



IP Tador Technologies Panel:

- Panel can light 5V button (Bypass button)
- Magnetic lock/electric lock supported
- The speaking panel is available in Hebrew/English/Arabic upon request in advance and according to the version.
- If the panel is connected without a router, is it mandatory (!) to define static IP addresses for the system.
- Before starting the installation, it is recommended to talk to the communication provider and make sure that there are no communication blockages!
(VOIP + SIP + Video)

- **Please note that in order for the installation to go smoothly and quickly, you must be equipped with the following items:**

1. Laptop

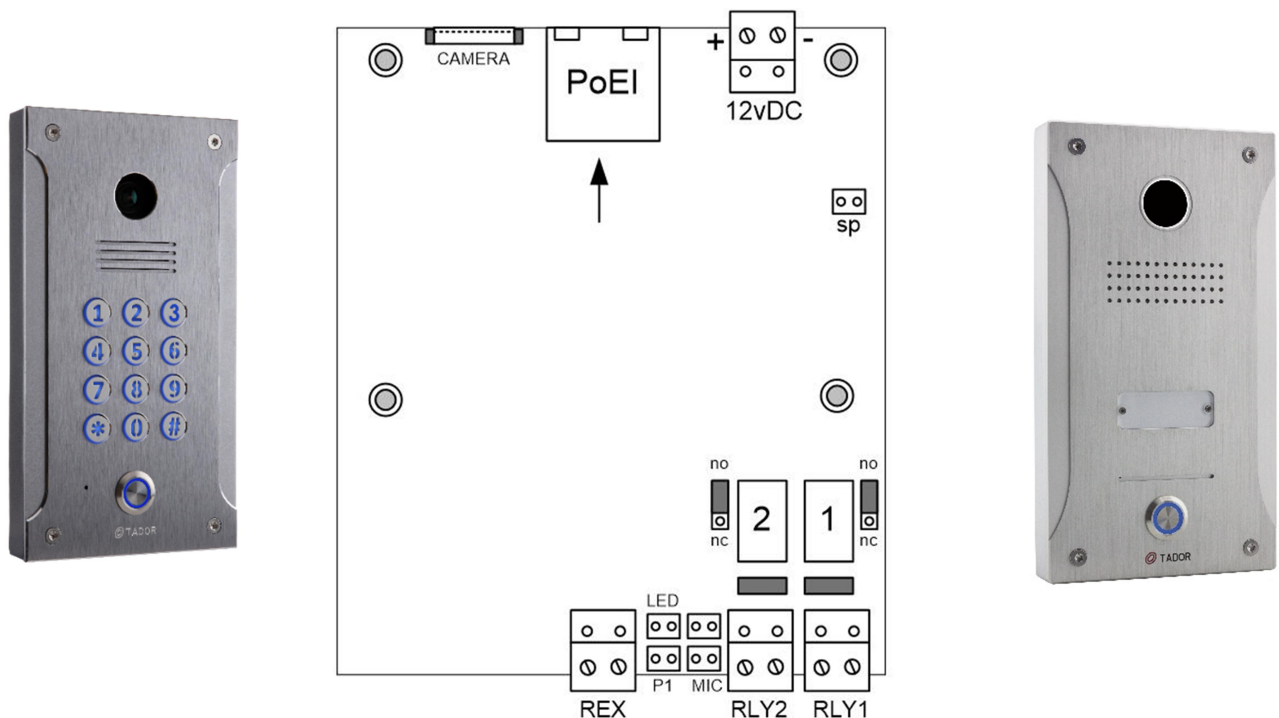
2. Please request the following details from the communications provider/network manager/switchboard manager:

IP address of the switchboard / IP PBX: _____

- An extension number that will be assigned to the IP panel: _____

- Password for the extension of the IP panel: _____

IP panel circuit diagram



Types of IP intercom installations - direct IP dialing without the need for an IP switchboard or router

- The panel will call dial directly to the IP address of an IP phone without a switchboard.
- The panel can dial up to 5 IP address simultaneously
- When dialing simultaneously video preview will not be available prior to call answering.
- If video preview will be set to on, only one monitor randomly will have the preview.
- The panel can be connected via a POE router/or via external electrical power
- **It is advised to set A static IP address to the panel and IP Phone**

Diagram of a direct dialing connection via a POE router - without an IP switchboard

