Grandstream Networks, Inc.

GVC3200 Video Conferencing System for Android™

User Guide

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GVC3200 User Guide

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CHANGE LOG

This section documents significant changes from previous versions of GVC3200 user manuals. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

FIRMWARE VERSION 1.0.1.5

- This is the initial version.

WELCOME

Thank you for purchasing Grandstream GVC3200 Android™ Video Conferencing System. This User Guide describes the basic concept and tasks necessary to use and configure your GVC3200. This document covers the topics of conference environment setups, start conference and the relevant operations like conference reservation. To learn the advanced features and configurations, please visit http://www.grandstream.com to download the latest "GVC3200 Administration Guide".

The GVC3200 is a ground-breaking solution that offers businesses of all sizes a revolutionary video conferencing system with unprecedented flexibility through the power of support for multiple popular video conferencing protocols and platforms right out of the box. The SIP-based GVC3200 supports Grandstream's robust IPVideoTalk Pro cloud platform for plug and play video conferencing while also being interoperable with any 3rd party SIP video conferencing platform – thus offering a great option to expand or implement a 3rd party platform. Additionally, since it's based on Android™ 4.4, the GVC3200 offers full access to all video conferencing apps in the Google Play Store - such as Skype®, Skype for Business®, Google Hangouts™ and more - in addition to Grandstream's industry leading SIP-based video conferencing platform. The GVC3200 sports an innovative, patent-pending embedded MCU that supports up to 9-way conferencing with local mixing between SIP and other protocols. The GVC3200 sets a new bar for enterprise class video conferencing solutions by offering industry-leading flexibility, interoperability, system compatibility, application richness and ease of use.

⚠ Caution:

Changes or modifications to this product not expressly approved by Grandstream, or operation of this product in any way other than as detailed by this User Manual, could void your manufacturer warranty.

⚠ Warning:

Please do not use a different power adaptor with the GVC3200 as it may cause damage to the products and void the manufacturer warranty.

This document is subject to change without notice. The latest electronic version of this user manual is available for download here:
http://www.grandstream.com/support

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⚠FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
For operation within 5.15 ~ 5.25GHz / 5.47 ~5.725GHz frequency range, it is restricted to indoor environment. The band from 5600-5650MHz will be disabled by the software during the manufacturing and cannot be changed by the end user. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.
Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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PRODUCT OVERVIEW

FEATURE HIGHTLIGHTS

- Runs Android™ 4.4 and offers full access to all video conferencing apps in the Google Play Store (e.g., Skype®, Skype for Business®, Google Hangouts™, etc)
- Proprietary, patent pending embedded MCU supports up to 4-way 1080p Full HD (or 5-way 720p HD, or 9-way VGA) video conferencing, collaborative sharing of computer screen at 1080p resolution, and cross-protocol local conference mixing between SIP and any other Android™ video conferencing apps (e.g., Skype®, Skype for Business®, Google Hangouts™, etc)
- Integrated dual-band Wi-Fi, integrated Bluetooth 4.0, Gigabit network port, SD interface (for local recording)
- Remote-controllable wide-angle PTZ camera with 12 x optical zoom, Bluetooth-based multi-touch remote control
- State-of-the-art H.264 High Profile video compression and FEC (Forward Error Correction) technology to ensure high resolution stunning video quality using low-to-modest bandwidth (e.g., 512kbps)
- FPGA based hardware implementation of advanced ISP (Image Signal Processing - including auto-focus, auto exposure, auto white balance, noise reduction, wide dynamic range, etc.) technology
- Interoperable with 3rd party SIP-based video conferencing solutions (such as Cisco, Polycom, and Huawei) using BFCP and TIP (pending)
- 3 x HDMI output, 1x VGA/HDMI input

Table 1 GVC3200 Technical Specifications

Specification	Description
Protocols/ Standards	SIP RFC3261, BFCP, TIP (pending), RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, LLDP-MED, LDAP (pending), TR-069, 802.1x, TLS, SRTP, TCP/IP/UDP, IPv6 (pending), FEC, FECC
Camera	1/3" 2 Megapixel CMOS 1920Hx1080V@30fps
Lens	12x optical zoom, +/-23° tilt, +/- 90° pan, 70°(W)*- 6.3° (T) field of view
Network Interface	1× RJ45 10/ 100/ 1000 Mbps port
Wi-Fi	Yes, integrated dual-band 802.11 a/b/g/n (2.4GHz & 5GHz)
Bluetooth	Yes, integrated. Bluetooth 4.0 + EDR
Video Outputs	3x HDMI up to 1080p with CEC
Video Input	1x VGA/1x HDMI 1.4 with resolution up to 1080p

Microphone/ Speaker	External MIC/Speaker, built-in MIC, cascadable external MIC/speaker (pending)
Remote Control	Bluetooth remote control with multi-touch touchpad
Auxiliary Ports	1x USB 2.0, SD, external speaker port, reset pin
Graphic Display	OLED with 128x32 resolution
Voice Codecs	G.711μ/a, G.722 (wide-band), G.726-32, iLBC (pending), Opus, G.722.1, G.722.1c (pending), in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO)
Video Codecs	H.264 BP/MP/HP, H.323 (pending), video resolution up to 1080p, frame rate up to 30fps, bitrate up to 4Mbps
People Video Resolution	1080p from 512 Kbps, 720p from 384 Kbps, 4SIF/4CIF from 128 Kbps, SIF/CIF/QSIF/QCIF/SQSIF/SQCIF from 64 Kbps
Content Video Resolution	Input: VGA, SVGA, XGA, WXGA, WXGA, SXGA, 1440×900, 720p, 1600 x 1200, 1080p (HDMI), up to 60fps; Encoding: 1280 x 720, 1920 x 1080
Output Resolution	720p, 1080p
Embedded MCU	Up to 4-way 1080p conference, 5-way 720p conference, 9-way VGA conference
Dual-Stream	BFCP, people video (up to 1080p@30fps) + content video (up to 1080p@15fps, 720p@30fps)
Audio Features	AEC, ANS, AGC, PLC, CNG/VAD
Video Features	FEC, dynamic display layout, picture-in-picture, picture-outside-picture, digital caption (pending)
Platform Bridging	Bridge SIP calls with any Android™ VoIP apps such as Skype, Skype for Business, Google Hangouts and more
Telephony Features	Hold, transfer, forward (unconditional/no-answer/busy), call park/pickup, 9-way audio/video conference, downloadable XML phone book, LDAP (pending), call waiting, call history, flexible dial plan, personalized music ringtones, server redundancy & fail-over
Sample Applications	Skype, Google Hangouts, Skype for Business, Web browser, Facebook, Twitter, YouTube, Google calendar, mobile phone data import/export via Bluetooth, etc. API/SDK available for advanced custom application development
Application Deployment	Allows Android 4.4.2 compliant applications to be deployed in the device with provisioning control
QoS	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, TLS, 128/256-bit SRTP, HTTPS, 802.1x media access control

Multi-Language	English, German, Italian, French, Spanish, Portuguese, Russian, Turkish, Polish, Chinese, Korean, Japanese, and more
Upgrade/ Provisioning	Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload, mass provisioning using TR-069 or AES encrypted XML configuration file
Power & Green Energy Efficiency	Universal power adapter included: Input 100-240VAC 50-60Hz; Output 12VDC/5A (60W)
Package Content	GVC3200 video conference system, external USB speaker/MIC, remote control, universal power supply, network cable (1.5 meters), USB extension cable (5 meters), mounting kit, 3 HDMI cables (one 1.5-meter cables, two 3-meter cables and one 5-meter cable), 2 AAA batteries, quick installation guide, brochure, GPL license
Temperature and Humidity	Operation: 0°C to 40°C, Storage: -10°C to 60°C, Humidity: 10% to 90% Non-condensing
Compliance	FCC: Part 15 (CFR 47) Class B; UL 60950 (power adapter), Part 15C, Part 15E.407, Part 2.1091 CE: EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, EN62479, RoHS, EN301893, EN62311 RCM: AS/NZS CISPR22/24; AS/NZS 60950; AS/NZS 4268

SAFETY COMPLIANCES

The GVC3200 complies with FCC/CE, RCM and various safety standards. The GVC3200 power adapter is compliant with the UL standard. Use the universal power adapter provided with the GVC3200 package only. The manufacturer's warranty does not cover damages to the phone caused by unsupported power adapters.

WARRANTY

If the GVC3200 phone is purchased from a reseller, please contact the company where the device is purchased for replacement, repair or refund. If the phone is purchased directly from Grandstream, please contact Grandstream Support for a RMA (Return Materials Authorization) number before the product is returned. Grandstream reserves the right to remedy warranty policy without prior notification.

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INSTALLING GVC3200

EQUIPMENT PACKAGE CONTENT

The GVC3200 package contains the following items:

Table 2 GVC3200 Package List

Name	Number
GVC3200 Main Case	1
External USB Speakerphone	1
Remote Control (a pair of AAA batteries)	1
12V Universal Power Adapter with power cable	1
1.5m Ethernet Cable	1
5m USB Extension Cable	1
1.5m HDMI Cable	1
2m HDMI Cable	2
5m HDMI Cable	1
Wall Mount Kit, including: Top bracket Bottom bracket Hook & Loop tape	1
Screws and bolts: 4 screws and 4 bolts to install bracket to the wall 2 screws to fix bracket 2 screws for bracket	12
Lens Cap	1
Lens Cleaning Cloth	1
Quick Installation Guide	1
GPL license	1

CONNECTING GVC3200

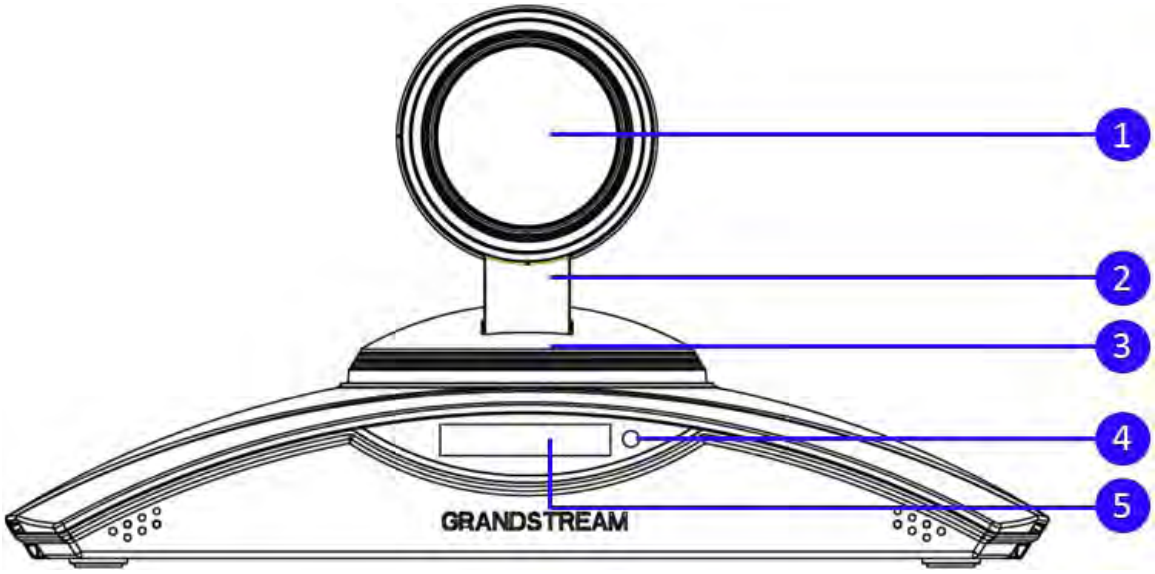

Figure 1 GVC3200 Front Panel

Table 3 GVC3200 Front Panel

NO.	Name	Explanation
①	**Camera**	1/3" 2 Megapixel CMOS 70° (W)*- 6.3° (T) field of view
②	**Vertical Rotating Stent**	+/-23° tilt
③	**Horizontal Rotating Platform**	+/-90° pan
④	**LED Indicator**	Power on / Normal Running: Green Standby: Flash red Shutdown: Red Pressing any key on the remote control: Green light flashes once
⑤	**OLED Display**	Graphic display with 128x32 resolution to show device status

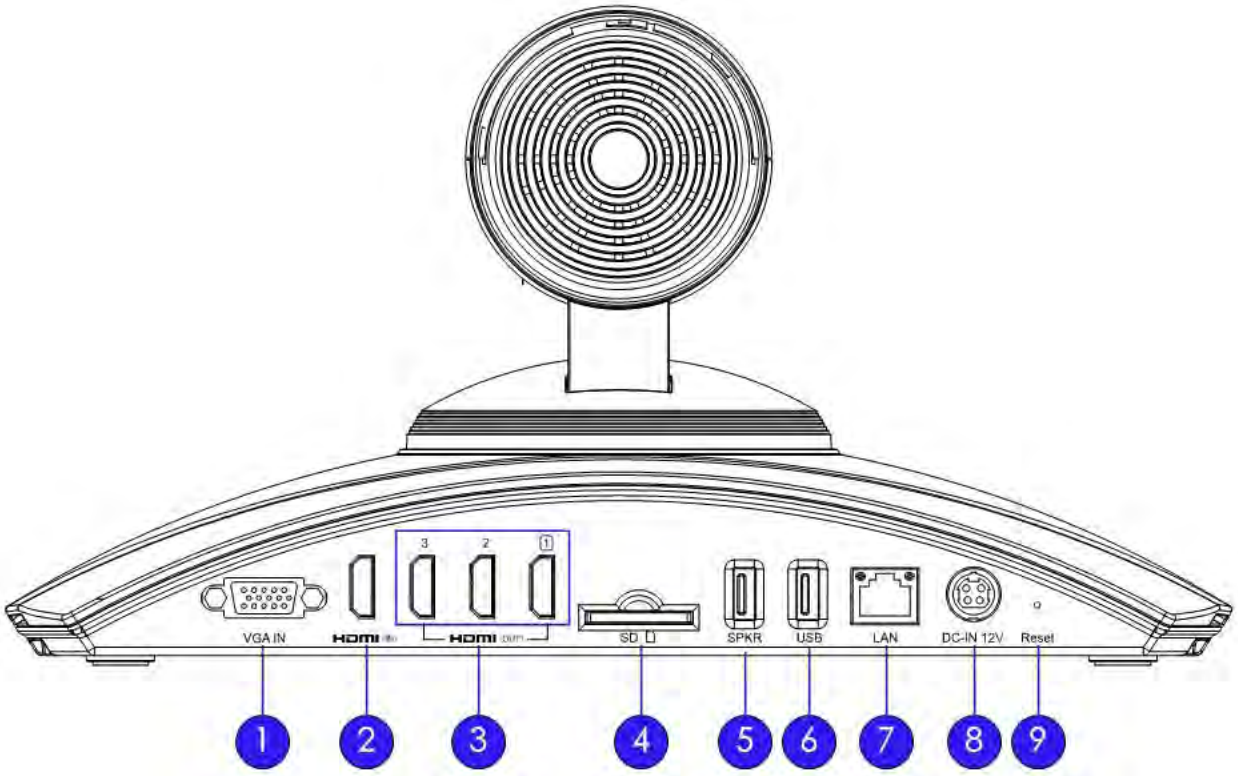

Figure 2 GVC3200 Back Panel

Table 4 GVC3200 Back Panel

NO.	Name	Explanation
①	**VGA Input Interface**	Connect to VGA input devices.
②	**HDMI Input Interface**	Connect to HDMI input devices. **Note:** The HDMI input interface has higher priority than the VGA interface when both are connected.
③	**HDMI Output Interface**	Connect to HDMI display devices. **Note:** There are 3 HDMI output ports. The interface marked with number "1" is the primary interface to output primary video. Please make sure to follow the port order when connecting HDMI port 1, 2 and 3. When there is only 1 HDMI output, it must use HDMI output 1. Connect HDMI port 2 and then HDMI port 3 if you have additional display devices. The GVC3200 will not work correctly if connecting HDMI port 2 or 3 without HDMI port 1 connected.
④	**SD Card Slot**	Insert SD card to store call recordings and other necessary files.

⑤	**External USB Speaker/MIC Jack**	Connect to external speakerphone.
⑥	**USB Interface**	Connect to USB cable or USB storage device.
⑦	**Network Interface**	Connect to LAN port.
⑧	**Power Interface**	Connect to power adapter. The arrow indicator on the power adapter should face upwards when the power adapter is plugged in.
⑨	**Factory Restore**	• When the GVC3200 is powered up, use a small pin to press the button one time to reboot. • When powering up GVC3200, long press the button for 4 to 9 seconds to update system. • When powering up GVC3200, long press the button for more than 10 seconds to restore to factory settings.

To deploy a working video conferencing system, it is recommended for the users to prepare the following equipment based on your own requirement. The following table is for reference only.

Table 5 GVC3200 Optional Equipment List

Device Name	Number	Explanation
HDMI Display Device	1 (minimum), 2 or 3	To display video conference view. Being connected to HDMI output interface 1/2/3.
VGA Input	Optional	For presentation.
HDMI Input	Optional	For presentation. If both HDMI input and VGA input are plugged in, HDMI input will has high priority, meaning VGA input will not be displayed.
USB Mouse	Optional	It can be used to help navigate and operate the GVC3200 besides remote control. For example, when viewing a web page, USB mouse can be used to control the cursor.
USB Keyboard	Optional	It can be used to help input characters when operating the GVC3200 besides remote control. For example, typing in username and password to log in Skype app installed on GVC3200.

Please connect the GVC3200 according to the following procedures:

1. Connect the primary video output device (e.g., high-definition TV) to HDMI output interface 1 on GVC3200 with HDMI cable.
2. (Optional) Connect the second and third video output devices to HDMI output interface 2 and HDMI output interface 3 on GVC3200 with HDMI cable.
3. Connect input device (e.g., a laptop or GXV3275) to the GVC3200 VGA IN/HDMI IN port with VGA/HDMI cable.
4. Connect the external speakerphone to the USB speaker interface on the GVC3200.
5. Connect to Ethernet or LAN with Ethernet cable for network access. It is recommended to use Gigabit network to assure audio and video quality of video conference.
6. Plug in the power adapter into the power supply interface. Power up the GVC3200.

Note:

For detailed instructions on installing the GVC3200 on wall mount and etc., please refer to the GVC3200 quick installation guide in www.grandstream.com.

A sample GVC3200 back panel connection is shown below.

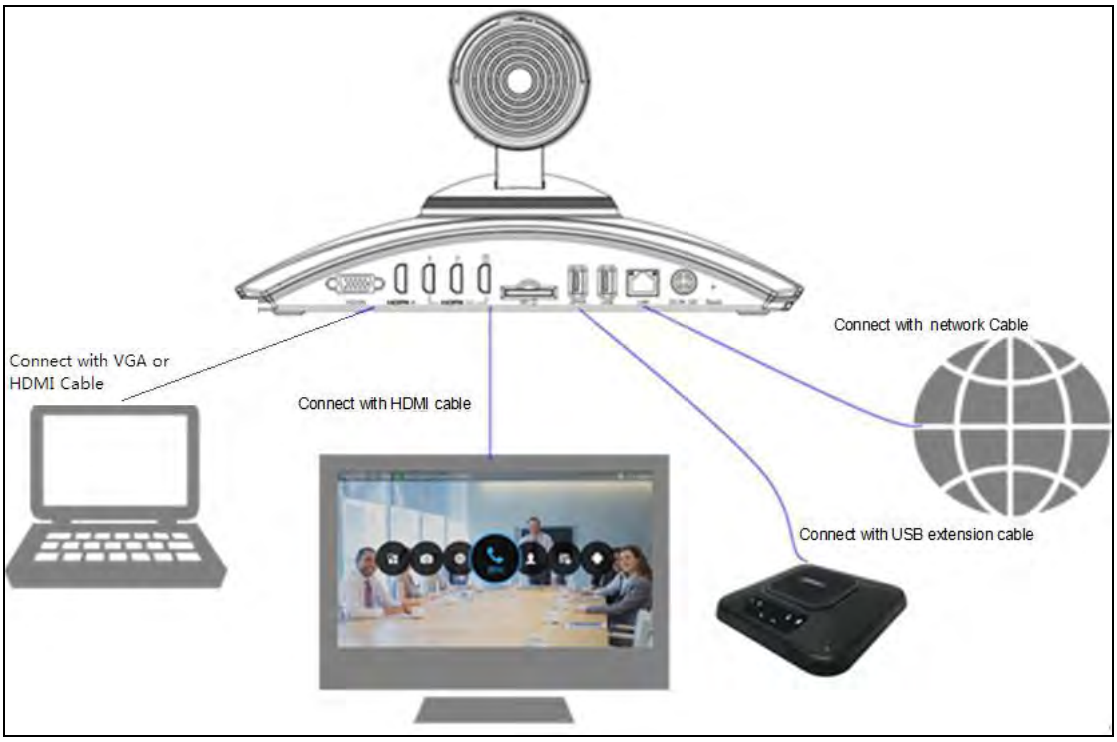

Figure 3 GVC3200 Back Panel Connection Diagram

The following figure shows multiple GVC3200s deployed with other VoIP/network devices for video conference and collaboration.

