

# Grandstream Networks, Inc.

GVC3200/GVC3202 Video Conference System for Android<sup>™</sup>

User Guide







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# **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 guide, could void your manufacturer warranty.

# WARNING

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





# **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  $5.15 \sim 5.25$ GHz /  $5.47 \sim 5.725$ GHz 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.





# **GNU GPL INFORMATION**

GVC3200/GVC3202 firmware contains third-party software licensed under the GNU General Public License (GPL). Grandstream uses software under the specific terms of the GPL. Please see the GNU General Public License (GPL) for the exact terms and conditions of the license.

Grandstream GNU GPL related source code can be downloaded from Grandstream Web site from: <a href="http://www.grandstream.com/sites/default/files/Resources/gvc32xx-gpl.tar.gz">http://www.grandstream.com/sites/default/files/Resources/gvc32xx-gpl.tar.gz</a>





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# **DOCUMENT PURPOSE**

This User Guide describes the basic concept and tasks necessary to use and configure your GVC3200/GVC3202. This document covers the topics of device installation, making basic conference calls and using basic call features.

To learn the advanced features and configurations, please visit <u>http://www.grandstream.com/support</u> to download the latest "GVC3200/GVC3202 Administration Guide".

This guide covers following topics:

- Product Overview
- Installing GVC3200/GVC3202
- Getting to know GVC3200/GVC3202
- Connecting to Network and Devices
- <u>Camera</u>
- Peripheral
- Making Phone Calls
- Additional Functions
- <u>Applications</u>
- GS Market
- IPVideoTalk
- GVC3200/GVC3202 Web UI Features
- Factory Reset
- Experiencing GVC3200/GVC3202





# **CHANGE LOG**

This section documents significant changes from previous versions of GVC3200/GVC3202 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 1.0.1.74

- Added support to join an IPVideoTalk meeting by dialing meeting ID or host IPVideoTalk ID.[Join an IPVideoTalk Meeting]
- Added prompt message for current IPVideoTalk plan is about to expire or already expired on GVC3200/GVC3202 LCD home screen or menu -> Applications -> IPVideoTalk application -> Notices.[Notices]
- Updated size limitation of each recording file size from 1 G to 1.9 G. [Recording].
- Added support specific failed reasons prompt on dialing screen instead of SIP 486 busy error messages of IPVideoTalk calls [Busy Tone Responses]
- Added A tip for manually starting local scheduled IPVideoTalk meeting from GVC3200/GVC3202 LCD
   -> Schedule page [Manually Start IPVideoTalk Tip]

# **Firmware Version 1.0.1.65**

- Added ability to choose any configured preset as initial position in the drop-down menu in addition to "Default" and "Latest Position". [Initial Position]
- Added an icon to indicate network unstable condition on the upper left of the call screen, which means current network condition is not good enough for the video call using the selected resolution/bit rate. [Status lcons]
- Added "Record" option on the call screen bottom menu. [GVC3200/GVC3202 Call Screen Bottom Menu lcons]
- Updated the default configurations for Call Recording feature. [Call Recording]
- Added support to record presentation shared by GVC3200/GVC3202 and IPVideoTalk WebRTC clients. [Conference Recording]
- Added recording files limitation that max size of each recording file on SD card or USB storage device is 1 G, GVC3200/GVC3202 will create a new file if size exceed 1 G. [recording size ]
- Added Save Path options of Recording files on internal memory, external SD card or USB storage. [Save Path]
- Added video answer and audio answer options on GVC3200/GVC3202 to answer H.323 calls.[H.323]
- Updated the default configurations for IPVideoTalk Contacts. [Contacts]
- Added GVC3200/GVC3202 version control mechanism that IPVideoTalk account will work only if the firmware version is on 1.0.1.62 or later, and IPVideoTalk version information is under Settings.[IPVideoTalk version]





### Firmware Version 1.0.1.58

- Added feature code. [Call Features]
- Added ability to view top status bar notifications. [Status Icons] [Figure 7: GVC3200/GVC3202 Top Status Bar Dropdown Menu]
- Added "optional" for step 2 "selecting call mode to IP Call" in making direct IP call from LCD dialing interface. The GVC3200/GVC3202 can dial direct IP as long as a valid format is entered without selecting mode to "IP Call". [Direct IP Call]
- Added presentation mode "PC" and "Auto". [Table 16: GVC3200/GVC3202 Call Screen Bottom Menu lcons]
- Added "Layout" option in the call screen bottom menu. [Table 16: GVC3200/GVC3202 Call Screen Bottom Menu Icons]
- Added video mixing feature for Skype downloaded from GS Market. [For Skype application downloaded from GS Market only]
- Added "View contact" option in the GVC3200/GVC3202 menu->Applications->Call History so that users can view contact details if the call history entry already exists in Contacts. [View contact]
- Added Screen Lock feature. [Screen Lock]
- Added support to sync local schedule with Google Calendar. [Sync Local Schedule with Google Calendar]

### Firmware Version 1.0.1.48

- Separated Add Preset section and Edit Preset section. Edit Preset section has rename preset information added. [Add Preset] [Edit Preset]
- Added PIN Code support during conference. [PIN Code]
- Added FECC support during conference. [FECC Camera Control in Conference]
- Added LDAP contacts support. [LDAP contacts]
- Added options "PIN Code", "Auto Join Conference for Scheduled Members without PIN Code" and "Repeat" for Schedule. Removed options "Auto Answer for Conference Members" and "Lock" for Schedule. [Schedule]
- Added IPVideoTalk Application. [IPVIDEOTALK]
- Updated Audio Priority information for connected audio devices. [Microphone and Speaker]

# **Firmware Version 1.0.1.5**

• This is the initial version.





# WELCOME

Thank you for purchasing Grandstream GVC3200/GVC3202 Android<sup>™</sup> Video Conferencing System. This document introduces the LCD settings, web UI settings and advanced configurations of GVC3200/GVC3202. To learn the basic configuration and how to use GVC3200/GVC3202, please visit <u>http://www.grandstream.com/support</u> to download the latest "GVC3200/GVC3202 User Guide".

GVC3200/GVC3202 is a ground-breaking solution that offers small-to-medium businesses a revolutionary video conferencing system with unprecedented flexibility and the power of support for multiple popular video conferencing protocols and platforms right out of the box. The SIP-based GVC3200/GVC3202 supports Grandstream's robust IPVideoTalk 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 is based on Android<sup>™</sup> 4.4, the GVC3200/GVC3202 offers full access to all video conferencing apps in the Google Play<sup>™</sup> Store.

The GVC3200/GVC3202 sports an innovative, patent-pending embedded MCU that supports conferencing with local mixing between SIP, H.323 and Android applications (e.g. Skype, Google Hangouts):

- The GVC3200 supports 9-way conferencing with local mixing between SIP, H.323 and Android applications (e.g. Skype, Google Hangouts).
- The GVC3202 supports 3-way conferencing with local mixing between SIP, H.323 and Android applications (e.g. Skype, Google Hangouts).

