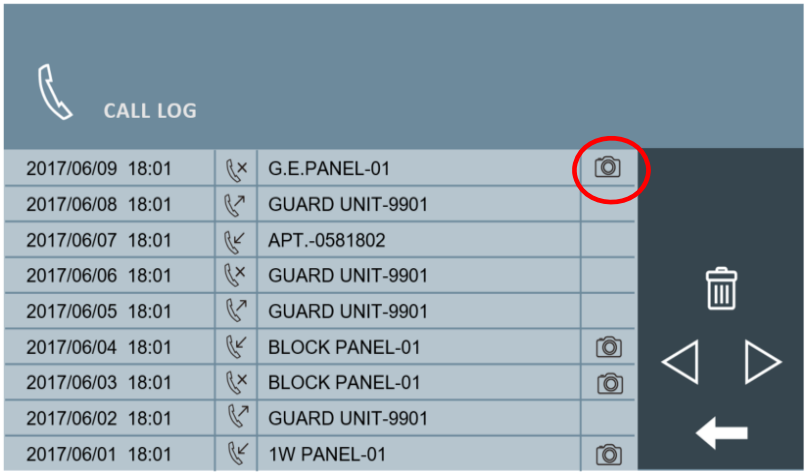
3.10 Intercom

The resident can call to other apartments by dialing the apartment's number.
To call to other apartment it shoud be used the monitor number (block number + apartment number), and click the calling icon. For example, call to block 1 and apartment 0101, input 1 0101 and press call icon. The system will automatically add “0” in before the block number.



3.11 Call Log（replace picture）

If there are events with a camera icon on it, the user will be able to review the photo done during the call by by double clicking event.
The image will appear.
The user can delete the call log.



3.12 Alarm

■ Alarms (Only when installed)

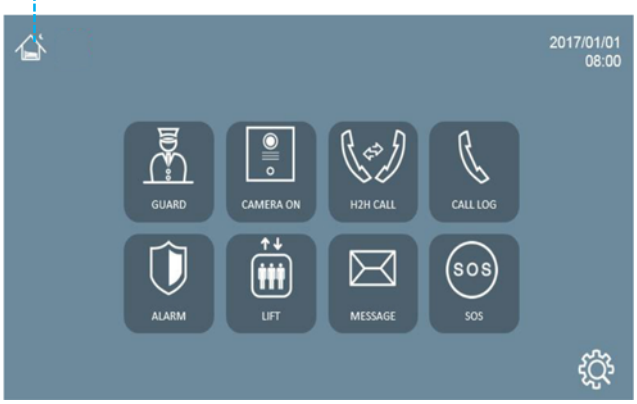
Home mode: sensors set to be active under home mode will be armed.

Sleep mode: sensors set to be active under sleep mode will be armed.

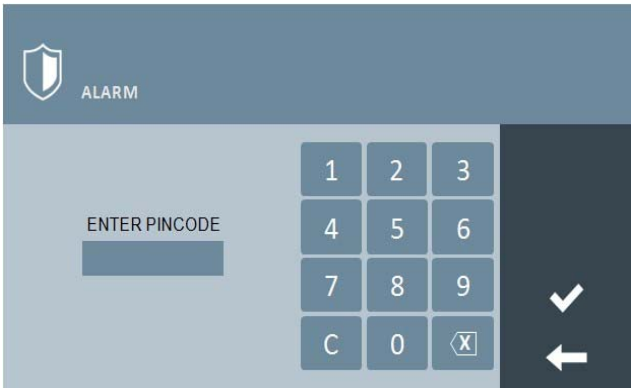
Out mode: sensors set to be active under out mode will be armed.

The resident can change the mode of the alarm by simply clicking on the mode icons available on this interface.

In alarms status



Out mode is the highest security mode followed by Sleep mode and Home mode respectively. To change from a higher level to lower level, the resident will be requested to enter a disarm pincode.



***REMARK*:**

Default factory user pincode is 1234, distress pincode is 4321.

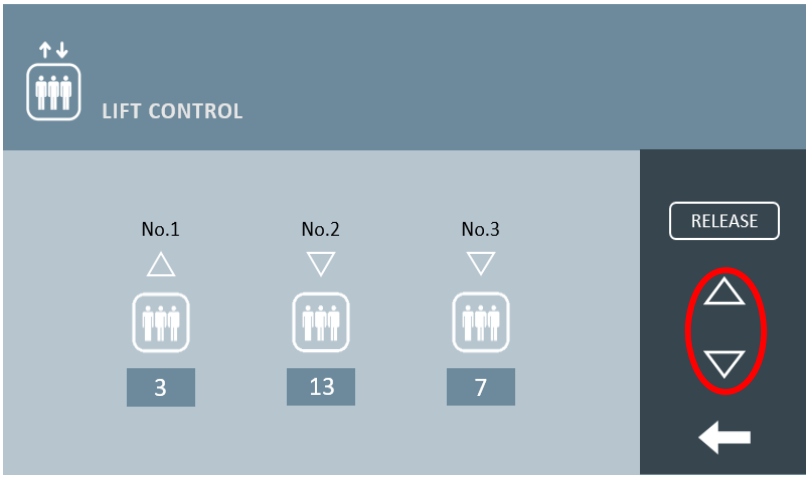
In case the resident is forced to deactivate the alarms against his willingness, he can enter the distress pincode which deactivates the alarm but sends a distress alarm to the Guard Unit at the same time.

3.13 Lift Control

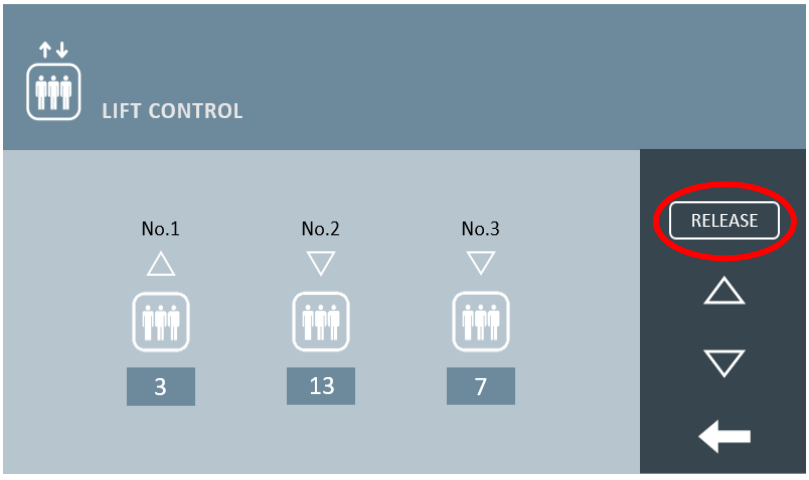
■ **Lift Control (Only when installed)**

The resident can call the lift through touch **UP** or **DOWN** icon when the resident plan to leave home, the elevator will arrive to resident's floor.

The monitor can show state of elevators if MEET system captures data from elevator (high level lift control integration is required)



The resident can authorize the lift floor through touch **RELEASE** icon. This is used when a neighbourg in the same block wants to visit the apartment after calling through intercom and pressing **RELEASE** icon after the conversation ends.