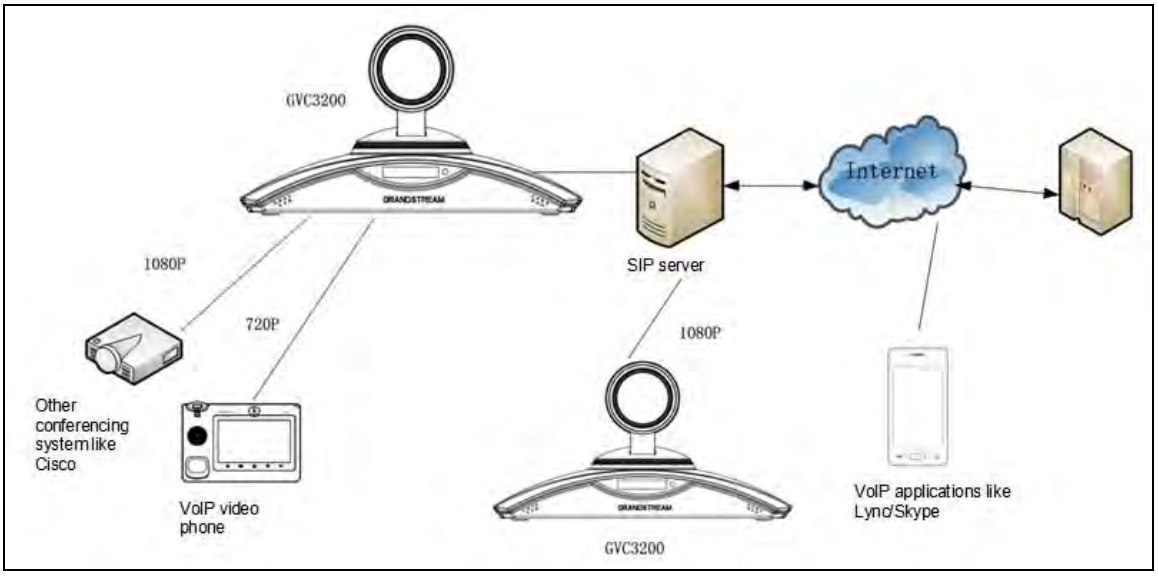

Figure 4 GVC3200 Deploy GVC3200 with Other Devices

GETTING TO KNOW GVC3200

REMOTE CONTROL

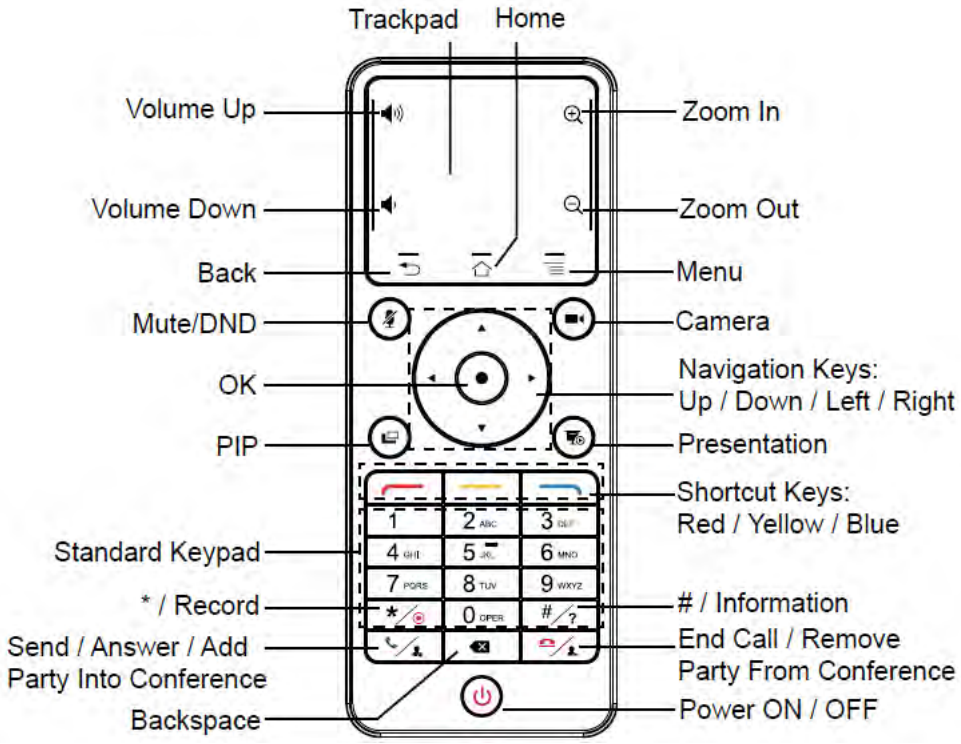

Figure 5 GVC3200 Remote Control

Table 6 GVC3200 Remote Control Keys

Icon	Name	Explanation
1, 2, 3, 4… 9	**Digital Keys**	Input number 1-9 and letters. The letter input using digital keys will not be displayed as letter but it can be used to search for contact in Call interface. For example, typing 5 (JKL), 6 (MNO), 4 (GHI), 6 (MNO) can look for John if existed in GVC3200 contacts.
	Camera	Switch to PTZ control mode during call or idle status.
	PIP	Switch screen layout in conference.
	Mute/DND	• Mute the GVC3200 in conference. • Press the MUTE key to enable/disable DND mode when the GVC3200 is in idle.

	Presentation	• Enable/disable presentation function to send presentation to all members in the conference. • Enable/disable presentation function to show presentation on displayer device which is connected to HDMI output 1 as projection when the GVC is in standby mode.
	Send/Answer/Add Party Into Conference	• Access the dial screen by default when GVC is in idle mode. • Enter phone number and press the key to dial out. • Access the invite screen to add members in a conference. • Press the key to bring out the backstage conference.
	End Call/Remove Party From Conference	• Delete members in conference. • Hang up the conference.
	Backspace	Press the key to delete input characters.
	Navigation Keys: Up/Down/Left/Right	• Adjust cursor movement. • Control PTZ movement in camera mode.
	OK	• Confirm operations. • Bring up the soft keypad when the cursor is in an input box.
	Power On/Off	LCD prompt shows the following three options upon pressing this key: • Put the GXV3200 into sleep mode. • Power Off. • Reboot.
	***/Record**	• Input * in input field. • Used as "." when dialing direct IP call. e.g., 192.168.40.5. • Start/stop recording in camera control mode. • Start/stop recording in a call.

# / ?	**#/Details**	• Input "#" in input field. • Used as ":" when dialing direct IP Cal e.g., 192.168.40.5:5060. • Input "#" on dialing screen to use it as REDIAL key. • Display call details on call screen during a call.
	Shortcut Key: Red	Press each shortcut key for designated functions on different screen context.
	Shortcut Key: Yellow	
	Shortcut Key: Blue	
	Home	Press the key to go back to home screen.
	Menu	Press the key to view more options.
	Back	Press the key to go back to the previous screen or exit the current screen.
	Volume Down	Turn down the device volume.
	Volume Up	Turn up the device volume.
	Zoom In	Zoom in screen or adjust close focus.
	Zoom Out	Zoom out screen or adjust distant focus.
Trackpad		• Slide on the trackpad to move the mouse cursor. • Press the trackpad to confirm operations. • Using two fingers to press on the trackpad and slide up/down for page up/down.

USING THE REMOTE CONTROL

The remote control is connected to the GVC3200 via Bluetooth and it's already pre-paired when the user receives the GVC3200 package. Before using the remote control, please make sure:

1. A pair of AAA batteries is correctly installed on the back of the remote control.
2. The remote control needs to be placed within the Bluetooth effective range, i.e., 10m from the GVC3200.

After powering up the GVC3200, Pressing the "OK" key on the remote control will initiate connection and

the remote control can be used right away.

If the remote control fails to pair and connect to the GVC3200, please follow the steps below to troubleshoot:

- Check the battery polarity when placed into the battery case. Make sure the batteries are placed in the correct direction in the remote control.
- Check the battery power.

If the remote control still can't function beyond the above situations, please change a remote control and try again, or contact the device provider.

USING MOUSE & KEYBOARD

When the USB mouse is plugged into the GVC3200, users could make the following operations with the mouse.

1. Single click the left key of the USB mouse to perform the following operations:
   - Access menu
   - Check in the checkbox or enable/disable an option
   - Bring up the drop-down list when clicking on a combo box.
   - Switch input methods in the input box, tap on the corresponding buttons on the soft keyboard to input characters.
2. Double left click on the soft keyboard can switch to "Always use upper case" in English input method.
3. Single click the right key of the USB mouse to exit the current menu in the LCD display device. It will go back to the previous menu without saving the configurations.

OLED SCREEN

Table 7 GVC3200 OLED Screen Status Descriptions

OLED Screen Status	Descriptions
Booting	Display "BOOTING..." when the GVC3200 boots up.
IP	Display GVC3200 IP address. For example, IP: 192.168.40.5.
Call Status	Display "Ringing", "Calling", "Talking", "Call Waiting", "Missed Call", "New Voicemail" and etc.

Upgrade Status	• Display "New Version" when a new firmware version is detected. • Display "Upgrading" in the process of upgrading. • Display failure reason when upgrade fails. For example, "Incompatible Hardware", "Insufficient Space", "Same Version", etc.
Sleep Mode	Display "Standby".
Abnormal Status	Display abnormal status information. The hexadecimal error code will be displayed next to the abnormal status.

USING THE LED INDICATOR

The GVC3200 LED indicator is located next to the OLED. It can be used to notify the users with current status of the device. Please refer to the status description below.

Table 8 GVC3200 LED Indicator Status Descriptions

LED Indicator Status	Descriptions
Solid Green	Booting or the device is already booted up
Flash Red	Standby (Sleep Mode)
Solid Red	Shut down but powered on (power adapter is connected)
Green Flashing once	Key pressing on the remote control
OFF	Power off

STATUS ICONS

The GVC3200 status icons are displayed on the right side of top status bar on the GVC3200 LCD display device.

The following table lists the main status icons used on GVC3200.

Table 9 GVC3200 Status Icons Descriptions

Icon	Descriptions	Icon	Descriptions	Icon	Descriptions
	Missed Call		Ongoing call		Auto answer is enabled
	Ethernet is connected		Ethernet is disconnected		Trying to connect to the Ethernet
	PPPoE is connected		PPPoE connection is failed		PPPoE is disconnected
	VLAN is successfully configured		VLAN is being configured		Unread voicemail
	VPN is connected		VPN connection is failed		Using third party applications for mixing calls
	Bluetooth is connected		DND mode is enabled		Remote control Low battery
	Remote control is connected and paired		Remote control is paired but not connected		Remote control is not connected and paired
	SD Card is inserted		USB flash drive is inserted		Speaker is being used
	Call recording storage is full		Contacts storage is full		SD card storage is full
	Wi-Fi is connected.		Wi-Fi is disconnected		Volume is turned to silent
	Call forward is set up	Wi-Fi signal strength			Unknown Wi-Fi

USING THE ONSCREEN KEYBOARD

ENGLISH KEYBOARD

This is the default keyboard on the GVC3200. The GVC3200 English keyboard supports multiple languages input methods. Users could tap on to switch among different languages. See figure below.

Figure 6 GVC3200 Soft Keyboard - English Input Method

Tap on to switch CapsLock.

Figure 7 GVC3200 English Input Method - Capslock

NUMBERS AND SYMBOLS

To input number and symbols, tap on on the default keyboard to switch to numbers/symbols.

Tap on for more numbers/symbols.

Figure 8 GVC3200 Soft Keyboard - Symbols and Numbers

Figure 9 GVC3200 Soft Keyboard - More Symbols and Numbers

HOME SCREEN

GVC3200 Home screen displays the icons for users to easily access applications, camera, schedule, call, contacts, settings and custom applications. Press the Left/Right keys on the remote control to navigate.

If there is no activity on main screen, the icons will be hidden and the video local loopback is displayed. Press the OK button on the GVC3200 remote control to bring up the icons to display again.

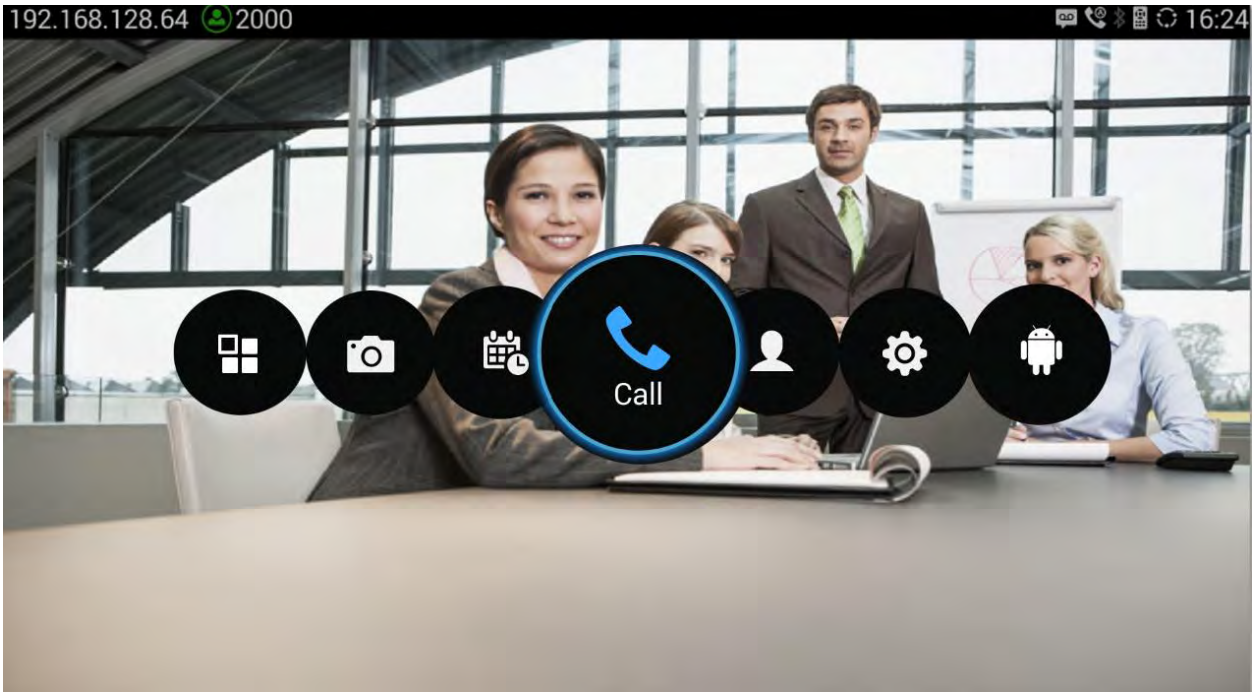

Figure 10 GVC3200 Home Screen

CONNECTING TO NETWORK AND DEVICES

The GVC3200 supports a variety of network connections (Ethernet, Wi-Fi) and device connections, including USB, SD card and Bluetooth device. For first-time users, please connect to USB mouse for configuration on device, or log in the GVC3200 web UI to use the virtual remote configuration. For more information about using web UI, please refer to the GVC3200 Administration Guide in www.grandstream.com.

ETHERNET

If the user would like to use Ethernet connection for network access, please plug the Ethernet cable to the LAN port on the back of the GVC3200. Ethernet connection is turned on as DHCP by default.

To configure Ethernet settings on GVC3200:

1. Plug the Ethernet cable into the LAN port on the back of the GVC3200.
2. Go to LCD menu->Settings->Network->Ethernet->IPv4 Settings.
3. Tap on "Address Type" to select DHCP, Static IP or PPPoE as the address type.
   - For DHCP, save the setting and the GVC3200 should be able to get IP address from the DHCP server in the network.
   - For static IP, enter IP Address, Subnet Mask, Default Gateway, DNS Server and Alternative DNS server for the GVC3200 to correctly connect to the network.
   - For PPPoE, enter PPPoE account ID and password so the GVC3200 can get IP address from the PPPoE server.

WI-FI

Wi-Fi is supported and built-in on the GVC3200. On the LCD display, go to Settings->Network-> Wi-Fi to turn on and configure Wi-Fi.

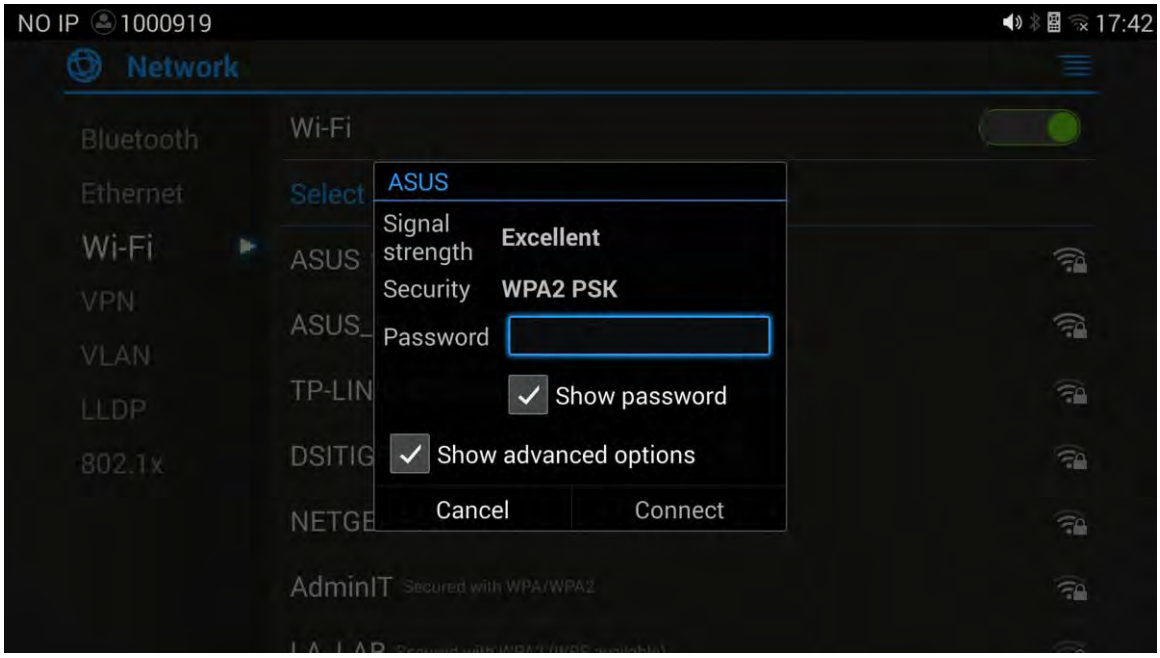

Figure 11 GVC3200 Add Wi-Fi Screen

TURNING WI-FI ON OR OFF

Once Wi-Fi is turned on, GVC3200 will automatically start the scanning within the range. A list of Wi-Fi networks will be displayed as scanning result. Tap on the SSID and enter the correct password information to connect to the selected Wi-Fi network.

Follow the steps below for static IP usage in Wi-Fi environment:

1. Tap on one Wi-Fi network in the scanned Wi-Fi list to bring up the dialog that shows signal strength, security, password and option "Show advanced options".
2. Select "Show advanced options". The dialog will show additional option "IP settings".
3. In "IP settings", select Static IP, enter IP Address, Subnet Mask, and Default Gateway for the GVC3200 to correctly connect to the network.

BLUETOOTH

On the GVC3200, the Bluetooth is on by default. Users could connect Bluetooth remote control, send or receive files to cellphone, or use Bluetooth speaker and etc on the GVC3200.

TURNING BLUETOOTH ON OR OFF

1. On the LCD display device, go to Settings->Network->Bluetooth.
2. Tap on the green switch next to the GVC3200 device on the top row to turn on/off Bluetooth. Please note the Bluetooth needs to be turned on in order to use the remote control.

PAIRING GXV3200 WITH A BLUETOOTH DEVICE

Before connecting GVC3200 with other Bluetooth device, users must pair them first. They will stay paired afterwards unless they are manually unpaired. To pair Bluetooth device:

1. On the LCD display device, go to Settings->Network->Bluetooth.
2. Press ☰ button on the remote control and select "Search for devices".
3. The GVC3200 scans and displays the IDs of all available Bluetooth devices in range. Once the Bluetooth device shows up in the result, tap on it to start pairing.
4. Confirm the passkey in the prompted message (if any). Or if passcode is required, please refer to the device's documentation or other procedures to obtain the passcode.

Note:

The external speaker provided with the GVC3200 is not pre-paired to the GVC3200. If the user would like to use external speaker via Bluetooth connection with the GVC3200, the user must pair and connect it to GVC3200 via manually before using it for audio output.

CONNECTING TO A BLUETOOTH DEVICE

After successfully paired, the device will be connected to the GVC3200 immediately. Users will see this device listed under "Paired Devices". Tap on next to the connected device. Users will see options "Rename", "Unpair" and etc.