In comparison to Grandstream's GVC3200, the GVC3202 offers a slightly lower capacity option for businesses looking for up to 3-way video-conferencing and support for up to 2 Full HD monitors.

The GVC3200/GVC3202 eliminates the traditional barriers to video conferencing and sets a new bar for business-class video conferencing solutions by offering industry-leading flexibility, interoperability, system compatibility, application richness and ease of use.





# **PRODUCT OVERVIEW**

Table 1: GVC3200/GVC3202 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, TR-069, 802.1x, TLS, SRTP, TCP/IP/UDP, IPv6, FEC, FECC, H.323, Q.931, H.224, H.281, H.225.0, H.239, H.241, H.245, H.460.18 and H.460.19
Camera	1/3" 2 Megapixel CMOS 1920H x 1080V@30fps
Lens	GVC3200: 12 x optical zoom, +/-23° tilt, +/- 90° pan, 70°(W)*- 6.3° (T) field of view GVC3202: 9 x optical zoom, +/-23° tilt, +/- 90° pan, 70°(W)*- 6.3° (T) field of view
Network Interface	1 x RJ45 10/ 100/ 1000 Mbps port
Wi-Fi	GVC3200 only: Integrated dual-band 802.11 a/b/g/n (2.4GHz & 5GHz)
Bluetooth	Yes, integrated. Bluetooth 4.0 + EDR
Video Outputs	GVC3200: 3 x HDMI up to 1080p with CEC GVC3202: 2 x HDMI up to 1080p with CEC
Video Input	1 x VGA/1 x HDMI 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	1 x 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, 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, 1600×1200, 1080p (HDMI), up to 60fps; Encoding: 1280×720, 1920×1080
Output Resolution	720р, 1080р
Embedded MCU	GVC3200: Up to 4-way 1080p conference, 5-way 720p conference, 9-way VGA conference GVC3202: Up to 2-way 1080p conference, 3-way 720p conference, 3-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 for GVC3200 and 3-way audio/video conference for GVC3202, downloadable XML phone book, LDAP, 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	<ul> <li>- GVC3200:</li> <li>GVC3200 video conference system, external USB speaker/MIC (GAC2500), remote control, universal power supply, network cable (1.5 meters), USB extension cable (5 meters), mounting kit, 4 HDMI cables (one 1.5-meter cable, two 3-meter cables and one 5-meter cable), 2 AAA batteries, lens cover, quick installation guide, brochure, GPL license</li> <li>- GVC3202:</li> <li>GVC3202 video conference system, external USB speaker/MIC (GAC2500), remote control, universal power supply, network cable (1.5 meters), USB extension cable (5</li> </ul>
	meters), mounting kit, 3 HDMI cables (one 1.5-meter cable, one 3-meter cables and one 5-meter cable), 2 AAA batteries, lens cover, 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**

GVC3200/GVC3202 complies with FCC/CE and various safety standards. GVC3200/GVC3202 power adapter is compliant with the UL standard. Use the universal power adapter provided with GVC3200/GVC3202 package only. The manufacturer's warranty does not cover damages to the device caused by unsupported power adapters.

### Warranty

If GVC3200/GVC3202 is purchased from a reseller, please contact the company where the device is purchased for replacement, repair or refund. If the device 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.





# INSTALLING GVC3200/GVC3202

# **Equipment Package Content**

GVC3200/GVC3202 package contains the following items:

#### Table 2: GVC3200/GVC3202 Package List

	a a a a a a a a a a a a a a a a a a a	
Name	For GVC3200	For GVC3202
GVC3200/GVC3202 Main Case	1	1
External USB Speakerphone (GAC2500)	1	1
Remote Control (a pair of AAA batteries)	1	1
12V Universal Power Adapter with power cable	1	1
1.5m Ethernet Cable	1	1
5m USB Extension Cable	1	1
1.5m HDMI Cable	1	1
3m HDMI Cable	2	1
5m HDMI Cable	1	1
Wall Mount Kit, including: Top bracket Bottom bracket Hook & Loop tape	1	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	12
Lens Cover	1	1
Lens Cleaning Cloth	1	1
Quick Installation Guide	1	1
GPL license	1	1





# Connecting GVC3200/GVC3202

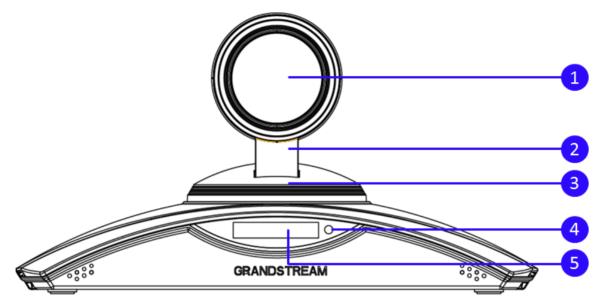


Figure 1: GVC3200/GVC3202 Front Panel

#### Table 3: GVC3200/GVC3202 Front Panel

NO.	Name	Explanation
1	Camera	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 shows device status.





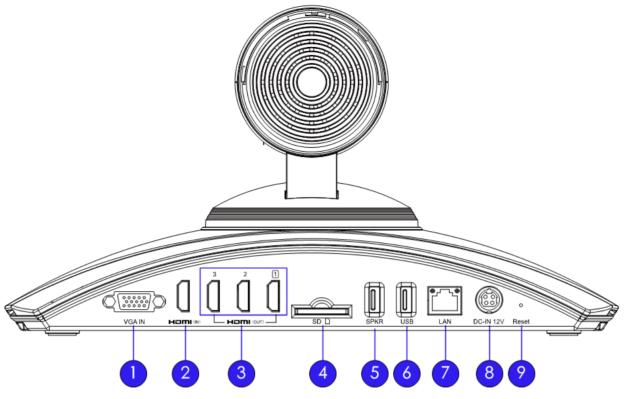


Figure 2: GVC3200 Back Panel

#### 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 interfaces are connected.
3	HDMI Output Interface	Connect to HDMI display devices. <b>Note:</b> 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 has to use HDMI output 1. Connect HDMI port 2 and then HDMI port 3 if you have additional display devices. 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	<ul> <li>When GVC3200 is powered up, use a small pin to press the button one time to reboot.</li> <li>When powering up GVC3200, keep pressing the button with a small pin for more than 10 seconds to restore to factory settings.</li> </ul>

