

# Using Door Phone Feature on Yealink Smart Media Phones

## Introduction

Access Control System provides two-way communication and allows the users to control the opening of the door or monitor the events around the door. It consists of both outside and indoor elements: an outdoor intercom and an indoor intercom. Yealink T5 series smart media phones can work as an indoor intercom and can be compatible with the 2N, Baudisch and CyberData outdoor intercom (hereinafter referred to as IP intercoms). The IP phones support up to 99 IP intercoms.

This guide provides detailed information on configuration and usage for Yealink IP phone & 2N/Baudisch/CyberData IP intercom. For more information on other IP intercoms, refer to the documentation from the manufacturer.

The features described in this guide are available on SIP-T58V, SIP-T58A and SIP-T56A IP phones running firmware version 58.80.0.30 or later.

This guide mainly takes the SIP-T58V IP phones as examples.

### Note

This guide involves several parameters not described in detail, please refer to [Yealink SIP-T5 Series CP960 IP Phones Administrator Guide](#) for more information.

## 2N IP Intercom

2N IP intercom offers two-way voice communication, as well as one-way video to let you see who is at the door before picking up the call. When a visitor rings your doorbell, the IP phone will ring. You can answer the call, get a preview of who's there or open the door directly on the IP phone. You can also use an Open Door DSS key to open the door at any time.

Yealink T5 series smart media phones are compatible with 2N IP intercoms series.

## IP Phone Configuration

You can configure the following settings:

Configuration	Description
Amount	Configures the number of IP intercoms supported by the IP phone.
Device Type	Configures the device type of the IP intercom.

Configuration	Description
<b>Display Name</b>	Configures the display name of the IP intercom to be displayed on the IP phone's screen.
<b>Phone Number</b>	Configures the phone number or IP address of the IP intercom.
<b>Full Screen</b>	Enables or disables the IP phone to enter full-screen display automatically after answering the visitor's call.
<b>Send Video</b>	Enables or disables the IP phone to transmit your video during a visitor's call.
<b>Send Audio</b>	Enables or disables the IP phone to transmit your audio during a visitor's call.
<b>Video Preview</b>	Enables or disables the IP phone to preview the visitor's video when receiving a visitor's incoming call.
<b>Auto Preview</b>	Enables or disables the IP phone to preview the visitor's video automatically when receiving a visitor's incoming call.
<b>Open Door DSS Key</b>	Taps to open the door at any time.

**Note**

In addition to the IP phone, IP intercom should be configured. For more information on how to configure the IP intercom, refer to the documentation from the manufacturer.

## Configuring Door Phone Feature Using Configuration Files

To configure door phone feature:

1. Add/Edit door phone parameters in the configuration template files:

Parameters	Permitted Values	Default
<b>features.doorphone.amount</b>	<b>Integer from 0 to 99</b>	<b>2</b>
<p><b>Description:</b> Configures the number of IP intercoms supported by the IP phone.</p> <p><b>Web User Interface:</b> None</p> <p><b>Phone User Interface:</b> None</p>		
<b>features.doorphone.X.device_model</b> (X ranges from 1 to 99)	<b>Integer from 0 to 4</b>	<b>0</b>
<p><b>Description:</b></p>		

Parameters	Permitted Values	Default
<p>Configures the device type of the IP intercom.</p> <p><b>0</b>-Custom  <b>1</b>-2N  <b>2</b>-Mobotix  <b>3</b>-Baudisch  <b>4</b>-CyberData</p> <p><b>Web User Interface:</b>  Features-&gt;Door Phone-&gt;Device Type</p> <p><b>Phone User Interface:</b>  None</p>		
<p><b>features.doorphone.X.display_name</b>  (X ranges from 1 to 99)</p>	<p><b>String within 99 characters</b></p>	<p><b>Blank</b></p>
<p><b>Description:</b>  Configures the display name of the IP intercom to be displayed on the IP phone's screen.</p> <p><b>Web User Interface:</b>  Features-&gt;Door Phone-&gt;Display Name</p> <p><b>Phone User Interface:</b>  None</p>		
<p><b>features.doorphone.X.phone_number</b>  (X ranges from 1 to 99)</p>	<p><b>String within 32 characters</b></p>	<p><b>Blank</b></p>
<p><b>Description:</b>  Configures the phone number or IP address of the IP intercom.</p> <p><b>Web User Interface:</b>  Features-&gt;Door Phone-&gt;Phone Number</p> <p><b>Phone User Interface:</b>  None</p>		
<p><b>features.doorphone.X.unlock_pin</b>  (X ranges from 1 to 99)</p>	<p><b>String within 99 characters</b></p>	<p><b>Blank</b></p>
<p><b>Description:</b>  Configures the unlock PIN of the IP intercom.</p> <p><b>Example:</b>  features.doorphone.1.unlock_pin=8888*</p> <p>When tapping the <b>Open Door</b> soft key after answering the call, the IP phone will send the</p>		

Parameters	Permitted Values	Default
<p>DTMF sequence "8888*" to the IP intercom. And if the DTMF sequence matches the code configured on IP intercom, the door will be opened.</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Unlock PIN</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.full_screen</b> (X ranges from 1 to 99)</p>	<p><b>0 or 1</b></p>	<p><b>0</b></p>
<p><b>Description:</b> Enables or disables the IP phone to enter full-screen display automatically after answering the visitor's call.</p> <p><b>0</b>-Disabled <b>1</b>-Enabled</p> <p><b>Note:</b> It works only if the value of the IP phone supports video call feature (the value of the parameter "video.enable" is not set to 0 (Disabled)).</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Full Screen</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.send_audio</b> (X ranges from 1 to 99)</p>	<p><b>0 or 1</b></p>	<p><b>1</b></p>
<p><b>Description:</b> Enables or disables the IP phone to transmit your audio during a visitor's call.</p> <p><b>0</b>-Disabled <b>1</b>-Enabled</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Send Audio</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.send_video</b> (X ranges from 1 to 99)</p>	<p><b>0 or 1</b></p>	<p><b>1</b></p>
<p><b>Description:</b> Enables or disables the IP phone to transmit your video during a visitor's call.</p>		

Parameters	Permitted Values	Default
<p><b>0</b>-Disabled</p> <p><b>1</b>-Enabled</p> <p><b>Note:</b> It works only if the IP phone supports video call feature (the value of the parameter "video.enable" is set to 0 (Disabled)). It is not applicable to SIP-T56A IP phones.</p> <p><b>Web User Interface:</b></p> <p>Features-&gt;Door Phone-&gt;Send Video</p> <p><b>Phone User Interface:</b></p> <p>None</p>		
<p><b>features.doorphone.X.videopreview.enable</b></p> <p>(X ranges from 1 to 99)</p>	<p><b>0 or 1</b></p>	<p><b>0</b></p>
<p><b>Description:</b></p> <p>Enables or disables the video preview when receiving a visitor's incoming call.</p> <p><b>0</b>-Disabled</p> <p><b>1</b>-Enabled</p> <p>If it is set to 1 (Enabled) and the value of the parameter "features.doorphone.X.autopreview.enable" is set to 0 (Disabled), users can tap the <b>Preview</b> soft key to check the visitor's video when receiving a visitor's incoming call. And the IP phone will stop playing the ringtone.</p> <p><b>Note:</b> It works only if the value of the parameter "account.X.auto_answer" is set to 0 (Disabled) and the IP phone supports video call feature (the value of the parameter "video.enable" is set to 0 (Disabled)).</p> <p><b>Web User Interface:</b></p> <p>Features-&gt;Door Phone-&gt;Video Preview</p> <p><b>Phone User Interface:</b></p> <p>None</p>		
<p><b>features.doorphone.X.autopreview.enable</b></p> <p>(X ranges from 1 to 99)</p>	<p><b>0 or 1</b></p>	<p><b>0</b></p>
<p><b>Description:</b></p> <p>Enables or disables the IP phone to preview the visitor's video automatically when receiving a visitor's incoming call.</p> <p><b>0</b>-Disabled</p> <p><b>1</b>-Enabled</p> <p>If it is set to 1 (Enabled), the IP phone will display the visitor's video automatically when receiving a visitor's incoming call. And the IP phone will still play ringtone.</p> <p><b>Note:</b> It works only if the value of the parameter</p>		

