



Vfone

Welcome to Vfone

Advanced VoIP/Cloud PBX Solution

Vfone APP User Manual

About This Manual

Thank you for choosing Cygnus Vfone APP. This manual is intended for end users, who need to use and configure the Vfone App. This manual provides an introduction of all functions and features of the product. It is suitable for Android 1.0.0.11 version. Please visit Cygnus forum or consult technical support for any new information or latest firmware.

Note: Please refer to universal abbreviation form in the end of manual when meet any abbreviation letter.

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1. Product Overview

1.1. Product Description

Vfone is a smart App, based on SIP standard. It can be directly connected to an Internet Telephony Service Provider or to an IP PBX. Often to be used with Cygnus intercom series.

Note: Vfone can support both Android and IOS system. Please free download from Google Play or App Store.

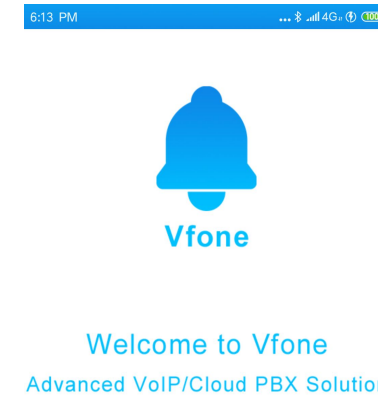


Figure 1.1-1 Product description

2. Daily Use

2.1. Account

2.1.1. Register an Account

While users first time open Vfone app, users need fill account information to register a SIP account.

Press **More** to set detail information. Then click **Submit** to save the configuration and enter the Vfone.

User Name:The user name of the registered SIP account.

Password:The Password of the registered SIP account.

Server URL:The IP address of SIP Server.

Server Port:The Server Port of SIP Server.

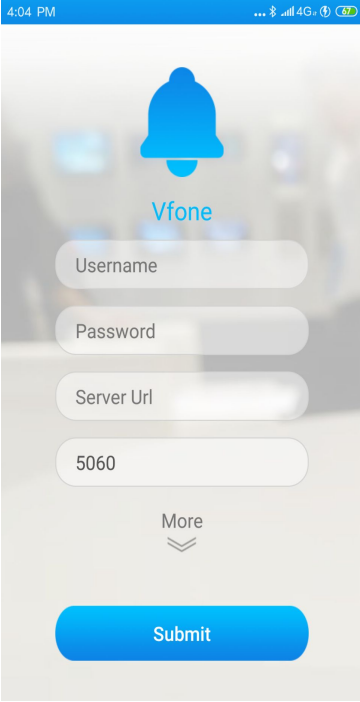


Figure 2.1.1-1 Register an account

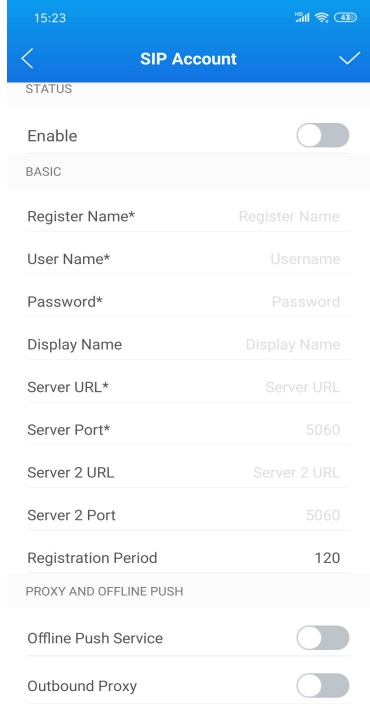


Figure 2.1.1-2 Register an account

2.2. Making a Call

2.2.1. Calling from Keypad

Press the right-down  icon to expand keypad, input the IP or SIP number, then press  button to call out.

2.2.2. Calling from Call log

In the dialer page, there are three types of call log (All log, missed log and outgoing log). Users can press the contact on the call log that users want to call out.