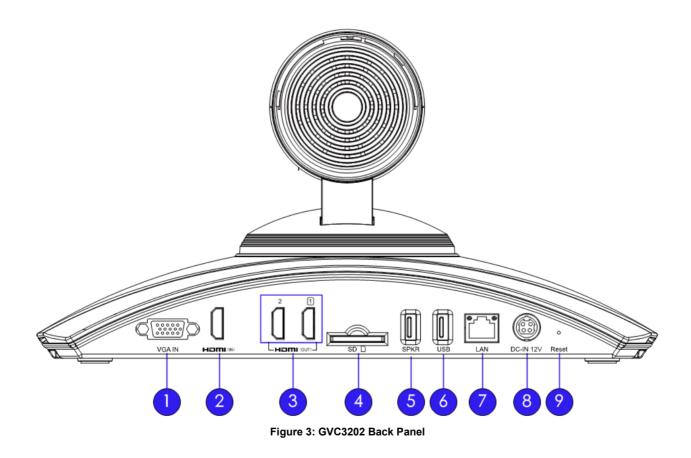


Table 5: GVC3202 Back Panel





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 interfaces are connected.
3	HDMI Output Interface	Connect to HDMI display devices. <b>Note:</b> There are 2 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 and 2. When there is only 1 HDMI output, it has to use HDMI output 1. Connect HDMI port 2 if you have an additional display device. GVC3202 will not work correctly if connecting HDMI port 2 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	<ul> <li>When GVC3202 is powered up, use a small pin to press the button one time to reboot.</li> <li>When powering up GVC3202, keep pressing the button with a small pin for more than 10 seconds to restore to factory settings.</li> </ul>

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





Device Name	Number	Explanation
HDMI Display Device	1 (minimum), 2 or 3 (supported on GVC3200)	To display video conference view, for example, high definition TV. The HDMI display device is connected to HDMI output interface 1/2 for GVC3202 or 1/2/3 for GVC3200.
VGA Input	Optional	For presentation
HDMI Input	Optional	For presentation If both HDMI input and VGA input are plugged in, HDMI input has higher priority, it means VGA input will not be displayed.
USB Mouse	Optional	It can be used to help navigate and operate the GVC3200/GVC3202 besides using 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 GVC3200/GVC3202 besides using remote control. For example, typing in username and password to log in Skype app installed on GVC3200/GVC3202.

#### Table 6: GVC3200/GVC3202 Optional Equipment List

Please connect GVC3200/GVC3202 according to the following procedures:

- 1. Connect the primary video output device (e.g., high-definition TV) to HDMI output interface 1 on GVC3200/GVC3202 with HDMI cable.
- 2. (Optional) Connect additional video output devices to HDMI output interface 2 and HDMI output interface 3 (supported on GVC3200) with HDMI cable.
- 3. Connect input device (e.g., a laptop or GXV3275) to GVC3200/GVC3202 VGA IN/HDMI IN port with VGA/HDMI cable.
- 4. Connect the external speakerphone GAC2500 to the USB speaker interface on GVC3200/GVC3202.
- 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 to power up GVC3200/GVC3202.







For detailed instructions about installing GVC3200/GVC3202 on wall mount and etc., please refer to the GVC3200/GVC3202 quick installation guide on <u>www.grandstream.com</u>.

A sample of GVC3200 back panel connection is shown below:

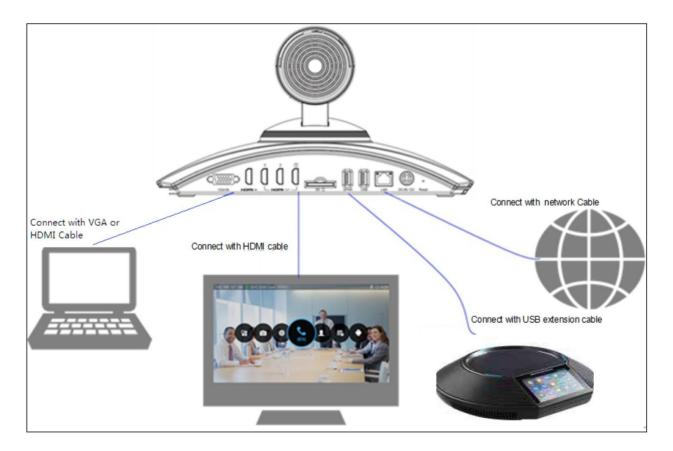


Figure 4: GVC3200 Back Panel Connection Diagram

The following figure shows multiple GVC3200/GVC3202 devices deployed with other VoIP/network devices for video conference and collaboration.





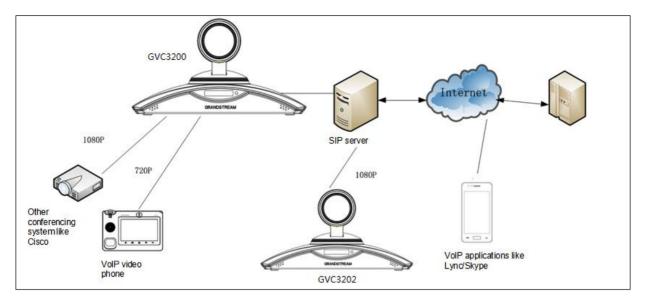


Figure 5: Deploy GVC3200/GVC3202 with Other Devices

# Connecting GAC2500 to GVC3200/GVC3202

GAC2500 is included in GVC3200/GVC3202 package to be used as the external speaker. There are two ways to connect the GAC2500 to GVC3200/GVC3202.

### Via USB Connection

The GAC2500 comes with a micro-USB cable. The cable should be connected between SPKR port on GVC3200/GVC3202 and Micro-USB port on GAC2500. Once connected successful, the GAC2500 will change to speaker mode, only display volume adjustment, mute, call, hang up and etc.

### • Via Bluetooth Connection

- 1. On GAC2500, go to LCD menu->Settings->Bluetooth, turn on Bluetooth. Then tap on "Bluetooth settings" and tap on the GAC2500 device on the top to make it visible.
- On GVC3200/GVC3202, Bluetooth is turned on by default. Go to the GVC3200/GVC3202 LCD menu->Network->Bluetooth, click on the MENU button = and select "Search for Devices". GAC2500 will be displayed under "Available Devices" list. Click on this GAC2500 to initiate pairing process.
- 3. On both GVC3200/GVC3202 and GAC2500, a prompt will pop up for the user to confirm PIN. Click on "Pair" to confirm it on both devices.
- 4. On GAC2500 LCD menu->Settings->Bluetooth->Bluetooth settings, make sure "Enable headset mode" is turned on.
- On GVC3200/GVC3202 LCD menu->Settings->Bluetooth->Paired Devices, if the GAC2500 is displayed there but not shown as "Connected", click on this GAC2500 there to complete connection process.





6. The GAC2500 and GVC3200/GVC3202 should be successfully paired and connected. GAC2500 can be used as Bluetooth speaker device for the GVC3200/GVC3202 now.

For more information about GAC2500, please refer to the GAC2500 product page in www.grandstream.com.

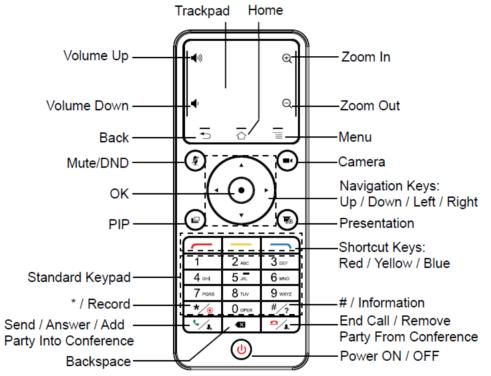




# GETTING TO KNOW GVC3200/GVC3202

### **Remote Control**

### **Remote Control Keys and Touchpad**



#### Figure 6: GVC3200/GVC3202 Remote Control

lcon	Name	Explanation
1, 2, 3, 49	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 contacts in Call interface. For example, typing 5 (JKL), 6 (MNO), 4 (GHI), 6 (MNO) can look for John if it exists in GVC3200/GVC3202 contacts list.
	Camera	Switch to PTZ control mode during a call or in idle status.
L	PIP	Switch screen layout in conference.