Parameters	Permitted Values	Default
<p>"features.doorphone.X.videopreview.enable" is set to 1 (Enabled), the value of the parameter "account.X.auto_answer" is set to 0 (Disabled) and the IP phone supports video call feature (the value of the parameter "video.enable" is set to 0 (Disabled)).</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Auto Preview</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.httpapi.username</b> (X ranges from 1 to 99)</p>	<p><b>String within 99 characters</b></p>	<p><b>Blank</b></p>
<p><b>Description:</b> Configures the user name for HTTP API authentication.</p> <p><b>Note:</b> The user name should match the IP intercom's HTTP API account user name. And it is required only if the IP intercom needs the HTTP API authentication.</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;User Name</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.httpapi.password</b> (X ranges from 1 to 99)</p>	<p><b>String within 99 characters</b></p>	<p><b>Blank</b></p>
<p><b>Description:</b> Configures the password for HTTP API authentication.</p> <p><b>Note:</b> The password should match the IP intercom's HTTP API account password. And it is required only if the IP intercom needs the HTTP API authentication.</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Password</p> <p><b>Phone User Interface:</b> None</p>		

The following shows an example of door phone configurations in a template configuration file (e.g., y000000000058.cfg):

```
features.doorphone.1.device_model=1
features.doorphone.1.display_name=DoorPhone 1
features.doorphone.1.phone_number=1048
features.doorphone.1.unlock_pin=8888*
features.doorphone.1.full_screen=1
features.doorphone.1.send_audio=1
```

```

features.doorphone.1.send_video=1
features.doorphone.1.videopreview.enable=1
features.doorphone.1.autopreview.enable=0
features.doorphone.1.httpapi.username=test
features.doorphone.1.httpapi.password=test

```

2. Upload the configuration files.

### To configure an Open Door DSS key:

1. Add/Edit DSS key parameters in the configuration template files:

Parameters	Permitted Values	Default
<b>linekey.X.type/ expansion_module.X.key.Y.type</b>	<b>84</b>	<b>Refer to the following content</b>
<p><b>Description:</b>  Configures a DSS key as Open Door on the IP phone.  The digit <b>84</b> stands for the key type <b>Open Door</b>.  For line keys:  X ranges from 1 to 27  For ext keys:  X ranges from 1 to 3, Y ranges from 1 to 60</p> <p><b>Example:</b>  linekey.2.type = 84</p> <p><b>Default:</b>  For line keys:  The default value of the line key 1-16 is 15, and the default value of the line key 17-27 is 0.  For ext keys:  When Y= 1 to 60, the default value is 0 (NA).</p> <p><b>Web User Interface:</b>  DSSKey-&gt;Line Key/Ext Key-&gt;Type</p> <p><b>Phone User Interface:</b>  Settings-&gt;Features-&gt;DSS Keys-&gt;Line Key X-&gt;Type</p>		
<b>linekey.X.value/ expansion_module.X.key.Y.value</b>	<b>String within 99 characters</b>	<b>Blank</b>
<p><b>Description:</b>  Configures the open door URL of 2N IP intercom.  The valid URL format is:</p>		

Parameters	Permitted Values	Default
<p>http://&lt;IP address of the IP intercom&gt;/api/switch/ctrl?switch=1&amp;action=trigger.</p> <p>For line keys: X ranges from 1 to 27</p> <p>For ext keys: X ranges from 1 to 3, Y ranges from 1 to 60</p> <p><b>Example:</b> linekey.2.value = http://192.168.1.1/api/switch/ctrl?switch=1&amp;action=trigger</p> <p><b>Web User Interface:</b> DSSKey-&gt;Line Key/Ext Key-&gt;Value</p> <p><b>Phone User Interface:</b> Settings-&gt;Features-&gt;DSS Keys-&gt;Line Key X-&gt;Value</p>		
<b>linekey.X.label/ expansion_module.X.key.Y.label</b>	<b>String within 99 characters</b>	<b>Blank</b>
<p><b>Description:</b> (Optional.) Configures the label displayed on the touch screen for each DSS key.</p> <p>For line keys: X ranges from 1 to 27</p> <p>For ext keys: X ranges from 1 to 3, Y ranges from 1 to 60</p> <p><b>Web User Interface:</b> DSSKey-&gt;Line Key/Ext Key-&gt;Label</p> <p><b>Phone User Interface:</b> Settings-&gt;Features-&gt;DSS Keys-&gt;Line Key X-&gt;Label</p>		
<b>linekey.X.extension/ expansion_module.X.key.Y.extension</b>	<b>String within 256 characters</b>	<b>Blank</b>
<p><b>Description:</b> Configures the number or IP address of the IP intercom that this key will apply to.</p> <p>For line keys: X ranges from 1 to 27</p> <p>For ext keys: X ranges from 1 to 3, Y ranges from 1 to 60</p> <p><b>Example:</b> linekey.2.extension = 1048</p> <p><b>Web User Interface:</b></p>		



Parameters	Permitted Values	Default
DSSKey->Line Key/Ext Key->Extension		
<b>Phone User Interface:</b>		
Settings->Features->DSS Keys->Line Key X->Extension		

The following shows an example of line key configurations in a template configuration file (e.g., y000000000058.cfg):

```
linekey.2.type=84
linekey.2.value=http://192.168.1.1/api/switch/ctrl?switch=1&action=trigger
linekey.2.label=Floor 1
linekey.2.extension=1048
```

2. Upload the configuration files.

## Configuring Door Phone Feature via Web User Interface

**To configure door phone feature:**

1. Click on **Features->Door Phone**.
2. Select the desired IP intercom from the pull-down list of **Door Phone List**.
3. Select **2N** from the pull-down list of **Device Type**.
4. Enter the display name of the IP intercom in the **Display Name** field.
5. Enter the phone number or IP address of the IP intercom in the **Phone Number** field.

If you leave it blank or enter the wrong number, the IP phone will take the visitor's incoming call as a normal call.

6. Enter the unlock PIN in the **Unlock PIN** field.  
It should match the code configured on IP intercom.
7. Select the desired value from the pull-down list of **Full Screen**.
8. Select the desired value from the pull-down list of **Send Audio**.
9. Select the desired value from the pull-down list of **Send Video**.
10. Select the desired value from the pull-down list of **Video Preview**.
11. Select the desired value from the pull-down list of **Auto Preview**.

12. (Optional.) Enter the username and the password in the **User Name** and **Password** field respectively.

The value should match the IP intercom's HTTP API account username and password. And they are required only if the IP intercom needs HTTP API authentication.

13. Click **Confirm** to accept the change.

#### To configure an Open Door DSS key:

1. Click on **DSSKey->Line Key** (or **Ext Key**).
2. In the desired DSS key field, select **Open Door** from the pull-down list of **Type**.
3. Enter the open door URL in the **Value** field.

The valid URL format is:

`http://<IP address of IP intercom>/api/switch/ctrl?switch=1&action=trigger.`

4. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.
5. Enter the desired number or IP address of the IP intercom in the **Extension** field.