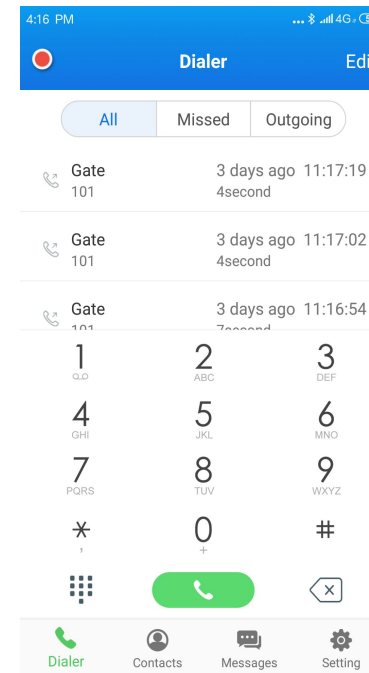


Figure 2.2.1-1 Call from keypad

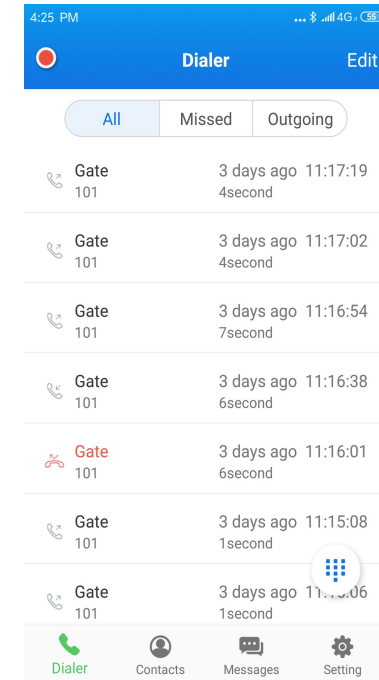


Figure 2.2.2-1 Calling from call log

2.2.3. Calling from Contact

Go to the Contact page and choose a contact that users want to call out. Press the  button to make a call out.

2.3. Receiving a Call

2.3.1. Receive an Incoming Call

Vfone supports to preview the caller when it receives an incoming call from door phone.

Tap **Receive** to pick up the incoming call.

Tap **Cancel** to reject the incoming call.

 : Tap it to eliminate the voice on Vfone's side.

 : Tap it to adjust the output volume.

 : Tap it to see the full screen of the Vfone.

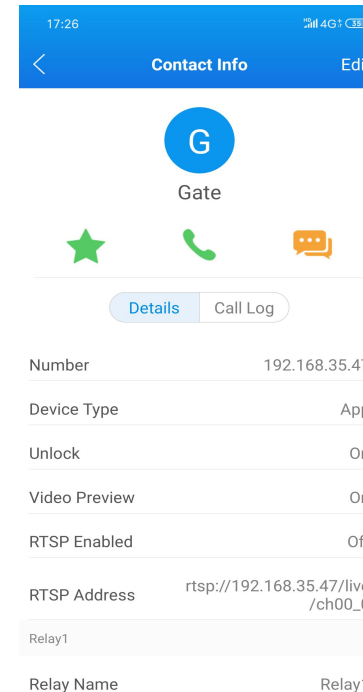


Figure 2.2.3-1 Calling from contact

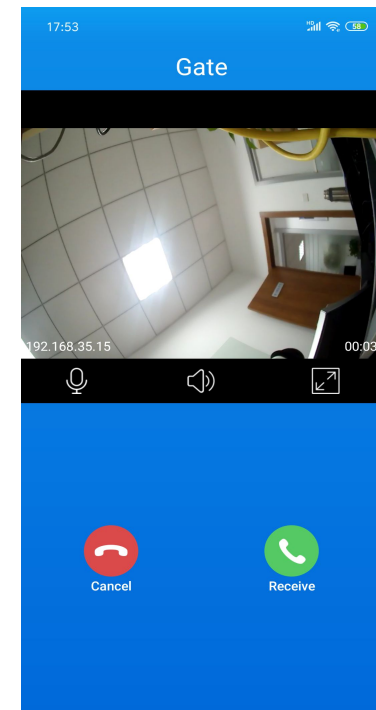


Figure 2.3.1-1 Receiving an incoming call

2.3.2. During the Session

Tap **Cancel** to hang up the current call.

Tap **Unlock** to open the corresponding door (if the call is from outdoor unit).

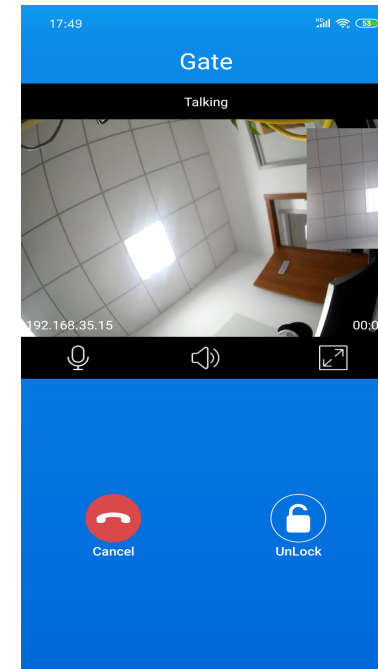


Figure 2.3.2-1 During the session

2.4. Call Log

On the dialer page, users are able to view all / missed / outgoing calls.