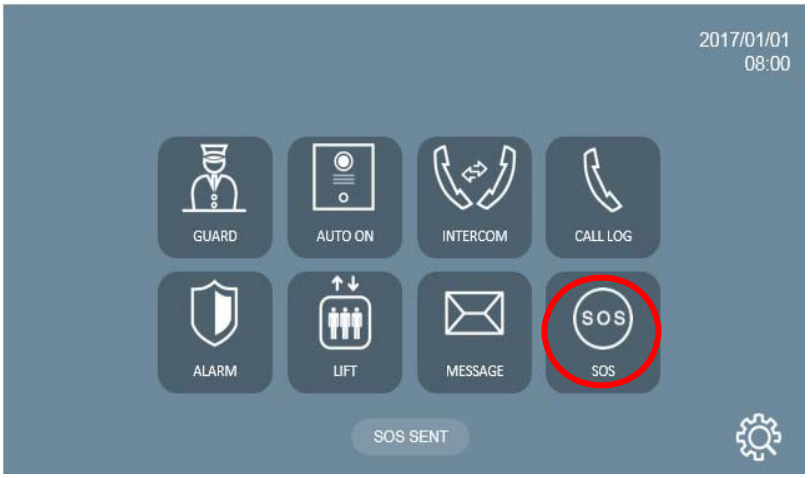
***REMARK*:** Please see manual of MEET LIFT CONTROL GATEWAY if you want to know more information about lift control.

3.14 Message

The notification LED will light up and notification sound will be sent when a new message is received. The LED will off after the resident reads all new messages, the resident can delete messages in the message list.

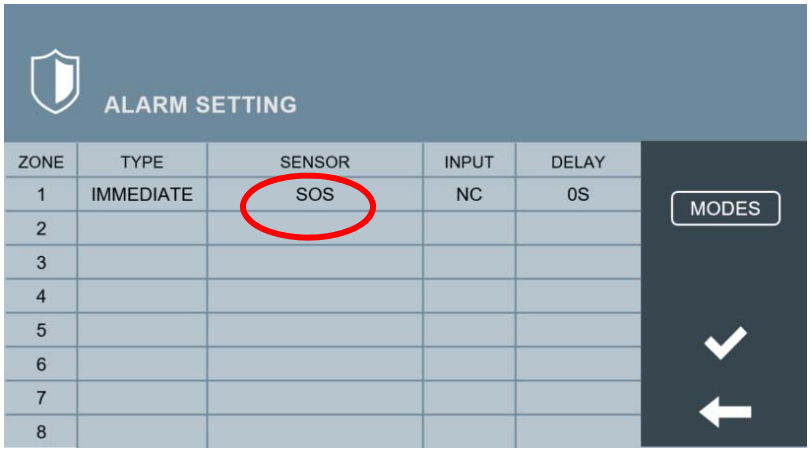
3.15 SOS

Touch the SOS button and hold it for 3 seconds. The monitor displays a message indicating SOS SENT, the Guard Unit and management software will receive SOS alarm.



To enable SOS function,

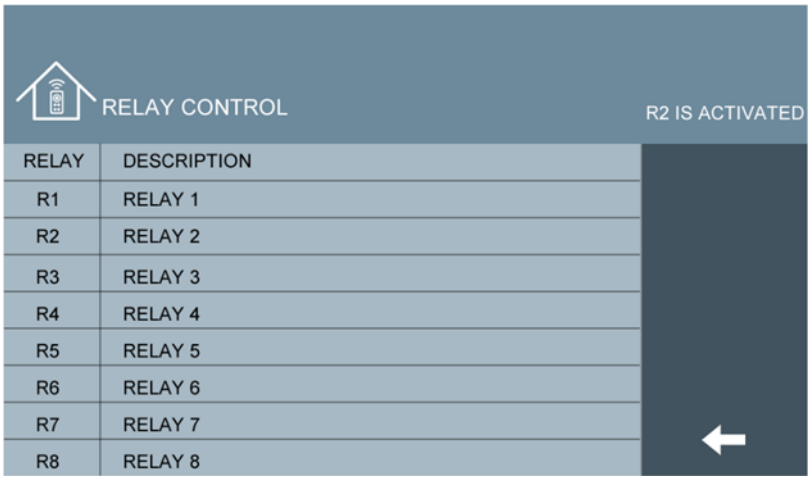
"**INSTALLER SETTINGS**" – "**ALARM SETTING**" Only one zone acts as SOS in SENSOR column.



3.16 Actuators

Click on R1- R8, The monitor will activate correspoding relay, The RS485 port will send command data, The monitor displays a message indicating r(#) is activated, R1- R8 can be set at 'RELAY CONTROL' web of the monitor.

REMARK: F01616 (10 relay module) connect the RS485 port of the monitor, The address of module address must be set to 1).

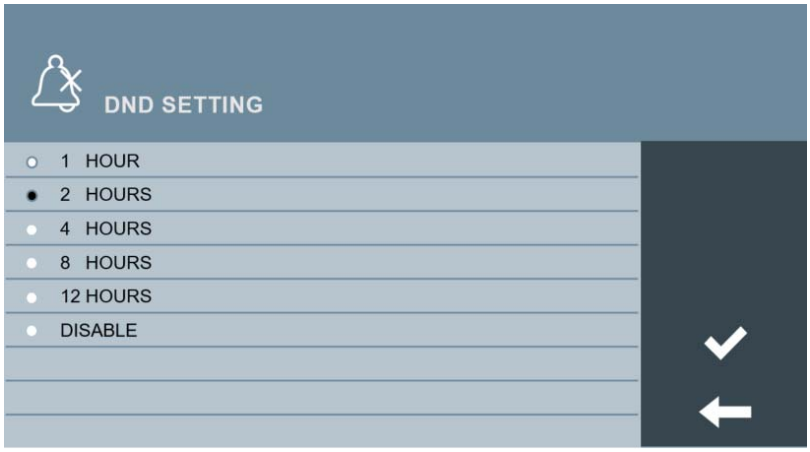


3.17 Scenes Control

The resident can set four different preset scenarios by clicking on the respective icon. Hi level integration is required through RS-485.

3.18 Do Not Disturb

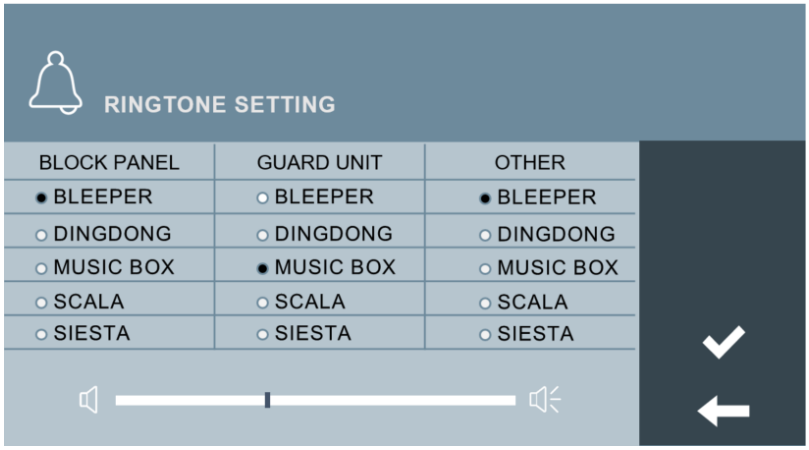
Do not disturb function will make any call received to be silent. Only the screen will lit when a call is received. It can be activated for given periods of time, after which the monitor will return to normal mode. The notification LED is on when do not disturb is enabled.



3.19 Ringtone Setting

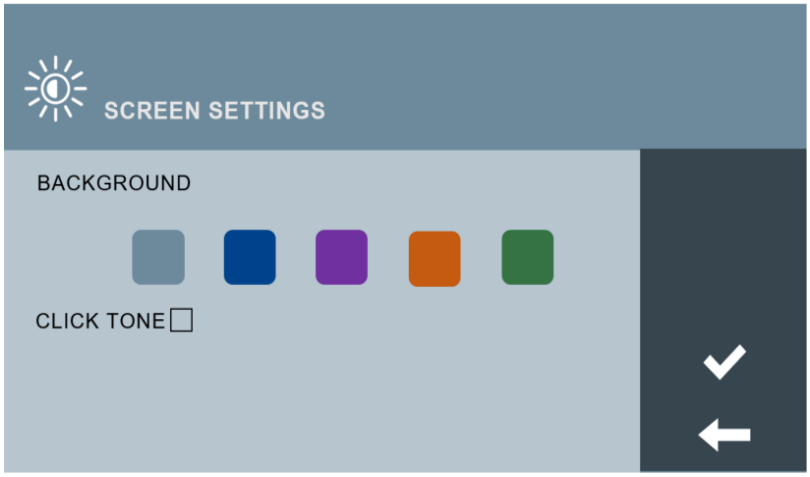
The resident can select an independent ringtone for the 3 different call sources and its volume by the ringtone settings menu.

