

## **IP Tador Technologies Panel:**

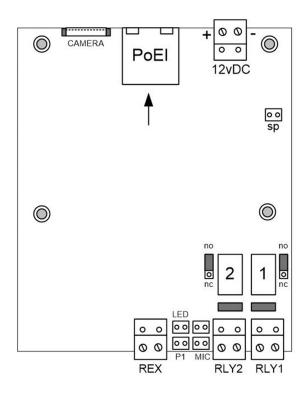
- Panel can light 5V button (Bypass button)
- Magnetic lock/electric lock supported
- The speaking panel is available in Hebrew/English/Arabic upon request in advance and according to the version.
- If the panel is connected without a router, is it mandatory (!) to define static IP addresses for the 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



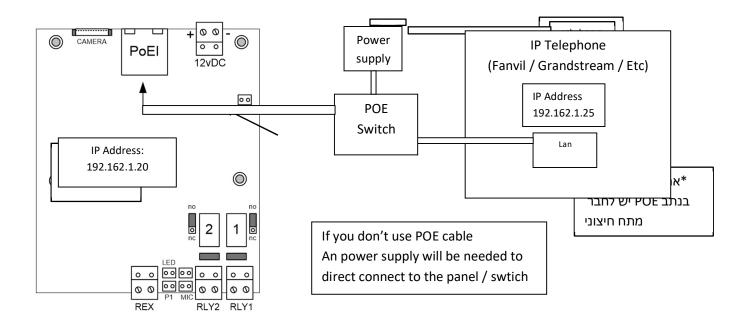


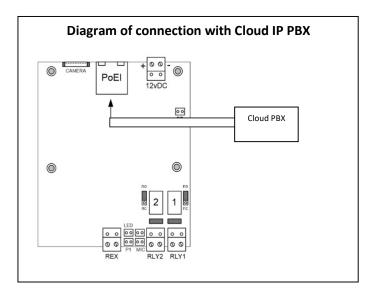


# Types of IP intercom installations - direct IP dialing without the need for an IP switchboard or router

- 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





#### 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

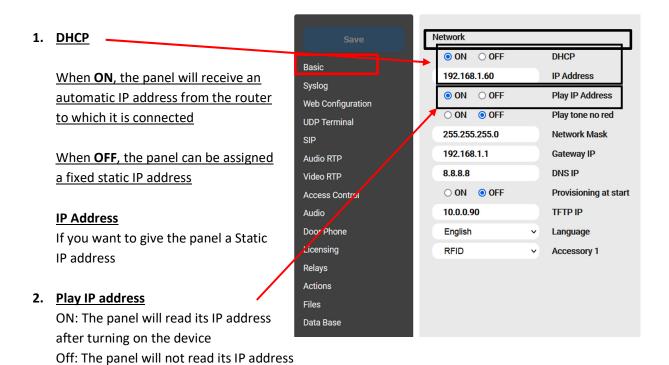
- Open FILEZILA/Chrome browser
- Connect to the circuit: 192.168.1.100:8085

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**



#### 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

Basic

Syslog

SIP

Web Configuration

**UDP Terminal** 

Audio RTP

Access Control

#### 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

#### Audio eu1.voipbell.net Server Domain Door Phone eu1.voipbell.net Server Sub-Domain Relays 5071 Server Port Actions 1800 Registration expires time Files ON OFF Send OPTIONS to server **OPTIONS** frequency OON OFF Registered STUN Parameters STUN Server eu1.voipbell.net 3478 STUN Port OON OFF **Enable whitelist** IP1

General Params

ccount 1 settings

ON OFF

70-b3-d5-5c-e1-8f

OFF

ON

ON ON

SIP Port

Ring (wait for answering) time

Account 1 - VolP Bell

Register SIP PBX

STUN required

Extension

1

2

4

5

3

5060

30

#### 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. <u>Extension</u>

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. <u>Server Port</u>

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

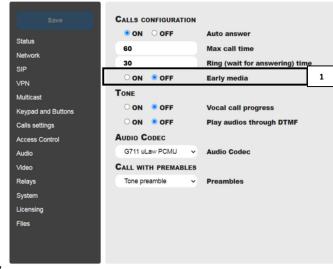
# **Preview function – Call Settings**

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 distributer advised model.