2.4.1. Edit the Call Log

Press right-up **Edit** to enter the edit interface.

1) If you want to delete one call record, steps as below:

- Select the call log you want to delete;
- Press **Delete**;
- Pop up a window, press **OK** to confirm the deletion.

2) If you want to delete all call logs, steps as below:

- Press **Select All** ;
- Press **Delete**.
- Pop-up a window, press **OK** to confirm the deletion.

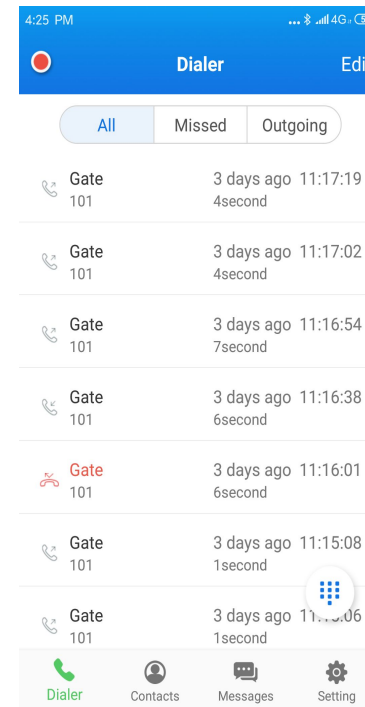


Figure 2.4.1-1 Edit the call log

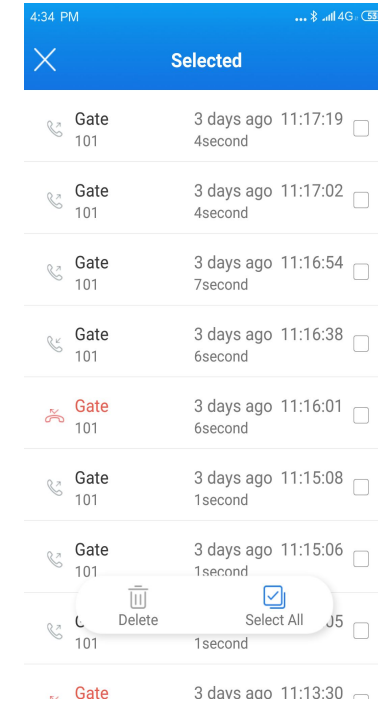


Figure 2.4.1-2 Edit the call log

2.5. Contact Setting

Press **Contacts** to enter the contacts interface.

- Click  or  icon to change the layout of the contact interface. There are two layouts for users to choose.
- Click  icon to make a favorite contact of the contact list.

2.5.1. Add a New Contact

Click **Add** to enter the interface to add a new contact.

Name:The name of this device.

SIP Number: The SIP number or IP address of the devices.

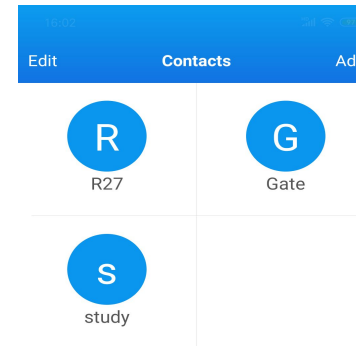


Figure 2.5-1 Contact setting

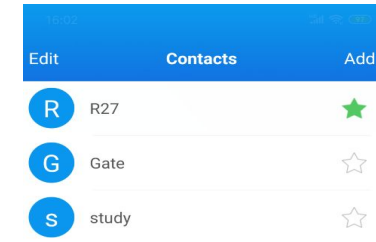


Figure 2.5-2 Contact setting



: Change the contacts' profile picture. There are four default pictures for users to choose. Male, female, door unit and indoor monitor. Users can also choose local pictures or take a photo.

Device Type: Choose the corresponding type according to the contact's device. There are five types for users.

Video Preview: If enabled, Vfone can preview before the call.

RTSP Enabled: If enables, users can get the video preview and monitor the video from door unit and stair phone.

Note: The main difference between the video preview and RTSP preview is their video stream is different. The video preview get the video from the SIP video steams but the RTSP preview get the video from RTSP stream. The video preview can be used when the other side cannot support RTSP.

RTSP Address: Type in the RTSP URL of door phone, like **rtsp://Door Phone's IP/live/ch00_0**.