Key	Type	Value	Label	Line	Extension
Line Key1	Line		1037	Line 1	
Line Key2	Open Door	?switch=1&action=trigger	Floor 1	N/A	1048
Line Key3	Open Door	?switch=1&action=trigger	Floor 2	N/A	1058
Line Key4	Line			Line 4	
Line Key5	Line			Line 5	

6. Click **Confirm** to accept the change.

## Using Door Phone Feature

### Opening the Door

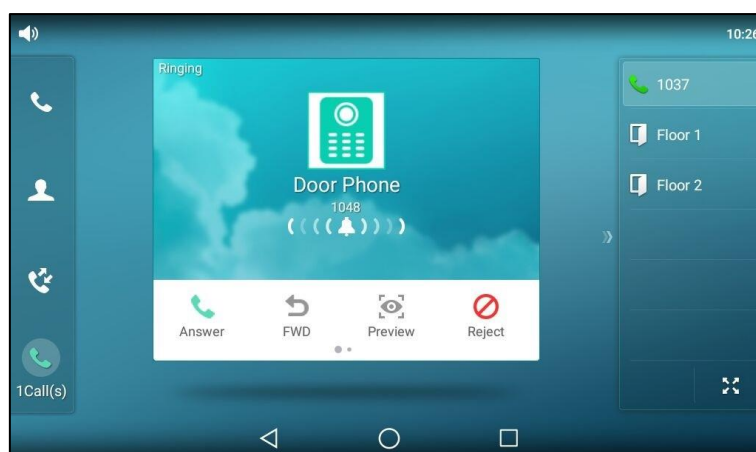
You can use the following keys to open the door:

- **Open Door** soft key: After answering the visitor's call, you can tap the **Open Door** soft key to open the door.
- Open Door DSS key: You can tap the Open Door DSS key to open the door at any time.

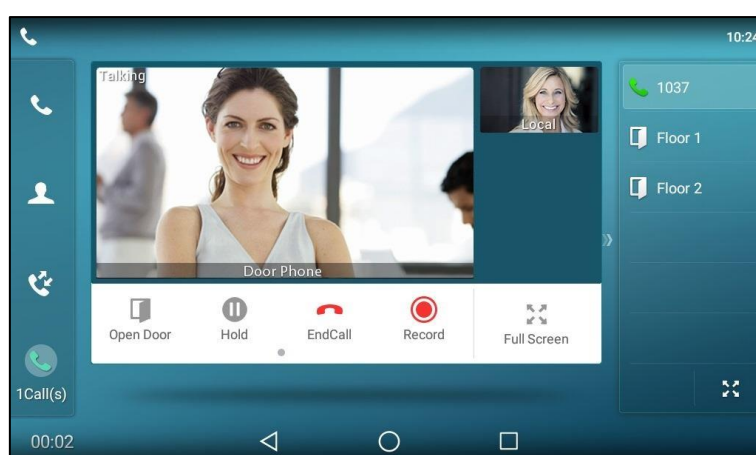
### Opening the Door during the Call

**To open the door using the Open Door soft key:**

When receiving a visitor's call, the touch screen will display as below:



1. Tap the **Answer** soft key.



2. Tap the **Open Door** soft key.

The door is opened.

### Opening the Door at Any Time (One-Button Open)

The IP phone supports one-button open feature, you can tap the Open Door DSS key to open

the door at any time.

**To open the door using Open Door DSS key:**

1. Tap the Open Door DSS Key.

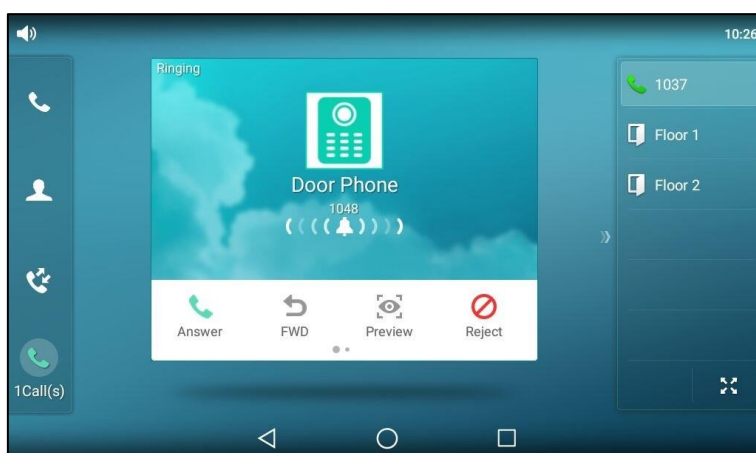
The IP phone will play a beep to indicate that the door is opened.

## Previewing the Visitor's Video

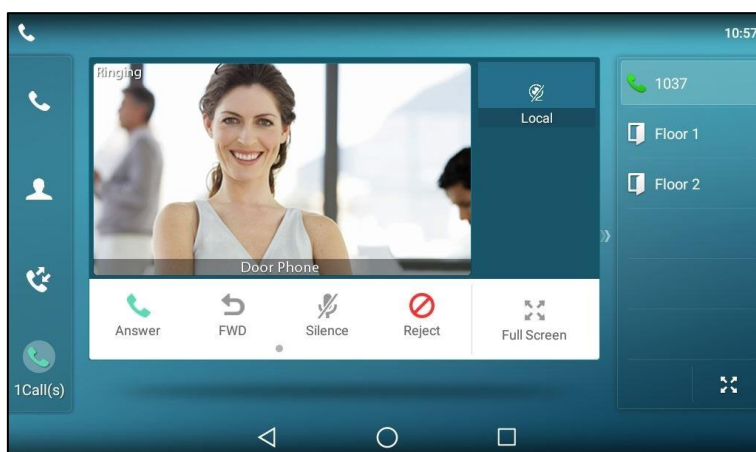
Preview feature lets you see who is at the door before picking up the call.

**To preview the visitor's video:**

When receiving a visitor's call, the touch screen will display as below:



1. Tap the **Preview** soft key.



The IP phone stops playing ring tone, but the call is still not answered.

## Baudisch IP Intercom

Baudisch IP intercom offers two-way voice communication, as well as one-way video to let you see who is at the door before picking up the call. When a visitor rings your doorbell, the IP

phone will ring. You can get a preview of who's there, answer the call and then open the door on the IP phone. You can use a Video Monitoring DSS key to check the camera video at any time. And the video stream is retrieved from the video access URL.

Yealink T5 series smart media phones are compatible with Baudisch Compact series IP intercoms.

## IP Phone Configuration

You can configure the following settings:

Configuration	Description
<b>Amount</b>	Configures the number of IP intercoms supported by the IP phone.
<b>Device Type</b>	Configures the device type of the IP intercom.
<b>Display Name</b>	Configures the display name of the IP intercom to be displayed on the IP phone's screen.
<b>Phone Number</b>	Configures the phone number or IP address of the IP intercom.
<b>IP CAM</b>	Configures the video access URL of the IP intercom camera.
<b>Auto View In Call</b>	Enables or disables the IP phone to display the video automatically after answering the visitor's call.
<b>Send Audio</b>	Enables or disables the IP phone to transmit your audio during a visitor's call.
<b>Video Preview</b>	Enables or disables the IP phone to preview the visitor's video when receiving a visitor's incoming call.
<b>Auto Preview</b>	Enables or disables the IP phone to preview the visitor's video automatically when receiving a visitor's incoming call.
<b>Video Monitoring DSS key</b>	Taps to retrieve video stream from IP intercom camera at any time.

### Note

In addition to the IP phone, IP intercom should be configured. For more information on how to configure the IP intercom, refer to the documentation from the manufacturer.