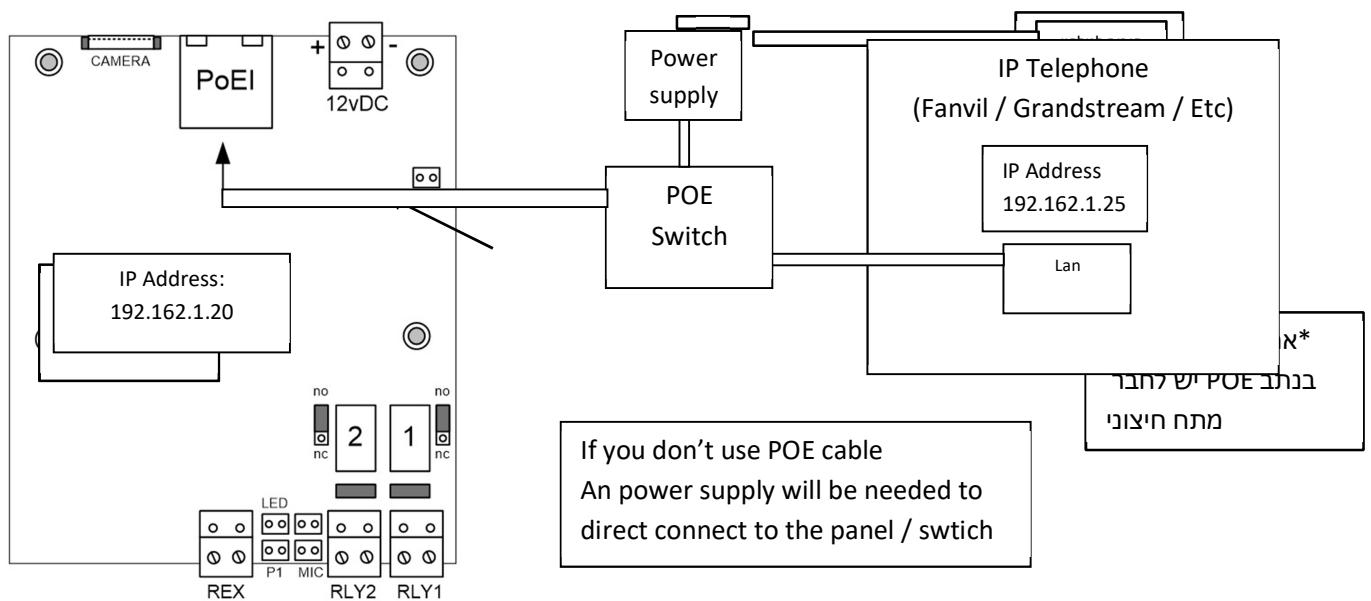
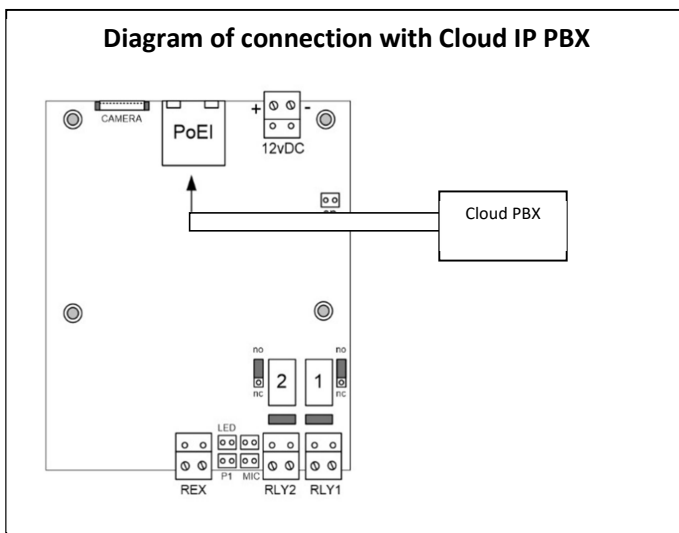


Diagram of connection with Cloud IP PBX

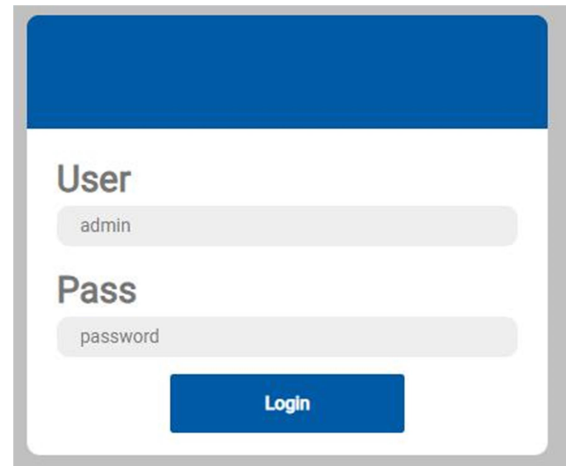


If you don't know the unit IP address it is possible to force the unit to read the address:

1. Disconnect the panel from the electricity
2. Push the calling button
3. Connect the unit to electricity

keep holding the bell/call button until the unit starts reading the address out loud in English

- Open FILEZILA/Chrome browser
- Connect to the circuit: 192.168.1.100:8085
User: admin
Password: 1234
- Please note that the port for connecting to the panel is 8085, the port mentioned above must be entered into every IP that the panel receives in order to connect



Basic settings of IP panel - BASIC

1. DHCP

When **ON**, the panel will receive an automatic IP address from the router to which it is connected

When **OFF**, the panel can be assigned a fixed static IP address

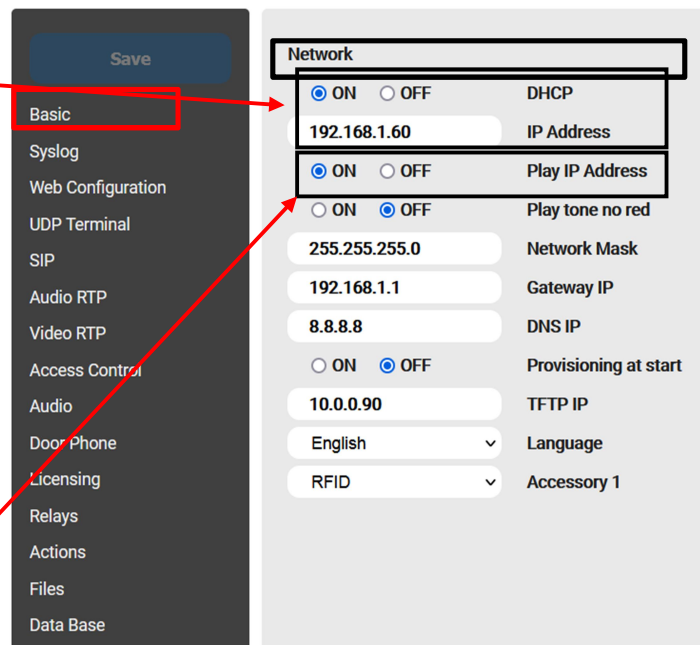
IP Address

If you want to give the panel a Static IP address

2. Play IP address

ON: The panel will read its IP address after turning on the device

Off: The panel will not read its IP address



3. Gateway IP

IP address of the router (gateway)