Unlock: If enables, there will be an Unlock icon in the talking interface when the device type is door unit or stair phone.

Figure 2.5.1-1 Add a new contact

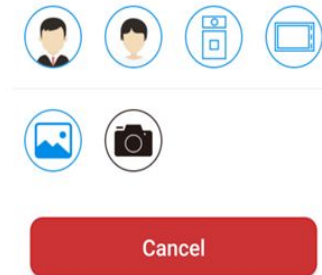


Figure 2.5.1-2 Add a new contact

Figure 2.5.1-3 Add a new contact

Relay Name: To set a name for the relay.

Unlock Method: It can support DTMF and HTTP commands.

When choose the HTTP, then the Vfone can unlock the devices in the monitor interface, either.

Note: The HTTP control feature should be enabled on the devices first. For example, the configuration path of Akuvox door phone is **web - Intercom - Relay - Open Relay via HTTP**. The unlock HTTP command format is:

`http://IP_address/fcgi/do?action=OpenDoor&UserName=&Password=&DoorNum=1`.

DTMF Code: To setup corresponding DTMF code of DTMF code type.

More Relay: Click **More Relay** to add a new option to control the relay. The Vfone can support 3 relays at most.

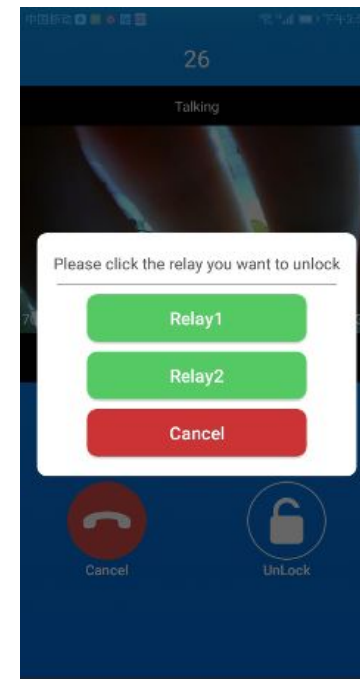


Figure 2.5.1-4 Add a new contact

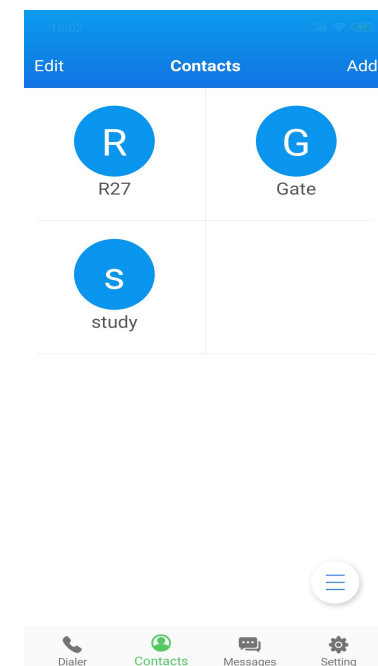


Figure 2.5.2-1 Modify a contact

2.5.2. Modify a Contact

- Select the contact need to modify in the contact list.
- Click **Edit**.
- Enter into contact edit page, edit the contact information.

2.5.3. Delete a Contact

In the contact interface, press **Edit** to enter the edit interface.

1) If you want to delete one contact, steps as below:

- Select the call log you want to delete;
- Press **Delete**;
- Pop-up a window, press **OK** to confirm the deletion.

2) If you want to delete all contacts, steps as below:

- Press **Select All** ;
- Press **Delete**.
- Pop-up a window, press **OK** to confirm the deletion.

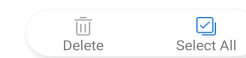
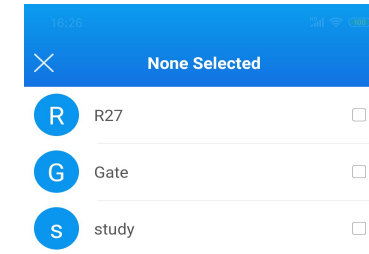


Figure 2.5.3-1 Delete a contact

2.6. Message

2.6.1. Create a Message

2.6.1.1. Create a Message on the Contact Interface

- Choose a contact and enter its contact info interface.
- Click  icon and enter the message interface,
- Input the message content.
- Click  icon to send the message out.