## Configuring Door Phone Feature Using Configuration Files

### To configure door phone feature:

1. Add/Edit door phone parameters in the configuration template files:

Parameters	Permitted Values	Default
<b>features.doorphone.amount</b>	<b>Integer from 0 to 99</b>	<b>2</b>
<p><b>Description:</b> Configures the number of IP intercoms supported by the IP phone.</p> <p><b>Web User Interface:</b> None</p> <p><b>Phone User Interface:</b> None</p>		
<b>features.doorphone.X.device_model</b> (X ranges from 1 to 99)	<b>Integer from 0 to 4</b>	<b>0</b>
<p><b>Description:</b> Configures the device type of the IP intercom.</p> <p><b>0</b>-Custom <b>1</b>-2N <b>2</b>-Mobotix <b>3</b>-Baudisch <b>4</b>-CyberData</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Device Type</p> <p><b>Phone User Interface:</b> None</p>		
<b>features.doorphone.X.display_name</b> (X ranges from 1 to 99)	<b>String within 99 characters</b>	<b>Blank</b>
<p><b>Description:</b> Configures the display name of the IP intercom to be displayed on the IP phone's screen.</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Display Name</p> <p><b>Phone User Interface:</b> None</p>		

Parameters	Permitted Values	Default
<b>features.doorphone.X.phone_number</b> (X ranges from 1 to 99)	<b>String within 32 characters</b>	<b>Blank</b>
<p><b>Description:</b> Configures the phone number or IP address of the IP intercom.</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Phone Number</p> <p><b>Phone User Interface:</b> None</p>		
<b>features.doorphone.X.unlock_pin</b> (X ranges from 1 to 99)	<b>String within 99 characters</b>	<b>Blank</b>
<p><b>Description:</b> Configures the unlock PIN of the IP intercom.</p> <p><b>Example:</b> features.doorphone.1.unlock_pin=8888*</p> <p>When tapping the <b>Open Door</b> soft key after answering the call, the IP phone will send the DTMF sequence "8888*" to the IP intercom. And if the DTMF sequence matches the code configured on IP intercom, the door will be opened.</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Unlock PIN</p> <p><b>Phone User Interface:</b> None</p>		
<b>features.doorphone.X.video.stream.httpurl</b> (X ranges from 1 to 99)	<b>URL within 511 characters</b>	<b>Blank</b>
<p><b>Description:</b> Configures the video access URL of IP intercom camera.</p> <p>The valid URL format is: http://&lt;IP address of the IP intercom&gt;/mjpg/video.mjpg or http://username:password@&lt;IP address of the IP intercom&gt;/mjpg/video.mjpg.</p> <p><b>Example:</b> features.doorphone.1.video.stream.httpurl= http://192.168.1.1/mjpg/video.mjpg</p> <p>The IP phone will retrieve the video stream from the configured URL when the user tap the <b>Video View</b> soft key after answering the call or when answering the call with auto video feature is enabled (configured by the parameter "features.doorphone.X.autovideoview.enable").</p>		

Parameters	Permitted Values	Default
<p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;IP CAM</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.autovideoview.enable</b> (X ranges from 1 to 99)</p>	<p><b>0 or 1</b></p>	<p><b>1</b></p>
<p><b>Description:</b> Enables or disables the IP phone to display the video automatically after answering the visitor's call.</p> <p><b>0</b>-Disabled <b>1</b>-Enabled</p> <p>If it is set to 1 (Enabled), the IP phone will retrieve the video stream immediately after answering the visitor's call without tapping the <b>Video View</b> soft key.</p> <p><b>Note:</b> It works only if the video access URL is valid (configured by the parameter "features.doorphone.X.video.stream.httpurl").</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Auto View In Call</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.send_audio</b> (X ranges from 1 to 99)</p>	<p><b>0 or 1</b></p>	<p><b>1</b></p>
<p><b>Description:</b> Enables or disables the IP phone to transmit your audio during a visitor's call.</p> <p><b>0</b>-Disabled <b>1</b>-Enabled</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Send Audio</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.videopreview.enable</b> (X ranges from 1 to 99)</p>	<p><b>0 or 1</b></p>	<p><b>0</b></p>
<p><b>Description:</b> Enables or disables the video preview when receiving a visitor's incoming call.</p>		



Parameters	Permitted Values	Default
<p><b>0</b>-Disabled <b>1</b>-Enabled</p> <p>If it is set to 1 (Enabled) and the value of the parameter "features.doorphone.X.autopreview.enable" is set to 0 (Disabled), users can tap the <b>Preview</b> soft key to check the visitor's video when receiving a visitor's incoming call. And the IP phone will stop playing the ringtone.</p> <p><b>Note:</b> It works only if the value of the parameter "account.X.auto_answer" is set to 0 (Disabled).</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Video Preview</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.autopreview.enable</b> (X ranges from 1 to 99)</p>	<p><b>0 or 1</b></p>	<p><b>0</b></p>
<p><b>Description:</b> Enables or disables the IP phone to preview the visitor's video automatically when receiving a visitor's incoming call.</p> <p><b>0</b>-Disabled <b>1</b>-Enabled</p> <p>If it is set to 1 (Enabled), the IP phone will display the visitor's video automatically when receiving a visitor's incoming call. And the IP phone will still play ringtone.</p> <p><b>Note:</b> It works only if the value of the parameter "features.doorphone.X.videopreview.enable" is set to 1 (Enabled) and the value of the parameter "account.X.auto_answer" is set to 0 (Disabled).</p> <p><b>Web User Interface:</b> Features-&gt;Door Phone-&gt;Auto Preview</p> <p><b>Phone User Interface:</b> None</p>		
<p><b>features.doorphone.X.httpapi.username</b> (X ranges from 1 to 99)</p>	<p><b>String within 99 characters</b></p>	<p><b>Blank</b></p>
<p><b>Description:</b> Configures the user name for HTTP API authentication.</p> <p><b>Note:</b> The username should match the IP intercom camera's administrator username. And it is required only if the IP intercom needs HTTP API authentication.</p> <p><b>Web User Interface:</b></p>		

Parameters	Permitted Values	Default
Features->Door Phone->User Name <b>Phone User Interface:</b> None		
<b>features.doorphone.X.httpapi.password</b> (X ranges from 1 to 99)	<b>String within 99 characters</b>	<b>Blank</b>
<b>Description:</b> Configures the password for HTTP API authentication. <b>Note:</b> The password should match the IP intercom camera's administrator password. And it is required only if the IP intercom needs HTTP API authentication. <b>Web User Interface:</b> Features->Door Phone->Password <b>Phone User Interface:</b> None		

The following shows an example of door phone configurations in a template configuration file (e.g., y000000000058.cfg):

```
features.doorphone.1.device_model=3
features.doorphone.1.display_name=DoorPhone 1
features.doorphone.1.phone_number=1048
features.doorphone.1.unlock_pin=8888*
features.doorphone.1.video.stream.httpurl=http://192.168.1.1/mjpg/video.mjpg
features.doorphone.1.autovideoview.enable=0
features.doorphone.1.send_audio=1
features.doorphone.1.videopreview.enable=1
features.doorphone.1.autopreview.enable=0
features.doorphone.1.httpapi.username=admin
features.doorphone.1.httpapi.password=test
```

- Upload the configuration files.