¥	Mute/DND	<ul> <li>Mute GVC3200/GVC3202 in conference.</li> <li>Press the MUTE key to enable/disable DND mode when</li> </ul>
		GVC3200/GVC3202 is in idle.
		• Enable/Disable presentation function to send presentation to all members in the conference.
To	Presentation	<ul> <li>Enable/Disable presentation function to show presentation on displayed device which is connected to HDMI output 1 as projection when GVC3200/GVC3202 is in standby mode.</li> </ul>
		<ul> <li>Access the dial screen by default when GVC3200/GVC3202 is in idle mode.</li> </ul>
¢. /	Send/Answer/Add	• Enter phone number and press the key to dial out.
♥∕ ₽₊	Party Into Conference	• Access the invite screen to add members in a conference.
		• Press the key to bring out the backstage conference.
		Press the key to redial the last outgoing call.
<u>•</u> /*	End Call/Remove Party From Conference	<ul><li>Delete members in conference.</li><li>Hang up the conference.</li></ul>
×	Backspace	Press the key to delete input characters.
	Navigation Keys: Up/Down/Left/Right	<ul> <li>Press to adjust cursor movement.</li> <li>Control PTZ movement in camera mode.</li> </ul>
$\checkmark$		Control F 12 movement in camera mode.
•	ОК	Press to confirm operations.
$\bigcirc$		• Bring up the soft keypad when the cursor is in an input box.
		LCD prompt shows the following three options after pressing this key:
ባ	Power On/Off	<ul> <li>Switch GVC3200/GVC3202 into sleep mode.</li> <li>Power Off</li> <li>Reboot</li> </ul>





		Input * in input field.
		• Used as "." when dialing direct IP call.
* 👝	*/Record	For example, 192.168.40.5.
		Start/stop recording in camera control mode.
		Start/stop recording in a call.
		Input "#" in input field.
		• Used as ":" when dialing direct IP Cal
#⁄?	#/Details	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	
	Shortcut Key: Yellow	Press each shortcut key for designated functions on different screen context.
_	Shortcut Key: Blue	
	Home	Press the key to go back to home screen.
Ξ	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.
Q	Zoom Out	Zoom out screen or adjust distant focus.
		• Slide on the trackpad to move the mouse cursor.
Trackpad		Press the trackpad to confirm operations.
		• Using two fingers to press on the trackpad and slide up/down for page up/down.





#### **Capturing Screenshot Using the Remote Control**

To capture a screenshot on GVC3200/GVC3202, the users can press the red shortcut key — and blue shortcut key — at the same time for about 3 seconds. The screenshot picture will be saved in the internal storage of GVC3200/GVC3202. The users can access the screenshot in GVC3200/GVC3202 LCD menu->Applications->File Manager->Internal Storage->Pictures->Screenshot.

Please note the screenshot captured here doesn't have the image captured from the camera in the background. If you would like the image captured from camera, you can press the CAMERA button on the remote control and then press the blue shortcut key.

#### Using The Remote Control

GVC3200/GVC3202 remote control is connected to GVC3200/GVC3202 via Bluetooth, and it's already prepaired when the user receives GVC3200/GVC3202 packages. Before using the remote control, please make sure:

- 1. A pair of AAA batteries are 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 GVC3200/GVC3202.

After powering up GVC3200/GVC3202, pressing "OK" key on the remote control, it will initiate connection and the remote control can be used right away.

If the remote control fails to pair and connect to GVC3200/GVC3202, 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 GVC3200/GVC3202 remote control still does not work with the diagnosis above, please try another remote control or contact the device provider.

### Using Mouse & Keyboard

When the USB mouse is plugged into GVC3200/GVC3202, users could make the following operations with the mouse.

• 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



Double left click on the soft keyboard can switch to "Always use upper case" in English input method.

• Single click the right key of the USB mouse to exit the current displayed menu. It will go back to the previous menu without saving the configurations.

### **OLED Screen**

OLED Screen Status	Descriptions	
Booting	Display "BOOTING " when GVC3200/GVC3202 boots up.	
IP	Display GVC3200/GVC3202 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	<ul> <li>Display "New Version" when a new firmware version is detected.</li> <li>Display "Upgrading" in the process of upgrading.</li> <li>Display failure reason when upgrade fails. For example, "Incompatible Hardware", "Insufficient Space", "Same Version", etc.</li> </ul>	
Sleep Mode	When the device is in sleep mode, the OLED shows "Standby".	
Abnormal Status	It is used to display abnormal status information. The hexadecimal error code will be displayed next to the abnormal status.	

#### Table 8: GVC3200/GVC3202 OLED Screen Status Descriptions

# **Using The LED Indicator**

GVC3200/GVC3202 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 9: GVC3200/GVC3202 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**

GVC3200/GVC3202 status icons are displayed on the right side of top status bar on GVC3200/GVC3202 LCD display device. The users can view the top status bar notification details in drop-down panel by long-pressing the MENU key on the GVC remote control or pressing DOWN button when the GVC3200/GVC3202 is in home screen.

192.168.40.86 <a> 675 (675)</a> <b>1</b> Notices				Delete	♦) 📮 🗟 🕂 1 — Clear all 🔷 Details		
۹٥							17:20
Voice Mail You have new voice m	nail.						

Figure 7: GVC3200/GVC3202 Top Status Bar Dropdown Menu

For some notifications such as Voice Mail, the users can use the GVC remote control trackpad to select it. It will navigate the users to the corresponding app.

The following table lists the main status icons used on GVC3200/GVC3202.