***REMARK*:** 5 ringtones choices are available. OTHER is used for 1W panel and general entrance panel. Doorbell input will always trigger DING DONG sound.



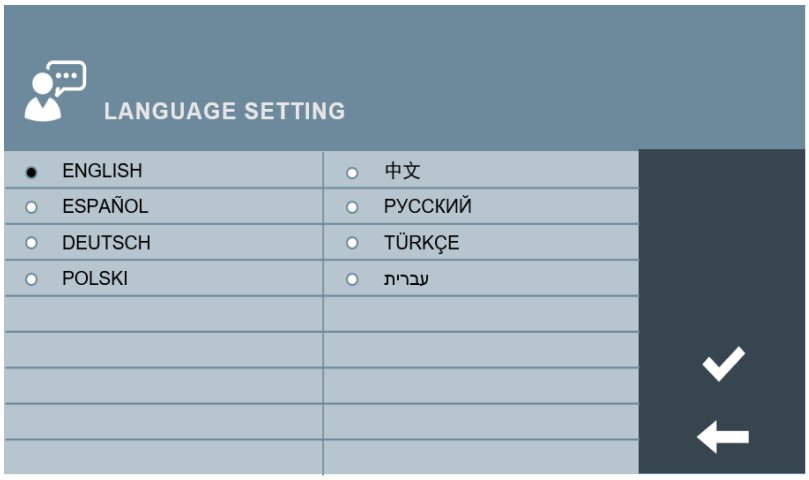
3.20 Screen Setting

The resident can select the background screen color and activate the touch screen click tone on the screen setting menu.



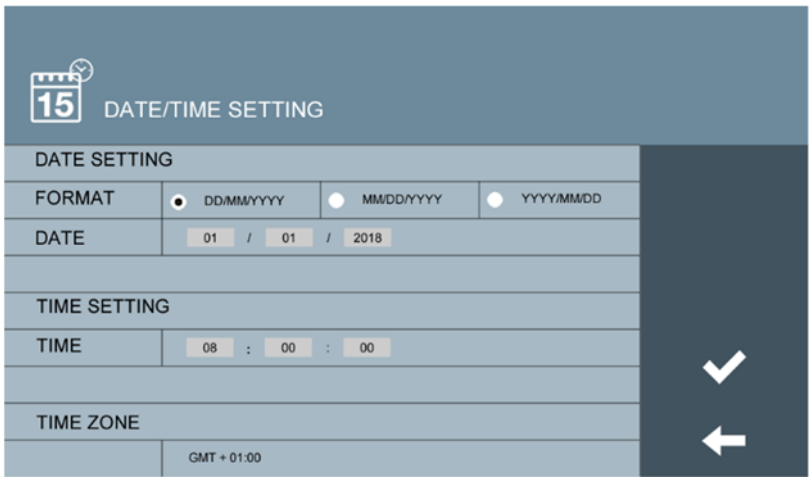
3.21 Language Setting

The resident can select language by the language setting menu. (available languages depend on the FW version).



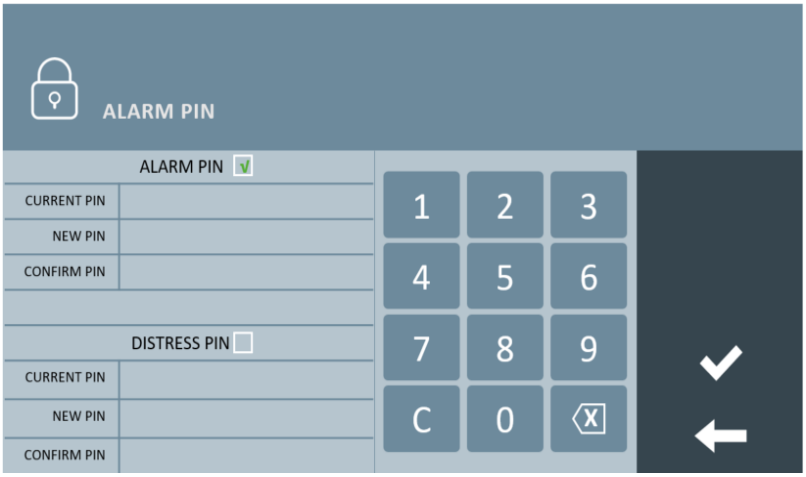
3.22 Date/Time Setting

If the project has no MEET management software installed, the installer can set date, time and time zone manually. If the project has MEET management software, and it is not connected to internet, the date and time of guard unit will synchronize automatically with the management software. If the project has MEET management software and it is also connected to internet, the date and time of the guard unit will synchronize automatically from internet time server.
REMARK: Date and time can't be saved after power loss. The time zone and date format can be saved.



3.23 Alarm Pincode Setting

The resident can modify the alarm pincode and distress pincode by the alarm pincode setting menu.

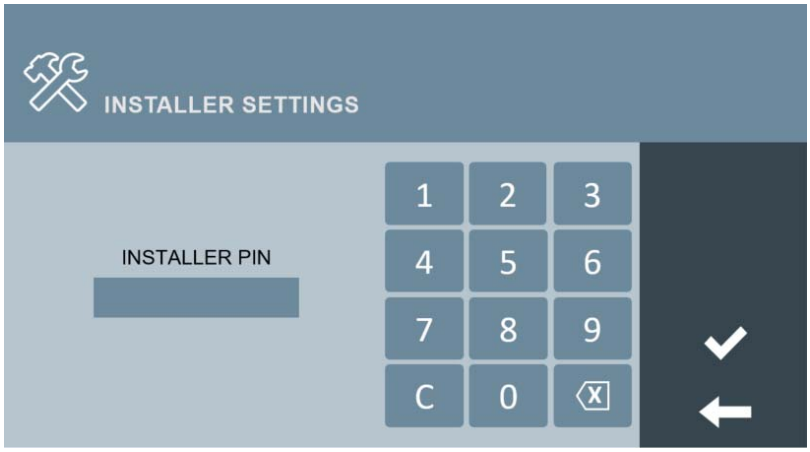


***REMARK*:** Default alarm pincode is 1234 and distress pincode is 4321.

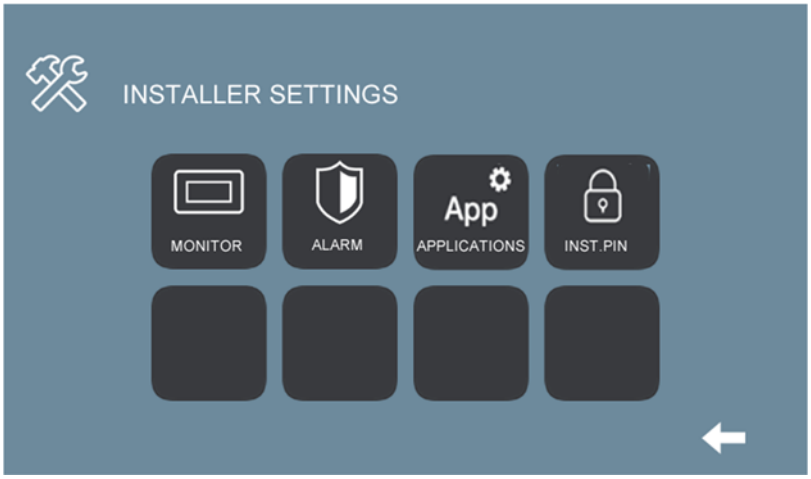
3.24 Installer Settings

Touch Installer Settings icon, enter the installer pincode.