#### To configure a Video Monitoring DSS key:

- Add/Edit DSS key parameters in the configuration template files:

Parameters	Permitted Values	Default
<b>linekey.X.type/ expansion_module.X.key.Y.type</b>	<b>85</b>	<b>Refer to the following content</b>
<b>Description:</b>		

Parameters	Permitted Values	Default
<p>Configures a DSS key as Video Monitoring on the IP phone.</p> <p>The digit <b>85</b> stands for the key type <b>Video Monitoring</b>.</p> <p>For line keys: X ranges from 1 to 27</p> <p>For ext keys: X ranges from 1 to 3, Y ranges from 1 to 60</p> <p><b>Example:</b> linekey.2.type = 85</p> <p><b>Default:</b></p> <p>For line keys: The default value of the line key 1-16 is 15, and the default value of the line key 17-27 is 0.</p> <p>For ext keys: When Y= 1 to 60, the default value is 0 (NA).</p> <p><b>Web User Interface:</b> DSSKey-&gt;Line Key/Ext Key-&gt;Type</p> <p><b>Phone User Interface:</b> Settings-&gt;Features-&gt;DSS Keys-&gt;Line Key X-&gt;Type</p>		
<b>linekey.X.value/ expansion_module.X.key.Y.value</b>	<b>String within 99 characters</b>	<b>Blank</b>
<p><b>Description:</b></p> <p>Configures the video access URL of IP intercom camera.</p> <p>The valid URL format is: http://&lt;IP address of the IP intercom&gt;/mjpg/video.mjpg or http://username:password@&lt;IP address of the IP intercom&gt;/mjpg/video.mjpg.</p> <p>For line keys: X ranges from 1 to 27</p> <p>For ext keys: X ranges from 1 to 3, Y ranges from 1 to 60</p> <p><b>Example:</b> linekey.2.value = http://192.168.1.1/mjpg/video.mjpg</p> <p><b>Web User Interface:</b> DSSKey-&gt;Line Key/Ext Key-&gt;Value</p> <p><b>Phone User Interface:</b> Settings-&gt;Features-&gt;DSS Keys-&gt;Line Key X-&gt;Value</p>		
<b>linekey.X.label/ expansion_module.X.key.Y.label</b>	<b>String within</b>	<b>Blank</b>

Parameters	Permitted Values	Default
	99 characters	
<p><b>Description:</b>            (Optional.) Configures the label displayed on the touch screen for each DSS key.            For line keys:            X ranges from 1 to 27            For ext keys:            X ranges from 1 to 3, Y ranges from 1 to 60</p> <p><b>Web User Interface:</b>            DSSKey-&gt;Line Key/Ext Key-&gt;Label</p> <p><b>Phone User Interface:</b>            Settings-&gt;Features-&gt;DSS Keys-&gt;Line Key X-&gt;Label</p>		
<b>linekey.X.extension/ expansion_module.X.key.Y.extension</b>	<b>String within 256 characters</b>	<b>Blank</b>
<p><b>Description:</b>            Configures the number or IP address of the IP intercom that this key will apply to.            For line keys:            X ranges from 1 to 27            For ext keys:            X ranges from 1 to 3, Y ranges from 1 to 60</p> <p><b>Example:</b>            linekey.2.extension = 1048</p> <p><b>Web User Interface:</b>            DSSKey-&gt;Line Key/Ext Key-&gt;Extension</p> <p><b>Phone User Interface:</b>            Settings-&gt;Features-&gt;DSS Keys-&gt;Line Key X-&gt;Extension</p>		

The following shows an example of line key configurations in a template configuration file (e.g., y000000000058.cfg):

```
linekey.2.type=85
linekey.2.value=http://192.168.1.1/mjpg/video.mjpg
linekey.2.label=Floor 1
linekey.2.extension=1048
```

2. Upload the configuration files.

## Configuring Door Phone Feature via Web User Interface

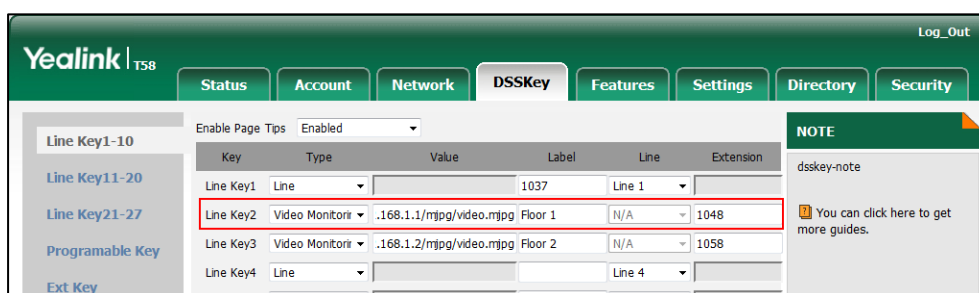
To configure door phone feature:

1. Click on **Features->Door Phone**.
2. Select the desired IP intercom from the pull-down list of **Door Phone List**.
3. Select **Baudisch** from the pull-down list of **Device Type**.
4. Enter the display name of the IP intercom in the **Display Name** field.
5. Enter the phone number or IP address of the IP intercom in the **Phone Number** field.  
If you leave it blank or enter the wrong number, the IP phone will take the visitor's incoming call as a normal call.
6. Enter the unlock PIN in the **Unlock PIN** field.  
It should match the code configured on IP intercom.
7. Enter the video access URL in the **IP CAM** field.  
The valid URL format is: http://<IP address of the IP intercom>/mjpg/video.mjpg or http://username:password@<IP address of the IP intercom>/mjpg/video.mjpg.
8. Select the desired value from the pull-down list of **Auto View In Call**.
9. Select the desired value from the pull-down list of **Send Audio**.
10. Select the desired value from the pull-down list of **Video Preview**.
11. Select the desired value from the pull-down list of **Auto Preview**.
12. (Optional.) Enter the desired value in the **User Name** and **Password** field respectively.  
The value should match the IP intercom camera's administrator username and password.  
And they are required only if the IP intercom needs HTTP API authentication.

13. Click **Confirm** to accept the change.

**To configure a Video Monitoring DSS key:**

1. Click on **DSSKey->Line Key** (or **Ext Key**).
2. In the desired DSS key field, select **Video Monitoring** from the pull-down list of **Type**.
3. Enter the video access URL in the **Value** field.  
The valid URL format is: http://<IP address of the IP intercom>/mjpg/video.mjpg or http://username:password@<IP address of the IP intercom>/mjpg/video.mjpg.
4. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.
5. Enter the desired number or IP address of the IP intercom in the **Extension** field.



6. Click **Confirm** to accept the change.

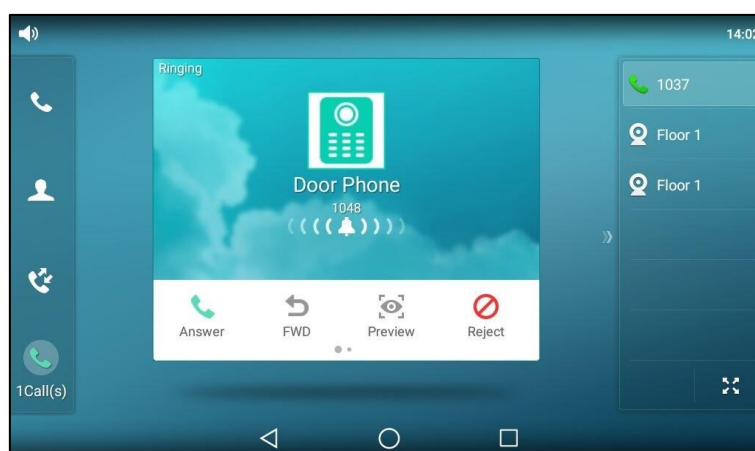
## Using Door Phone Feature

### Opening the Door

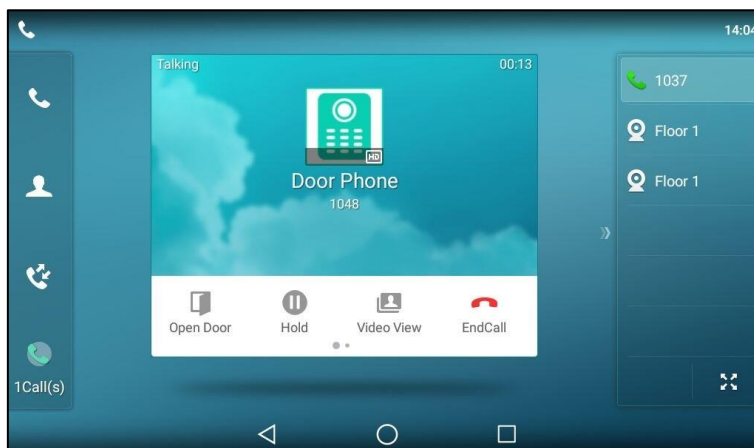
You can use the **Open Door** soft key to open the door.