4. TFTP IP:

The panel can transmit all its information to a TFTP server or a virtual server on the computer in order to analyze and detect faults. Please consult before activation if necessary

Voip Bell server -

1. Ring

Dialing time of the panel to the switchboard/extension/telephone

2. Account 1 – Voip Bell

ON: when you want the panel to connect to the Tador server

Off: when you want the panel to connect to an IP extension
(local IP switchboard on the server)

3. SIP Port

This is the port to which the panel accesses the switchboard/server

* Please note that if the panel fails to register to the switchboard after 4 minutes, it will reset and try to register again

4. STUN required

Usually when it comes to a switchboard in the cloud, the STUN function should be activated, in some cases, it is not necessary

* In case it doesn't work with ON: STUN, it is recommended to check when it is set to the OFF mode

5. Extension

IP extension defined for the panel (the extension number will be defined by a communication provider/switchboard manager)

*** Request the extension number assigned to the panel**

Password

Password that was been defined to send the IP address of the panel (the password will be defined

by a communication provider/switchboard manager)

Server Domain + Server Sub-Domain

On this page, we will register the switchboard address (the address will be provided by the communication provider/switchboard manager)

6. Server Port

This is the port that the panel accesses on the switchboard/server

7. Registered

When the panel registers to the IP switchboard, it will show ON, as long as the panel fails to register, it will show OFF

8. Enable whitelist

This function allows the panel to receive information only from specific IP addresses, any communication from other addresses will not be received

Preview function – Call Settings

In preview setting you can enable video preview before answering the door call , so once a visitor will dial the door bell a video preview will appear before you answer the phone.

1. Early media : On

will enable preview

- **Note** : this function currently supports only one IP phone preview ,so if you have more than one IP Phone / Monitor connected in the system only one of the IP Phone will receive the preview video
- The phone that will pick up the call will automatically get the new video
- Function need to be validate before as there are many types of IP phones and monitors in the market and some has limitation
- We suggest you to use the distributor advised model.

Audio commands – Call Settings

• **Voice command settings, Vocal call progress:**

Once turned on the unit will play voice command such as " the door is opened "

Please make sure audio supported or it will not work and no audio will be available at all

Save

Status
Network
SIP
VPN
Multicast
Keypad and Buttons
Calls settings
Access Control
Audio
Video
Relays
System
Licensing
Files

CALLS CONFIGURATION

☒ ON ☐ OFF Auto answer

60 Max call time

30 Ring (wait for answering) time

☐ ON ☒ OFF Early media 1

TONE

☐ ON ☒ OFF Vocal call progress

☐ ON ☒ OFF Play audios through DTMF

AUDIO CODEC

G711 uLaw PCMU Audio Codec

CALL WITH PREMABLES

Tone preamble Preambles

Defining the camera in the panel – VIDEO RTP / Video

The system has two IP addresses, one address is for the panel and a second address is for the IP camera. This allows the camera to transmit the video to the NVR in addition to IP calls, meaning that the video of the camera can be transferred directly to the NVR and be watched through the camera on the screen.

In addition, the camera can be configured to transfer video calls to IP Phones that support video and video-supported cloud services.

Therefore, in order to set up the IP camera for Video calls the camera address must be defined for the panel.

1. Go to "Video RTP" page:

2. Use camera: ON

Video display setting

3. Camera IP address:

Here we will write down the IP address of the camera.

The panel will extract the video and broadcast it in a video call when a call is made from the panel.

4. Camera finder by

this function will allow the panel to find the camera IP address from his MAC address.

Video camera	
☒ ON ☐ OFF	Use camera
192.168.1.78	Camera IP Address
live/0/SUB	RTSP URL suffix
554	RTSP Camera port
admin	RTSP Camera user
admin	RTSP Camera password
52000	Video RTP local port
Camera Finder Settings	
5A:58:C5:EF:11:6D	Camera MAC
By IP	Camera Finder by

Please Note, in order to receive optimal results, it is recommended to assign the camera a permanent IP address, and to type the camera IP address in the field marked "2"

Once we define a Search using an IP, you will have to input the IP address of the camera

The IP address of the camera can be found by searching for the camera on the network using the following software's:

* **Advanced IP scanner:** Software that scans all IP addresses on the network

* **SADP Tool :** Hikvision camera tracking software , any other software that can search IP address

- The first dial will not always present a video because the panel draws settings from the camera, and therefore you must dial again

Sound and speech codec settings - AUDIO RTP / Audio

1. Change Speaker Volume
Volume setting of the speaker in the panel

2. Change Microphone Volume
Microphone audio volume setting
(When talking to the panel > hearing on the IP phone)

3. Mute Amplifier out call
ON: silent mode, keypad will not beep when pressing the keyboard
OFF: normal mode, will beep when pressing keys