Table 10: GVC3200/GVC3202 Status Icons Descriptions





lcon	Descriptions	lcon	Descriptions	lcon	Descriptions	
<b>%</b>	Missed Call	<b>\$</b>	Ongoing call	۹	Auto answer is enabled	
$\odot$	Ethernet is connected	×	Ethernet is disconnected	$\odot$	Trying to connect to the Ethernet	
밀그	PPPoE is connected		PPPoE connection is failed	모그	PPPoE is disconnected	
VLAN	VLAN is successfully configured	VLAN	VLAN is being configured	<u>00</u>	Unread voicemail	
VPN	VPN is connected	VPN	VPN connection is failed	міх	Using third party applications for mixing calls	
*	Bluetooth is connected	Θ	DND mode is enabled	E)	Remote control Low battery	
<u>ت</u>	Remote control is connected and paired	Ŭ.	Remote control is paired but not connected		Remote control is not connected and paired	
	SD Card is inserted		USB flash drive is inserted	<b>∢</b> »	Speaker is being used	
	Call recording storage is full	-▲	Contacts storage is full		SD card storage is full	
(((•	Wi-Fi is connected.	() X	Wi-Fi is disconnected	∢×	Volume is turned to silent	
<b>C</b> +C	Call forward is set up	Wi-Fi s	signal strength	(î?)	Unknown Wi-Fi	

# **Using The Onscreen Keyboard**

# **English Keyboard**

This is the default keyboard on GVC3200/GVC3202. The English keyboard supports multiple languages

input methods. Users could tap on

to switch among different languages. See figure below.

q	2 W	е В	4 ľ	t	<sup>6</sup> У	u 7	8	9 0	<b>P</b>	42
а	s	d	f	g	h	j	k	-		Next
¢	z	x	с	v	b	n	m	!	?	¢
?123		/								٢

Figure 8: Soft Keyboard - English Input Method





Tap on to switch CapsLock:

Q	<b>W</b> 2	E	R	T	Y	U <sup>7</sup>	8	9	Ρ	43
A	S	D	F	G	н	J	к	L		Next
•	Z	х	С	v	В	Ν	М	!	?	•
?123		/								

Figure 9: English Input Method – Capslock

### **Numbers and Symbols**

To input	numbers		nbols, tap	on but	?1 ton	23 on	the defa	ault keyt	ooard to	switch to
numbers/s	symbols. 7	Гар on	~ \ { for r	nore num	ibers/syn	nbols.				
1	2	3	4	5	6	7	8	9	0	×
@	) #	\$	%	&	•	+	(	)		←
~ [ <	١	=	*	"	'	:	;	!	?	~ [ <
ABC	-	/						,		۲

Figure 10: Soft Keyboard - Symbols and Numbers

~	•	1	•	√	П	÷	×	٩	Δ	×
£	¢	€	¥	^	o	-	: {	}		<b>↓</b>
?123	λ	©	ß	тм	%	I	1	i	ż	?123
ABC	<	>						,	•	٢

Figure 11: Soft Keyboard - More Symbols and Numbers

## **Home Screen**

GVC3200/GVC3202 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 GVC3200/GVC3202 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 OK button on the GVC3200/GVC3202 remote control to bring up the icons to display again.

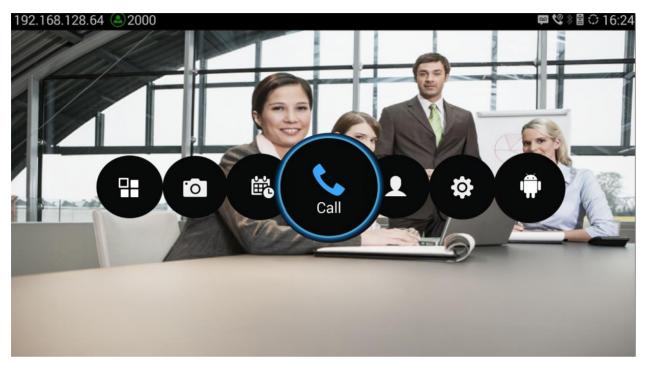


Figure 12: GVC3200/GVC3202 Home Screen

# **Screen Lock**

The GVC3200/GVC3202 supports screen lock. When it's enabled and configured, the user will be required to enter the lock code to unlock on the home screen.

To use this feature:

- 1. On GVC3200/GVC3202 LCD menu->Settings->System->Security, select Screen Lock and set Screen Lock code.
- 2. Reboot, enter sleep mode or power off the GVC3200/GVC3202.
- 3. When the GVC3200/GVC3202 boots up again, a screen lock code will be required. The user can unlock the screen by entering the code using the GVC remote control.





# **CONNECTING TO NETWORK AND DEVICES**

GVC3200/GVC3202 supports a variety of network connections (Ethernet, Wi-Fi) and device connections, including USB, SD card and Bluetooth devices. When the GVC3200/GVC3202 boots up for the first time, a setup wizard will guide the users to pair and connect the remote control to GVC3200/GVC3202 and get started with the basic configurations.

# Ethernet

If the user would like to use Ethernet connection for network access, please plug the Ethernet cable into the LAN port on the back of GVC3200/GVC3202. Ethernet connection is turned on as DHCP by default.

To configure Ethernet settings on GVC3200/GVC3202:

- 1. Plug the Ethernet cable into the LAN port on the back of GVC3200/GVC3202.
- 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 GVC3200/GVC3202 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 GVC3200/GVC3202 to correctly connect to the network.
  - For PPPoE, enter PPPoE account ID and password so that GVC3200/GVC3202 can get IP address from the PPPoE server.

# WI-FI (GVC3200 Only)

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





0 IP 🖲 1000919		<b>∢</b> » ∦ 📓 🖘 17
Ø Network		
	Wi-Fi	
	Select	
Wi-Fi	Signal Excellent	
	ASUS_ Password	<u></u>
	TP-LIN (31520224) V Show password	
	DSITIG Show advanced options	( <b>?</b> •
	NETGE AND Cancel Connect	
	AdminIT Secured with WPA/WPA2	
	A A B Secured with WRA2 (WRS available)	

Figure 13: GVC3200 Add Wi-Fi Screen

### **Turning WI-FI On / 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 under 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 GVC3200 to correctly connect to the network.

## Bluetooth

On GVC3200/GVC3202, Bluetooth is enabled by default. Users could connect Bluetooth by remote control, send or receive files to cellphone, or use Bluetooth speaker and etc on GVC3200/GVC3202.





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### Pairing GVC3200/GVC3202 with a Bluetooth Device

Before connecting GVC3200/GVC3202 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  $\equiv$  button on the remote control and select "Search for devices".
- 3. GVC3200/GVC3202 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 contact with the device administrator to obtain the passcode.



The external speaker provided with GVC3200/GVC3202 is not pre-paired to GVC3200/GVC3202. If the user would like to use external speaker via Bluetooth connection with GVC3200/GVC3202, the user must pair and connect it to GVC3200/GVC3202 manually before using it for audio output.

#### **Connecting to a Bluetooth Device**

\_\_\_\_\_

After pairing successfully, the device will be connected to GVC3200/GVC3202 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.





NO IP 🖲 1000919		<b>∢</b> »∦∰ 🕱 17:44				
🕲 Advanced I	Bluetooth					
Bluetooth Devic 🕨	Rename					
	GS-RCU					
	Unpair					
	Profile Settings					
	L Input device connected to input device	<ul> <li>Image: A set of the set of the</li></ul>				

Figure 14: GVC3200/GVC3202 Bluetooth - Paired Device

If the connection is lost between the Bluetooth device and GVC3200/GVC3202, 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 GVC3200/GVC3202 Bluetooth remote control that comes with the GVC3200/GVC3202 packaging to control and configure a GVC3200/GVC3202. When the GVC3200/GVC3202 boots up for the first time, a setup wizard will guide the users to pair and connect the remote control to the GVC3200/GVC3202.

When the remote control is connected to GVC3200/GVC3202, users will see icon on the top status bar of the LCD display device.