***REMARK*:** Default installer pincode:6666.



Installer Settings Main Screen.



3.24.1 Monitor Settings

BLOCK: 3 digits (001-999) = block number.

APARTMENT: 4 digits (0001-9899) = apartment number

MONITOR: 1 digit (0-9) = number of monitors per apartment.

***REMARK*:** There must always be a monitor with the extension 0 at each apartment.

SYNC CODE: synchronization code for monitor extension on the same apartment.

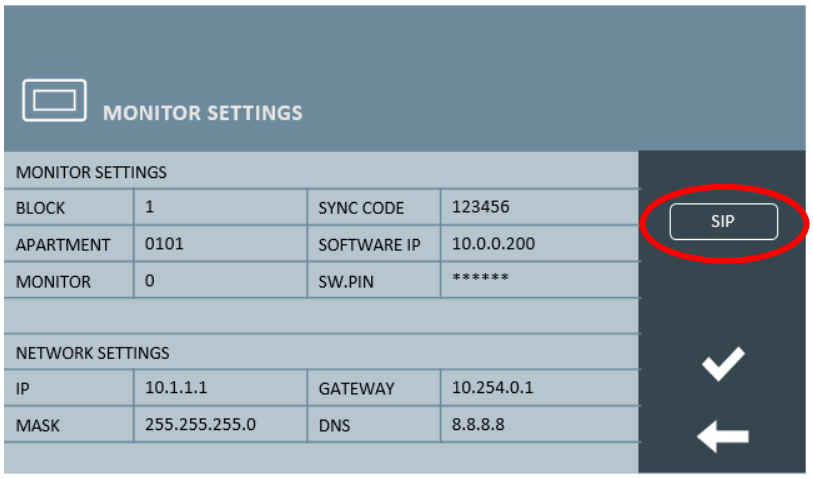
Synchronization code must be the same.

SOFTWARE IP: IP address of PC where MEET management software is installed. (default option 10.0.0.200).

SW.PIN: The pin code is to be used when the panel is registered in MEET management software.

NETWORK SETTINGS: Setting the IP address, Mask, gateway and DNS server.

REMARK: MEET allows to the installer to define the IP range according to the project needs and make the network management easier. MEET panel network mode is static mode. Ensure that each device has a unique IP address in same installation. The devices (digital panel, monitor and guard unit) will show IP conflict if there same IP is used on the same LAN.



.

3.24.2 SIP Settings

ENABLE: Enable or disable sip function.
SIP SERVER: IP address of Sip server.
DOMAIN: Sip server domain.
STUN IP: Audio and video NAT traversing public network server IP.
STUN PORT: The port of audio and video NAT traversing public network server **SIP USER**: The username of sip account.
SIP PASS: The password of sip account.
REMARK: When the monitor is used as a sip device, use the SIP account to call SIP devices or to receive calls from other SIP devices. SIP function has to be enabled.

3.24.3 Alarm Setting

■ ALARM Setting (only when installed).

Monitor built-in a 8 Zone alarm management option.

NOTE: 1-7 ZONE for sensor, 8 ZONE only for tamper.

Zone alarm type, sensor, input and delay information set each sector.

TYPE: delay, panic, immediate.

NOTE: When the type is panic, the alarm information is sent to guard unit and MEET management software, the monitor will not produce alarm sound.

SENSOR: smoke,gas,ir,door,window,panic,tamper,sos.

INPUT: 3C,NO,NC,BELL.

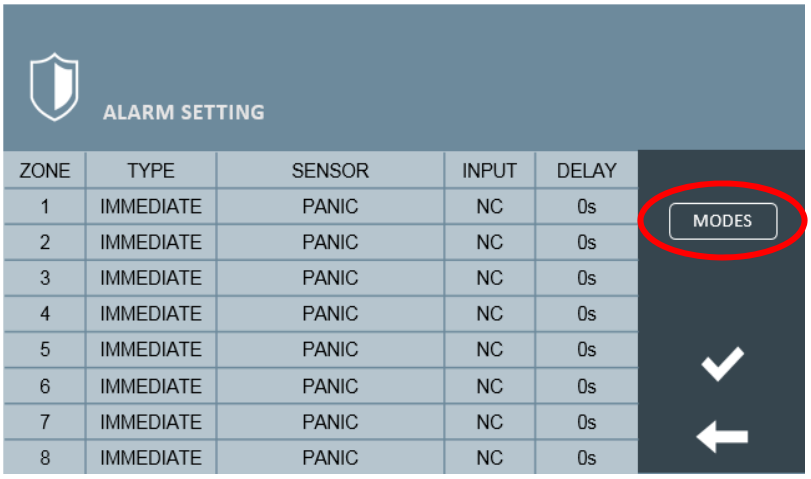
3C is used for sensor loop protect and need one match resistance (2.2K) provided with the monitor. The alarm will be actived if the resitance value of the loop changes.

NO for the sensor loop is Normally Open.

NC for the sensor loop is Normally Closed.

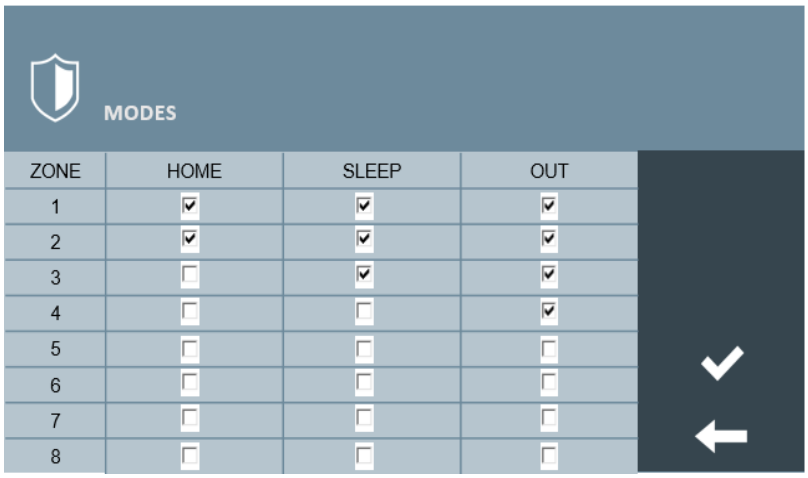
BELL for door bell.

DELAY: 0-60s.



3.24.4 Modes Setting

Select which zones from Zone1 to Zone7 will be armed when activating each alarm mode HOME, SLEEP or OUT.