4. Audio Codec
Most switchboards use a PCMU Codec. In case no speech is heard, please contact support and check what is supported by the switchboard that is connected to the panel

Setting up a dial button and bypass button - DOOR PHONE / Keypad and buttons menu

1. There are two buttons in the panel
Each button can be assigned with an action which can be choosed :

- Dialing an IP address (XXX.XXX.XXX.XXX)
- Dialing an IP extension
- Opening relay 1 or relay 2

In the example:

Button 1 will dial to extension number 100

Button 2 will open relay number 2

Button behavior: what the button will do

Call: will dial an IP address or extension

Rel temp act: will open a relay when pressed

Call destination: to which IP address or extension will the panel dial

Relay to activate: which relay will open when the button is pushed or when the door is opened

Setting the door opening key - RELAYS

Here we will choose what the panel will do once it hear the following DTMF

Temp Activate Rel 1 command

activate the relay for limited time

In the example :

After answering the Doorbell call if the telephone will pressed 31 the relay will be opened

Active Rel 1 time val

The amount of time that the relay will be open / activated

***In the example:** when pushing "31", a command will be given to open relay number 1 for 4 seconds

DTMF	Action
31	Temp Activate Rel 1 command
4	Active Rel 1 time val
41	Manual On Rel 1 command
51	Manual Off Rel 1 command
61	Alternate Rel 1 command
3	Alternate Rel 1 time val
71	Remote Relay command
32	Temp Activate Rel 2 command
4	Active Rel 2 time val
42	Manual On Rel 2 command
52	Manual Off Rel 2 command
62	Alternate Rel 2 command
3	Alternate Rel 2 time val

Manual on Rel 2 command

This setting allows the relay to remain open until a command is given to close the relay.

In the example: when 42 will be pressed, relay number 2 will open until 52 is pressed, then relay number 2 will close.

REL 1 : Refers to relay no. 1

REL 2 : Refers to relay no. 2

Setting the keyboard for direct dialing (each key will dial to a separate IP address or extension)

1. Select the “keypad and buttons” page
2. On this page you can choose:
Key calls exts/IP address
This means the keyboard keys will dial to the extension or IP address that is written

Keys calls exts/IP Add	Keypad mode
3	Dialplan qty digits
101	Call dest key 1
102	Call dest key 2
103	Call dest key 3
104	Call dest key 4
105	Call dest key 5
106	Call dest key 6
107	Call dest key 7

3. Call dest key 1

Refers to the destination that will be dialed after pressing on key number 1 the destination can be :

Direct IP call such as (10.0.0.100)

Extension (100)

For example if we write 10.0.0.100 on call dest key 1 when being pressed it will dial the address 10.0.0.100

If we write 100 it will dial to extension number 100 when key number 1 on the keyboard is pressed

Dialing simultaneously to several IP addresses (without an IP switchboard)

Several monitors / ip phones can be dialed simultaneously if chosen not to use an IP switchboard.

Please note that this function does not support all ip phones/ monitors and might require contacting your distributor to test this function.

1. Choose: Keypad and Button

General Params

In this column, we will register the beginning of the IP network address of the IP phones / monitors: 192.168.1.XXX

In the example, the panel will dial 3 monitors / IP Phones simultaneously.

The Monitors will be at following addresses:

Screen 1: 192.168.1.196

Screen 2: 192.168.1.176

Screen 3: 192.168.1.198

GENERAL PARAMS	
192.168.1.	Net prefix (&) for IP calls
BUTTON 1	
&196 &176 &198	Call destination
BUTTON 2	
Call	Button mode
101	Call destination
Relay 2	Relay to activate
KEYPAD	
Call to dialed numb	Keypad mode
3	Dialplan qty digits
*:PIN - #:HANG UP	Keys * and # mode
100	Call dest key 0

* Possible to dial up to 5 ip address together

See following chart to explain:

Device		IP Phone 1	IP Phone 2	IP Phone 3
IP address of telephones		192.168.1.196	192.168.1.176	192.168.1.198
What will we type	Genera Prams	192.168.1		
What will we type	Button 1	&196	&176	&198
Result		When pressing the button it will dial all 3 ip phones simultaneously		