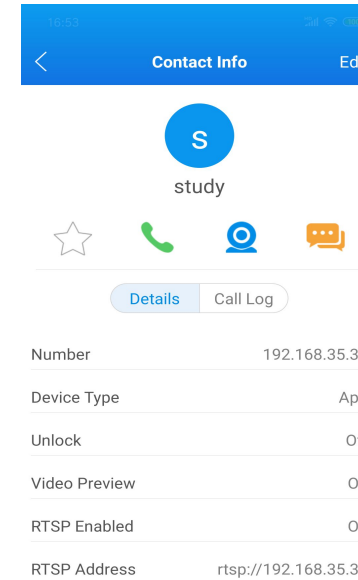


Figure 2.6.1-1 Create a message



Figure 2.6.1-2 Create a message

- Click **Messages** icon at the button to enter the messages interface.
- Click **Add**.

- Enter the destination number manually or select the device quickly from the below list.
- Input the message content.
- Click  icon to send the message out.

2.6.2. Delete a Message

In the **Messages** interface, press **Edit** to enter the edit interface.

1) If you want to delete one message, steps as below:

- Select the message you want to delete;
- Press **Delete**;
- Pop-up a window, press **OK** to confirm the deletion.

2) If you want to delete all messages, steps as below:

- Press **Select All** ;
- Press **Delete**.
- Pop-up a window, press **OK** to confirm the deletion.

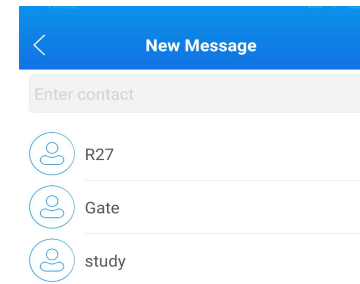


Figure 2.6.1.2- 3 Create a message

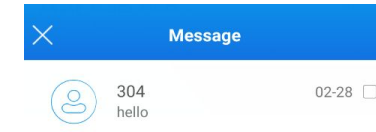
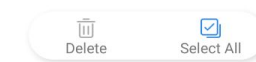
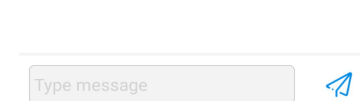


Figure 2.6.2-1 Delete a message



2.7. Monitor

Monitor feature enables users to view the real-time video from IP cameras or door phones anytime. Click  in the contact page.

Cancel: To exit the motion interface.

Intercom: Make a call out to the device.

Unlock: To unlock the door via HTTP command.

Note: The relay method should choose the HTTP command on the contact info page.

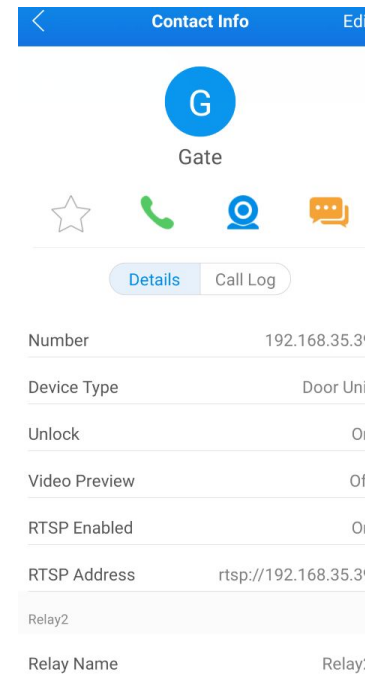


Figure 2.7-1 Monitor

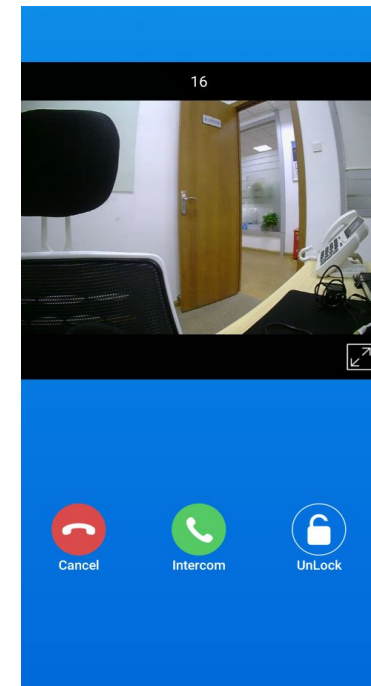


Figure 2.7-2 Monitor

3. Basic Features

3.1. SIP Account Setting

After login, if users need change SIP account information.

Go to **Settings - SIP ACCOUNT**.

3.1.1. Status

Enable it to active the SIP account.

3.1.2. Basic

Register Name: The register name of SIP account.