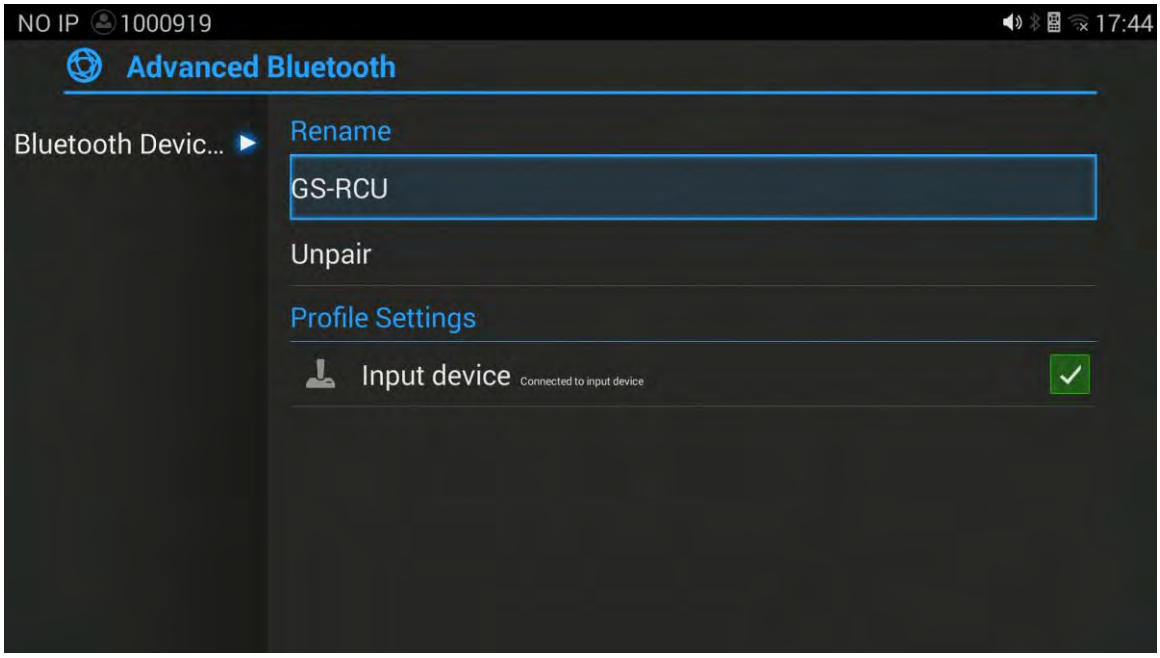

Figure 12 GVC3200 Bluetooth - Paired Device

If the connection is lost between the Bluetooth device and GVC3200, go to LCD menu->Settings->Network->Bluetooth and click on the device name under “Paired devices” again to reconnect.

USING BLUETOOTH REMOTE CONTROL

Users could use the proprietary GVC3200 Bluetooth remote control that comes with the GVC3200 packaging. The remote control should already been paired to the GVC3200 out of the box. Users just need press "OK" key on the remote control to initiate connection once the GVC3200 boots up. Once the remote control is connected to the GVC3200, users will see icon on the top status bar of the GVC3200 LCD display device.

If the user happens to reset the GVC3200, or need replace the remote control and pair it to the GVC3200 afterwards, follow the steps below:

1. Connect a USB mouse or open the virtual remote control after logging in GVC3200 web UI.
2. On the LCD display device, go to Settings->Network->Bluetooth.
3. Select and click "Search for devices".
4. On the remote control you would like to pair with the GVC3200, press "OK" and digit 5 keys at the same time for about 5 seconds.

5. The pairing and connection process will be initiated and finished a few seconds. Please do not press any keys on the remote control or switch screens during this process to avoid connection failure.

Note:

1. Please use the proprietary factory remote control that comes with the GVC3200.
2. The GVC3200 could connect to multiple remote controls, but only one remote control at a time. Factory reset might be required for your GVC3200 before pairing and connecting a remote control that belongs to another GVC3200.

TRANSFER FILES WITH BLUETOOTH

Users could transfer files, share contacts information with other Bluetooth portable devices after pairing and connection. A prompt for file transferring will be displayed on GVC3200 LCD display device when the GVC3200 receives the file transferring request. Accept the request to receive file and the file will be stored under LCD->Applications->File Manager->Internal Storage->Bluetooth folder.

USING BLUETOOTH HEADSET

Once the Bluetooth headset is connected, it will automatically using Bluetooth headset for calls.
By default, the ringing tone will be generated in Bluetooth headset when there is an incoming call. If the user would like to have the ringing tone generated in the GVC3200 internal ringer as well, please select enable "Always Ring Internal Ringer" under GVC3200 web UI->Settings->Call Features.

Figure 13 GVC3200 Always Ring Internal Ringer Screen

VPN SETTINGS

Users can add VPN using different protocols (PPTP, L2TP/IPSec PSK, L2TP/IPSec RSA, IPSec Xauth PSK, IPSeXauth RSA and IPSec Hybrid RSA). Follow the steps below to set up VPN.

1. Access GVC3200 home screen, go to Applications ->Settings ->Network->VPN;
2. Tap on "Add VPN file" to access configuration page as shown below;

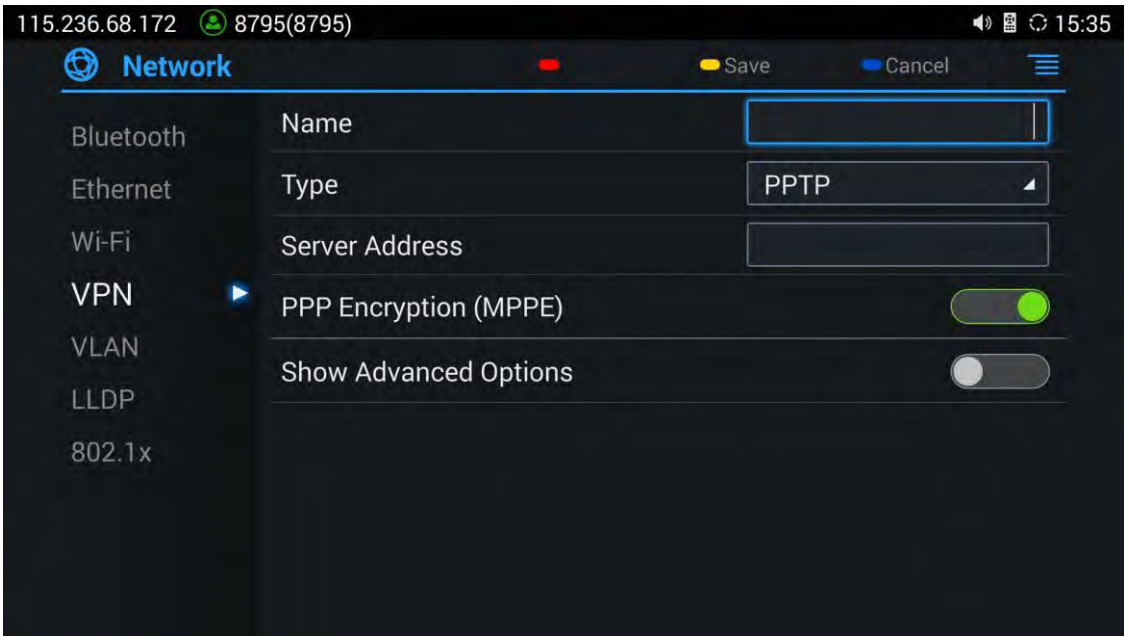

Figure 14 GVC3200 Add VPN Files Screen

3. Fill in parameters and save, go back to VPN page, you will find the new VPN file you just added;
4. Tap on the VPN file to open the validation page as shown below;

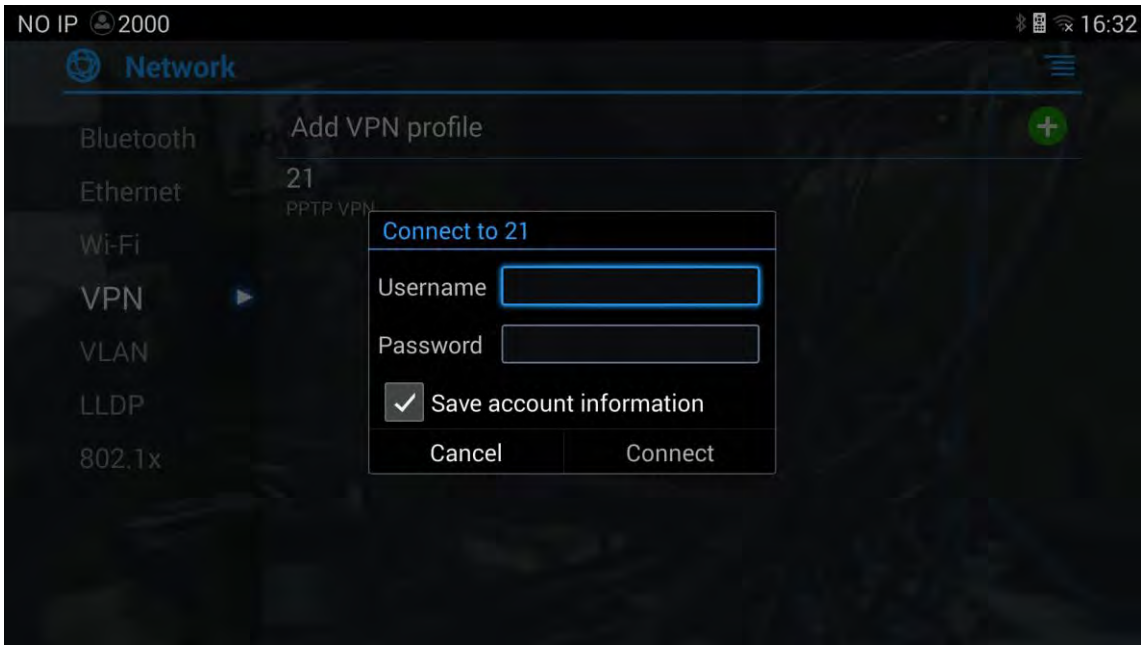

Figure 15 GVC3200 VPN Validation Screen

5. Fill in correct username and password to connect to VPN.

If the GVC3200 is connected to VPN successfully, icon

will be shown in the top status bar; if the connection is failed, a prompt box will pop up to remind users whether to connect again. If icon

displays in the top status bar, please check whether your VPN configuration is correct.

Table 10 GVC3200 VPN File Parameters

Parameters	Descriptions
Name	Fill in your company address or the server you are connecting to.
Type	Set to PPTP, L2TP/IPSec PSK, L2TP/IPSec RSA, IPSec Xauth PSK, IPSeXauth RSA or IPSec Hybrid RSA.
Server Address	Fill in the server URL or IP address.
PPP Encryption (MPPE)	Define whether to use PPP encryption.
Show Advanced Options	Check to display more options below.
DNS Search Domains	Define search domain.

DNS Server	Input DNS server address.
Forwarding Routes	Input Forwarding Routes. For example, 10.0.0.0/8.

VLAN SETTINGS

Access GVC3200 home screen, go to Applications->Settings->Network->VLAN to configure VLAN settings on the GVC3200.

Table 11 GVC3200 VLAN Configuration Parameters

Parameters	Descriptions
Layer 2 QoS 802.1q/VLAN Tag	Assigns the VLAN Tag of the Layer 2 QoS packets for LAN port. The default value is 0. **Note:** Please do not change the setting before understanding the VLAN's settings or consulting the network administrator. Otherwise, the device might not be able to get the correct IP address.
Layer 2 QoS 802.1p Priority	Assigns the priority value of the Layer 2 QoS packets. The default value is 0.

LLDP SETTINGS

Access GVC3200 home screen, go to Applications ->Settings ->Network->LLDP to configure LLDP settings on the GVC3200.

Table 12 GVC3200 LLDP Configuration Parameters

Parameters	Descriptions
LLDP	Enable or disable LLDP. The default setting is disabled.
Layer 3 QoS for SIP	This field defines the layer 3 QoS parameter for SIP packets. It is the value used for IP Precedence, Diff-Serv or MPLS. The Default value is 48.
Layer 3 QoS for Audio	This field defines the layer 3 QoS parameter for audio packets. It is the value used for IP Precedence, Diff-Serv or MPLS. The Default value is 48.

Layer 3 QoS for Video	This field defines the layer 3 QoS parameter for video packets. It is the value used for IP Precedence, Diff-Serv or MPLS. The Default value is 48;

802.1X MODE

Access GVC3200 home screen, go to Applications ->Settings ->Network->802.1X Mode. By default 802.1X is disabled. Selecting 802.1X mode to "EAP-MD5", "EAP-TLS5" or "EAP-PEAP" to turn on 802.1X. Once enabled, the user will be required to enter the identity and Password to be authenticated in the network.

Table 13 GVC3200 802.1X Mode Parameters

Parameters	Descriptions
802.1x Mode	Allows the user to enable/disable 802.1X and configure 802.1X mode. The default setting is disabled.
Identity	Enter the Identity information for the 802.1X mode.
MD5 Password	Enter the MD5 Password for the 802.1X mode.
CA Certificate	Upload the CA certificate for the 802.1X mode.
Client Certificate	Upload the CA certificate for the 802.1X mode.
Private Key	Upload the private key for the 802.1X mode.

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CAMERA

Users could set preset, configure camera parameters, start recording and make screenshots on camera screen. There are 3 ways to access camera screen:

- Click on icon on home screen.
- Press key on the remote control.
- Select on home screen to access Applications. Then click on .

The GVC3200 camera screen has the following options:

- Press recording button on the remote control to start or stop local recording.
- Press the red shortcut button on the remote control to edit preset.
- Press the yellow shortcut button on the remote control to edit image parameters such as scene, white balance, MF/AF and etc.
- Press the blue shortcut button on the remote control for screenshot.
- Press digit key on the remote control to apply a pre-configured preset.

Figure 16 GVC3200 Camera Screen

PRESET

ADD/EDIT PRESET

The users can create and save maximum of 24 camera presets, with each preset storing the camera position and focal length. Follow the steps below to add preset:

1. Access camera screen and press the red shortcut key on the remote control to access preset screen.

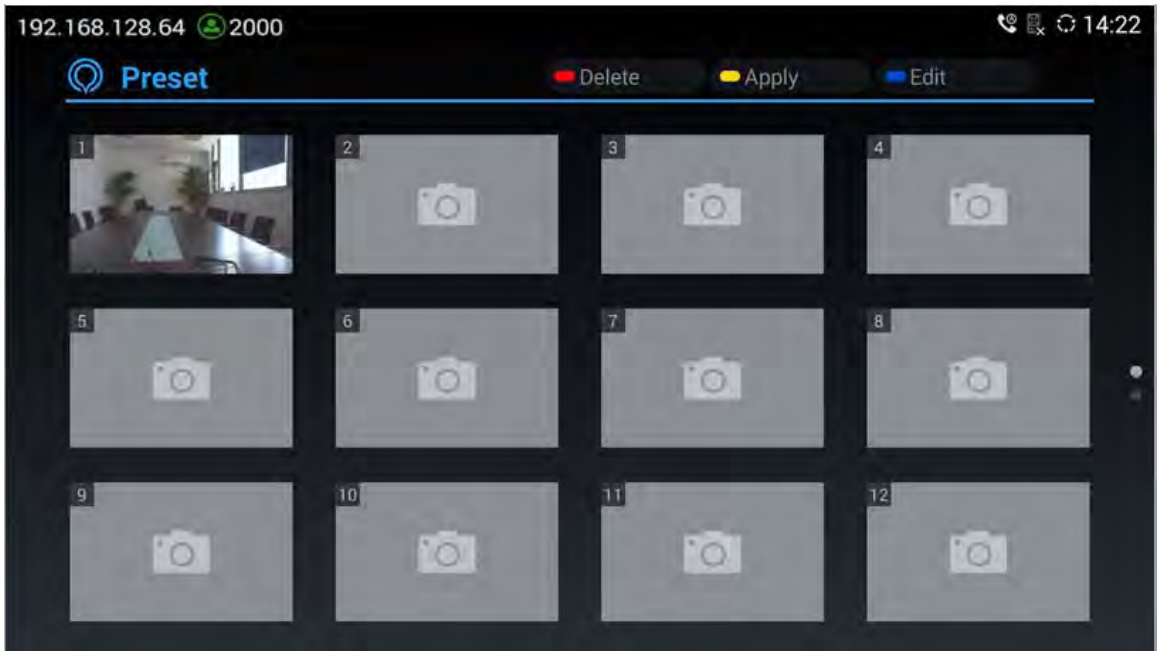

Figure 17 GVC3200 Add Preset Screen

2. Select the preset window and press the blue shortcut key on the remote control to access the editing screen.
3. Adjust camera position and zoom in/zoom out using the remote control.
4. On the remote control, press the "OK" key to save the preset, or press Back key ⮌ to cancel.
5. To edit the existing preset, press the blue shortcut key on the remote control to access the editing screen to edit.

DELETE PRESET

Access the preset editing screen, select preset and press the red shortcut key on the remote control to delete it.

APPLY PRESET

If you have already set preset on camera, you can apply preset via one of the following two ways:

- Access camera screen and press the digital keys on the remote control to adjust camera to the preset.
- Access preset screen and press the digital keys to switch to the corresponding preset, press the yellow shortcut key to apply.

CAMERA PARAMETERS CONFIGURATIONS

Press the yellow shortcut key on the remote control to bring out camera parameter setting screen as shown below. Refer to the table below and configure the parameters using navigation keys on the remote control.

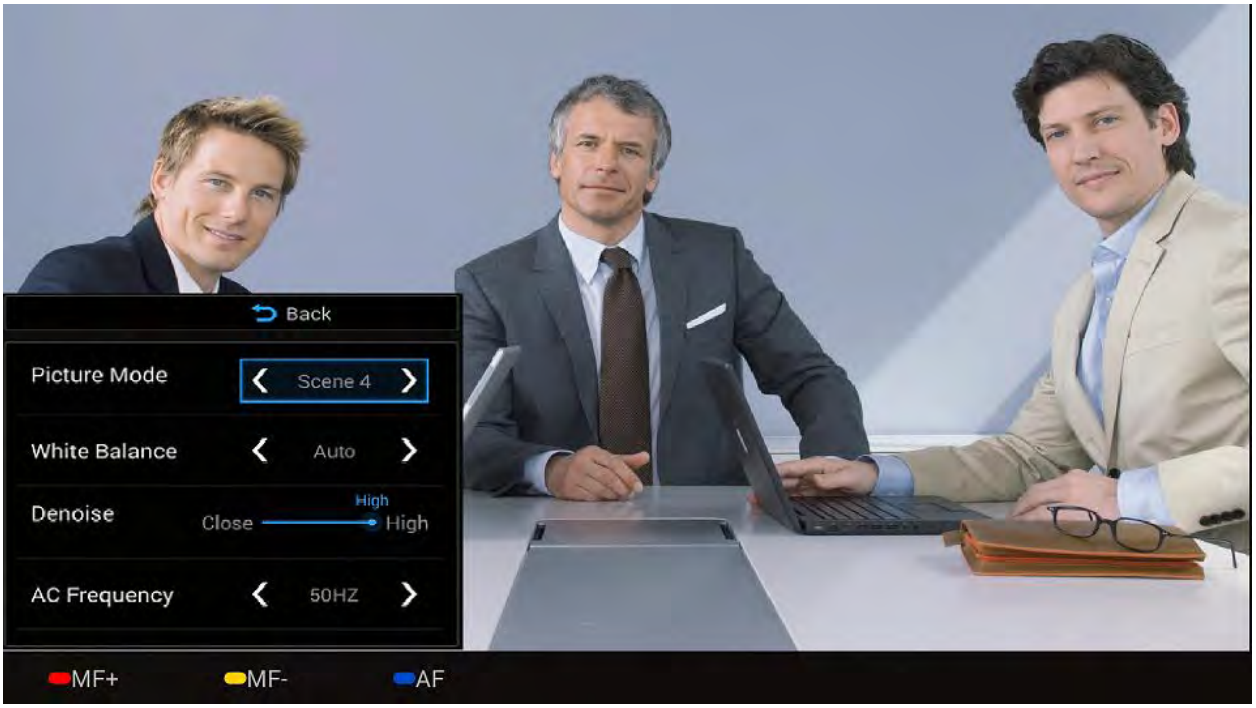

Figure 18 GVC3200 Camera Parameters Setting Screen

Table 14 GVC3200 Camera Parameters

Parameters	Descriptions

Picture Mode	The GVC3200 has 4 built-in mode as well as "Manual" for customization. When set to "Manual", press the "OK" key to access each setting to configure sharpness, contrast, saturation and brightness. • Sharpness: Higher sharpness brings higher screen clarity. The object displayed on the screen has more sharpen edge. • Contrast: Higher value brings more distinct color contrast. • Saturation: Higher value brings deeper color. • Brightness: Higher value brings brighter color.
White Balance	This is used to display accurate images. Users could set to "Manual" or "Auto". • When set to "Auto", the device will adjust parameters automatically according to the current environment. • When set to "Manual", the device will disable "Auto" mode. Press the "OK" key to access manual setting screen and adjust red or blue gain manually for better while balance.
De-noise	Users could set to "Close", "low", "medium" or "high". Higher reduction level brings less image noises.
Frequency of A.C.	Users could set to 50HZ or 60HZ.
Red Shortcut Key (MF+)	Manual focus: increase the focal length.
Yellow Shortcut Key (MF-)	Manual focus: decrease the focal length.
Blue Shortcut Key (AF)	Auto focus.