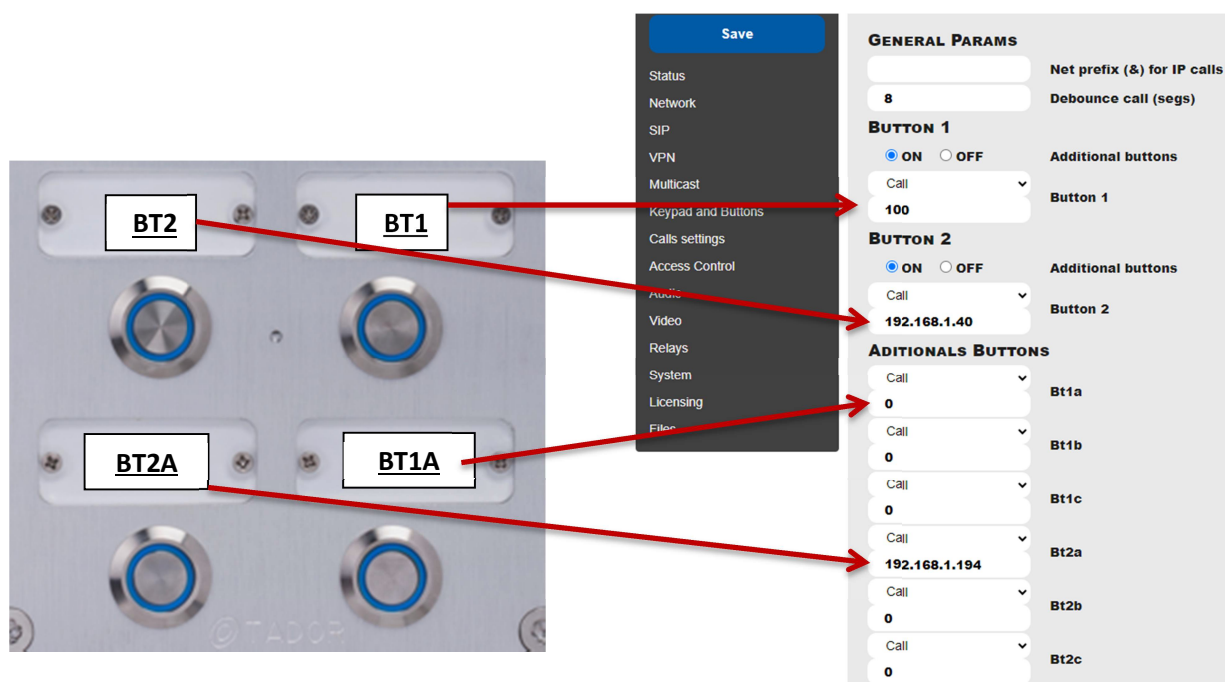
* Please note, each screen must be separated using the following sign: “|”

Programming 4 buttons panel :

Panel with 4 buttons version: DOORBELL/v0.1.6-33

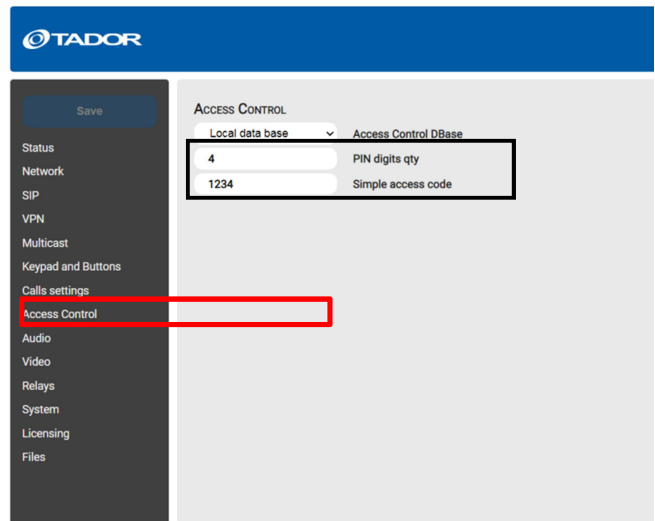
1. Go to Keypad and buttons
2. Enable additional buttons : Button 1
3. Enable additional buttons : Button 2

See below picture which button will dial where when pressed.



Setting up a access code (recommended)

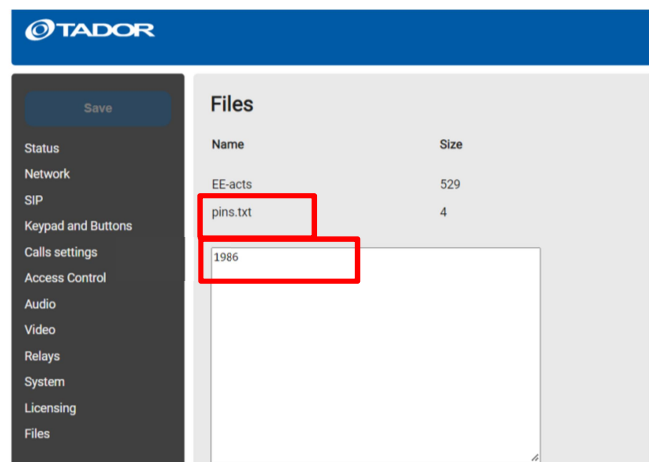
1. Choose Access Control
2. **Pin Digit qty :**
amount of number of keys that the code will have
3. **Simple Access Code :**
Here you will type the access code that is required to open the door
4. click Save
5. Reboot the unit to update the settings.



The screenshot shows the TADOR web interface. On the left is a sidebar with a 'Save' button at the top and a list of settings: Status, Network, SIP, VPN, Multicast, Keypad and Buttons, Calls settings, Access Control (highlighted with a red box), Audio, Video, Relays, System, Licensing, and Files. The main area is titled 'ACCESS CONTROL'. It has a dropdown for 'Local data base' and a section for 'Access Control DBase'. Within this section, 'PIN digits qty' is set to 4 and 'Simple access code' is 1234. These two fields are enclosed in a black rectangular box.

Setting up a access code 2nd basic programming

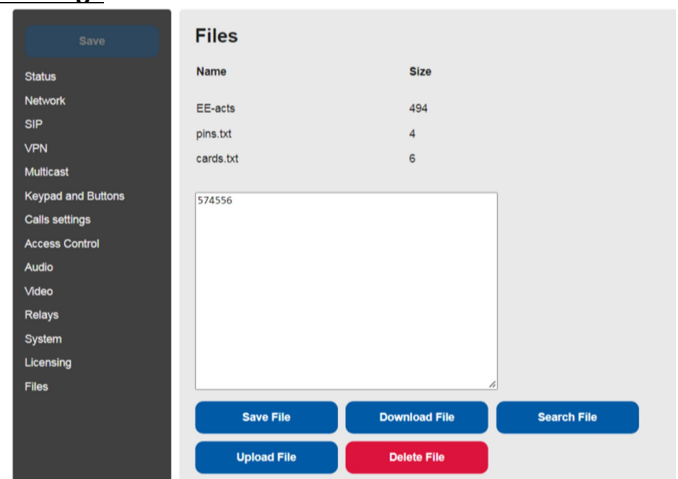
1. Choose Files
2. Click on Pins.txt
3. A white window will open. In this window, we will type the required access code to open the door in the example: "1986"
4. click Save
5. Reset the unit to update the settings.