User Name:The user name of the registered SIP account.

Password:The Password of the registered SIP account.

Display Name:The display name of registered SIP account.

Server URL:The IP address of SIP Server.

15:23

SIP Account

STATUS

Enable

BASIC

Register Name* Register Name

User Name* Username

Password* Password

Display Name Display Name

Server URL* Server URL

Server Port* 5060

Server 2 URL Server 2 URL

Server 2 Port 5060

Registration Period 120

PROXY AND OFFLINE PUSH

Offline Push Service

Outbound Proxy

Figure 3.1.-1 SIP account setting

Server Port:The Server Port of SIP Server.

Server2 URL:The IP address of backup SIP Server.

Server2 Port: The Server Port of backup SIP Server.

Registration Period:The period time to register SIP Server.

3.1.3. Proxy and Offline Push

Offline Push Service: Enable it then the mobile phone will still receive the incoming call even the Vfone run on the background or be killed.

Outbound Proxy: Enable it to configure the proxy server to receive all initiating request messages and route them to the designated SIP server.

Proxy Server URL: To configure the URL of the proxy server.

Proxy Server Port: To configure the proxy server port.

3.1.4. Codec Setting

Audio Codecs: To configure the disabled codecs and enabled codecs by pressing the corresponding buttons. Vfone supports 4 types audio codec: PCMU, PCMA, G729, G722. Users can adjust the codec order and change payload value. PCMU by default.

Video Codecs: To configure the disabled codecs and enabled codecs by pressing the corresponding buttons. Vfone supports H264.

Codec Resolution: To adjust the resolutions for different video codecs.

Codec Bitrate: To adjust the bitrate for different video codecs.

Codec Payload: To adjust the codec payload for video codec.

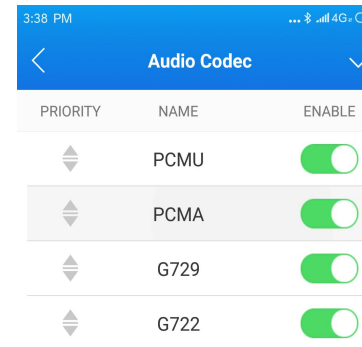


Figure 3.1.4-1 Codec setting

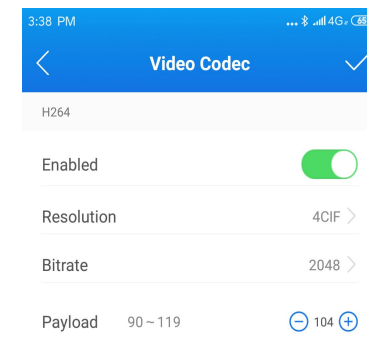


Figure3.1.4-2 Codec setting

3.2. Preference Setting

3.2.1. Audio

Users can set audio parameters.

Echo Cancellation: Enable to optimize audio, cancel echo.

CNG: Only work when VAD is enabled, enable CNG function to judge whether still in a session while other side have no response.

VAD: Enable to detect and cancel long time Silent.

AUTO GAIN CONTROL: AGC enable to set AGC Target volume, including receiving side and sending the maximum volume can set to 20dB.

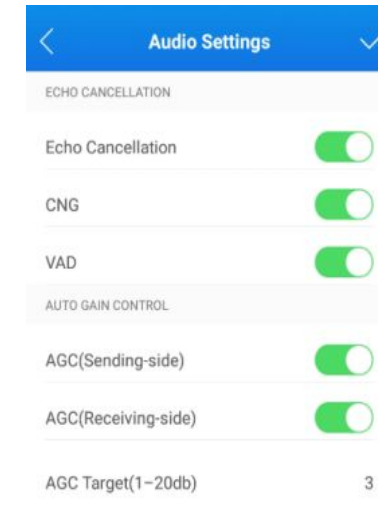


Figure 3.2.1-1 Audio

3.2.2. Video

Users can set video parameters.

3.2.2.1. General Setting

IP Direct Video Preview: Enable to display preview pictures when an IP call comes.

IP Direct Video Resolution: Choose the resolution of preview pictures when an IP call come, totally 6 options, the maximum is 720P, 4CIF by default.

3.2.2.2. RTSP

Catching 100-5000ms: Increasing delay time to make RTSP stream more smoothly when network environment is not stable enough. For example, set the parameters to 5000ms, the stream will delay 5 seconds.