#### To open the door:

When receiving a visitor's call, the touch screen will display as below:



1. Tap the **Answer** soft key.



2. Tap the **Open Door** soft key.

The door is opened.

## Checking the Visitor's Video

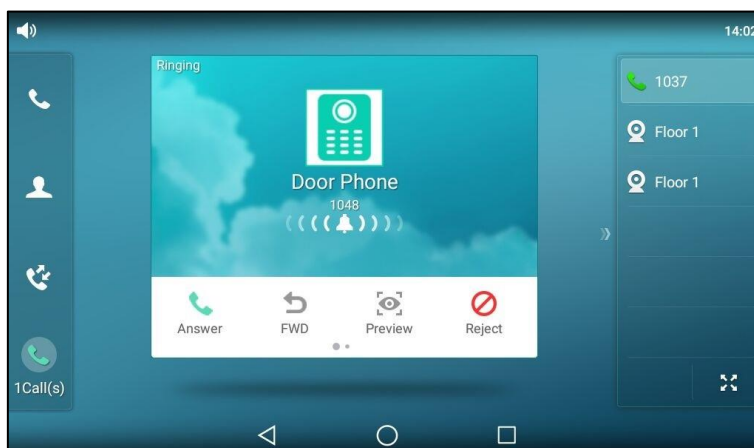
You can check the visitor's video in following three scenarios:

- View the visitor's video during the call.
- Preview the visitor's video before picking up the call.
- Check the camera video at any time.

## Viewing the Visitor's Video during the Call

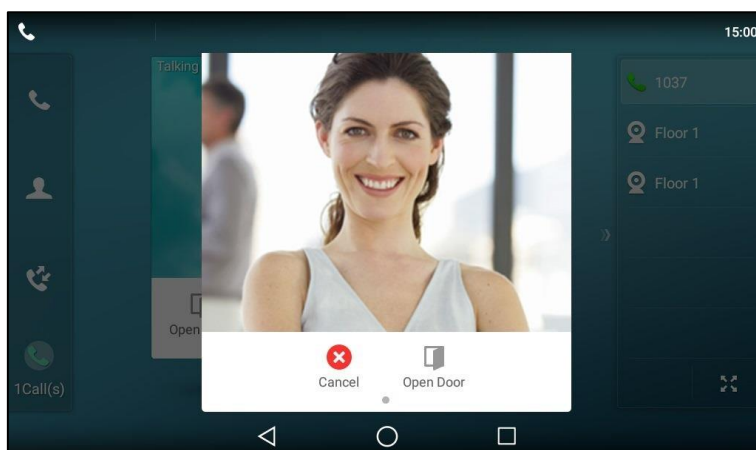
**To view the visitor's video during the call:**

When receiving a visitor's call, the touch screen will display as below:



1. Tap the **Answer** soft key.

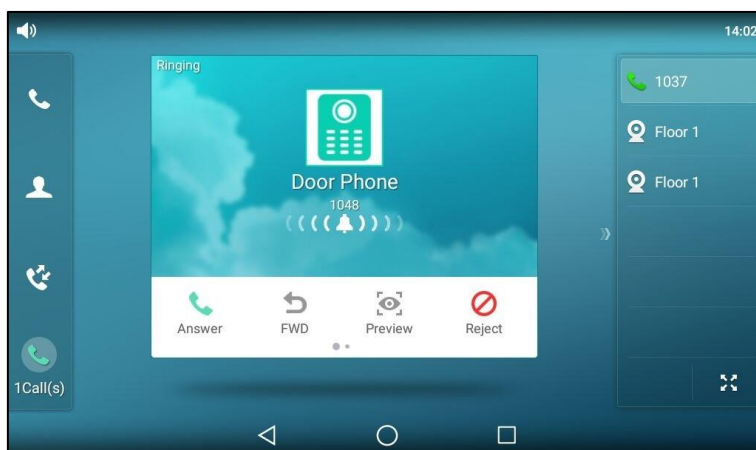
2. Tap the **Video View** soft key.



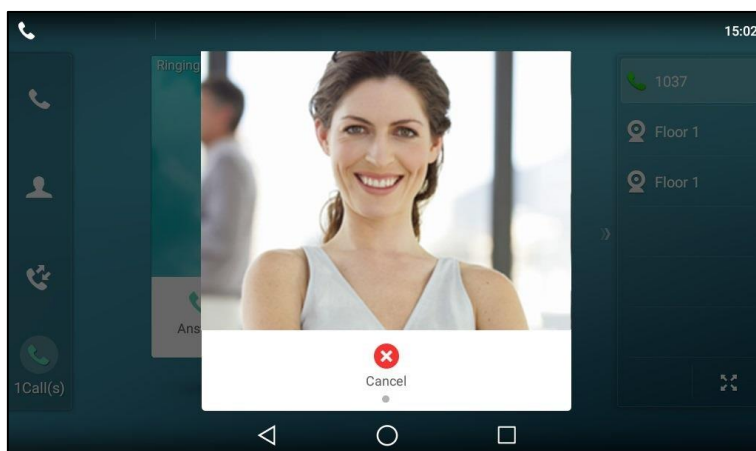
### Previewing the Visitor's Video when receiving a visitor's call

**To preview the visitor's video when receiving a visitor's call:**

When receiving a visitor's call, the touch screen will display as below:



1. Tap the **Preview** soft key.



The IP phone stops playing ring tone, but the call is still not answered.

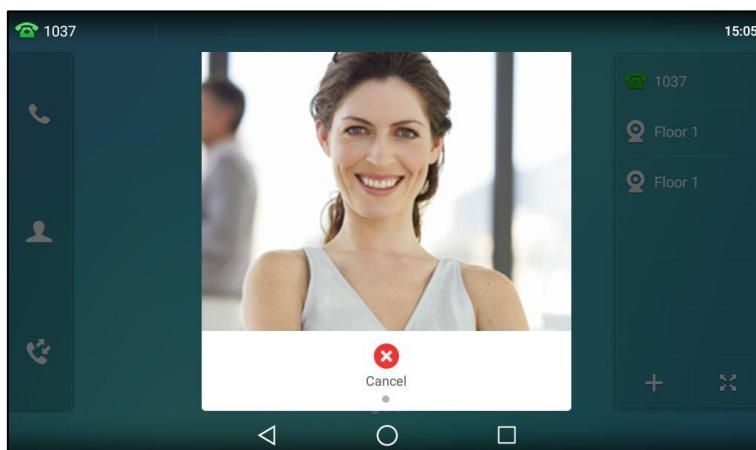


## Checking the Camera Video at Any Time (Monitoring)

The IP phone supports monitoring feature, you can tap the Video Monitoring DSS key to check the camera video at any time.

**To check the camera video at any time:**

1. Tap the Video Monitoring DSS key at any time.



## CyberData IP Intercom

CyberData IP intercom offers two-way voice communication, as well as one-way video to let you see who is at the door before picking up the call. When a visitor rings your doorbell, the IP phone will ring. You can get a preview of who's there, answer the call and then open the door on the IP phone.

Yealink T5 series smart media phones are compatible with CyberData's h264 video intercoms.

## IP Phone Configuration

You can configure the following settings:

Configuration	Description
<b>Amount</b>	Configures the number of IP intercoms supported by the IP phone.
<b>Device Type</b>	Configures the device type of the IP intercom.
<b>Display Name</b>	Configures the display name of the IP intercom to be displayed on the IP phone's screen.
<b>Phone Number</b>	Configures the phone number or IP address of the IP intercom.
<b>Full Screen</b>	Enables or disables the IP phone to enter full-screen display automatically after answering the visitor's call.