PERIPHERAL

EXTERNAL USB DEVICE

The GVC3200 USB interface could be connected to a USB mouse, a USB keyboard, or a USB storage device.

USING USB MOUSE/KEYBOARD

When a USB mouse is plugged into the GVC3200, users could see the cursor on the screen, move the cursor to perform operations. When a USB keyboard is plugged into the GVC3200, use the remote control to navigate to an input interface and click on the keys on the keyboard to check if it is installed successfully.

USING USB STORAGE DEVICE

To connect and access USB storage device:

1. Insert USB storage device into USB port at the back of the GVC3200.
2. It will take a few seconds for the GVC3200 to prepare the connection.
3. Once successfully installed, the USB storage icon will show on the status bar. Uses could go to GVC3200 LCD->Applications->FileManager->USB to access and manage your data.
4. Users could view, copy and paste files by using the USB storage device.

SD CARD

1. Insert your SD card into SD card slot at the back of the GVC3200. Please make sure the SD card is inserted with right direction on GVC3200.
2. It will take a few seconds for the GVC3200 to prepare the connection. Then the SD card icon will show on the status bar.
3. To access SD Card, go to GVC3200 LCD->Applications->FileManager->sdcard. Tap on it to access and manage your data.

Note:

The external SD card can be used to store recording files and screenshots. If you need to use the recording and screenshot function, it is recommended to use an SD card with large capacity.

MICROPHONE AND SPEAKER

GVC3200 is equipped with a built-in microphone; alternatively, you can connect external microphone arrays or other audio devices to the GVC3200 as audio input sources. Before using the GVC3200, connect the required audio input devices to the GVC3200 and set audio input parameters. The GVC3200 supports one speaker output. It is recommended to use the external speaker that comes with your GVC3200 package for better compatibility.

If the external speaker supports Bluetooth, users could also pair and connect the speaker to the GVC3200 via Bluetooth. This will provide better mobility and make cabling easier when deploying the GVC3200 conference system in your conference room.

MAKING PHONE CALLS

ACCOUNT

The GVC3200 comes with one IPVideoTalk Pro account, supports one account registration and one BlueJeans account. Please enable the IPVideoTalk Pro account, or register SIP account to a SIP server before making calls. The following figure shows the account is successfully registered (account icon is green). This displays on the left side of the top status bar on your LCD display device.

Figure 19 GVC3200 SIP Account

DIAL SCREEN

Once the account is successfully registered, users could use one of the following 3 ways to bring up dial screen to start making calls.

- Press the DIAL icon in the lower right corner of the remote control.
- On the LCD display device, click on icon on home screen.
- On the LCD display device, click on Applications and select to bring up dial screen.

Enter digits in the dial-up box. If the digits or the letters for the digit matches contacts and call history, a dropdown list of numbers will be displayed. For example, entering 5 (JKL), 6 (MNO), 4 (GHI) and 6 (MNO) will display 5646 or john if contact "john" exists. The matching characters will be highlighted in red.

Figure 20 GVC3200 Call Screen

- Press the red shortcut key on the remote control to bring up call mode setting screen, set call mode to Call, Paging or IP call.
- Press the yellow shortcut key to set call type to Audio or Video.
- Press the blue shortcut key to switch account among SIP account, IPVideoTalk Pro account and BlueJeans.
- Click on "Cancel" icon on screen or press key on the remote control to cancel the call.

DIALING A NUMBER DIRECTLY

1. Open the dial screen.
2. Use the remote control keyboard to enter digits, or click the input box to enter using the pop-out soft keyboard.
3. Press on the remote control to dial out, or move the cursor to the icon on dial screen and click it to dial out.

Note:

1. By default, the GVC3200 allows users to press # key as SEND key. This behavior can be disabled via option "Use # as Dial Key" under web GUI.
2. When entering initials or full spellings of a name that exists in the contact, this contact will show in the dropdown list. For example, if the user inputs Amy by pressing the corresponding digits "2" (ABC), "6" (MNO), "9" (WXYZ) on the remote control, Amy's name and number will be displayed in the list if it exists in the contact. Users can then select it to dial out.

REDIAL

Users can dial out the last dialed number if there is dialed call log. Access the dial screen and then press "#" key or on the remote control to dial out.

DIALING A NUMBER VIA CONTACT

Follow the steps below to dial a number via Contacts.

1. On the LCD display device, access Contacts by tapping on on home screen.
2. Navigate and select in the contacts entries using the remote control navigation keys.
3. Press on the remote control to dial out.

DIALING A NUMBER VIA CALL HISTORY

1. On the LCD display device, access Applications on home screen and access call history by selecting icon .
2. The LCD will display all call history types. Navigate in the call history list by selecting the call history category. Select the call history entry you would like to dial out.
3. Press on the remote control to dial out.

DIRECT IP CALL

Direct IP Call allows GVC3200 and another VoIP device to talk to each other in an ad-hoc fashion without a SIP proxy. VoIP calls can be made between these two if:

- Both GVC3200 and VoIP phone have public IP addresses
  Or
- Both GVC3200 and VoIP phone are on the same LAN / VPN using private or public IP addresses
  Or
- NAT is disabled or GVC3200 NAT is disabled.

Both devices can be connected through a router using public or private IP addresses (with necessary port forwarding or DMZ).

To make a direct IP call, please follow the steps below:

1. Access the dial screen on GVC3200.
2. Press the red shortcut key on the remote control to bring up call mode setting screen, set the mode to "IP Call".
3. Input the target IP address. For example, if the target IP address is 192.168.124.123 and the port is 5062, input the following:
   192*168*124*123#5062
   The * key represents the dot (.) and the # key represents the colon (:).
4. Press the yellow shortcut key on the remote control to select "Audio Call" or "Video Call".
5. Press on the remote control to dial out.

PAGING/INTERCOM

Before placing paging/intercom, please make sure the callee has paging/intercom enabled so it can automatically answer the paging/intercom call. To make paging/intercom call:

1. Access the dial screen on GVC3200.
2. Press the red shortcut key on the remote control to bring up call mode setting screen, set the mode to "Paging/Intercom".
3. Enter the number to dial.
4. Press the yellow shortcut key on the remote control to select "Audio Call" or "Video Call".

5. Press on the remote control to dial out.

ANSWERING A CALL

When the device is in idle and there is an incoming video call, the device will show the call screen as below.

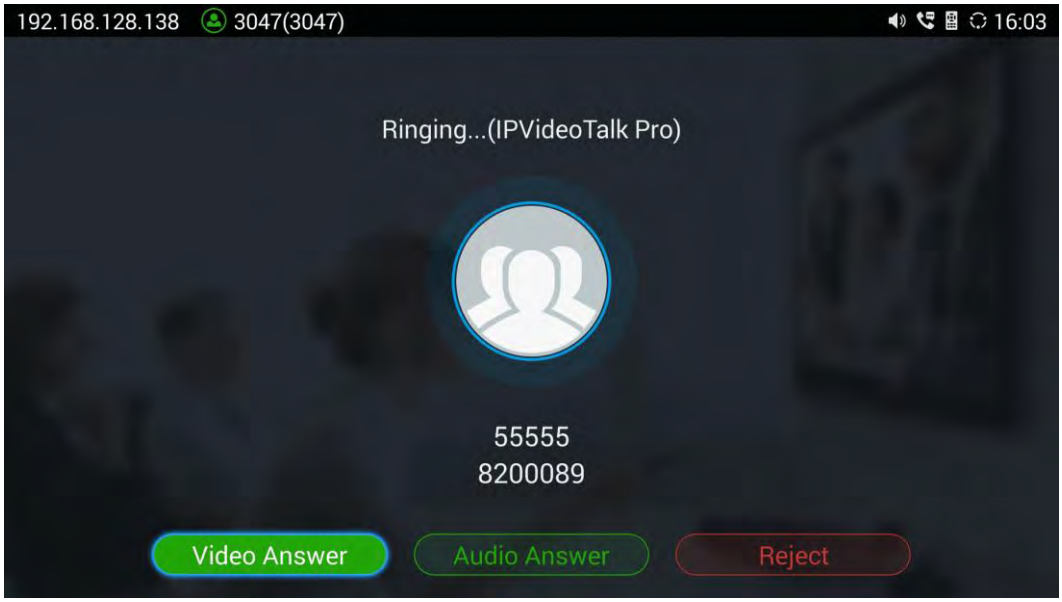

Figure 21 GVC3200 Single Incoming Call Screen

Select "Video Answer" to answer the call with both video and audio, "Audio Answer" to answer the call with audio only, or "End" to reject the call.

When there is an incoming call during an active call, users will hear a call waiting tone with the LCD displaying the caller name and ID for the incoming call.

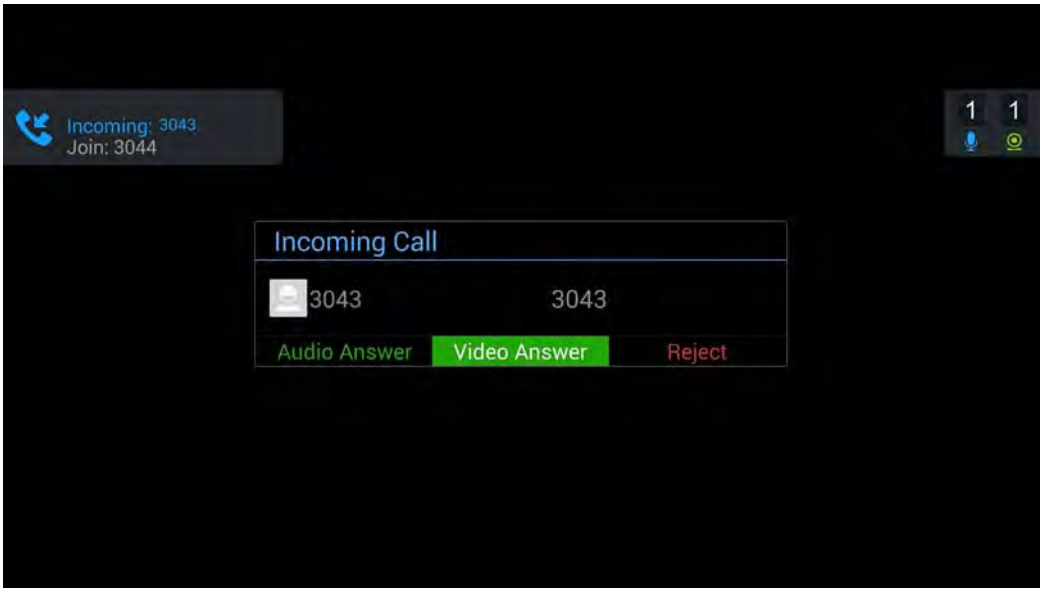

Figure 22 GVC3200 New Incoming Call Screen

Users could select "Audio" to answer with audio only, "Video" to answer with video and audio, or "End" to reject the call.

Note:

By default, answering a call during an active call will automatically add this party into the conference.

CALL HOLD

During an active call, press HOLD button to put the call on hold.

- On the LCD display, click on to resume the call.
- On the LCD display, click on or press on the remote control to end the call.

If the current call is a video call, the screen will not display remote video when the call is on hold.

MUTE LOCAL AUDIO

During an active call, press the MUTE button to mute the call, press the button again to unmute the call.

CALL RECORDING

During the call, users could record the video to the external SD card plugged into the GVC3200. Once recorded, the users can view the recorded video in Recorder application and download the video from web UI->Maintenance->Recording. For more details, please refer to the chapter ***RECORDER***.

1. During an active call, press the recording key *⁄ on the remote control. A red Rec icon will show on the upper left of the screen.
2. The recording files will be automatically saved to the external SD card when the call is finished. Users could also press *⁄ on the remote control to stop recording anytime.

DND (DO NOT DISTURB)

When DND is on, the incoming calls to the GVC3200 will be blocked without ringing. Users could see the blocked calls in call history. Once enabled, the DND icon

will be displayed in the status bar on the top of the screen.

- When the GVC3200 is in idle screen, the user can press button on the remote control to turn on/off DND.
- When the GVC3200 is in an active call, the user could turn on/off DND in call screen->MORE options. This will not affect the current call and it will take effect starting from the next incoming call.
- At any time, the user could log in GVC3200 web UI and click on “DND” on the top tool bar of the web page to turn on/turn off DND.

MISSED CALL

When there is a missed call, the call icon on home screen will show the number of missed calls. Once accessed the dial screen, the reminder icon will disappear.

CALL FORWARD

Call forward (Unconditional/No-answer/Busy/Time-based) can be set up from web GUI. Log in GVC3200 web GUI and go to Settings page->Account->Call Settings. For details, please refer to "GVC3200 Administration Guide".

CONFERENCE

DEVICE LAYOUT

The GVC3200 supports up to 9-way conference. The GVC3200 can be the host to initiate a conference or join other conferences as a member.

The user can connect multiple HDMI output devices for conference. HDMI 1 interface is the primary output when plugging in multiple HDMI display devices. The device connected to HDMI 1 interface will display local site by default while other devices automatically display remote sites. If the VGA/HDMI IN device is plugged in to the GVC3200, the device connected to HDMI 1 interface displays presentation of VGA/HDMI input while other devices will display video view.

During the conference, the user can tap on button on the GVC3200 remote control trackpad to go back to HOME screen, with the conference video displayed in the background.

INITIATING CONFERENCE

The conference can be initiated in multiple ways.

- **From Call Screen:**
  1. Access the call screen, enter the number in the text box or select members from the list below.
  2. Press on the remote control or click on on the screen to dial out.

- **From Schedule**
  For more details, please refer to chapter ***SCHEDULE***.

ANSWERING AN INCOMING CALL IN CONFERENCE

You can specify how your GVC3200 handles incoming calls. Depending on your configuration, your GVC3200 automatically answers a call or prompts you to answer a call manually:

- Log in GVC3200 web GUI and go to Settings page->Account->Call Settings and set "Auto-answer" option to "Yes". All incoming calls will be automatically answered. If it's a video call, it will be answered with video as well.
- If "Auto Answer" is set to No, the user will need manually select to answer with video, audio or reject the call using the remote control on the LCD prompt.
- Answering the call will join the caller into the current active conference.

CONFERENCE MANAGEMENT

The following figure shows a 3-way conference established.

Figure 23 GVC3200 3-Way Conference

Add member. Access dial screen and add more numbers to join conference.

Delete member. Select member to delete.

Conference control. Control conference members. It includes the following options for each party:

- The selected party will not be heard by other parties

- The selected party will not hear other parties

- The video call with the selected party will turn into audio call only. If clicking on this icon again, a video invitation will be sent to this party. The party must accept the video request in order for other parties to see it again.

- Suspend video from the video party. Click on it again to resume video again.

Suspend. Pause/resume conference. Once paused, the GVC3200 will stop sending local video to the remote parties.

Presentation. Turn on/off presentation. HDMI IN or VGA IN must be plugged in first.

More. Bring up more options including mixing video with Third party applications (only available when the application is installed on GVC3200), view call details, set DND, open DTMF and switch mainstream and sub stream.

End. End conference and go back to home screen.

If the remote party is also using the GVC3200, you can press the camera key on the remote control to control PTZ device for the remote party.

Users could press the red/blue/yellow shortcut keys on the remote control to input DTMF, view notifications and view status.

During the active conference call, if there is a new member joining conference, an outgoing call failed or a member hanging up, there will be a prompt box on the left side of the conference screen showing notifications. The notification prompt will be automatically hidden if there is no new notification in 2 seconds.

On the right side of the video conference screen, users can see member status such as audio/video calls, or whether the call is being muted.

Table 15 GVC3200 Conference Member Status Descriptions

Icons	Descriptions
	The current line is in an audio call.
	The current line is in a video call.
	The current line is being muted.
	The current line is not connected.

The operations toolbar on the bottom of the video conference screen will be automatically hidden if there is no operation in 5 seconds. Press any key to bring up the toolbar again.

INVITE MEMBERS TO CONFERENCE

Users could use one of the following ways to add members.

- Access the dial screen by clicking on the ADD icon on conference screen. Then enter the number to dial out. Once the member answers the call, it will be connected into the conference automatically.
- When GVC3200 is on conference screen, press on the remote control to access the call screen. Then enter the number to dial out. Once the member answers the call, it will be connected into the conference automatically.
- The member calls the conference number. If the host answers the call, the member will join conference automatically.

REMOVING MEMBER FROM CONFERENCE

To remove a member from the conference, click on the DELETE icon on conference screen. Select the member from the member list and press the "OK" key to delete it.

CONFERENCE CONTROL

Tap on to make operations like mute, disable sound, camera control and suspend video. The conference control screen is as shown below.

Figure 24 GVC3200 Conference Control Screen

1. Use Up/Down navigation keys on the remote control to select conference member;
2. Use Left/Right navigation keys on the remote control to make operations, press the "OK" key to CONFIGURE, press the "OK" key again to cancel. E.g. Tap on to mute one member and the icon will turn to , tap on again to restore.

Note:

Users could press the shortcut keys on the remote control on conference control screen to mute all, block all or suspend videos.

PAUSE CONFERENCE

The video will be stopped if the conference is paused. You will not see the video view of the members and the other members won't see you either.

Note:

1. The new incoming call will be rejected if the conference is paused.
2. The presentation will be displayed normally when the conference is paused.

PRESENTATION SHARING

The GVC3200 supports dual stream video, with the presentation sharing function, you can connect VGA/HDMI input devices such as a computer or DVD player to your GVC3200 and share the VGA/HDMI input source content with remote parties while they can still view the video of local GVC3200.

If the members cannot receive dual stream, you can switch the stream to mainstream so that the members can still view the presentation. To switch stream,

1. On the conference screen, select MORE button ->"Switch to substream";
2. Press the "OK" key on the remote control and the presentation will be sent to remote parties as substream.

The following figure shows 3 TVs used for GVC3200. The one on the top shows presentation, the two on the bottom show remote party video.

Figure 25 GVC3200 3-Way Conference with Presentation

Note:

1. When both HDMI IN interface and VGA IN interface are connected, the GVC3200 will only display the device connected to HDMI IN port.
2. The user could press PIP button on the remote control to change video display layout.

CONFERENCE RECORDING

During the video conference, press *⊙ on the remote control to record conference, press the key again to stop recording. The recording will be automatically saved to the external SD card plugged into the GVC3200.

Note:

GVC3200 only support save the recording file to the external SD card, if not detected external SD card or the SD card is full when pressing the recording key *⊙ , the recording will be failed.

CALL DETAILS

Users could view audio and video details of the conference members. On the conference screen, click on and select "Call Details".

Figure 26 GVC3200 Call Details Screen

TURNING ON DND IN CONFERENCE

When DND is enabled during conference, the new incoming calls will be blocked. On the conference screen, use the remote control to click on MORE button and select "DND";

The icon

will be displayed on conference which has set DND mode. To disabled DND, Select DND mode again and press the "OK" key to cancel.

Note:

When set DND mode during a conference, the DND mode still effective when the conference is over. To disable DND, please press on the remote control when there is no active call.

CONFERENCE LOCK

Users could lock/unlock the scheduled conference. Once locked, the other incoming calls will not be able to join conference.

The locked scheduled conference will display on below screen.

OPEN DTMF

The user can dial DTMF during the conference.

1. On the remote control, press the red shortcut key, or click on MORE button -> select "Open DTMF" on the conference screen to bring up the DTMF input screen.
2. Press the digital keys on the remote control to input DTMF. Press ⮌ to cancel if needed.

THIRD PARTY APPLICATIONS

The GVC3200 runs the Android Operating System and therefore offers full access to the hundreds of thousands of Android apps in the Google Play Store, including Skype for Business, Google Hangouts and etc. The calls using certain apps can be mixed with the SIP call so that they can be brought into the same conference on the GVC3200.

For example, to use third party app Skype during the conference:

1. Install Skype and sign in.
2. Establish a conference call on the GVC3200.
3. On the conference screen, click on MORE button and select "Third party applications".
4. Press the "OK" key, and select “Skype” in the popup menu.
5. Search contacts in Skype and dial out.
6. The new call will be added to conference.

Note:

When the call is mixed, the GVC3200 bridge and the remote party using the app can see video from all parties. The remote SIP party can only see video from the GVC3200 bridge. All parties can hear each other.

END CONFERENCE

To end the conference, tap on END button or press key on the remote control to disconnect. If the GVC3200 is the conference host, ending the conference will disconnect all the members from the conference. If the conference member hangs up the call, it will be disconnected from the conference but other parties in the conference will stay in the conference.

SCHEDULE

SCHEDULE feature allows the user to set a specific time to hold a conference in advance, with conference reminder and members.