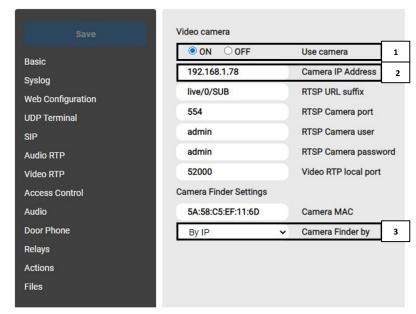
#### Defining the camera in the panel - VIDEO RTP

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:
- 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. <u>Camera finder by</u>

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

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"

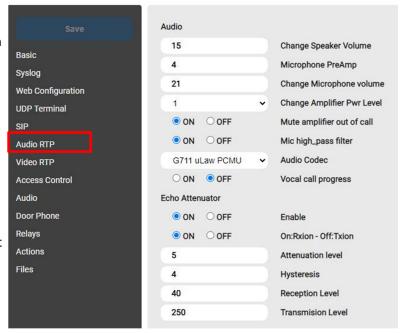
Once we define a Search using an IP, you will have to input the IP address of the camera

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

- Change Speaker Volume
   Volume setting of the speaker in the panel
- Change Microphone Volume
   Microphone audio volume
   setting
   (When talking to the panel >
   hearing on the IP phone)
- 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

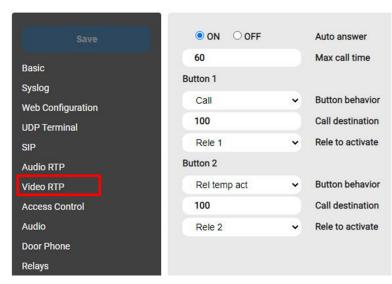
Most switchboards use a PCMU Codec. In case no speech is heard, please contact support and check what is supported by the switchboard that is connected to the panel

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

- 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

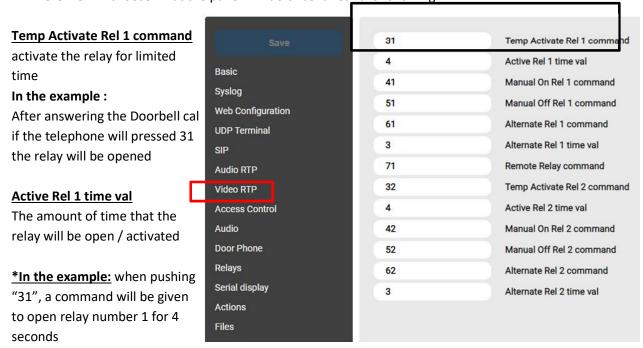
Rel temp act: will open a relay when pressed

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



#### Manual on Rel 2 command

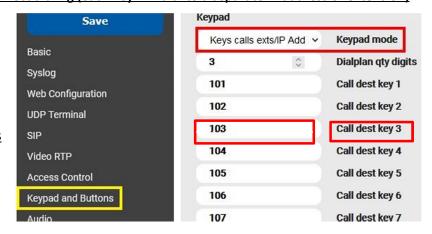
This setting allows the relay to remain open until a command is given to close the relay. In the example: when 42 will be pressed, relay number 2 will open until 52 is pressed, then relay number

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)

- Select the "keypad and buttons" page
- 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



# 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 distributer to test this function.

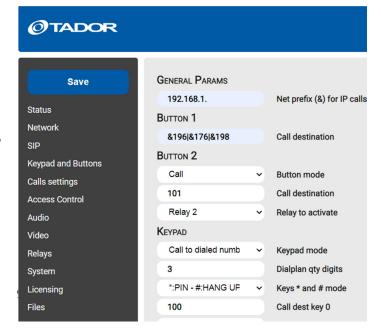
 Choose: Keypad and Button General Params

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



\* Possible to dial up to 5 ip address together

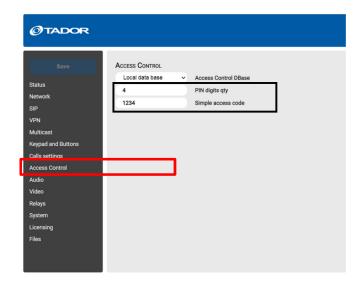
# See following chart to explain:

Device		IP Phone 1	IP Phone 2	IP Phone 3
IP address of t	elephones	s 192.168.1.196 192.168.1.176 192.		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		

<sup>\*</sup> Please note, each screen must be separated using the following sign: "|"

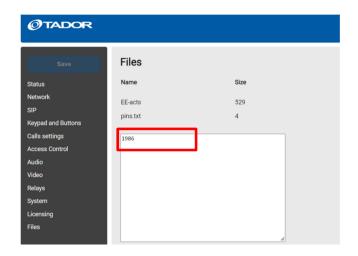
# Setting up a access code (recommended)

- 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.