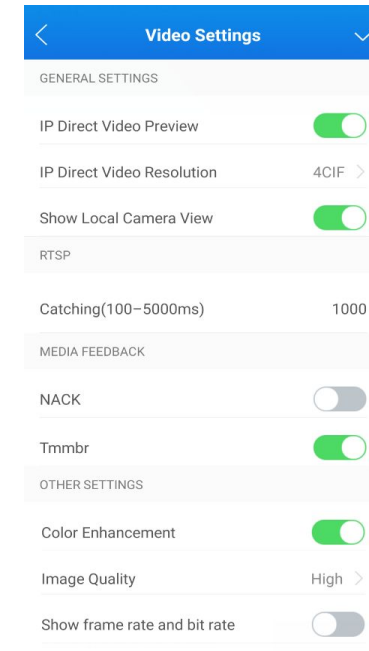


Figure 3.2.2-1 Video

3.2.2.3. Media Feedback

NACK(Negative Acknowledgement): If system detect package loss at receiving side, NACK function will help to notify resend the package.

Tmmbr(Temporal Max Media Bitrate Request): Enable to help the sending side control Bitrate.

Color Enhancement: Enable to make display color more bright.

RTST Stream Quality: Three options Low, Middle, Higher. The higher you choose, the clearer video during a video call.

Show frame rate and bit rate: Enable it to show current frame rate and bit rate at left-upper corner.

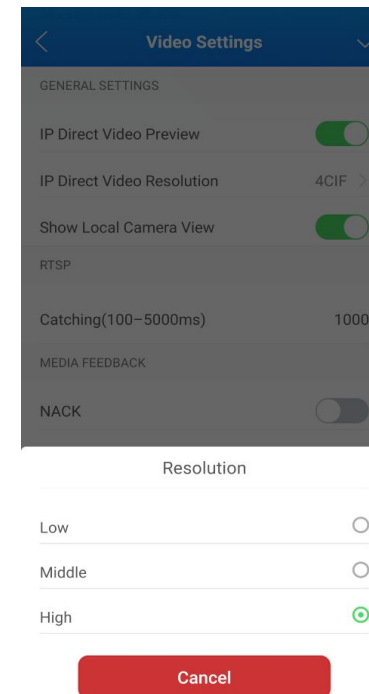


Figure 3.2.2.3-1 Media feedback

3.2.3. Network

Users can set the transport type and NAT in the network interface.

3.2.3.1. Transport Type

Transport Type: There are UDP and TCP two types for users to choose.

- **UDP:** UDP is an unreliable but very efficient transport layer protocol.
- **TCP:** Reliable but less-efficient transport layer protocol.

According the network environment to choose corresponding type.

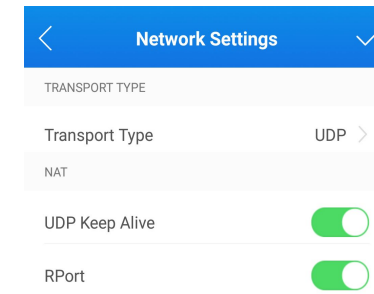


Figure 3.2.3-1 Network

3.2.3.2. NAT

UDP Keep Alive: To send UDP keep alive message periodically to router to keep NAT port alive if enabled.

RPort (Remote Port): To add remote port in to outgoing SIP message for designated account if enabled.

3.2.4. Advanced

Auto Rotation: While users' phone/tablet already enabled auto rotation function. Then enabled this function, all the sub-pages will be able to turn to landscape mode.

Notes: Only the Android Vfone app can support it now.

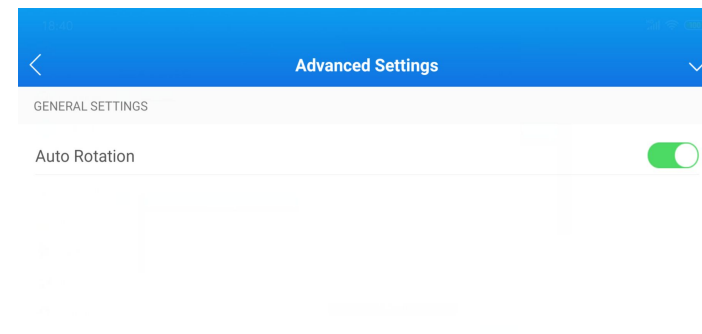


Figure 3.2.4-1 Advanced

3.2.5. Log

Log function provides a professional method for administrator to debug .

3.2.5.1. Log Level

LOG LEVEL: To adjust the system log level, which ranges from 0 to 7 and it is 3 by default. The higher level means the more specific system log is saved to a temporary file.