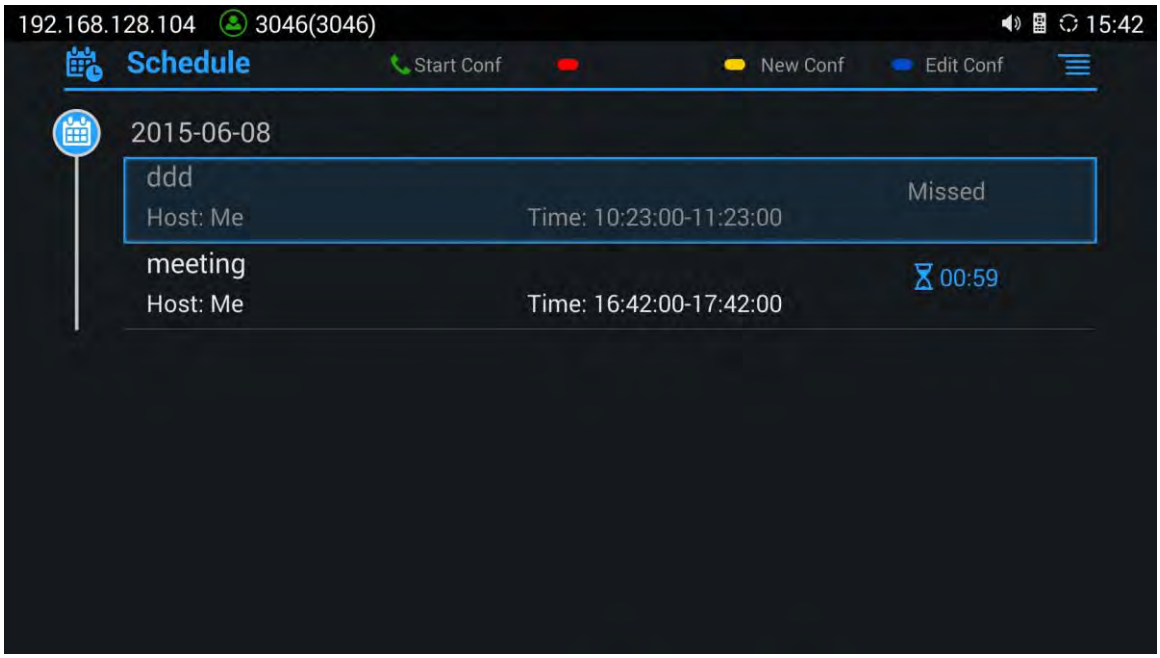

Figure 27 GVC3200 Schedule Screen

Follow one of the ways below to access schedule conference screen:

- On the home screen, click on CONFERENCE button .
- On the home screen, click on APPLICATION button and select .
- Users will see the scheduled conferences (after the current time) in the schedule screen. Select one conference entry to view details.

Note:

Conferences that have been held in the past will not be displayed in the schedule screen.

VIEW CONFERENCE DETAILS

Users could view scheduled conference details after the current time. Select one conference and press the "OK" key on the remote control to view conference details.

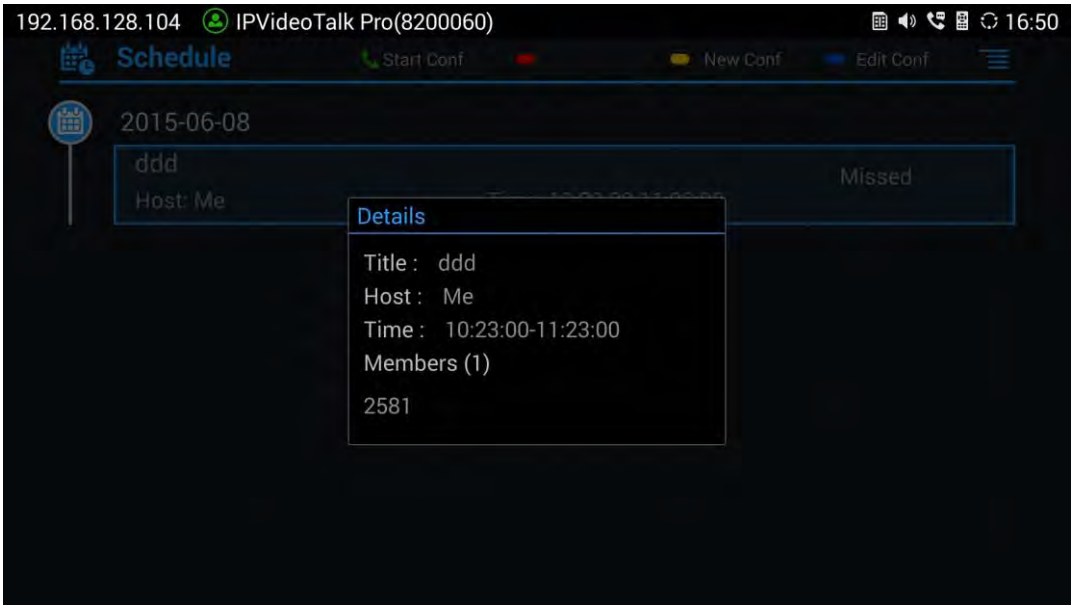

Figure 28 GVC3200 Conference Details Screen

ADD SCHEDULED CONFERENCE

Follow the steps below to add a scheduled conference:

1. On the home screen, select to access schedule screen.
2. On the remote control, press the yellow shortcut to "Add Conference" screen as below.

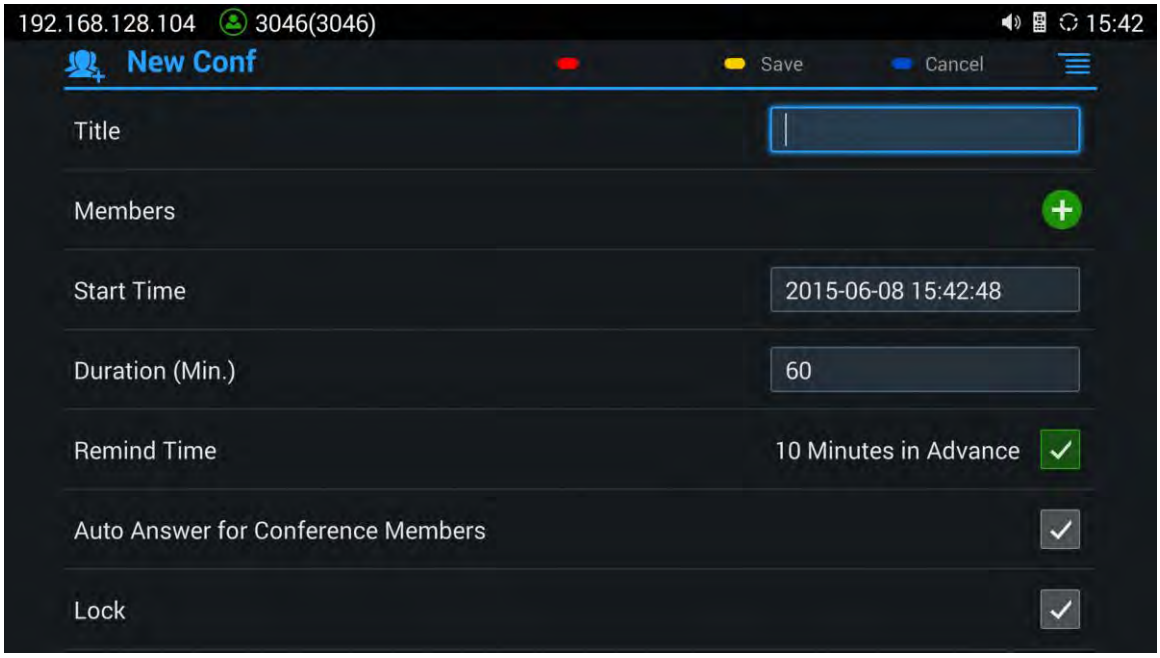

Figure 29 GVC3200 Add Conference Screen

3. Fill in conference name, members, start time, conference duration, etc.
4. Press the yellow shortcut key on the remote control to save the scheduled conference.

Table 16 GVC3200 Add Conference Parameters

Parameters	Descriptions
Title	Set the conference name to identify this conference.
Members	Click on button to access the Add Member screen. You can add one member or a group of members. Press the yellow key on the remote control to save and go back to schedule screen. Up to 8 members can be added.
Start Time	Configure when the conference starts.
Duration (Min)	Configure conference duration.
Reminder Time	Configure whether to remind users in advance. A prompt dialog box will pop up on the GVC3200 screen 10 minutes before the conference starts.
Auto Answer For Conference Member	Configure whether to answer the call from the conference member automatically. If the call is not from the conference member, it will not be answered automatically.
Lock	Users could lock/unlock the scheduled conference. Once locked, the other incoming calls will not be able to join conference.

EDIT SCHEDULED CONFERENCE

Follow the steps below to edit scheduled conference:

1. Access conference schedule screen and select the conference entry you would like to edit.
2. Press the blue shortcut key on the remote control to access edit screen.
3. Press the yellow shortcut key on the remote control to save changes and go back to schedule screen.

RESCHEDULE CONFERENCE

1. Access schedule screen and select the conference entry you would like to edit.
2. Press the MENU key on the remote control and select "Reschedule" option.
3. Set new conference start time in the popup dialog box.
4. Click on the SAVE button to save changes. If you would like to cancel the change, or press on the remote control or click on CANCEL button on the screen.

DELETE SCHEDULED CONFERENCE

Follow the steps below to delete the existing scheduled conference:

1. Access schedule screen and select the conference entry you would like to delete.
2. Press the MENU key on the remote control and select "Delete".

VOICEMAIL

When there is a new voicemail, voice mail icon will show up as a notification in the status bar. Users could login the web UI->Settings->Account->General Settings to configure the access number for the voicemail.

Follow the steps below to access voicemail:

1. Access the dial screen and input voicemail access number.
2. Press on the remote control or click on on the call screen to dial into the voicemail box.
3. Follow the Interactive Voice Response (IVR) for the message retrieval process.

Users could also go to Home screen->Applications and click on "Voice Mail" to access the voicemail box. The number of new voicemail messages will be shown on the voice mail app icon as well. See figure below.

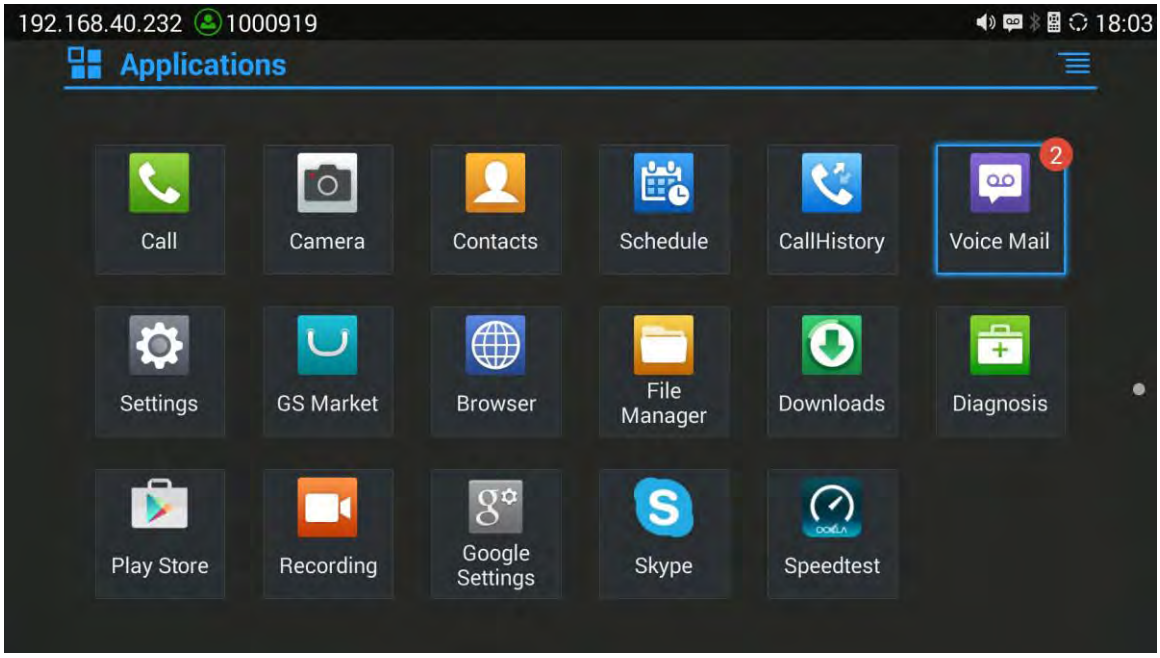

Figure 30 GVC3200 Voice Mail Application

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ADDITIONAL FUNCTIONS

GVC REMOTE CLIENT APPLICATION

Besides using the Bluetooth remote control in the GVC3200 package, the users could also download the Grandstream GVC Remote Client application and install it on an Android device. The remote control application is used via Bluetooth protocol. Follow the steps below to install the remote control application:

1. Download the GVC Remote. app for GVC3200 from GS Market and install it on your Android device.
2. Open GVC Remote. app on the Android device and access settings screen.
3. Select the GVC3200 device you would like to connect to. Each discovered GVC3200 could be distinguished by the last 6 digits of its MAC address.
4. Pair GVC Remote. app with the GVC3200 via Bluetooth. Users might see prompt on the GVC3200 and Android device to confirm the passcode during pairing and connection process.
5. After pairing and connecting the remote control application, users can use the keys and options on the Android device touch screen to control the GVC3200.

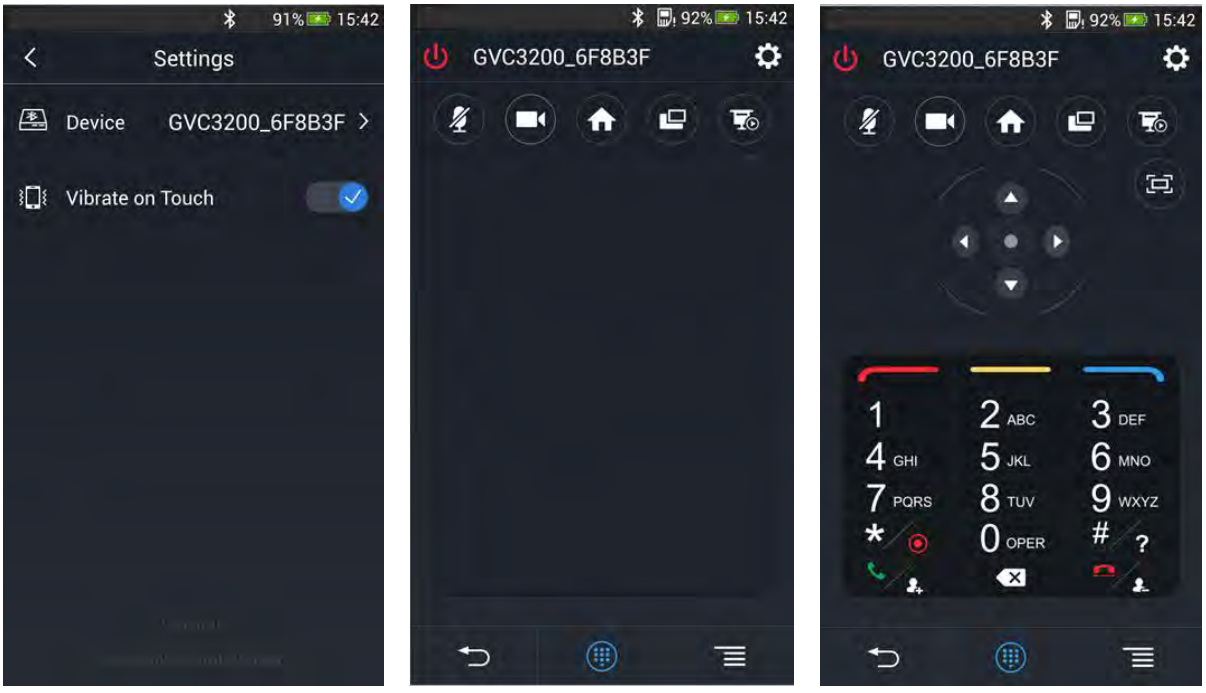

Figure 31 GVC3200 Remote Control Application on Android Device

- Tap on in the upper right corner to access settings screen as the left figure shows above.
- Tap on to go back to home screen as the figure in the middle shows above.

- Tap on to bring up navigation panel and digital keyboard as the right figure shows above, tap on again to hide the keyboard.

BLUEJEANS

The GVC3200 has built-in BlueJeans access for users to dial BlueJeans calls. Follow the steps below:

1. On the LCD dial screen, press the blue shortcut key on the remote control to switch call mode from SIP Call to BlueJeans.
2. When the call mode shows BlueJeans, input BlueJeans conference ID and conference password.
3. Press on the remote control or click on on the screen to dial out.

APPLICATIONS

GVC3200 provides built-in applications such as like Contacts, Call History, FileManager, Browser and etc. Users could also download the apps from GS market or Google Play to install on the GVC3200.

CONTACTS

GVC3200 Contacts app helps users to easily store and manage phone number and contact information. Users can add contacts on the GVC3200 or import contacts from external devices as well as download from a server.

On the GVC3200 home screen, click on CONTACTS icon , or go to APPLICATIONS and select to access contacts app.

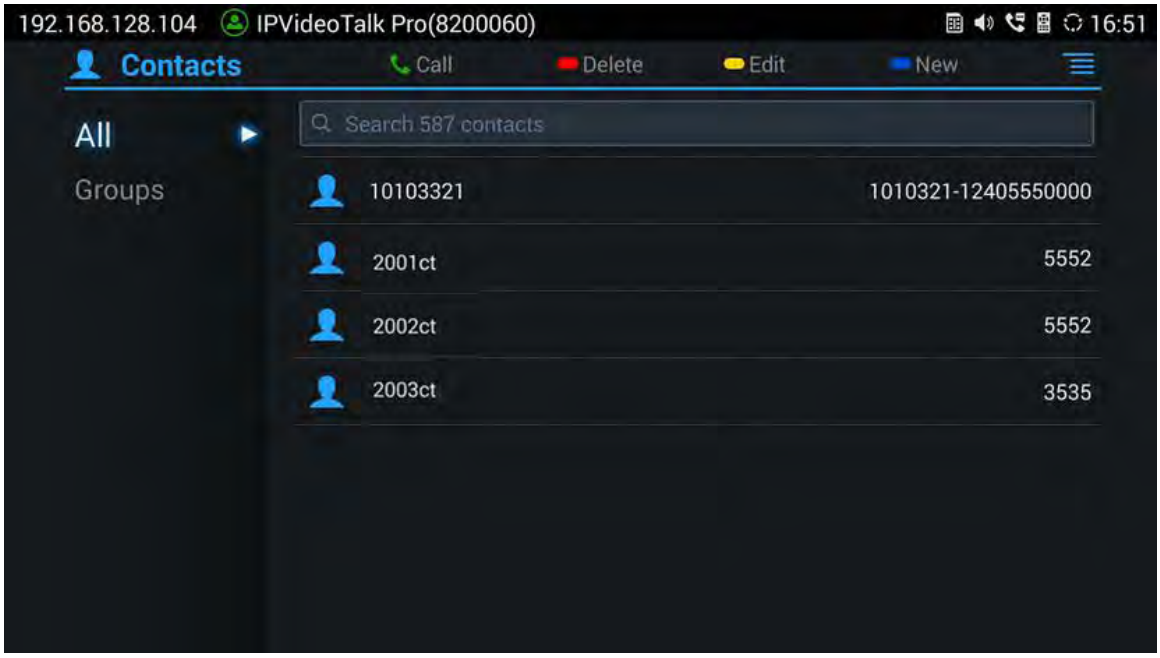

Figure 32 GVC3200 Contacts Screen

- **All**
  Display all contacts.
- **Groups**
  View groups. Select one group to view group details.
- **Call**

Select the contact, and press on the remote control or click on to dial the contact you would like to call.

- **Delete**
  Press the red shortcut key on the remote control to delete contacts.
- **Edit**
  Press the yellow shortcut key on the remote control to edit contacts.
- **Add**
  Press the blue shortcut key on the remote control to access New Contact screen, fill in contact information and press the yellow shortcut key on the remote control to save it.
- **Menu**
  Press on the remote control to access menu to edit/add/delete/export/import/download contacts.
- **Contact Details**
  Select one contact and press the "OK" key on the remote control to view contact details.

ADD CONTACT

ADD SINGLE CONTACT

Follow the steps below to add one single contact.

1. Press the blue shortcut key on the remote control to access New Contact screen.

Figure 33 GVC3200 Add New Contact Screen

2. Enter contact information.

3. Press the red shortcut key to add more fields.
4. Press the yellow shortcut key to save the contact information.

Users could press the red shortcut key to add more contact information.

BATCH IMPORT CONTACTS

Import function allows users to batch import contacts. The phonebook with compatible format needs to be saved to the storage devices like SD card/USB flash drive and plugged into the GVC3200.