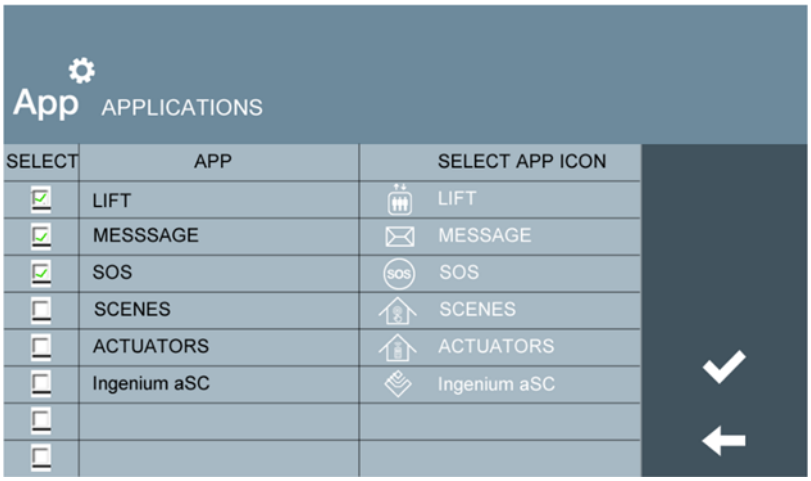


3.24.5 APP Applications

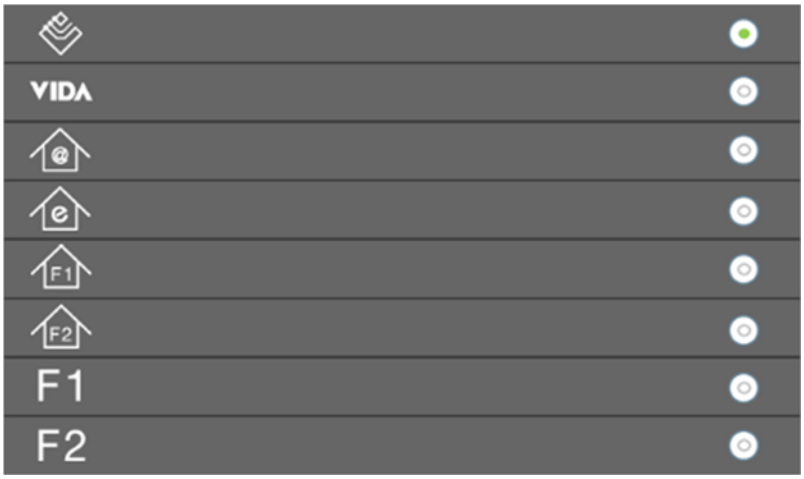
The Monitor can choose the APPs to be shown on the main menu.

- Positions 1-5 : MEET pre-installed APP. The icon is predefined.
- Positions 6-8 : Third party preinstalled APPs (only in version 2.1 or higher)

The numbers of selected APP must be always 3, otherwise saving process will be unsuccessful.

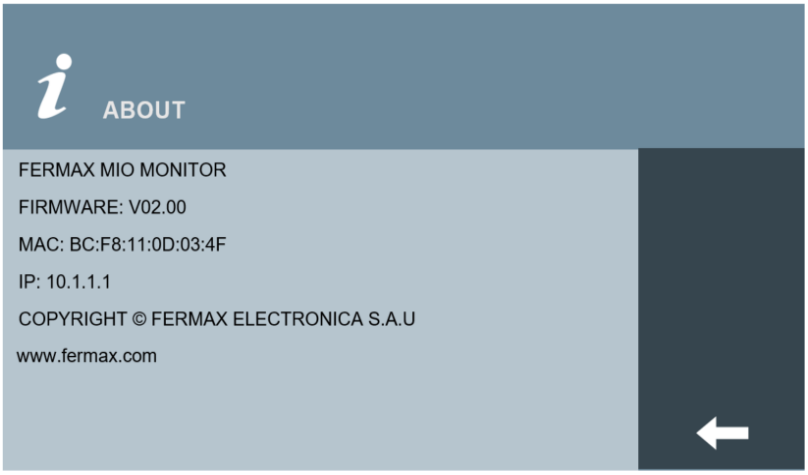


Only APP positions from 6 to 8 can slect app icon from 8 optinal icons.



3.25 About

You can get the following information: device name, firmware version, MAC address, IP address about the monitor.



4 Configuration via Web Server

The monitor has an integrated web server, which allows to configure the parameters. This web server is accessed via the monitor's IP address.
The browser opens with the configured IP address of the monitor. A screen opens requesting a username and password.

Default IP: 10.1.1.1
Username: admin
Password: 6666

4.1 Device Information

The following information is displayed: the device name, firmware version, MAC address, IP address.

4.2 General Settings

4.3 BLOCK: 3 digits (001-999) = block number.

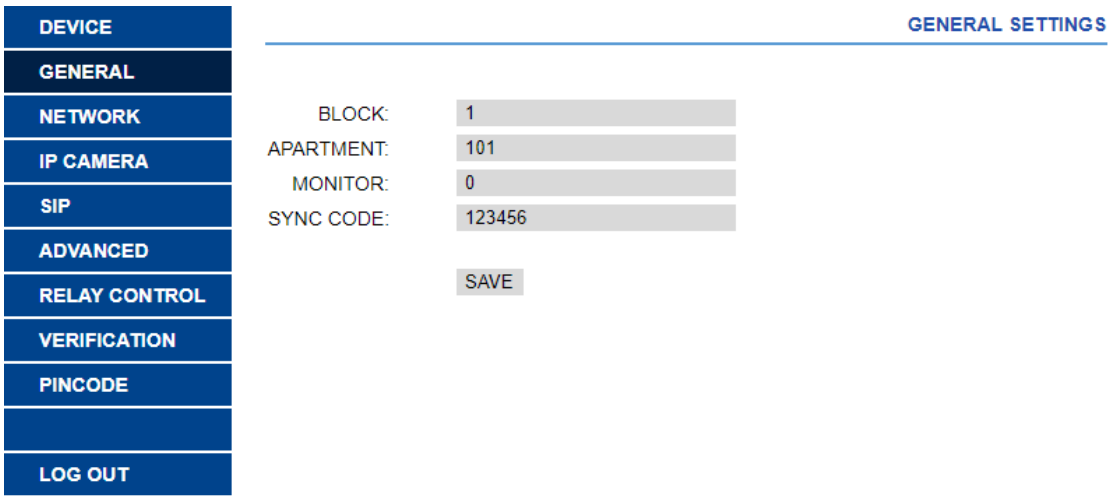
APARTMENT: 4 digits (0001-9899) = apartment number

MONITOR: 1 digit (0-9) = number of monitors per apartment.

***REMARK*:** There must always be a monitor with the extension 0 at each apartment.

SYNC CODE: synchronization code for monitor extension on the same apartment.

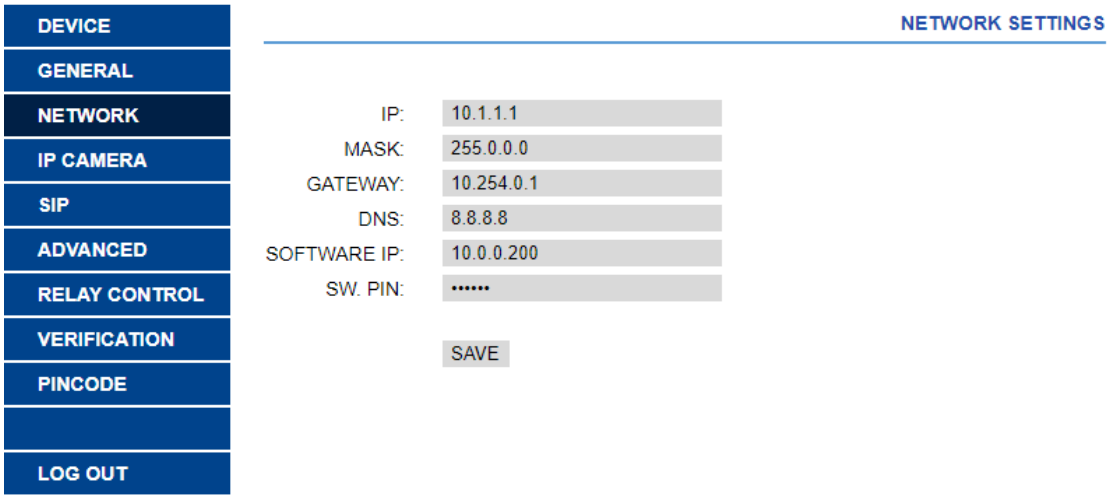
Synchronization code must be the same.