Configuration	Description
<b>Send Video</b>	Enables or disables the IP phone to transmit your video during a visitor's call.
<b>Send Audio</b>	Enables or disables the IP phone to transmit your audio during a visitor's call.
<b>Video Preview</b>	Enables or disables the IP phone to preview the visitor's video when receiving a visitor's incoming call.
<b>Auto Preview</b>	Enables or disables the IP phone to preview the visitor's video automatically when receiving a visitor's incoming call.

**Note**

In addition to the IP phone, IP intercom should be configured. For more information on how to configure the IP intercom, refer to the documentation from the manufacturer.

## Configuring Door Phone Feature Using Configuration Files

### To configure door phone feature:

1. Add/Edit door phone parameters in the configuration template files:

Parameters	Permitted Values	Default
<b>features.doorphone.amount</b>	<b>Integer from 0 to 99</b>	<b>2</b>
<p><b>Description:</b> Configures the number of IP intercoms supported by the IP phone.</p> <p><b>Web User Interface:</b> None</p> <p><b>Phone User Interface:</b> None</p>		
<b>features.doorphone.X.device_model</b> (X ranges from 1 to 99)	<b>Integer from 0 to 4</b>	<b>0</b>
<p><b>Description:</b> Configures the device type of the IP intercom.</p> <p><b>0</b>-Custom <b>1</b>-2N <b>2</b>-Mobotix <b>3</b>-Baudisch <b>4</b>-CyberData</p> <p><b>Web User Interface:</b></p>		

Parameters	Permitted Values	Default
Features->Door Phone->Device Type <b>Phone User Interface:</b> None		
<b>features.doorphone.X.display_name</b> (X ranges from 1 to 99)	<b>String within 99 characters</b>	<b>Blank</b>
<b>Description:</b> Configures the display name of the IP intercom to be displayed on the IP phone's screen. <b>Web User Interface:</b> Features->Door Phone->Display Name <b>Phone User Interface:</b> None		
<b>features.doorphone.X.phone_number</b> (X ranges from 1 to 99)	<b>String within 32 characters</b>	<b>Blank</b>
<b>Description:</b> Configures the phone number or IP address of the IP intercom. <b>Web User Interface:</b> Features->Door Phone->Phone Number <b>Phone User Interface:</b> None		
<b>features.doorphone.X.unlock_pin</b> (X ranges from 1 to 99)	<b>String within 99 characters</b>	<b>Blank</b>
<b>Description:</b> Configures the unlock PIN of the IP intercom. <b>Example:</b> features.doorphone.1.unlock_pin=8888* When tapping the <b>Open Door</b> soft key after answering the call, the IP phone will send the DTMF sequence "8888*" to the IP intercom. And if the DTMF sequence matches the code configured on IP intercom, the door will be opened. <b>Web User Interface:</b> Features->Door Phone->Unlock PIN <b>Phone User Interface:</b> None		

Parameters	Permitted Values	Default
<b>features.doorphone.X.full_screen</b> (X ranges from 1 to 99)	<b>0 or 1</b>	<b>0</b>
<p><b>Description:</b></p> <p>Enables or disables the IP phone to enter full-screen display automatically after answering the visitor's call.</p> <p><b>0</b>-Disabled  <b>1</b>-Enabled</p> <p><b>Note:</b> It works only if the IP phone supports video call feature (the value of the parameter "video.enable" is set to 0 (Disabled)).</p> <p><b>Web User Interface:</b></p> <p>Features-&gt;Door Phone-&gt;Full Screen</p> <p><b>Phone User Interface:</b></p> <p>None</p>		
<b>features.doorphone.X.send_audio</b> (X ranges from 1 to 99)	<b>0 or 1</b>	<b>1</b>
<p><b>Description:</b></p> <p>Enables or disables the IP phone to transmit your audio during a visitor's call.</p> <p><b>0</b>-Disabled  <b>1</b>-Enabled</p> <p><b>Web User Interface:</b></p> <p>Features-&gt;Door Phone-&gt;Send Audio</p> <p><b>Phone User Interface:</b></p> <p>None</p>		
<b>features.doorphone.X.send_video</b> (X ranges from 1 to 99)	<b>0 or 1</b>	<b>1</b>
<p><b>Description:</b></p> <p>Enables or disables the IP phone to transmit your video during a visitor's call.</p> <p><b>0</b>-Disabled  <b>1</b>-Enabled</p> <p><b>Note:</b> It works only if the IP phone supports video call feature (the value of the parameter "video.enable" is set to 0 (Disabled)). It is not applicable to SIP-T56A IP phones.</p> <p><b>Web User Interface:</b></p> <p>Features-&gt;Door Phone-&gt;Send Video</p>		

Parameters	Permitted Values	Default
<b>Phone User Interface:</b> None		
<b>features.doorphone.X.videopreview.enable</b> (X ranges from 1 to 99)	<b>0 or 1</b>	<b>0</b>
<b>Description:</b> Enables or disables the video preview when receiving a visitor's incoming call. <b>0</b> -Disabled <b>1</b> -Enabled If it is set to 1 (Enabled) and the value of the parameter "features.doorphone.X.autopreview.enable" is set to 0 (Disabled), users can tap the <b>Preview</b> soft key to check the visitor's video when receiving a visitor's incoming call. And the IP phone will stop playing the ringtone. <b>Note:</b> It works only if the value of the parameter "account.X.auto_answer" is set to 0 (Disabled) and the IP phone supports video call feature (the value of the parameter "video.enable" is set to 0 (Disabled)). <b>Web User Interface:</b> Features->Door Phone->Video Preview <b>Phone User Interface:</b> None		
<b>features.doorphone.X.autopreview.enable</b> (X ranges from 1 to 99)	<b>0 or 1</b>	<b>0</b>
<b>Description:</b> Enables or disables the IP phone to preview the visitor's video automatically when receiving a visitor's incoming call. <b>0</b> -Disabled <b>1</b> -Enabled If it is set to 1 (Enabled), the IP phone will display the visitor's video automatically when receiving a visitor's incoming call. And the IP phone will still play ringtone. <b>Note:</b> It works only if the value of the parameter "features.doorphone.X.videopreview.enable" is set to 1 (Enabled), the value of the parameter "account.X.auto_answer" is set to 0 (Disabled) and the IP phone supports video call feature (the value of the parameter "video.enable" is set to 0 (Disabled)). <b>Web User Interface:</b> Features->Door Phone->Auto Preview <b>Phone User Interface:</b>		

Parameters	Permitted Values	Default
None		

The following shows an example of door phone configurations in a template configuration file (e.g., y000000000058.cfg):

```
features.doorphone.1.device_model=4
features.doorphone.1.display_name=DoorPhone 1
features.doorphone.1.phone_number=1048
features.doorphone.1.unlock_pin=8888*
features.doorphone.1.full_screen=1
features.doorphone.1.send_audio=1
features.doorphone.1.send_video=1
features.doorphone.1.videopreview.enable=1
features.doorphone.1.autopreview.enable=0
```