1. Press the MENU key on Contacts screen and select "Import" to access Import Contacts screen.

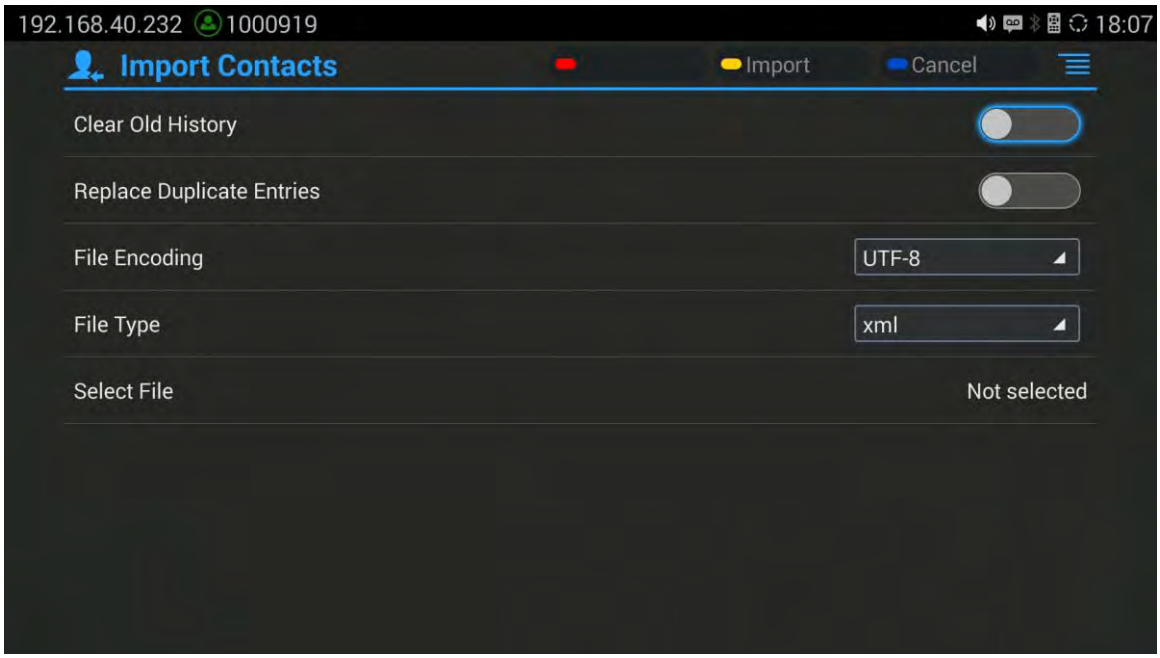

Figure 34 GVC3200 Import Contacts Screen

2. Configure parameters and select the path to save the imported file.
3. Press the yellow shortcut key to save the contact information.

Table 17 GVC3200 Import Contacts Parameters

Parameters	Descriptions
Clear The Old List	If enabled, the previous contact records will be deleted when a new phonebook file is loaded into the phone. If disabled, both the old contacts and new contacts will be kept in the GVC3200.
Replace Duplicate Entries	If enabled, when the phonebook file is imported to the phone, the duplicated entries will be removed. If disabled, both the old contacts and new contacts will be kept in the GVC3200.

File Encoding	Select the encoding format for XML contact file.
File Type	Select the file format for phonebook file import. The device supports xml, csv and vcard format.
Select The File	Select file from storage device plugged into the GVC3200.

DOWNLOAD CONTACT

GVC3200 supports downloading phonebook from the file server to batch add contacts. The default file name the GVC3200 looks for is "phonebook.xml". The phonebook XML file should be placed under the file server directory for the GVC3200 to retrieve. The GVC3200 supports vcard/xml/csv file format.

1. On the Contacts screen, tap on the MENU key and select "Download" to bring up the Download Contacts screen.

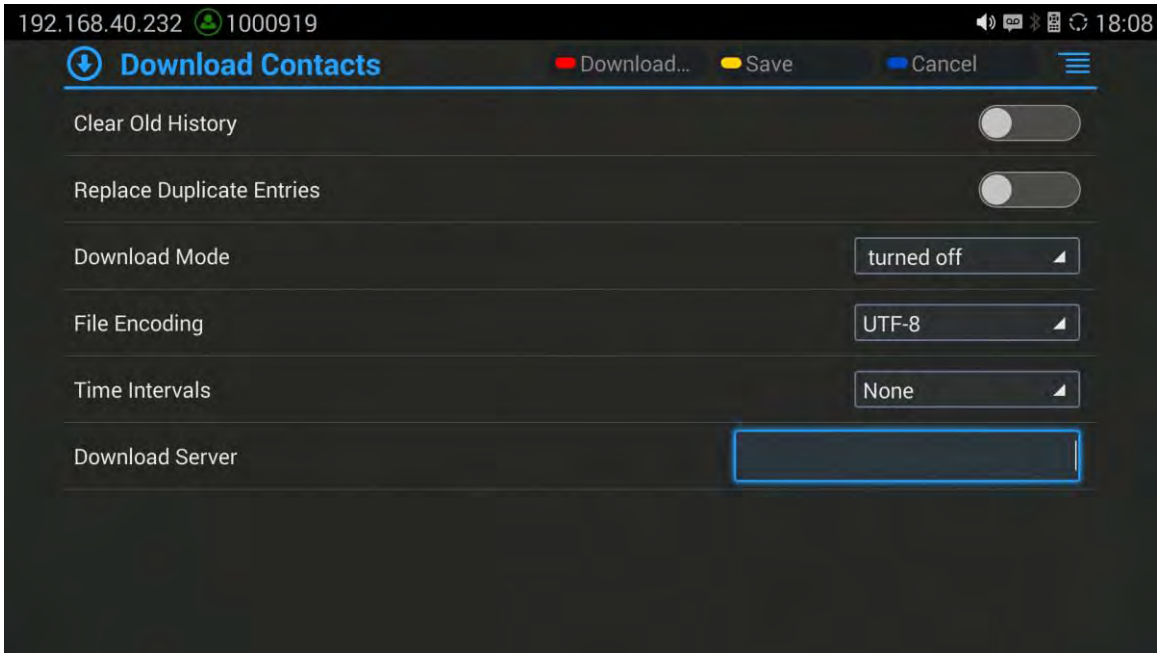

Figure 35 GVC3200 Download Contacts Screen

2. Configure parameters and select the path to save the file.
3. Press the red shortcut key to download.

Table 18 GVC3200 Download Contacts Parameters

Parameters	Descriptions

Clear The Old List	If enabled, the previous contact records will be deleted when a new phonebook file is loaded into the phone. If disabled, both the old contacts and new contacts will be kept in the GVC3200.
Replace Duplicate Entries	If enabled, when the phonebook file is imported to the GVC3200, the duplicated entries will be removed. If disabled, both the old contacts and new contacts will be kept in the GVC3200.
Download Mode	Select the phonebook download mode from TFTP, HTTP or HTTPS.
File Encoding	Select the encoding format for the XML contact file.
Time Intervals	Configure the time interval to download XML contact file.
Download Server	Fill in the server URL or IP address to download the XML contact file to the device.

SEARCH CONTACTS

In the Contacts app, the users could input keyword to search in the dialog. GVC3200 will automatically display contacts items related to the search keyword. Fuzzy search and precise search are both supported.

MANAGE CONTACTS

DELETE CONTACT

1. Access Contacts screen and select the contact you would like to delete.
2. Tap on ☰ and select "Delete" option to delete contact.

BATCH REMOVE CONTACTS

To delete more than one contact,

1. Select "Batch Remove" option.
2. Select the checkbox for the contacts to be deleted and press the red shortcut key on the remote control to delete them. Users could also press the yellow shortcut key on the remote control to select all contacts to at once.

EXPORT CONTACTS

The GXVC3200 supports exporting phonebook as vcard/xml/csv files and save the files to other external storage devices.

1. Press the MENU key on Contacts screen to bring up the Export Contacts screen.

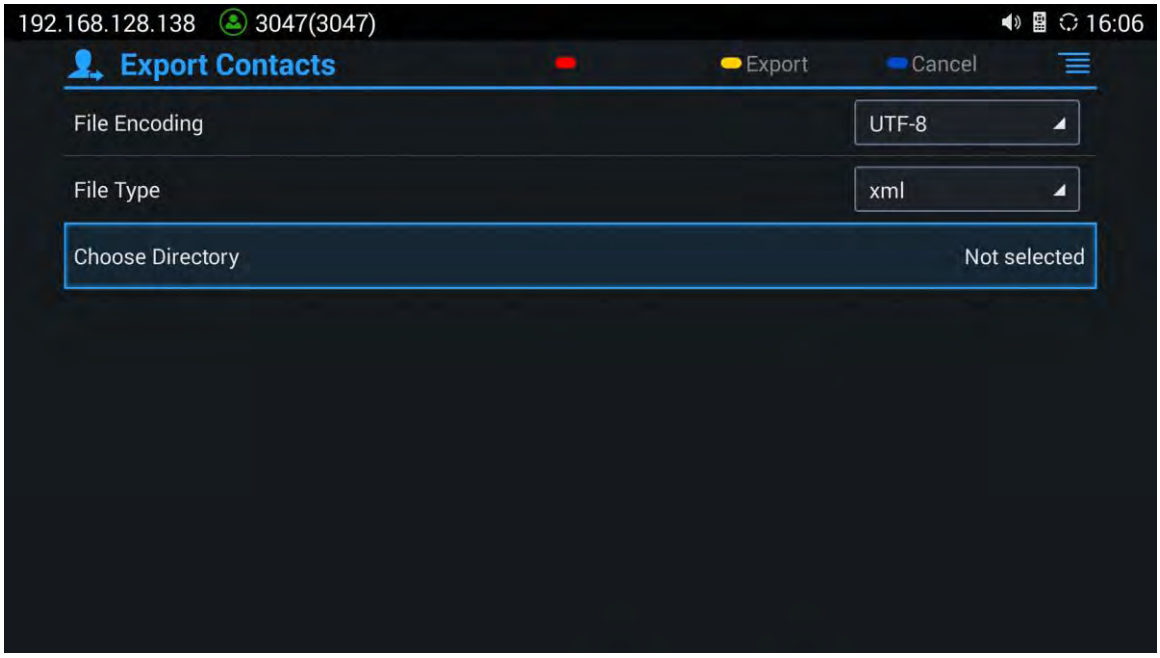

Figure 36 GVC3200 Export Contacts Screen

2. Configure parameters as shown in table 19 and select the directory to save the exported file.
3. Press the yellow shortcut key to export the file.

Table 19 GVC3200 Export Contacts Parameters

Parameters	Descriptions
File Encoding	Select the encoding format for XML contact file.
File Type	Select the file format for phonebook file export. The device supports xml, csv ,vcard.
Choose Directory	Select directory to save file.

GROUPS

Users could divide contacts into different groups with specific names. Select one group entry and press the "OK" key to view group details.

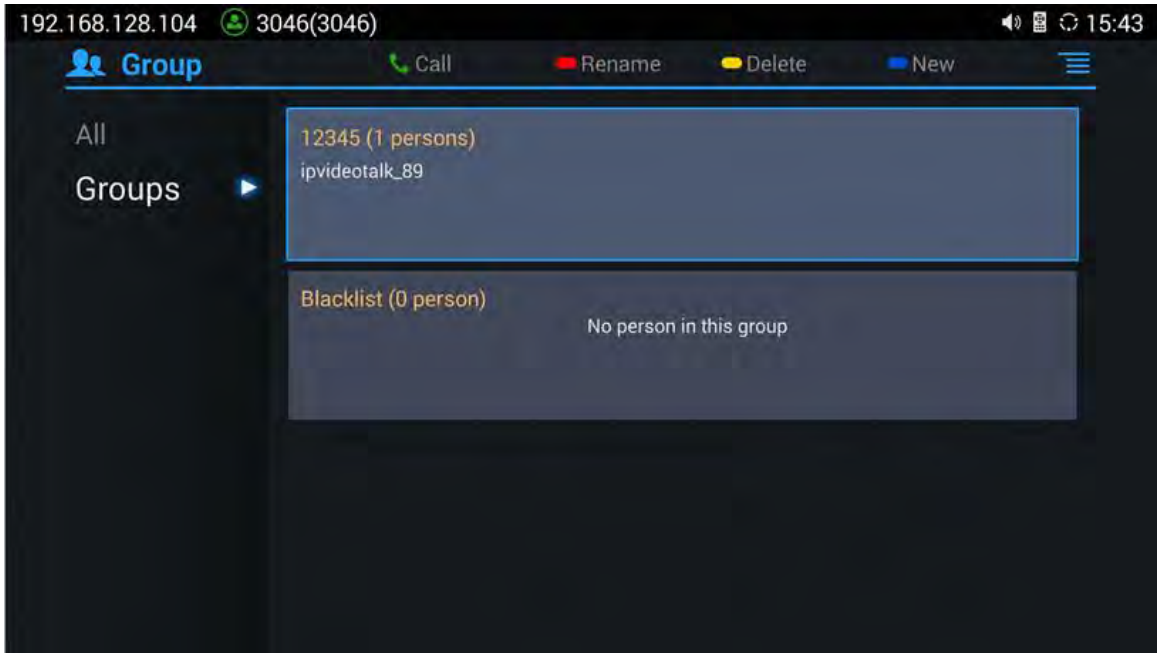

Figure 37 GVC3200 Groups Screen

- **Call**

  Press on the remote control to call the first 8 members in a group to initiate a conference.
- **Rename (red shortcut key)**
  Rename group.
- **Delete (yellow shortcut key)**
  Delete group.
- **Add (blue shortcut key)**
  Add group.

ADD NEW GROUP

1. Select Groups tab in Contacts screen.
2. Press the blue shortcut key on the remote control to bring up the screen below.

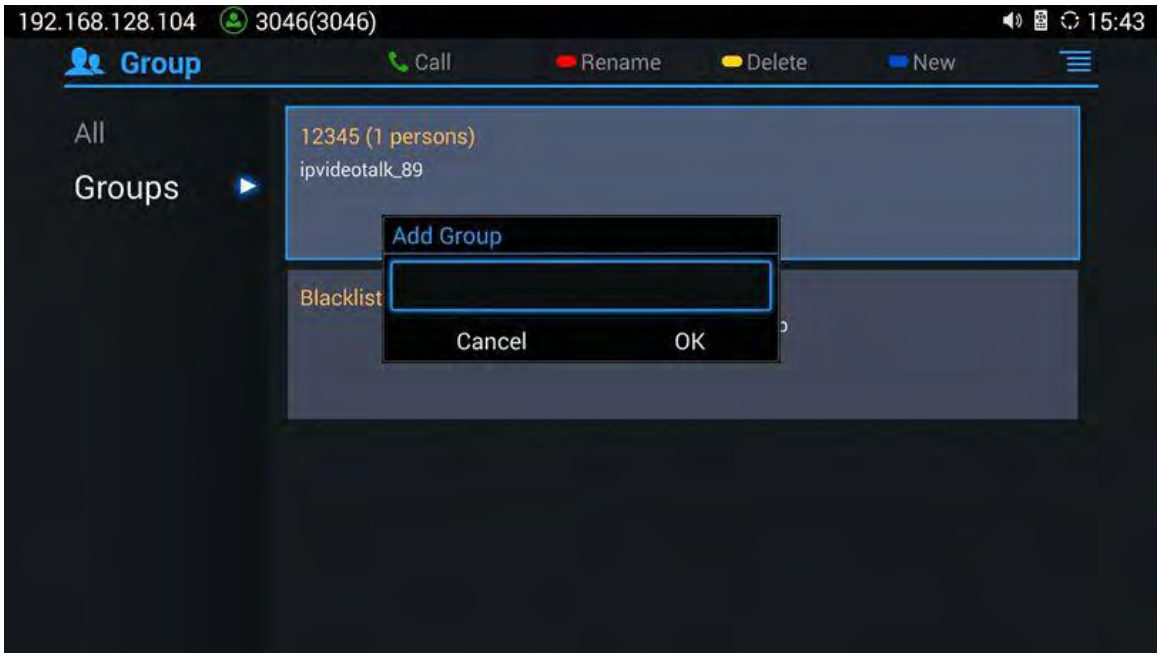

Figure 38 GVC3200 Add Group Screen

3. Input group name and tap on "OK" to add a new group.
4. Go to Contacts Screen to find the group you just added and access it.
5. Press the red shortcut key on the remote control to access Groups editing screen.
6. Select the contacts you would to add to this group.
7. Press the blue shortcut key on the remote control to save.

DELETE GROUP

Follow the steps below to delete groups.

1. Select Groups on Contacts screen.
2. Select the group you would like to delete.
3. Press the yellow shortcut key to bring up the dialog box.
4. Press the "OK" key to delete.

CALL HISTORY

Call History provides users access to phone's recent call records. The user can view all records, or select different categories for incoming calls, outgoing calls, missed call and conference.

To access Call History, go to Home screen->APPLICATIONS->select .

Figure 39 GVC3200 Call History Screen

Click on a record in the call history and press to dial out this number directly. Press the "OK" key on the remote control can view call details for this number.

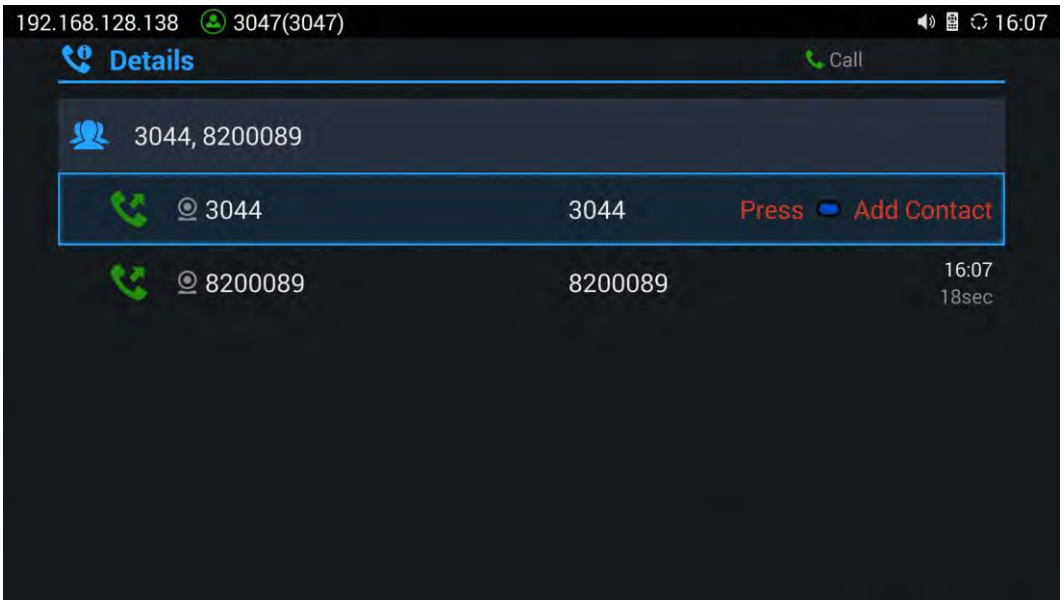

Figure 40 GVC3200 Call History Details

Note:

Call history displays all BlueJeans conference call history as well. Press the "OK" key or to dial out directly and there is no need to input the password again. However, if the conference doesn't exist or the password has been changed, the re-dial will fail.

ADD CONTACT FROM CALL HISTORY

1. Access Call History screen.
2. Select one call history entry.
3. Press the blue shortcut key to bring up the dialog box.
4. Confirm to add contacts.

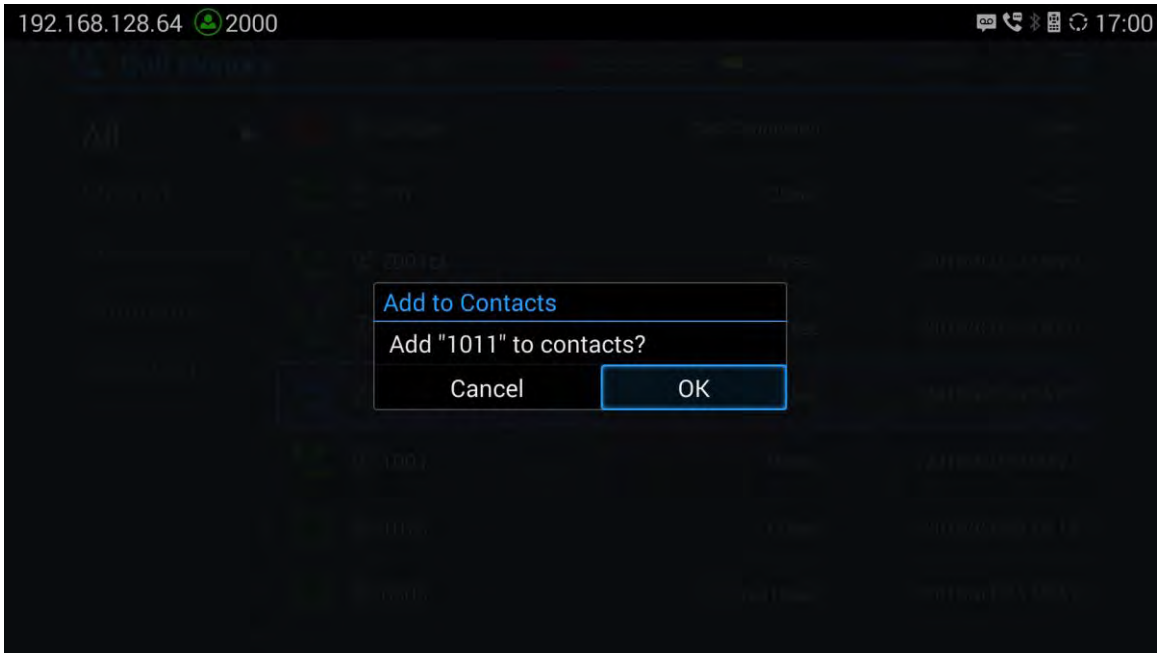

Figure 41 GVC3200 Add Contact Screen

5. Select existing contact or press the blue shortcut key on the remote control to access edit screen.
6. Fill in contact information and press the yellow shortcut key on the remote control to save.