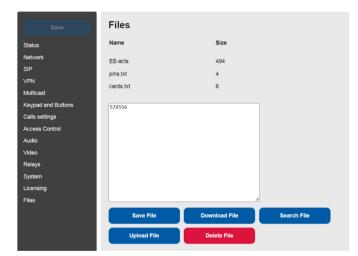
# Setting up a access code 2<sup>nd</sup> basic programming

- 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.



# 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.



# 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



# 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

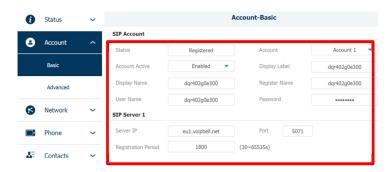


3. In order to set an IP extension on the screen: (the above settings are with a Tador Technologies server)

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

<u>User name:</u> user name on switchboard number/extension

<u>Password:</u> 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

# Tindex Number Name URL User Name Disolav 1 camera camera http://192.168.1.45:80/onvif/device\_service Disabled inp t box: 2 255: Broadsoft Phonebook server address 4 127: Remote Phonebook URL & AUTOP Manual Update 5 8 4 Server URL 63: The rest of input boxes Warning: 10 Delete Delete All Device Name Submit Submit Submit

# **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

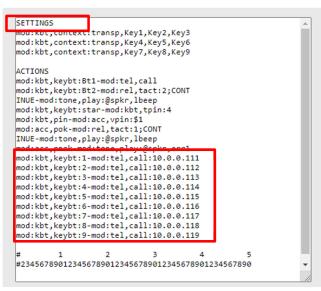
Mod:kbt,keybt:1-mod ->refers to key number 1

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

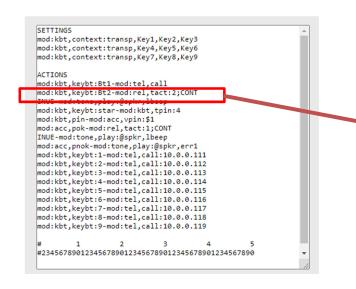
When key 1 is pressed, it will dial to IP address: 10.0.0.111



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

<u>Special settings - Files: Setting bypass button will open relay 1 or 2</u> (if it was defined that the keyboard will dial only directly or old versions prior to version 0.1.1-14)

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

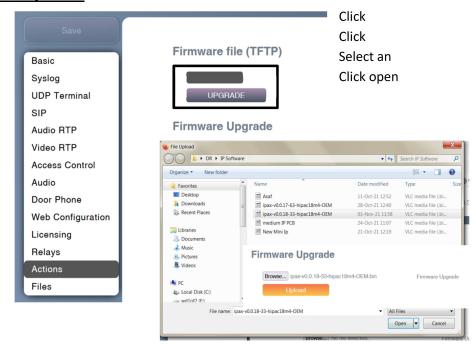
If we wish to change the bypass button to open relay number 1, we do it as follows:

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

# **Version update**

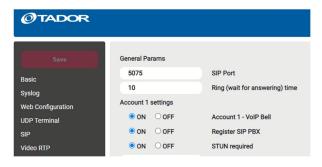
# 1. Action page - version update

Choose Firmware upgrade "Browse"
"Upload"
updated software File
Click "Upload", wait for the
Version update



# **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:

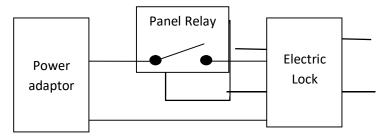
#### Solution 1:

- 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:

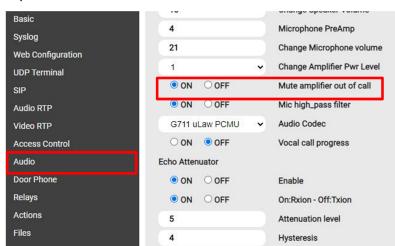
# Mute Amplifier out call

ON: silent mode, will not beep when

pressing the keyboard

OFF: normal mode, will beep when

pressing keys

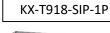


# 9. Settings for switchboards:

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



KX-T918-SIP-2P



KX-T927-SIP-2P

KX-T927-SIP-1P









Application for Cloud services
VOIPBELL

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