The screenshot shows the TADOR web interface. The left sidebar has a 'Save' button and a list of settings, with 'Files' highlighted. The main area is titled 'Files' and contains a table with columns 'Name' and 'Size'. The table lists 'EE-acts' with size 529 and 'pins.txt' with size 4. The 'pins.txt' row is highlighted with a red box. Below the table is a large text input field containing the value '1986', which is also highlighted with a red box.

Setting up an rfid Tag :

1. Choose Files
2. Click on card.txt
3. A white window will open. In this window, we will type the card number that you would like the unit to open the door while it presented to the rfid tag reader in the example : 574556 is number of the tag
4. click Save
5. Reset the unit to update the settings.



The screenshot shows the TADOR web interface. The left sidebar has a 'Save' button and a list of settings, with 'Files' highlighted. The main area is titled 'Files' and contains a table with columns 'Name' and 'Size'. The table lists 'EE-acts' (494), 'pins.txt' (4), and 'cards.txt' (6). The 'cards.txt' row is highlighted with a red box. Below the table is a large text input field containing the value '574556', which is also highlighted with a red box. At the bottom of the main area, there are five buttons: 'Save File', 'Download File', 'Search File', 'Upload File', and 'Delete File'.

Setting up a smart IP monitor - setting up access to the IP camera without speaking

1. Connect to the screen management software:
XXX.XXX.XXX.XXX (192.168.1.111) For example
 2. User name: user
Password :1234
 3. Choose Menu:
 4. IPC (IPC This is the number of cameras we would like to define access to)
We will write:1
 5. Name of the camera: Camera 1
 6. IP address of the camera: URL
Here we will enter the IP address of the camera
Example:
rtsp://admin:admin@192.168.1.175:554/1/1
The following address will open a video channel with a camera with the following address:
192.168.1.175
- Please note that the following address will only fit Tador Technologies cameras, if you are using different cameras you should check if they work with Tador Technologies.
In some cases, a special adjustment will be required in order for it to support the camera



The screenshot shows a web interface titled "Streaming Media Solution". On the left is a green sidebar with navigation links: "Main", "IPC", "Logout", and several empty lines. The main content area is titled "IP Camera Settings". It contains three input fields: "Max:" with a dropdown menu showing "1", "Camera 1:" with a text box containing "Camera 1", and "URL:" with a text box containing "rtsp://admin:admin@192.168.1.175:554/1/1". Below these fields is a "Submit" button.

Setting up a smart IP screen - using up an Ackuvox monitor

1. Connect to the screen management software:
XXX.XXX.XXX.XXX (192.168.1.111) For example

2. User name: admin
Password: admin

3. In order to set an IP extension on the screen: (the above settings are with a Tador Technologies server)

Account active: is the account active and trying to register on the switchboard

User name: user name on switchboard number/extension

Password: Extension password/ user name

4. Setting up a video camera on the camera access button screen:

Choose: Phone

Choose: monitor

Column: Door Phone

Enter the following settings:

RTSP ADDRESS

Camera IP address

Device Name

Name of device/camera

Choose whichever name you wish

Write Submit + Edit at the end of the action

Special settings - FILES - Keyboard settings for direct IP dialing (old versions only)

In certain cases, special settings are required, such as for a certain key to dial a specific IP address, for example, pressing the number “1” key will dial to the IP addresses: 192.168.1.111

These settings are made on the FILES page by defining the “EE-acts” file which is in the panel management system

We shall do it as follows:

1. Choose the Files page
2. Click on EE-acts
3. The following message will open in a white window:

In the red window, we can define to where each key in the keyboard will dial

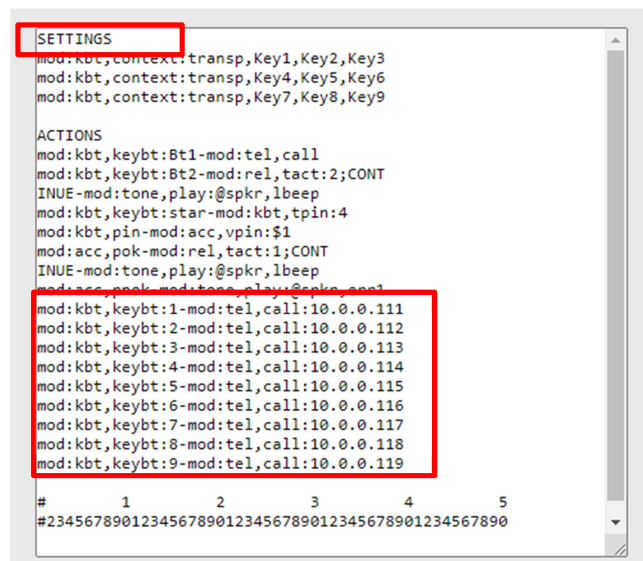
Mod:kbt,keybt:1-mod ->refers to key number 1