4.4 Network Settings

MEET system allows the installer to define the IP range according to the projects needs making the network management easier.monitor network mode is static mode. Ensure that each device has a unique IP address in same installation. The devices will show IP conflict if there are same IP.

IP: IP address of the monitor (default option 10.1.1.1).
MASK: Subnet mask of the monitor (default option 255.0.0.0).
GATEWAY: Default gateway of the monitor (default option 10.254.0.1).
DNS: DNS of the monitor (default option 8.8.8.8).
SOFTWARE IP: IP address of PC where MEET management software is installed. (default option 10.0.0.200).
SW.PIN: The pin code is to be used when the panel is registered in MEET management software.



4.5 IP Camera Settings

This function allows to configure IP CCTV cameras using RTSP protocol. IP cameras must be added manually.

NUMBER OF CAMS: IP camera Number. Up to 8 different cameras.

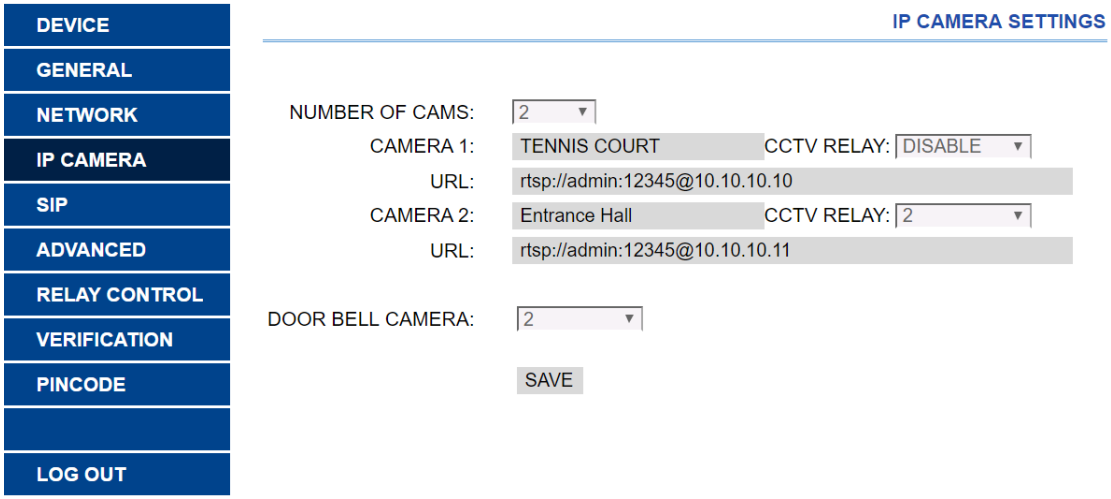
CAMERA 1: IP camera name.

CCTV RELAY: When the IP camera is on, the resident can open door via the unlock key on the monitor. The selected relay of F01491 will be activated when the door lock is released.

URL: rtsp://user:password@ip address of ip camera.

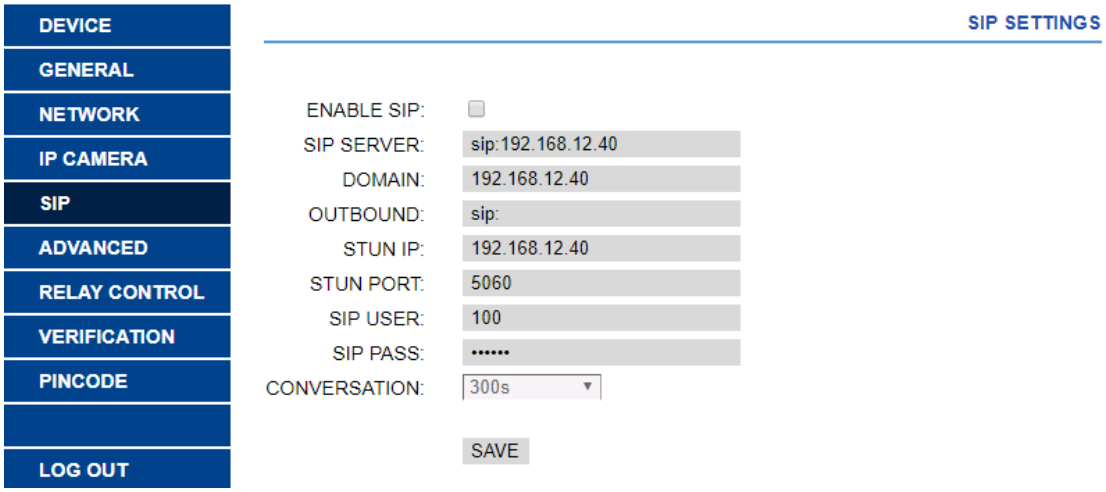
user:password: for cameras that require a username and password for connection. These fields are optional and depends on the RTSP stream of each IP camera.

DOOR BELL CAMERA: The monitor will display the video of the selected IP camera when the doorbell is activated.



4.6 SIP Settings

ENABLE SIP: Enable or disable sip function.
SIP SERVER: SIP server IP address.
DOMAIN: Sip server domain.
OUTBOUND: Some servers are used when NAT is active on the router.
STUN IP: Audio and video NAT traversing public network server IP.
STUN PORT: The port of audio and video NAT traversing public network server.
SIP USER: The username of sip account.
SIP PASS: The password of sip account.
CONVERSATION: Conversation duration, 120s, 300s, 600s, 1200s and 1800s optional.
REMARK: When the panel is used as a sip device, use quick dial to call SIP devices or receive calls from other SIP devices. SIP function has to be enabled.



4.7 Advanced Settings

SIP EXT: The SIP extension can be used as the extension of the Monitor. When the panel calls the monitor, the SIP extension will ring too. If one monitor or SIP extension answer , the other terminals will stop ringing. The maximum of SIP extensions is 4. (This function requires an additional SIP server on the installation, so extension numbers can be used)

URL: To call a MEET device on the system, URL: sip: sip account @ IP address of MEET device (the sip account is optional). To call a standard SIP device, URL: sip: sip account @ IP address of sip server

AUTO ANSWER: Enable or disable automatic answer. If there is no answer within 10 seconds the monitor will autoanswer.

ONU (GPON): Enalble or disable the SIP penetration firewall function. Suitable for GPON infrastructures..

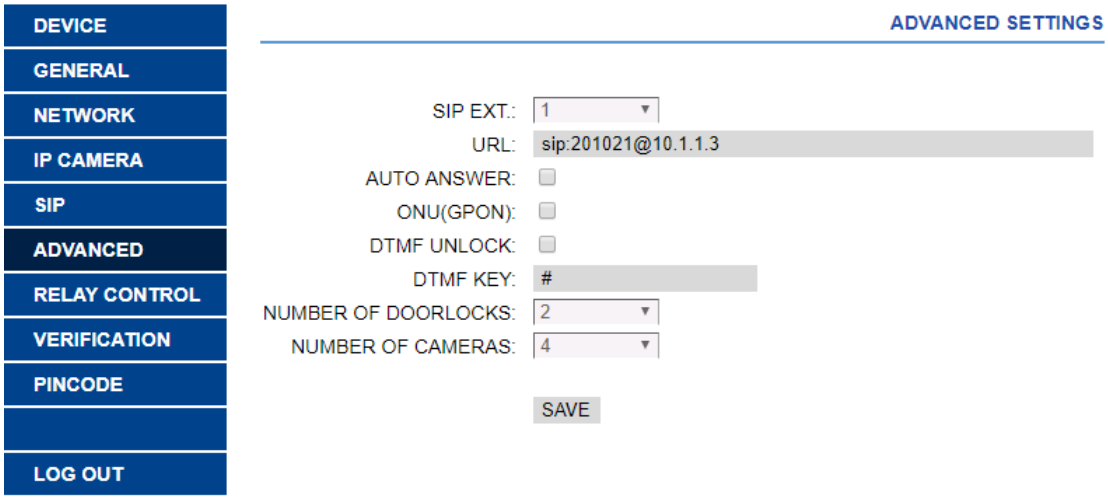
DTMF UNLOCK: Enables or disables DTMF unlock function.