DELETE CALL HISTORY

1. Select the call history entry.
2. Press the yellow shortcut key on the remote control to bring up the dialog box.
3. Confirm to delete.

CONFERENCE SCHEDULE VIA CALL HISTORY

1. Select one call history entry you would like to add to scheduled conference.
2. Press the blue shortcut key on the remote control to access schedule screen.
3. Fill in information and press the yellow shortcut to save.

FILEMANAGER

FileManager allows users to delete, move, copy, paste, send, rename files (including files on storage device such as USB flash drive and SD card), and query file properties on the GVC3200.

COPY FILE

To copy the file from the GVC3200 to USB/SD storage device:

1. Insert USB/SD storage device into USB port on the GVC3200. It will take a few seconds for the GVC3200 to prepare the connection.
2. The USB storage icon will show on the status bar.
3. Go to Home screen->APPLICATIONS->FileManager.
4. Open the target folder.
5. Press the yellow shortcut key and select the file.
6. Press the blue shortcut key to copy file and press ⮌ to go back to the upper level directory.
7. Select target storage device and go to the directory where the file will be pasted to.
8. Press the yellow shortcut key to paste the file.

You can also select file and press the blue shortcut key to copy one single file or folder.

SEND FILE

1. Go to Home screen->APPLICATIONS->FileManager.
2. Open the target folder.

3. Press the yellow shortcut key and select the file.
4. Press MENU key ☰ on the remote control n and select "Send" option.
5. Select target location and press the "OK" key on the remote control to send file. If the user needs to send the file via Bluetooth, enable and connect Bluetooth device first. Otherwise, the interface will be redirected to the corresponding setting page to configure.

You can also select file and press the MENU key to send one single file or folder.

DELETE FILE

1. Go to Home screen->APPLICATIONS->FileManager.
2. Open the target folder.
3. Press the yellow shortcut key and select the file.
4. Press the red shortcut key.
5. A dialog will pop up for users to confirm whether to delete the file or not.
6. Press the "OK" key key to delete the file successfully.

You can also select file and press the red shortcut key to delete one single file or folder.

RENAME FILE

1. Go to Home screen->APPLICATIONS->FileManager.
2. Open the target folder.
3. Press the yellow shortcut key and select the file.
4. Press MENU key ☰ on the remote control and select "Rename".
5. Input the new file name in the pop-up dialog and press the "OK" key to save.

Press ⮌ on the remote control to cancel.

RECORDING

GVC3200 recording application is used for the storage of call recording files in video conferencing. You can play, export, lock/unlock, send, rename or delete these recordings, etc. The recording screen is as shown below.

Figure 42 GVC3200 Recording Screen

- Press the "OK" key to play recording.
- Press the red shortcut key to delete the chosen recording file.
- Press the yellow shortcut key to export the recording files to the external storage device.
- Press the MENU key to make other operations to recording files like export, rename, lock/unlock.

Note:

The locked files can't be deleted or overwritten, and can't be shown in the third party application but only be viewed in the GVC3200 video application.

BACKUP

BACKUP DATA

GVC3200 BACKUP application is used to backup data or import backup files to restore data. The backup screen is as shown below. Tap on MENU key and select "Refresh" to import the backup file in external

device into the GVC3200.

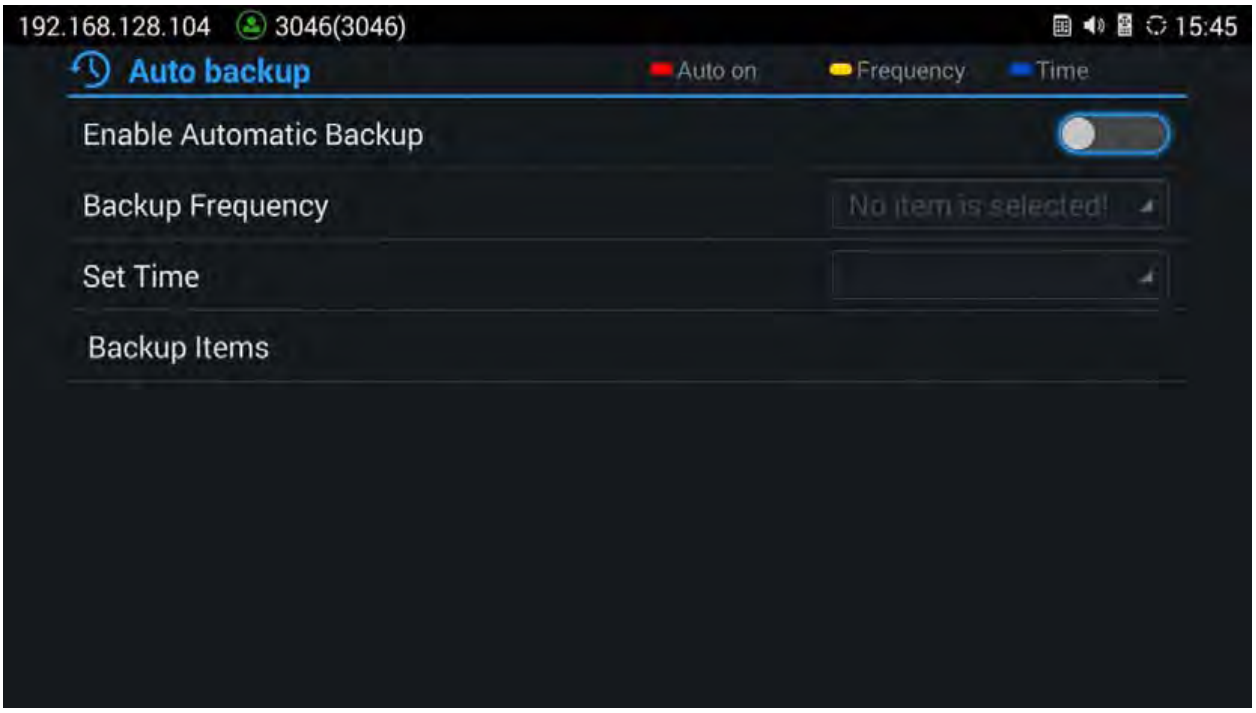

Figure 43 GVC3200 Backup Screen

GVC3200 supports manual backup and automatic backup. Press the red shortcut key on backup screen to access new backup screen, select data and press the blue shortcut key to start backup.

Follow the steps below to backup data automatically.

1. Press the yellow shortcut key on backup screen to access automatic backup screen.
2. Enable automatic backup and set parameters.
3. Press the back key to save.

Figure 44 GVC3200 Automatic Backup Screen

RESTORE BACKUP DATA

Select one backup data and press the "OK" key to access restore screen, select data and press the blue shortcut key to restore the backup data.

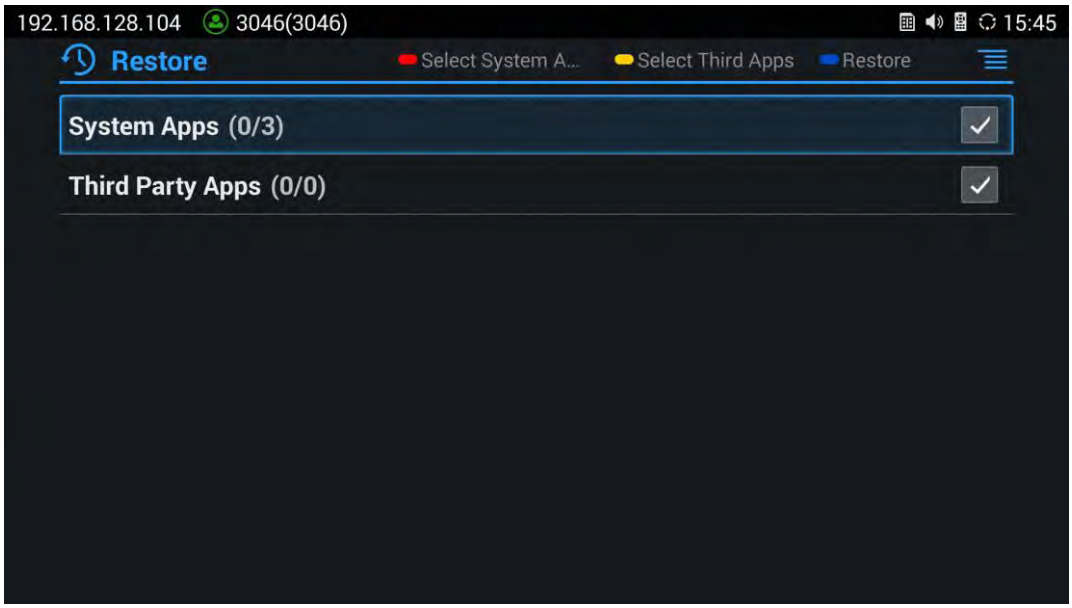

Figure 45 GVC3200 Restore Backup Data Screen

SET BACKUP PATH

Press the MENU key and select "Settings" on backup screen to access settings screen, set backup path and go back to save automatically.

Note:

Insert SD card or USB flash disk before set backup path.

DIAGNOSIS

When troubleshooting the GVC3200, users could go to GVC3200 home screen->APPLICATIONS->Diagnosis. Tap on the option and follow the instructions on each function to perform for Camera Test, Remote Control Key Test, Bulid-in Speaker Test and etc.

Users could press the BACK key or follow the prompt to exit the test.

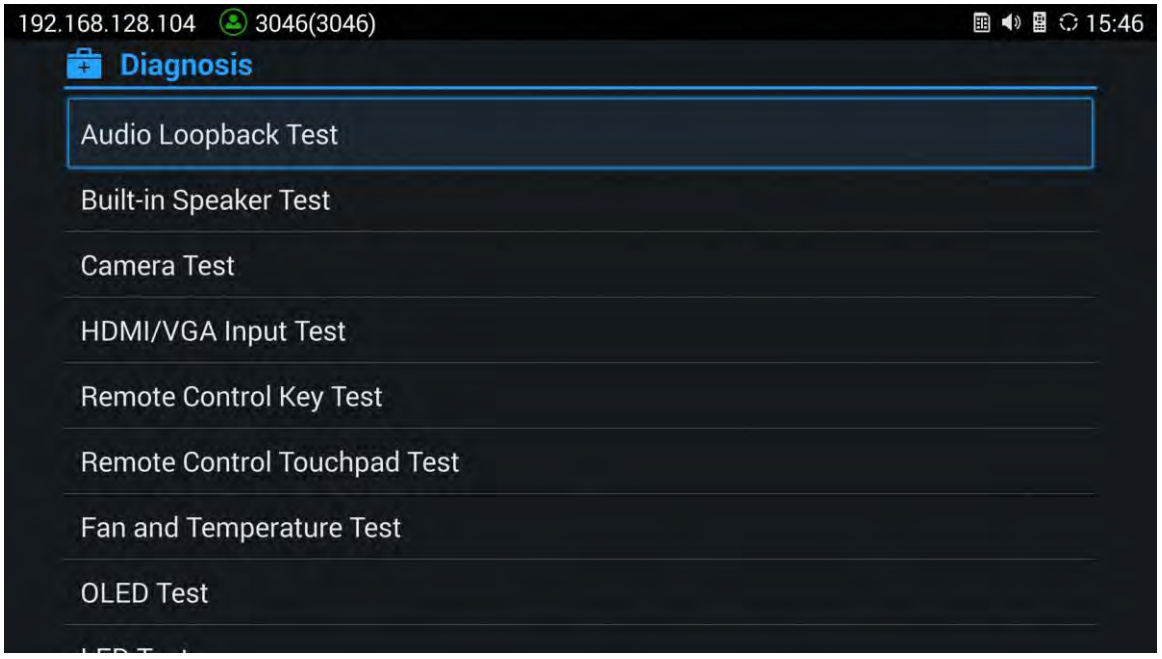

Figure 46 GVC3200 Diagnosis Screen

BROWSER

Users could browse web page, view news and watch video via the built-in GVC3200 Browser. In home screen, select Application-> .

- Slide up or down with slide gesture to scroll the screen.
- Zoom in/out the page via zoom gesture.
- Press the MENU key to open the menu bar for more operations.

CUSTOM APP ON HOME SCREEN

Users could add one app to the home screen for easy access. The GVC3200 only supports custom one app on home screen. The new app will overwrite the older one.

On the Home screen, click on "Custom Home App" and select one app. Press the "OK" key to confirm. The system will automatically go back to Home screen and users could find the app has been added already.

To remove or change the Custom Home App, go to LCD Home screen->Applications. Click on and select the option to modify custom app. Users could then de-select the existing custom app, or change to a different app.

UNINSTALL APPLICATION

The applications (except the system applications) on the GVC3200 can be uninstalled. Go to LCD Home screen->Applications, click on and select "Uninstall Mode". Users will see the apps that can be deleted shown with icon. Select and confirm the uninstallation.

Once done, Press on the remote control or to go back to normal mode.

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GS MARKET

GVC3200 provides direct access to apps via built-in GS market app. Users could download the apps from the market and install to the GVC3200.

SEARCH APPS

In the GVC3200 Home screen, click on Applications->GS Market . The users could view the apps by category, or input key words and click on SEARCH icon to search.

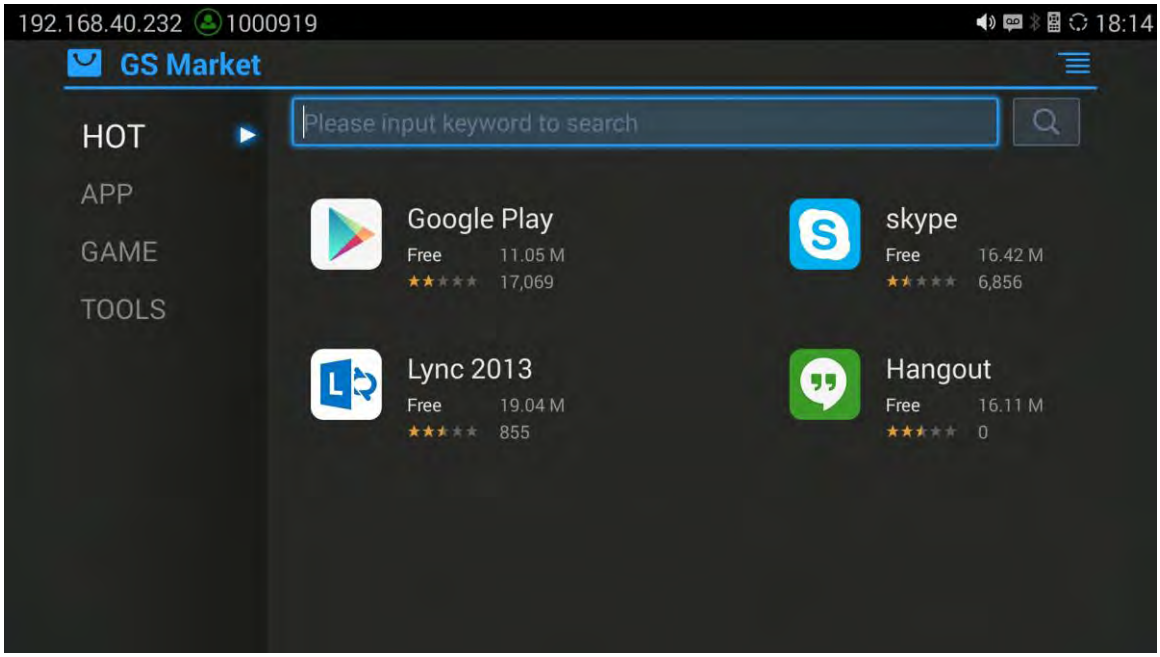

Figure 47 GVC3200 GS Market

DOWNLOAD AND INSTALL APPS

- Users could see if the app has been installed or downloaded by pressing the blue shortcut key.
- Press MENU key to view the downloaded apps and installed apps.
- Users could press the blue shortcut key on the remote control to cancel download in process.
- The installing process will be automatically started after downloading the app.
- Go to Installed screen to view the installed apps, or press the blue shortcut key on the remote control to uninstall the downloaded apps.

UPDATE APPS

The GVC3200 will automatically detect if there is new version available for the installed apps to upgrade when the network connection is normal. User can view the relevant information and update apps on the Installed screen.

GVC3200 WEB UI FEATURES

The GVC3200 embedded Web server responds to HTTP/HTTPS GET/POST requests. Embedded HTML pages allow users to configure the application device through a Web browser such as Mozilla Firefox, Google Chrome and etc.

ACCESSING GVC3200 WEB GUI

The IP address of the GVC3200 displays on OLED display screen on the front panel.

To access the GVC3200 Web GUI:

1. Connect the computer to the same network as GVC3200.
2. Make sure GVC3200 is turned on and shows its IP address on OLED display screen.
3. Open a Web browser on your computer.
4. Enter GVC3200's IP address in the address bar of the browser, e.g.: http://192.168.124.111.
5. Enter the administrator's login and password to access the Web Configuration Menu. The default username and password are: admin, admin; you can set language to English or Chinese in the drop-down menu of language.

Figure 48 GVC3200 Web GUI - Login

6. Click "Login" to access the configurations in web UI.

SAVING CHANGES

When changing any settings on the web UI, always submit them by pressing the SAVE button on the bottom of the page, and then clicking the Apply button on the top of the page to apply the configuration changes. For those options with next to it in the Web page, users must reboot the GVC3200 for the changes to take effect.

DEFINITIONS

This section describes the 6 options in the GVC3200 Web GUI. Please view Settings, Maintenance and Status specifications in Administration Guide.

- **Call**
  Users could start video conference and control conference from Web GUI.
- **Contacts**
  Contacts, Schedule, Call History.
- **Device Control**
  Video Control, Audio Control.
- **Settings**
  SIP Account, IPVideoTalk Pro account, Bluejeans account, Network Settings, Peripheral, Call Features, General Settings, Security Settings.
- **Maintenance**
  Upgrade, Recording, Time & Language, Troubleshooting, Reboot.
- **Status**
  Account Status, Peripheral Status, Network Status, System Info and Remote Control.

You can log in as an administrator or a normal user. The following table shows the web pages accessible by normal user and administrator.

Table 20 GVC3200 Web Access

User Type	Username	Default Password	Accessible Web Pages
Normal User	user	123	• Call • Contacts • Device Control • Status • Settings: Network Settings, Peripheral, Security Settings • Maintenance: Recording, Time & Language, Troubleshooting
Administrator	admin	admin	All pages

TOOLBAR

The web UI tool bar is on the upper right corner of the web UI page.

Figure 49 GVC3200 Web UI Tool Bar

- **DND**
  Turn on/off DND mode. Once enabled, the DND text will turn into red and all incoming calls will be rejected.
- **Remote Control**
  Click to bring up virtual remote control panel.
- **English**
  Select the display language for the web UI.
- **Logout**
  Log out from the web UI.

CALL PAGE

GVC3200 Web UI call page is shown below. Users could make calls and initiate conference from Web UI.

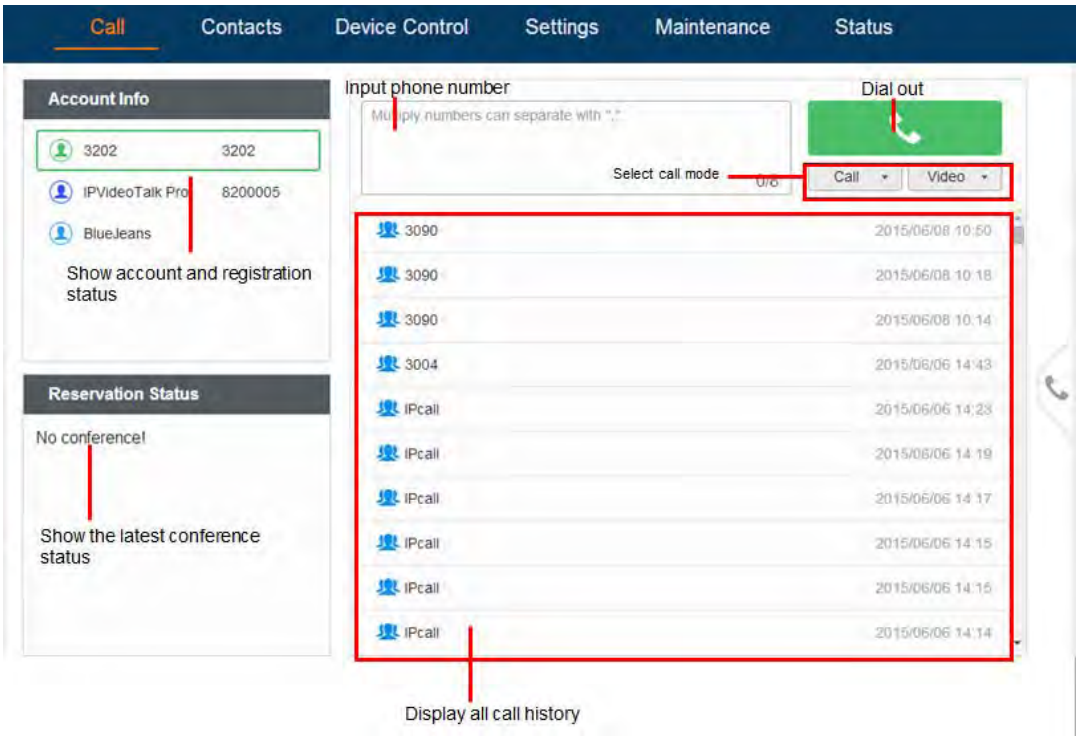

Figure 50 GVC3200 Web UI – Call

MAKING A CALL

Enter phone number in input box and select call mode, tap on to dial out; Or select one call history entry in the list below and click on to dial out.