If the user happens to reset the GVC3200/GVC3202, or unpaired the remote control, the user will need pair and connect remote control to the GVC3200/GVC3202 again. Please follow the steps below:

- 1. Connect a USB mouse or open the virtual remote control after logging in GVC3200/GVC3202 web UI.
- 2. On the LCD display device, go to Settings->Network->Bluetooth.
- 3. Select  $\equiv$  and click "Search for devices".
- 4. On the remote control you would like to pair with GVC3200/GVC3202, 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 in a few seconds. Please do not press any keys on the remote control or switch screens during this process to avoid connection failure.

If the user needs to pair a different remote control to GVC3200/GVC3202, please follow the methods below:

# <u>Method 1:</u> Connect a second remote control to GVC3200/GVC3202 and both remote controls can be used at the same time

1. When remote control A is paired and connected to GVC3200/GVC3202, go to GVC3200/GVC3202

LCD->Settings->Network->Bluetooth, select  $\equiv$  and click "Search for devices".

2. On remote control B, press OK + 5 keys at the same time for about 5 seconds to trigger pairing process on remote control B.

3. Use remote control A to navigate and select the detected remote control B on GVC3200/GVC3202 Bluetooth display interface to pair and connect.

- 4. Now both remote controls can be used with GVC3200/GVC3202.
- 5. (Optional) If you wish to use only one remote control, on GVC3200/GVC3202

LCD->Settings->Network->Bluetooth, use the desired remote control, select <sup>1</sup> = on the right side of the other remote control, then click on "Unpair" to disconnect and unpair it from the GVC3200/GVC3202.

### Method 2: Replace remote control A with remote control B

1. On GVC3200/GVC3202, go to LCD->Settings->Network->Bluetooth, select <sup>1</sup> = on the right side of the remote control A, then click on "Unpair".

2. Reboot GVC3200/GVC3202. Make sure there is no USB mouse connected to GVC3200/GVC3202. Also, make sure no other remote control is paired to the GVC3200/GVC3202.

3. After GVC3200/GVC3202 boots up, on remote control B, press OK + 5 keys at the same time for about 5 seconds to trigger pairing process on remote control B.

4. GVC3200/GVC3202 will automatically search for nearby available Bluetooth devices right after it boots up. It will then pair and connect to remote control B



Please use the proprietary factory remote control that comes with the GVC3200/GVC3202 packaging.





### **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/GVC3202 LCD display device when it receives the file transferring request. Accept the request to receive the file and it will be stored under LCD->Applications->File Manager->Internal Storage->Bluetooth folder.

### **Using Bluetooth Headset**

Once the Bluetooth headset is connected with GVC3200/GVC3202, it will automatically use Bluetooth headset for calls. By default, the ringing tone will be generated in Bluetooth headset when there is an incoming call.

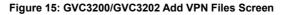
If the user would like to have the ringing tone generated in GVC3200/GVC3202 internal ringer as well, please select enable "Always Ring Internal Ringer" under GVC3200/GVC3202 web UI->Settings->Call Features.

# **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/GVC3202 home screen, go to Applications ->Settings ->Network->VPN.
- 2. Tap on "Add VPN file" to access configuration page as shown below:

115.236.68.172 🔕 879	95(8795)				🕪 🛯 🗘 15:35
🕲 Network	•	— Sa	ve	Cancel	
Bluetooth	Name				
Ethernet	Туре		PPTP		4
Wi-Fi	Server Address				
VPN 🕨	PPP Encryption (MPPE)				
VLAN	Show Advanced Options				
802.1x					







- 3. Fill in and save the configurations, 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:

	Add \	/PN profile		
	21			
		Connect to 21		
VPN		Username		
		Password		
		Save accoun	t information	
		Cancel	Connect	

Figure 16: GVC3200/GVC3202 VPN Validation Screen

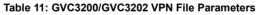
5. Fill in correct username and password to connect to VPN.

VPN

If GVC3200/GVC3202 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 reconnect to VPN. If icon

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

Parameters	Descriptions
Name	Fill in your company address or the server you are connecting to.
Туре	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)	Defines whether to use PPP encryption.
Show Advanced Options	Check this option to display more options below.
DNS Search Domains	Enter DNS search domain.





VP



DNS Server	Enter DNS server address.
Forwarding Routes	Enter Forwarding Routes, for example, 10.0.0.0/8.

# **VLAN Settings**

Access GVC3200/GVC3202 home screen, go to Applications->Settings->Network->VLAN to configure VLAN settings on GVC3200/GVC3202.

Parameters	Descriptions
	Assigns the VLAN Tag of the Layer 2 QoS packets for LAN port. The default value is 0.
Layer 2 QoS 802.1q/VLAN Tag	Note: Please do not change the setting before understanding the VLAN's settings or consulting with 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.

### Table 12: GVC3200/GVC3202 VLAN Configuration Parameters

# **LLDP Settings**

Access GVC3200/GVC3202 home screen, go to Applications->Settings->Network->LLDP to configure LLDP settings on GVC3200/GVC3202.

	Table 13. GVG3200/GVG3202 LEDF Gonngulation Farameters
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.

#### Table 13: GVC3200/GVC3202 LLDP Configuration Parameters





## 802.1X Mode

Access GVC3200/GVC3202 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 it is enabled, the user will be required to enter the identity and password to be authenticated in the network.

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 802.1x mode.
MD5 Password	Enter the MD5 Password for 802.1x mode.
CA Certificate	Upload the CA certificate for 802.1x mode.
Client Certificate	Upload the CA certificate for 802.1x mode.
Private Key	Upload the private key for 802.1x mode.

#### Table 14: GVC3200/GVC3202 802.1x Mode Parameters





# 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

GVC3200/GVC3202 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 17: GVC3200/GVC3202 Camera Screen





# Preset

### **Add Preset**

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.

192.168.40.120   BlueJ	eans			ا:1:14 ♠ ♦ ♦	2
Preset	Apply	🗕 Delete 🔷 🕒	Rename	🗢 Edit	
1	2.test	3	4	0	
5	6	7	8		•
9		11	12	0	

Figure 18: GVC3200/GVC3202 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 GVC3200/GVC3202 remote control, press "OK" key to save the preset, or press Back key <sup>★</sup> to cancel.

### **Edit Preset**

To edit an existing preset, press the blue shortcut key on the remote control to access the editing screen to edit. The created preset can also be renamed by pressing the yellow shortcut key on the remote control for better identification purpose.





### **Delete Preset**

Access the preset editing screen, select preset and press the red shortcut key on GVC3200/GVC3202 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.

### **Initial Position**

Users can also define a preset as initial position when the GVC3200/GVC3202 boots up from LCD menu->Settings->Peripheral->Camera.