Call: 10.0.0.111 -> This line determines where the key will dial

For example:

Mod:kbt,keybt:1-mod:tel,call:10.0.0.111

When key 1 is pressed, it will dial to IP address: 10.0.0.111



```
SETTINGS
mod:kbt,context:transp,Key1,Key2,Key3
mod:kbt,context:transp,Key4,Key5,Key6
mod:kbt,context:transp,Key7,Key8,Key9

ACTIONS
mod:kbt,keybt:Bt1-mod:tel,call
mod:kbt,keybt:Bt2-mod:rel,tact:2;CONT
INUE-mod:tone,play:@spkr,lbeep
mod:kbt,keybt:star-mod:kbt,tpin:4
mod:kbt,pin-mod:acc,vpin:$1
mod:acc,pok-mod:rel,tact:1;CONT
INUE-mod:tone,play:@spkr,lbeep
mod:acc,pnok-mod:tone,play:@spkr,err1
mod:kbt,keybt:1-mod:tel,call:10.0.0.111
mod:kbt,keybt:2-mod:tel,call:10.0.0.112
mod:kbt,keybt:3-mod:tel,call:10.0.0.113
mod:kbt,keybt:4-mod:tel,call:10.0.0.114
mod:kbt,keybt:5-mod:tel,call:10.0.0.115
mod:kbt,keybt:6-mod:tel,call:10.0.0.116
mod:kbt,keybt:7-mod:tel,call:10.0.0.117
mod:kbt,keybt:8-mod:tel,call:10.0.0.118
mod:kbt,keybt:9-mod:tel,call:10.0.0.119

# 1 2 3 4 5
#234567890123456789012345678901234567890
```

4. In the following link you can download the settings file shown the image

Special settings - Files: Setting bypass button will open relay 1 or 2

(if it was defined that the keyboard will dial only directly or old versions prior to version 0.1.1-14)

In the red window, you can define which relay the bypass button will open

Mod:kbt,keybt:Bt2-mod:rel,tact:2;CONT

This command indicates the bypass button to open relay number 2. See highlighted in red: the relay that will open

If we wish to change the bypass button to open relay number 1, we do it as follows:

Mod:kbt,keybt:Bt2-mod:rel,tact:1;CONT



```
SETTINGS
mod:kbt,context:transp,Key1,Key2,Key3
mod:kbt,context:transp,Key4,Key5,Key6
mod:kbt,context:transp,Key7,Key8,Key9

ACTIONS
mod:kbt,keybt:Bt1-mod:tel,call
mod:kbt,keybt:Bt2-mod:rel,tact:2;CONT
INUE-mod:tone,play:@spkr,lbeep
mod:kbt,keybt:star-mod:kbt,tpin:4
mod:kbt,pin-mod:acc,vpin:$1
mod:acc,pok-mod:rel,tact:1;CONT
INUE-mod:tone,play:@spkr,lbeep
mod:acc,pnok-mod:tone,play:@spkr,err1
mod:kbt,keybt:1-mod:tel,call:10.0.0.111
mod:kbt,keybt:2-mod:tel,call:10.0.0.112
mod:kbt,keybt:3-mod:tel,call:10.0.0.113
mod:kbt,keybt:4-mod:tel,call:10.0.0.114
mod:kbt,keybt:5-mod:tel,call:10.0.0.115
mod:kbt,keybt:6-mod:tel,call:10.0.0.116
mod:kbt,keybt:7-mod:tel,call:10.0.0.117
mod:kbt,keybt:8-mod:tel,call:10.0.0.118
mod:kbt,keybt:9-mod:tel,call:10.0.0.119

# 1 2 3 4 5
#234567890123456789012345678901234567890
```

Version update

1. Action page - version update

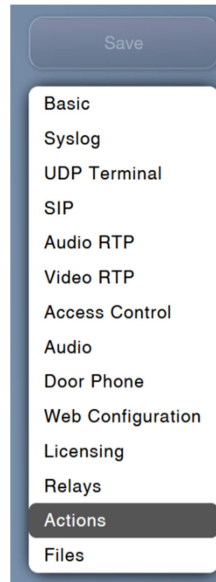
Choose Firmware upgrade

“Browse”

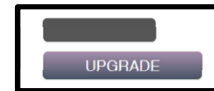
“Upload”

updated software File

Click “Upload”, wait for the
Version update



Firmware file (TFTP)