3.2.5.2. Sync Setting with the cloud

To sync log to the server.

Log Server: To fill the IP address of PC.

Log Port: The default value is 106.

Note: Phone and Computer should connect to same LAN, then open log tool on PC (for example, the Wireshark).

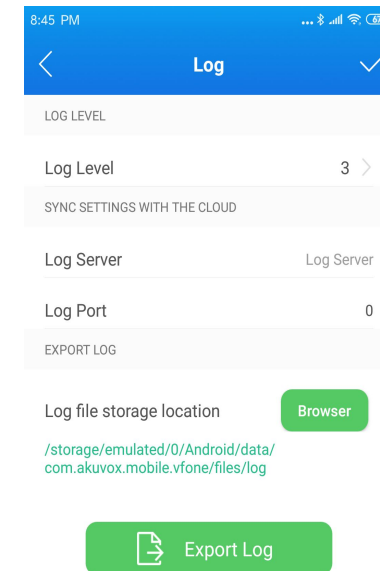


Figure 3.2.5-1 Log

3.2.5.3. Export Log

Export log to your phone.

Log file storage location: Press **Browser** to choose the storage location, then press **Export** Log to that location.

3.2.6. About

This interface shows the logo and version information.

New Version: If it is not the latest version, here will notify this is not the latest version with red character, click to update to new version.

When the version is latest, then will display “This is the latest version”.

Connect with us: Click it to show technical support E-mail address of Cygnus.

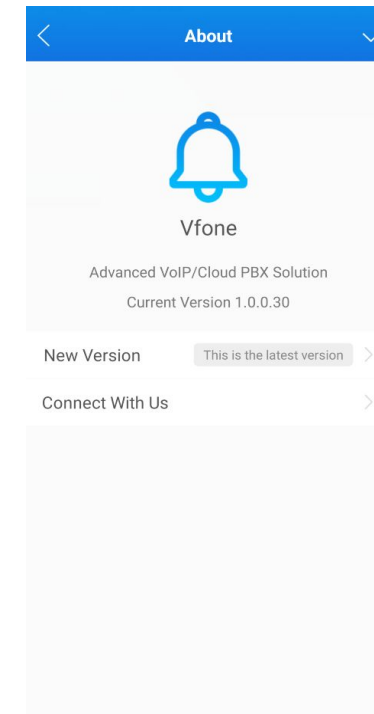


Figure 3.2.6-1 About

Abbreviations

ACS: Auto Configuration Server

Auto: Automatically

AEC: Configurable Acoustic and Line Echo Cancelers

ACD: Automatic Call Distribution

Autop: Automatical Provisioning

AES: Advanced Encryption Standard

BLF: Busy Lamp Field

COM: Common

CPE: Customer Premise Equipment

CWMP: CPE WAN Management Protocol

DTMF: Dual Tone Multi-Frequency

DHCP: Dynamic Host Configuration Protocol

DNS: Domain Name System

DND: Do Not Disturb

DNS-SRV: Service record in the Domain Name System

FTP: File Transfer Protocol

GND: Ground

HTTP: Hypertext Transfer Protocol

HTTPS: Hypertext Transfer Protocol Secure

IP: Internet Protocol

ID: Identification

IR: Infrared

LCD: Liquid Crystal Display

LED: Light Emitting Diode

MAX: Maximum

POE: Power Over Ethernet

PCMA: Pulse Code Modulation A-Law

PCMU: Pulse Code Modulation μ -Law

PCAP: Packet Capture

PNP: Plug and Play

RFID: Radio Frequency Identification

RTP: Real-time Transport Protocol

RTSP: Real Time Streaming Protocol

MPEG: Moving Picture Experts Group

MWI: Message Waiting Indicator

NO: Normal Opened

NC: Normal Connected

NTP: Network Time Protocol

NAT: Network Address Translation

NVR: Network Video Recorder

ONVIF: Open Network Video Interface Forum

SIP: Session Initiation Protocol

SNMP: Simple Network Management Protocol

STUN: Session Traversal Utilities for NAT

SNMP: Simple Mail Transfer Protocol

SDMC: SIP Devices Management Center

TR069: Technical Report069

TCP: Transmission Control Protocol

TLS: Transport Layer Security

TFTP: Trivial File Transfer Protocol

UDP: User Datagram Protocol

URL: Uniform Resource Locator

VLAN: Virtual Local Area Network

WG: Wiegand

Contact us

For more information about the product, please visit us at **www.cygnus.la** or feel free to contact us by

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We highly appreciate your feedback about our products.