192.168.5.200 🕓 IPVi	deoTalk (8200061)			🧐 🖬 🖻 🛨	ය 🛿 🗘 05:31
🖣 Peripheral		Sav	ve	🗢 Cancel	E
HDMI	Move speed	1(:	Slow) —	5	16(Fast)
Camera 🕨	Initial position	۱	Default	i	4
Device manage					
VGA in			Default	i.	
			Latest	position	
			Preset	1	
			Preset2	2	
			Preset	3	
			Preset	4	
			Dracati	5	

Figure 19: Initial Position





# **Camera Parameters Configurations**

Press the yellow shortcut key on GVC3200/GVC3202 remote control to bring out camera parameters setting screen as shown below. Refer to the table below and configure the parameters using navigation keys on the remote control.

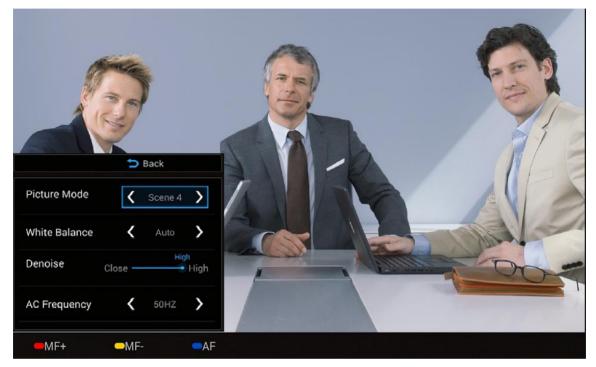


Figure 20: GVC3200/GVC3202 Camera Parameters Setting Screen

#### Table 15: GVC3200/GVC3202 Camera Parameters

Parameters	Descriptions
Picture Mode	<ul> <li>GVC3200/GVC3202 has 4 built-in modes as well as "Manual" for customization. When set to "Manual", press "OK" key to access each setting to configure sharpness, contrast, saturation, and brightness.</li> <li>Sharpness: Higher sharpness brings higher screen clarity. The object displayed on the screen has more sharpen edge.</li> </ul>
	<ul> <li>Contrast: Higher value brings more distinct color contrast.</li> <li>Saturation: Higher value brings deeper color.</li> </ul>
	Brightness: Higher value brings brighter color.





White Balance	<ul> <li>This is used to display accurate images. Users could set to "Manual" or "Auto".</li> <li>When set to "Auto", the device will adjust parameters automatically according to the current environment.</li> <li>When set to "Manual", the device will disable "Auto" mode. Press "OK" key to access manual setting screen, and adjust red or blue gain manually for better white balance.</li> </ul>
De-noise	Users could set to "off", "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**

GVC3200/GVC3202 USB interface could be connected with a USB mouse, a USB keyboard, or a USB storage device.

### **Using USB Mouse/Keyboard**

When a USB mouse is plugged into GVC3200/GVC3202, users could see the cursor on the screen, move the cursor to perform operations. When a USB keyboard is plugged into GVC3200/GVC3202, users could use GVC3200/GVC3202 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 GVC3200/GVC3202.
- 2. It will take a few seconds for GVC3200/GVC3202 to prepare the connection.
- 3. Once it is installed successfully, the USB storage icon will show up on the status bar. Users could go to GVC3200/GVC3202 LCD->Applications->File Manager->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 GVC3200/GVC3202. Please make sure the SD card is inserted with right direction on GVC3200/GVC3202.
- 2. It will take a few seconds for GVC3200/GVC3202 to prepare the connection. Then, the SD card icon will show up on the status bar.
- To access SD Card, go to GVC3200/GVC3202 LCD->Applications->File Manager->sdcard. Tap on it to access and manage your data.







The external SD card must be plugged in if the users would like to record calls and the recording files will be automatically saved in the external SD card. It is recommended to use an SD card with large capacity for call recording purpose.

# **Microphone and Speaker**

GVC3200/GVC3202 is equipped with a built-in microphone. Alternatively, you can connect external audio devices to GVC3200/GVC3202 as audio input/output sources. It is recommended to use the external speaker that comes with your GVC3200/GVC3202 package for better compatibility.

If the external speaker supports Bluetooth, users could also pair and connect the speaker to the GVC3200/GVC3202 via Bluetooth. This will provide better mobility and make cabling easier when deploying the GVC3200/GVC3202 conference system in your conference room.

When there are multiple audio devices connected to the GVC3200/GVC3202, the users could configure the audio device priority from LCD Menu->Settings->Audio->Audio Priority, or from web UI->Device Control->Audio Control: "Audio Device". Please refer to more details in "**Audio Device**" option.





# **MAKING PHONE CALLS**

# Account

GVC3200/GVC3202 comes with one IPVideoTalk account, supports one configurable SIP account registration, one H.323 account and one Blue Jeans account. Please enable the IPVideoTalk account, or register SIP account to a SIP server before making calls. The following figure shows the SIP account is registered successfully (account icon is green). This displays on the left side of the top status bar on your LCD display device.

# 192.168.125.106 🕒 31628

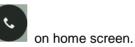
Figure 21: GVC3200/GVC3202 SIP Account

# **Dial Screen**

Once the account is registered successfully, 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 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 match contacts and call history in GVC3200/GVC3202, 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.





192.168.128.138  (3047)			16:06
📞 Call	Call Mode	— Video	<b>—</b> 3047
			<b>\$</b>
<b>A</b> 55555		. 8200089	<b>16:03</b> 02min31sec
<b>火</b> 55555			
2월11월 - 11일 - 11			

Figure 22: GVC3200/GVC3202 Call Screen

- Press the red shortcut key on the GVC3200/GVC3202 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, H.323 account, IPVideoTalk account and Blue Jeans account.
- Click on "Cancel" icon on the 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 digits using the pop out soft keyboard.
- 3. Press S on the remote control to dial out, or move the cursor to the icon on dial screen and click it to dial out.



- 1. By default, GVC3200/GVC3202 allows users to press # key as SEND key. This behavior can be disabled via option "Use # as Dial Key" in web GUI->SIP Account->Call page.
- 2. When entering initials or full spellings of a name that exists in the contact, this contact will show up in





on home screen.

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 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 <sup>5</sup> 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 button
- 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



- 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 S on the remote control to dial out.

### **Direct IP Call**

Direct IP Call allows GVC3200/GVC3202 and another VoIP device to talk to each other in an ad-hoc fashion without a SIP proxy. Direct IP calls can be made if:

 Both GVC3200/GVC3202 and VoIP phone have public IP addresses Or





 Both GVC3200/GVC3202 and VoIP phone are under the same LAN / VPN using private or public IP addresses

Or

• NAT is disabled or GVC3200/GVC3202 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/GVC3202 LCD.
- 2. Press the red shortcut key on the remote control to bring up call mode setting screen, set the mode to "IP Call". This step is optional.
- 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  $\checkmark$  on the remote control to dial out.

### **Paging/Intercom**

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

- 1. Access the dial screen on GVC3200/GVC3202.
- 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  $\checkmark$  on the remote control to dial out.