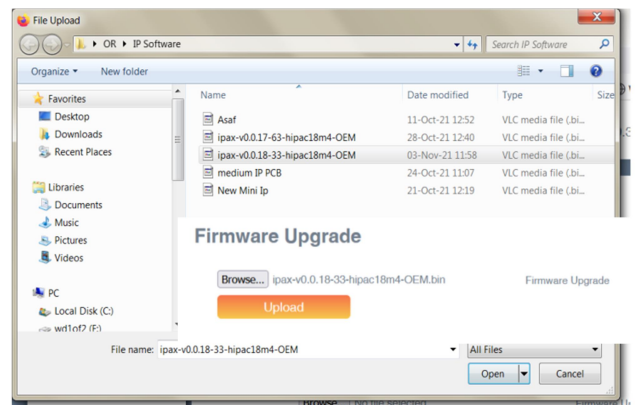
Click

Click

Select an

Click open

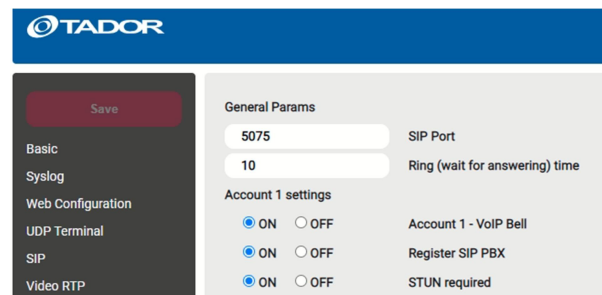
Firmware Upgrade



Compatibility with different routers

1. Open a Checkpoint port:

SIP Port: 5075



Questions and Answers

1. The panel resets every few minutes and reads its IP address:

- Fault: because the panel fails to connect to the switchboard, it resets and tries to reconnect
- Solution:
Connect to the panel,
Choose the column "SIP"
Account 1 - VoIP Bell: OFF
Register SIP PBX: OFF
The panel will stop trying to register, will not reset and will not reconnect.

2. The panel does not read an IP address during activation:

Solution:
Connect to the panel
Choose the column Basic
Define: Play IP Address: ON
The panel will start reading its IP address during activation

3. There is no sound when talking in the panel:

Solution:
Is the switchboard a cloud switchboard? If so:

- Connect to the IP address of the panel
- Choose "SIP"
- Define: ON: STUN required

If the problem is still not solved, please examine the following solution:

- Connect to the IP address of the switchboard
- Choose "AUDIO"
- Define: PCMAAudio Codec:

4. Currently does not support infrastructure, provider

Primo
099

5. If you can't find the panel in the network two solutions :

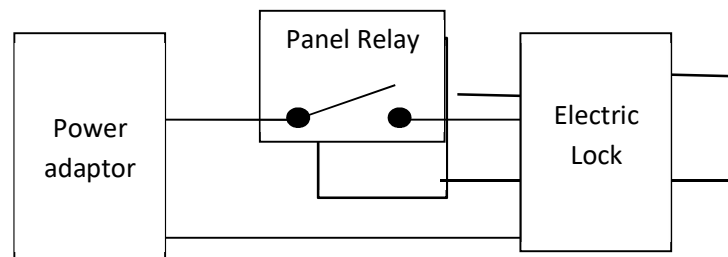
Solution 1 :

1. Turn off the panel electricity :
2. Press the rounded calling button long press
3. Connect the panel to the electricity
4. Keep the button pressed until the panel will read the IP address of the unit.

6. **Solution 2 :**

1. Turn off the panel electricity
2. Put three jumpers on the side of the panel
3. Connect the panel to the electricity
4. Panel should receive the following IP address: 192.168.1.100:8085
5. ***Please note that after connecting to the panel and configuring, the jumper must be removed
Otherwise, the panel will continue to receive the address "192.168.1.100"

7. Electric lock connection drawing.



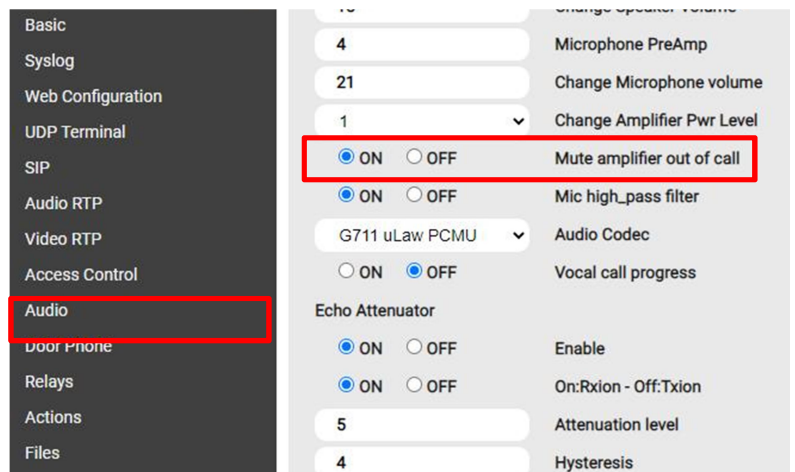
8. Cannot hear a beep when pressing the keyboard

Define:

Mute Amplifier out call

ON: silent mode, will not beep when pressing the keyboard

OFF: normal mode, will beep when pressing keys



9. Settings for switchboards:

Partner: Centrix Stun: OFF 172.22.22.4 Mic Polarity: White left side	Binat Stun: ON	Panasonic HTS switchboard: Example: Extension: phone-019 Server IP : 10.0.0.101 Server domain : 5.5.5.5 Check on switchboard: Domain for Sip Extension 5.5.5.5 Extension name: phone-019 Trunk – Sip Trunk property G.711MU None, None	IPECS LG switchboard 1. SIP Data 2. SIP Phone Attributes 3. Type extension number 4. Go to DTMF Type: 2833 (Column 23) SAVE. Save settings STUN: ON / OFF Check both ON and OFF
Check Point Opening port: 5075	Omnitelecom Stun: OFF		



KX-T918-SIP-2P



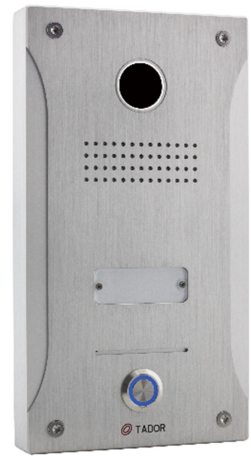
KX-T918-SIP-1P



KX-T927-SIP-2P



KX-T927-SIP-1P



Application for Cloud services
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