CONFERENCE CONTROL

When making a new call, initiating a conference or receiving an incoming call, the conference screen will pop up as shown below.

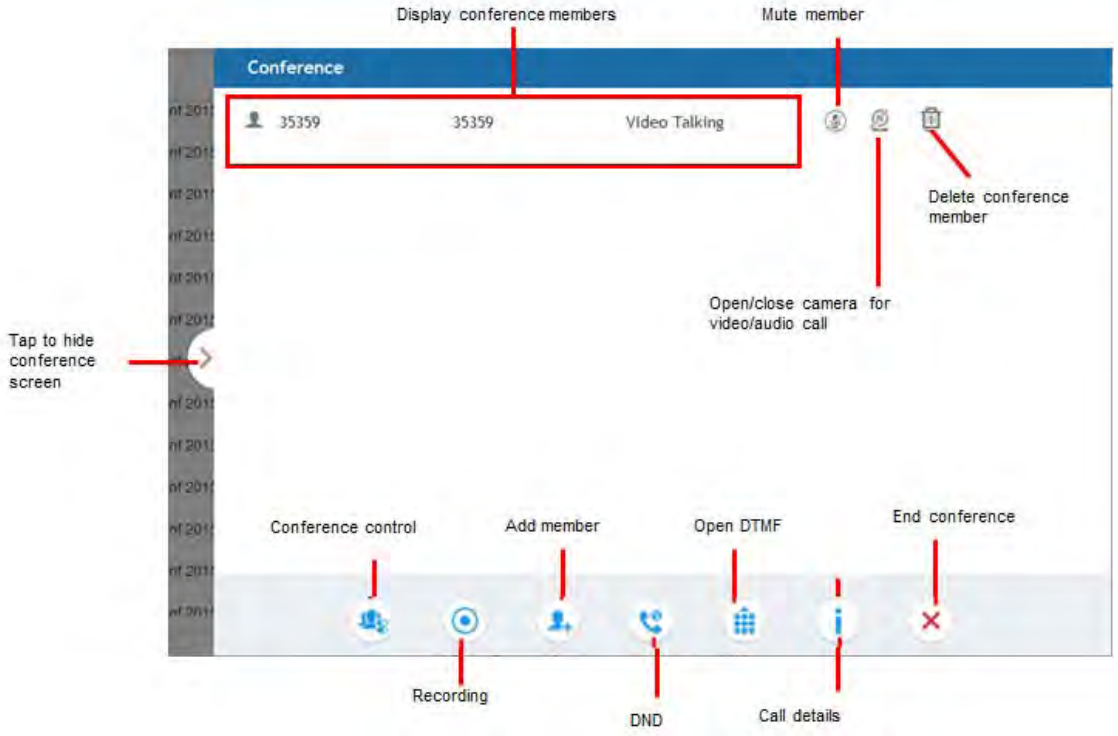

Figure 51 GVC3200 Web UI - Conference Control

CONTACTS PAGE

This pages list Contacts, Schedule and Call History.

CONTACTS

Users could search/add/delete/edit contact on web page. The operations will be synchronized and can be viewed from LCD as well. The web UI contacts page is as shown below.

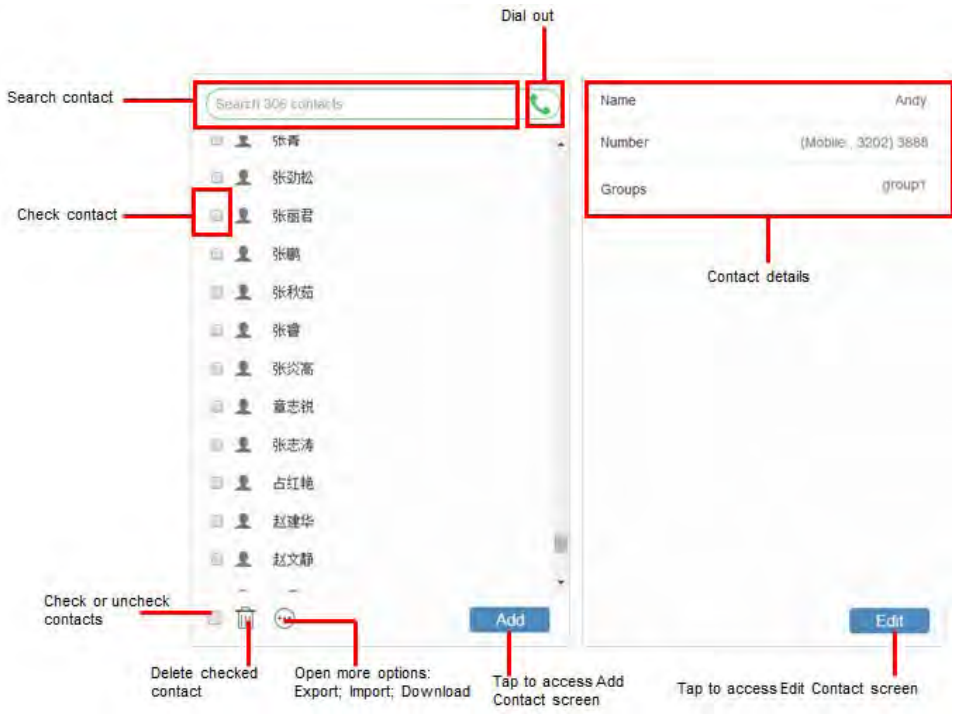

Figure 52 GVC3200 Web UI – Contacts

- Click on next to the contact to dial the contact.
- Click on to open more options like export, import and download contact.
- Select "Import" option and you will find import screen on the right. Refer to chapter ***BATCH IMPORT CONTACTS*** for more details.
- Select "Export" option and you will find export screen on the right. Refer to chapter ***EXPORT CONTACTS*** for more details.
- Select "Download" option and you will find download screen on the right. Refer to chapter ***DOWNLOAD CONTACT*** for more details.
- Click on Add and you will find Add Contact screen on the right. Fill in contact information and save.
- Click on Edit and you will find Edit Contact screen on the right. Edit contact information and save.

GROUPS

GVC3200 supports up 9-way conference. If there are more than 8 conference members, only the first 8 members in the group will be dialed.

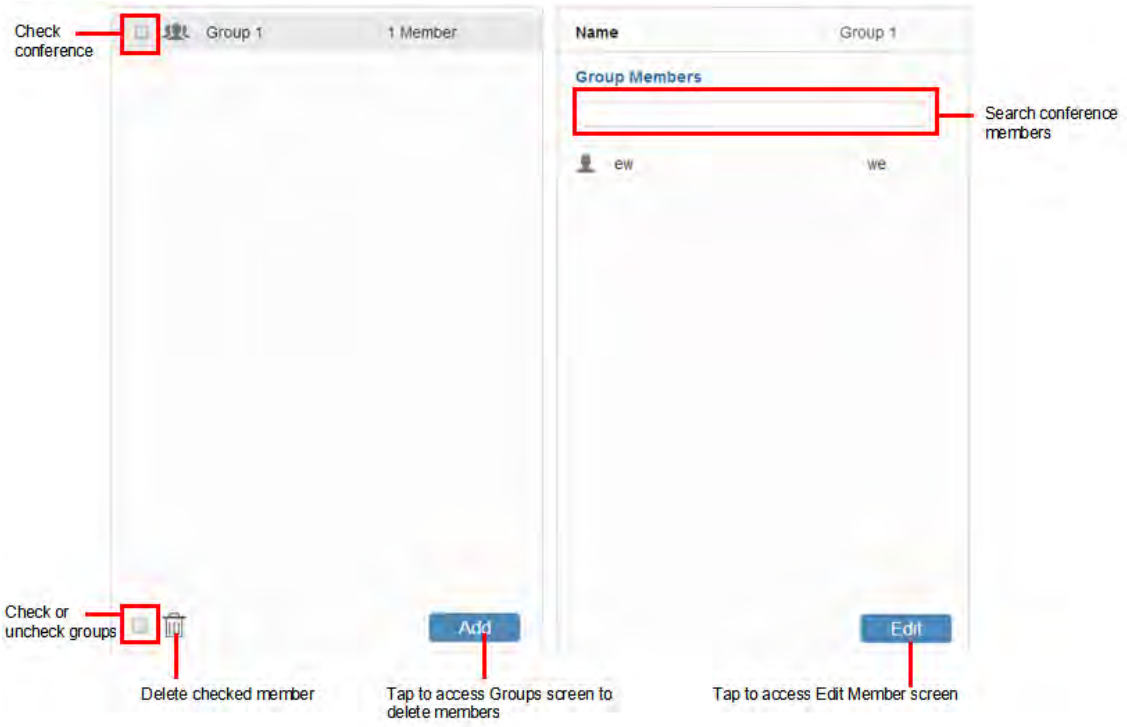

Figure 53 GVC3200 Web UI – Groups

SCHEDULE

Conference can be scheduled, edited and deleted from web UI. Refer to chapter ***SCHEDULE*** for more details.

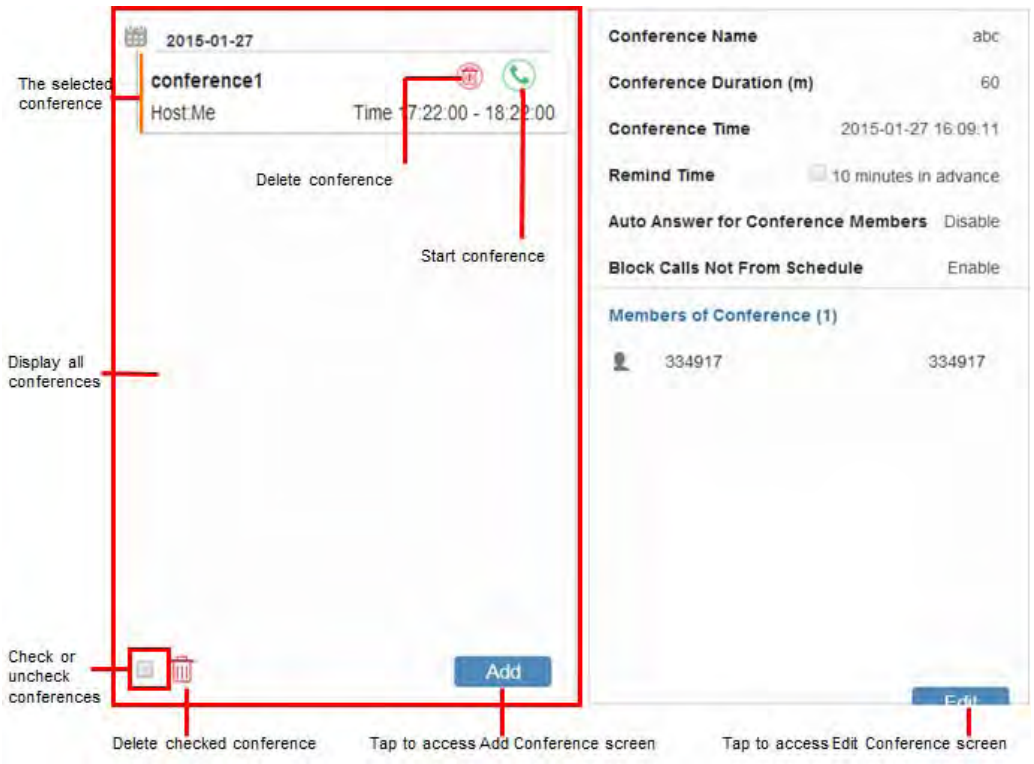

Figure 54 GVC3200 Web Page - Schedule

CALL HISTORY

From web UI, users could also access Call history, which is synchronized with the call history from LCD.

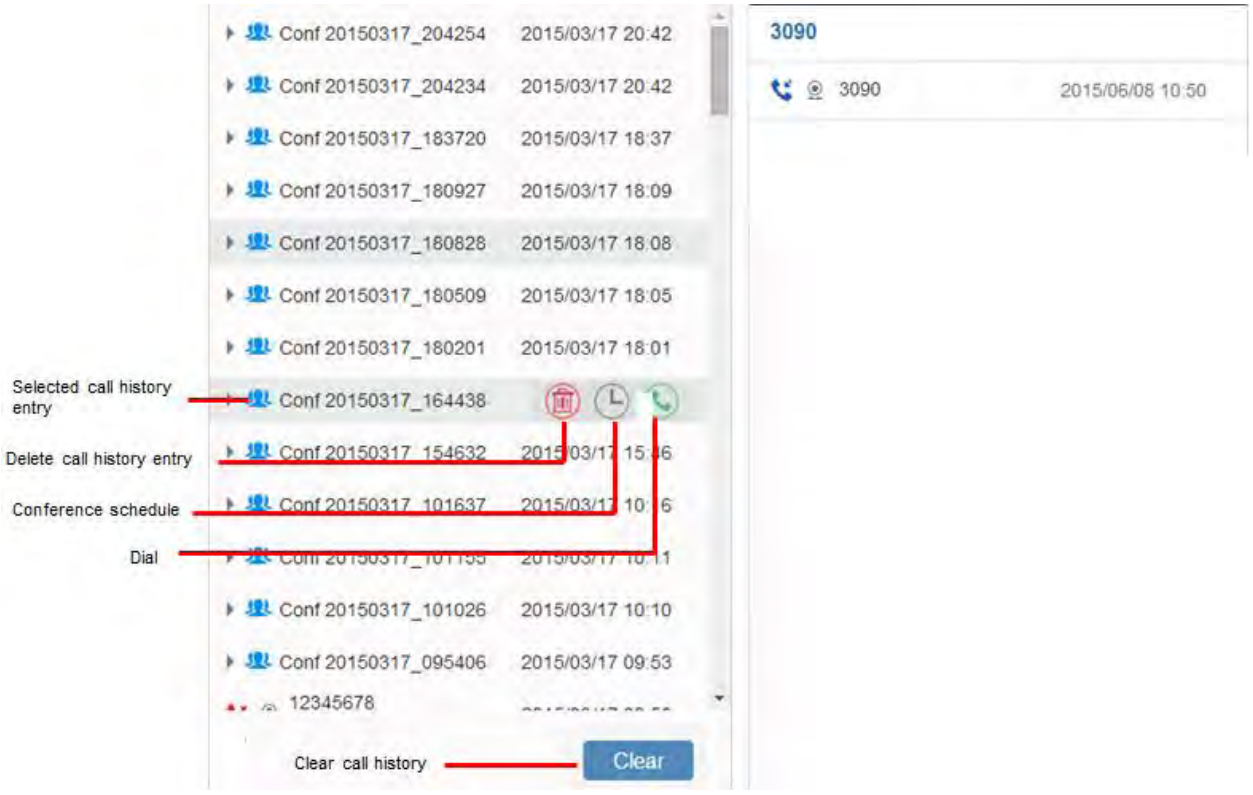

Figure 55 GVC3200 Web UI - Call History

DEVICE CONTROL PAGE

VIDEO CONTROL

Users could add preset and manipulate PTZ control on this page.

- Move the cursor to one configured preset to preview preset.
- Click one preset to apply the preset.
- Click the unconfigured preset and adjust via the PTZ control panel on the right then save.

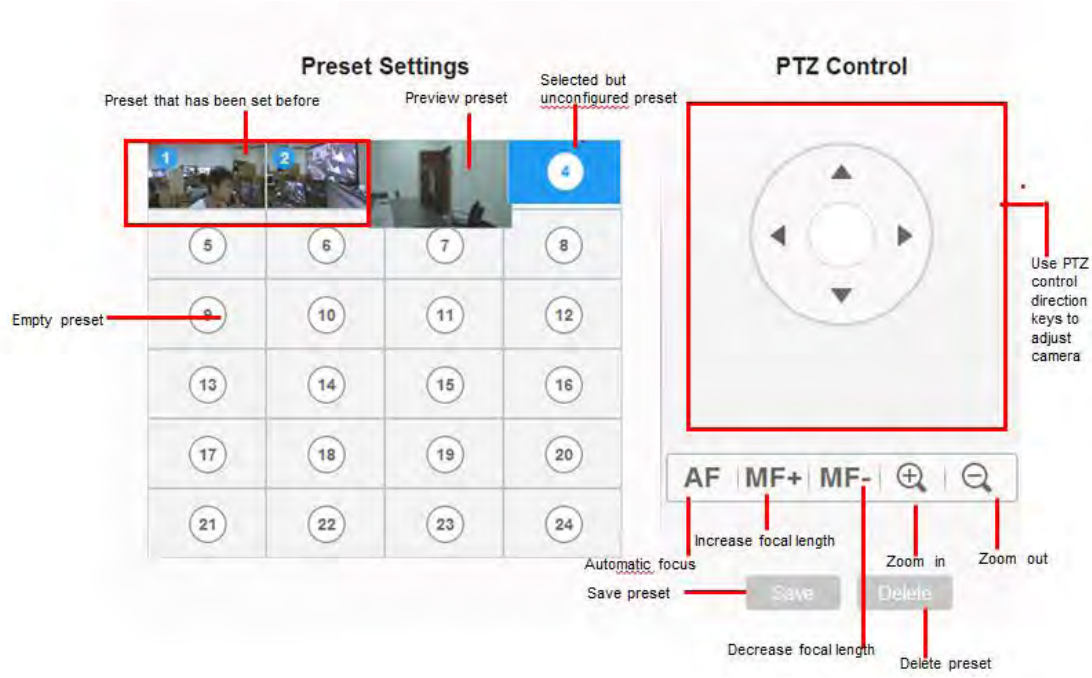

Figure 56 GVC3200 Web UI - Video Control

AUDIO CONTROL

Table 21 GVC3200 Web UI - Audio Control Parameters

Parameters	Descriptions
Ringtone Volume	Users can slide left or right to adjust ringtone volume.
Media Volume	Users can slide left or right to adjust media volume.
Notifications Volume	Users can slide left or right to adjust notifications volume.
Dial Tone	Using these settings, users can configure ring or tone frequencies based on parameters from the local telecom provider. By default, they are set to the North American standard. Frequencies should be configured with known values to avoid uncomfortable high pitch sounds. Syntax: f1=val, f2=val [,c=on1/off1[-on2/off2[-on3/off3]]]; (Frequencies are in Hz and cadence on and off are in 10ms) ON is the period of ringing ("On time" in 'ms') while OFF is the period of silence. In order to set a continuous ring, OFF should be zero. Otherwise it will ring ON ms and a pause of OFF ms and then repeat the pattern. Up to three cadences are supported. The default value: f1=350@-13,f2=350@-13,c=0/0

Ring Back Tone	Users can configure ring back tone before the callee answers the call. The default value: f1=440@-19,f2=480@-19,c=2000/4000.The format and syntax are the same as Dial Tone.
Busy Tone	Users can configure ring or tone frequencies when the caller failed to dial out. The default value: f1=480@-24,f2=620@-24,c=500/500.The setting mode is the same as Dial Tone.
Reorder Tone	Users can configure ring or tone frequencies when the caller failed to dial out and unable to establish the call. The default value: f1=480@-24,f2=620@-24,c=250/250.The format and syntax are the same as Dial Tone.
Confirmation Tone	Users can configure ring or tone frequencies for caller when the callee enabled call recording function or when the SIP account fails to register. The default value: f1=350@-11,f2=440@-11,c=100/100-100/100-100/100. The format and syntax are the same as Dial Tone.
Call-Waiting Tone	Users can configure ring or tone frequencies when there is another incoming call during the call. The default value: f1=440@-13,c=300/2000-300/2000-0/0t. The format and syntax are the same as Dial Tone.
Call-Waiting Tone Gain	This configures the call-waiting tone gain. By default, they are set to the North American standard. Users could adjust the tone frequencies based on parameters from the local telecom provider. Users could select "Low", "Medium" or "High". The default setting is "Low".

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EXPERIENCING GVC3200

Please visit our website: http://www.grandstream.com to receive the most up-to-date updates on firmware releases, additional features, FAQs, documentation and news on new products.

We encourage you to browse our product related documentation, FAQs and User and Developer Forum for answers to your general questions. If you have purchased our products through a Grandstream Certified Partner or Reseller, please contact them directly for immediate support.

Our technical support staff is trained and ready to answer all of your questions. Contact a technical support member or submit a trouble ticket online to receive in-depth support.

Thank you again for purchasing Grandstream Video Conferencing System, it will be sure to bring convenience and color to both your business and personal life.

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