DTMF KEY: Characters required to be entered when the monitor releases the lock on a SIP panel , such as # or *. The characters to release the lock can also be set up in the SIP panel. The monitor will send characters to release the lock on SIP panel, when the user presses the door open icon.

NUMBER OF DOORLOCKS: Numbers of release doorlocks for extended unlock function. This is related to the 4 relay module (0-4 optional).

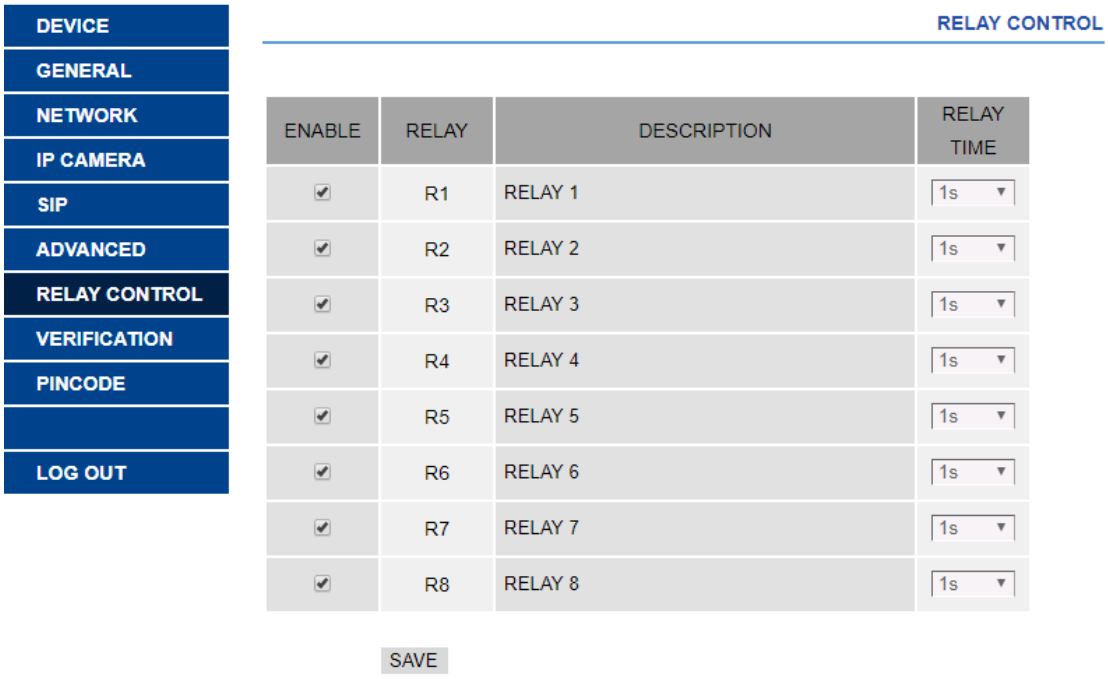
NUMBER OF CAMERAS: Numbers of IP cameras related to the panel, that will be available to switch during panel call. (0-4 optional).

.



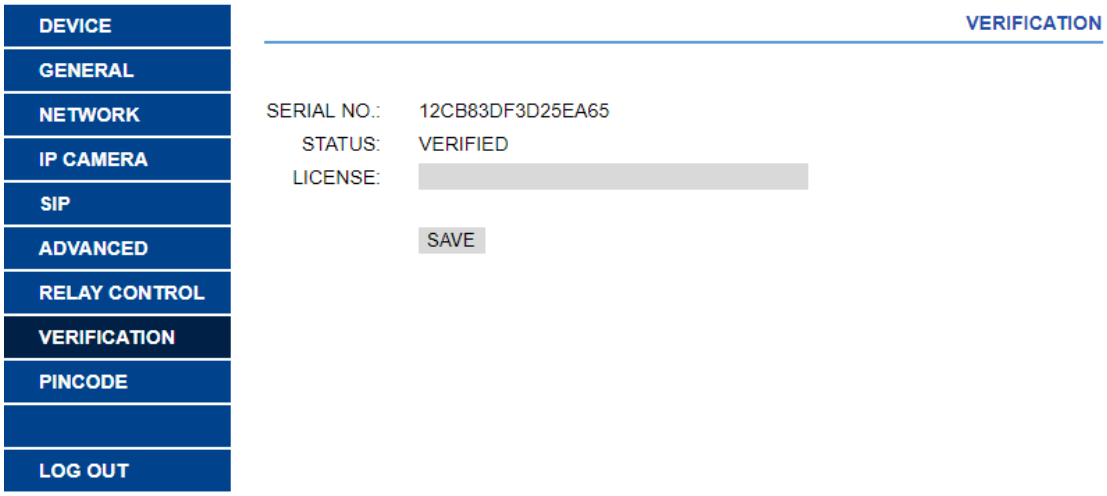
4.8 Relay Control

ENABLE: Enable or disable relay control function for R1-R8.
RELAY: R1-R8.
DESCRIPTION: The description of the relay can be defined. It will be displayed on the operation interface of the monitor.
RELAY TIME: Time that the relay will remain active. 1S,2S,3S,4S,5S,10S,30S,60S optional.
REMARK: F01616 (10 relay module) has to be connected to the RS485 port of the monitor. The address of this module must be set to 1.



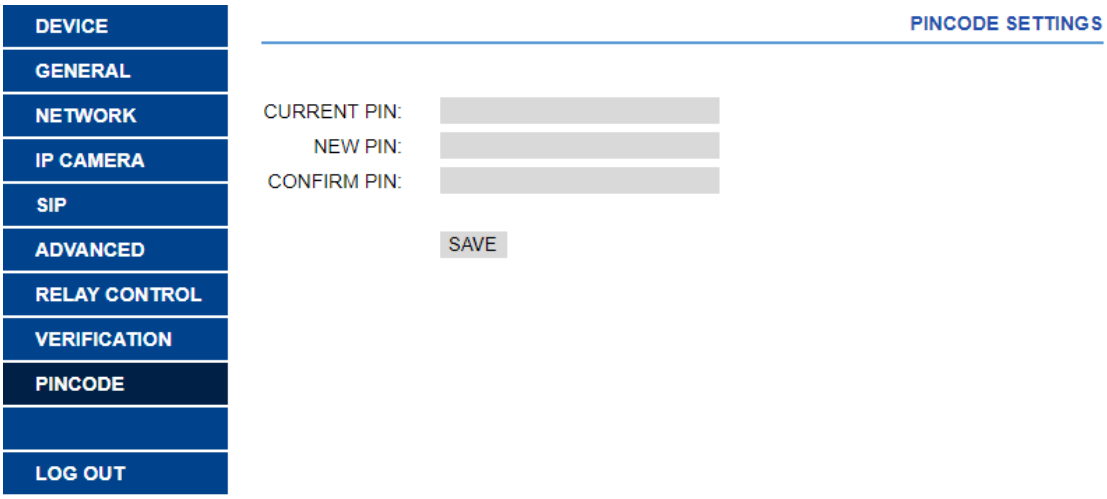
4.9 Verification

Activation for monitor maintenance, not for installer.