2. Upload the configuration files.

## Configuring Door Phone Feature via Web User Interface

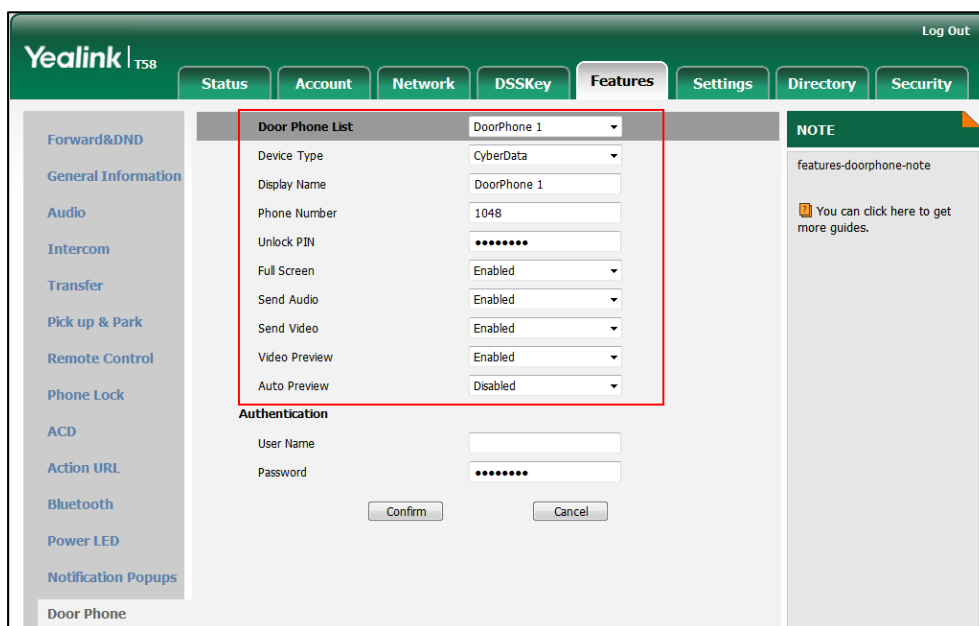
**To configure door phone feature:**

1. Click on **Features**->**Door Phone**.
2. Select the desired IP intercom from the pull-down list of **Door Phone List**.
3. Select **CyberData** from the pull-down list of **Device Type**.
4. Enter the display name of the IP intercom in the **Display Name** field.
5. Enter the phone number or IP address of the IP intercom in the **Phone Number** field.

If you leave it blank or enter the wrong number, the IP phone will take the visitor's incoming call as a normal call.

6. Enter the unlock PIN in the **Unlock PIN** field.  
It should match the code configured on IP intercom.
7. Select the desired value from the pull-down list of **Full Screen**.
8. Select the desired value from the pull-down list of **Send Audio**.
9. Select the desired value from the pull-down list of **Send Video**.
10. Select the desired value from the pull-down list of **Video Preview**.

11. Select the desired value from the pull-down list of **Auto Preview**.



12. Click **Confirm** to accept the change.

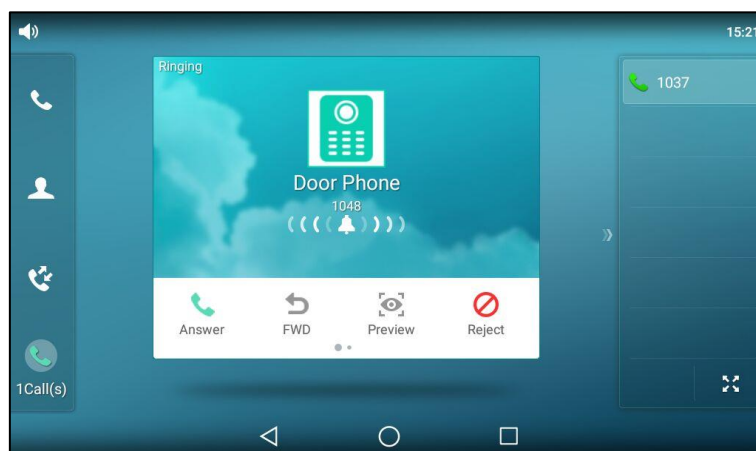
## Using Door Phone Feature

### Opening the Door

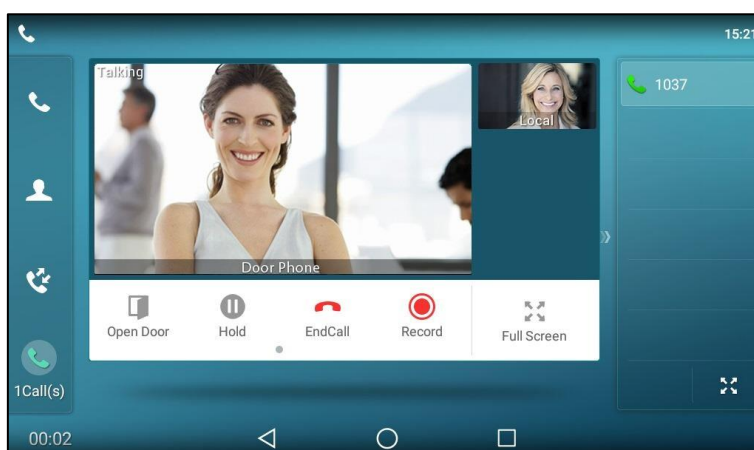
You can use the **Open Door** soft key to open the door.

**To open the door:**

When receiving a visitor's call, the touch screen will display as below:



1. Tap the **Answer** soft key.



2. Tap the **Open Door** soft key.

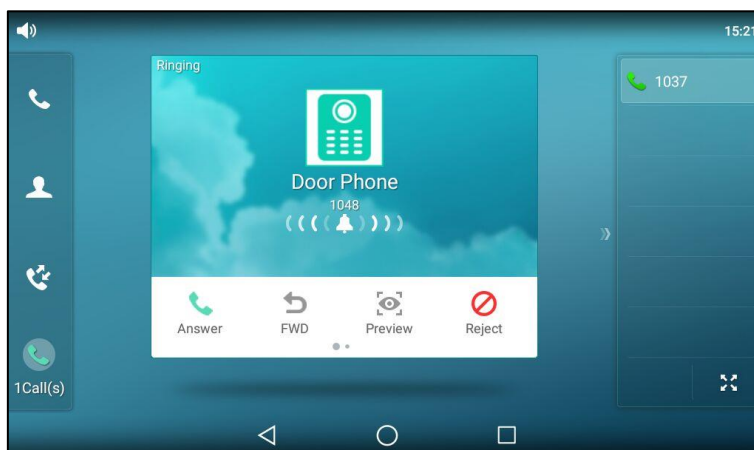
The door is opened.

## Previewing the Visitor's Video

Preview feature lets you see who is at the door before picking up the call.

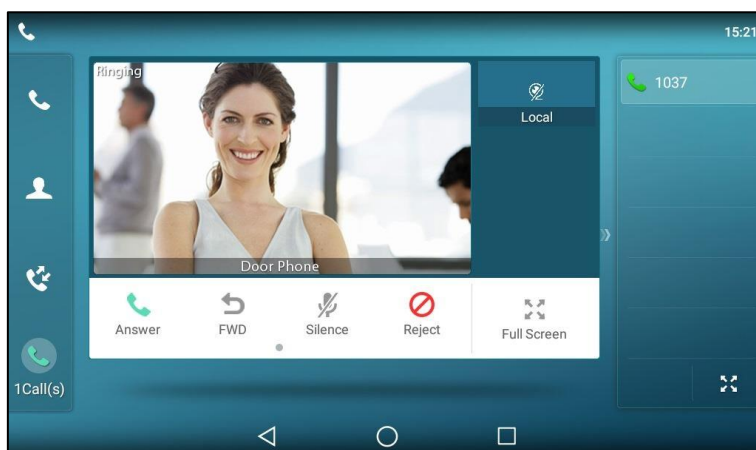
**To preview the visitor's video:**

When receiving a visitor's call, the touch screen will display as below:





1. Tap the **Preview** soft key.



The IP phone stops playing ring tone, and the call is still not answered.

## Customer Feedback

We are striving to improve our documentation quality and we appreciate your feedback. Email your opinions and comments to [DocsFeedback@yealink.com](mailto:DocsFeedback@yealink.com).