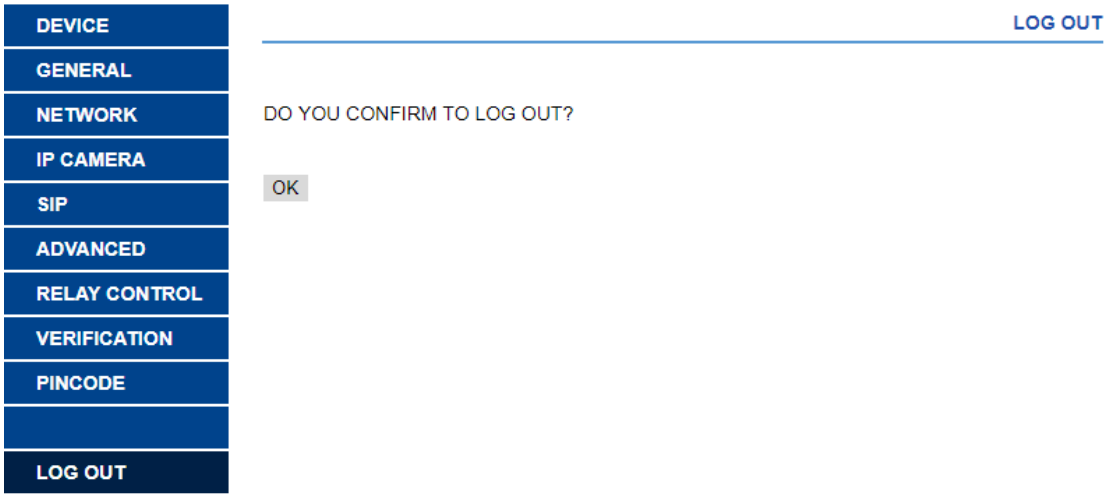
4.10 Pincode Settings

This allows to change the pin code of the web server login.



4.11 Log Out

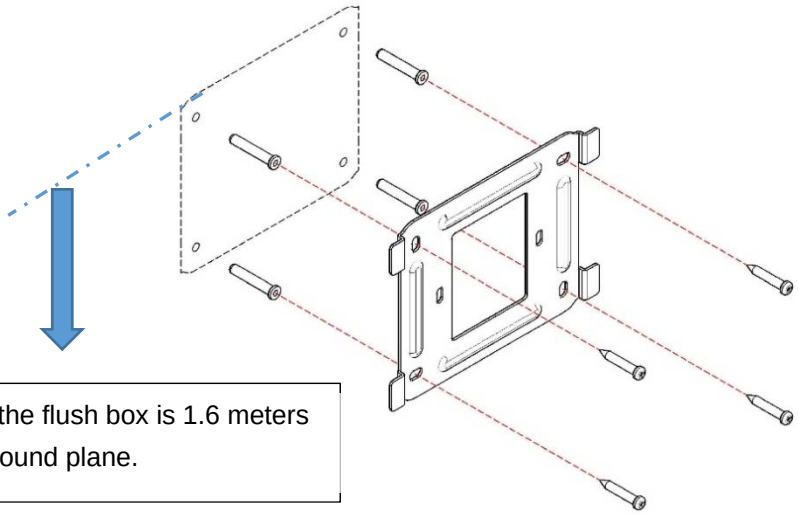
Log out the webserver.



5 Installation

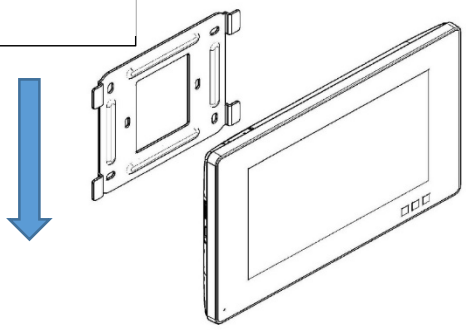
5.1 Schematic Diagram Of Installation

◯,1The monitor connector is mounted, and the monitor connector is screwed to the wall.

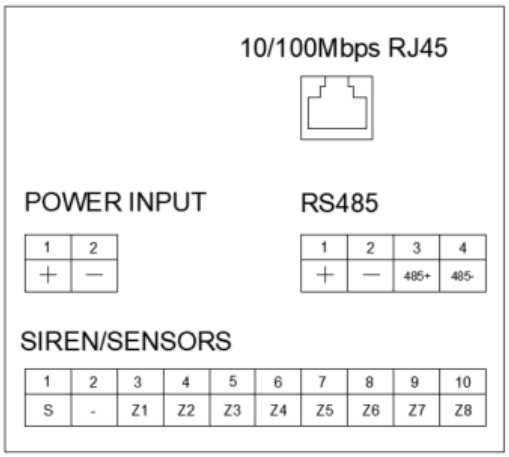


The top of the flush box is 1.6 meters from the ground plane.

◯,2Hang the monitor from the top down to the monitor connector.



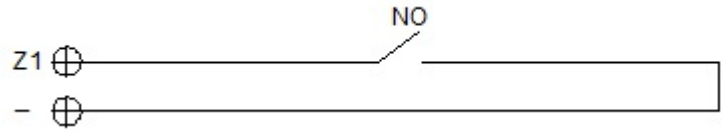
5.2 Connectors



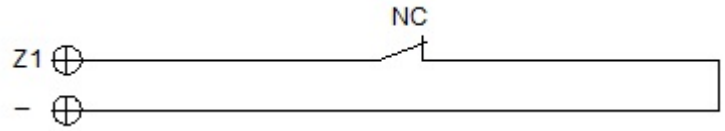
- 10/100Mbps RJ45 Port.
- **+, -**: 12Vdc Power Input.
- **Siren/Sensors**:
  S: The voltage signal will be output when the alarm is trigger Maximum current is 100mA.
  -: GND.
  Z1-Z7: sensors input.
- **+, -, 485+, 485-**: For Home Automation system or F01616 (10 relay module).

5.3 Wiring Diagram For Alarm

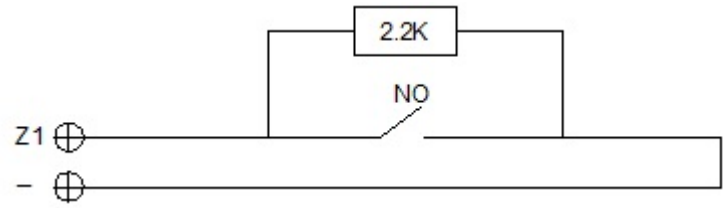
◯,1Normally open sernsor Wiring diagram.



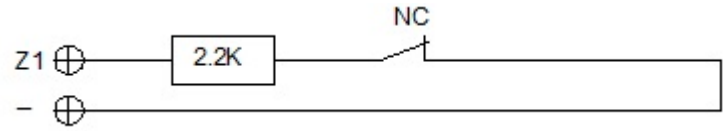
◯,2Normally closed sernsor Wiring diagram.



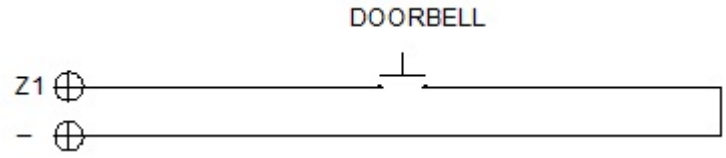
◯,33C option Normally open sernsor Wiring diagram.



◯,43C option Normally closed sernsor Wiring diagram.



◯,5Doorbell Wiring diagram.



5.4 Technical Parameters

Dimensions

MIO 7" monitor(mm): 210(W)×130(H)×20(D)

MIO 10" monitor(mm): 270(W)×168(H)×20(D)

Power supply: 12Vdc

- 7”monitor standby current 200mA, Working current 500mA
- 10”monitor standby current 200mA, Working current 600mA
  Resolution: 1024*600

Touch Screen: Capacitive technology

Maximum conversation time: 120s

Maximum record time: 30s

Maximum IP cameras: 8

Block: 001-999

Apartment: 0001-9899

Monitor: 0-9

Operating temperature: -10~55℃

Relative humidity: 20-85%, without condensation.