## **Answering a Call**

When the device is in idle and there is an incoming video call made by SIP or IPVideoTalk account, the device will show the call screen as below:





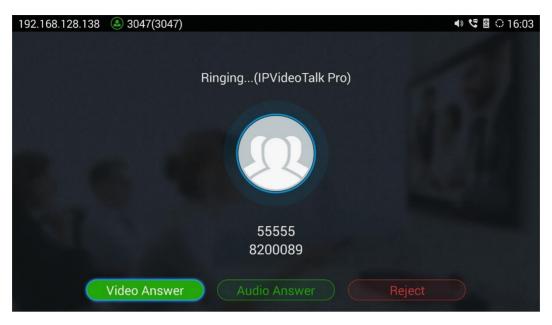


Figure 23: GVC3200/GVC3202 Single Incoming Call Screen

If the incoming video call is made by H.323 account, the call screen will display as bellow:

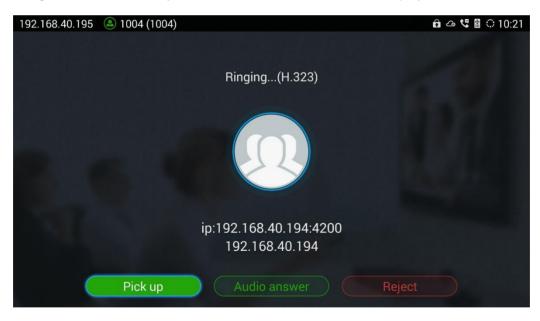


Figure 24: GVC3200/GVC3202 Single Incoming H.323 Call Screen

Select "Video Answer" or "Pick up" to answer the call with both video and audio, "Audio Answer" to answer the call with audio only, or "Reject" 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.





				1 1
Join: 3043				<b>9 9</b>
	Incoming Cal	l		
	3043	3043		
	Audio Answer	Video Answer	Reject	

Figure 25: GVC3200/GVC3202 New Incoming Call Screen

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

# ▲ <sub>Note:</sub>

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 U 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 an active call, users could record the video to the external SD card plugged into GVC3200/GVC3202. Once recorded, 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 **Recording**.

- During an active call, press the recording key \*/
   on the remote control. A red Rec icon will show
   up on the upper left of the screen.
- 2. The recording files will be saved to the configured save path automatically 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 GVC3200/GVC3202 will be blocked without ringing. Users could

see the blocked calls in call history. Once it is enabled, the DND icon **COND** will be displayed in the status bar on the top of the screen.

- When GVC3200/GVC3202 is in idle screen, users can press <sup>2</sup>/<sub>4</sub> button on the remote control to turn on/off DND.
- When GVC3200/GVC3202 is in an active call, users 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, users could log in GVC3200/GVC3202 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/GVC3202 web GUI and go to Settings->SIP Account->Call page. For details, please refer to "GVC3200/GVC3202 Administration Guide".

### Conference

### **Device Layout**

GVC3200 supports up to 9-way video conference and GVC3202 supports up to 3-way video conference. GVC3200/GVC3202 can be the host to initiate a conference or join other conferences as a member.

Users 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 GVC3200/GVC3202, the device connected to HDMI 1 interface displays presentation of VGA/HDMI input while other devices will display video view.

During a conference, user can tap on <sup>(1)</sup> button on GVC3200/GVC3202 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 <sup>6</sup> on the remote control or click on button

**\$** 

on the screen to dial out.

• From Schedule:

For more details, please refer to section Schedule.

### **Answering an Incoming Call in Conference**

You can specify how your GVC3200/GVC3202 handles incoming calls. Depending on your configuration, your GVC3200/GVC3202 answers a call automatically or prompts you to answer a call manually:

 Log in GVC3200/GVC3202 web GUI and go to Settings->SIP Account->Call page, and set "Autoanswer" option to "Yes". All incoming calls will be answered automatically. If it is a video call, it will be answered with video as well.





- If "Auto Answer" is set to "No", users will need to select to answer with video manually, audio or reject the call using the remote control on the LCD prompt.
- If the conference host answers the call, the caller will join into the current active conference.

### **Conference Management**

The following figure shows a 3-way conference:



Figure 26: GVC3200/GVC3202 3-Way Conference

On the bottom of the call screen, users will see a list of icons for menu options. This menu will be automatically hidden if there is no operation in 5 seconds. Press any key to bring up the menu options again.

Here are the functions for each icon.

#### Table 16: GVC3200/GVC3202 Call Screen Bottom Menu Icons

Icons	Name	Definitions
<b>9</b> +	Add Member	Access dial screen and add more numbers to join conference.
<b>9</b> _	Delete Member	Select member to remove from the conference.





Conference Control	<ul> <li>Control video and audio for conference members. It includes the following options for each party:</li> <li>Image: The selected party will not be heard by other parties.</li> <li>The selected party will not hear other parties.</li> <li>The video call with the selected party will turn into audio call. If the user clicks on this icon again, a video invitation will be sent to this party. The party has to accept the video request in order to see the video again.</li> <li>Suspend video from the video party. Click on it again to resume video.</li> </ul>
Layout	<ul> <li>Adjust the layout for the video display for video call.</li> <li>The layout options might vary depending on how many video participants are in the call, how many HDMI outputs are connected and whether presentation is turned on or not.</li> <li>For example, in a two-way video call on GVC3200 which has one HDMI output connected, after pressing "Layout" icon, users will see options "Average", "Remote (Local)", "Local (Remote)", "Remote" and "Local".</li> </ul>
Hold	Pause/resume conference. Once the conference is paused, the device will stop sending local video/audio to the remote parties.





Turn on/off presentation.

HDMI IN or VGA IN must be plugged in first. When HDMI IN or VGA IN is plugged in to GVC3200/GVC3202, after the user selects "Presentation", the user can select mode "Auto" or "PC" to display presentation.

• Presentation Mode: Auto

PresentationThe GVC3200/GVC3202 that shares presentation will send dual<br/>stream. The other participants will receive two streams and can<br/>select to display both presentation + video at the same time. If<br/>the other participants do not support BFCP, the<br/>GVC3200/GVC3202 that shares presentation will only send<br/>presentation stream and the participant can show presentation.

Presentation Mode: PC

The GVC3200/GVC3202 that shares presentation will only send presentation stream, no local video stream. The other participants only see presentation.

Bring up more options. The options include:

• DND

Enable or disable DND.

Call details

Display call details such as video packet loss rate, video bit rate, video frame rate, video codec, video resolution, audio packet loss rate, audio bit rate and audio codec for both sending and receiving parties.

Open DTMF

To enter DTMF during the call.

PIN code

This is to set a PIN code to lock this conference call. Once the conference call is locked, the caller who wants to join this conference by calling the conference host must enter the PIN code.

• **Third party application**. This option is only available when there is application such as Skype installed on GVC3200/GVC3202.

End conference and go back to home screen.



×

 $(\bullet \bullet \bullet)$ 

More

End



- If the remote party is also a GVC3200/GVC3202, 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 an 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 hidden automatically 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 if the call is being muted.

Table 17: GVC3200/GVC3202 Conference Me	ember Status Descriptions

Icons	Descriptions
	The current line is in an audio call.
<u>@</u>	The current line is in a video call.
	The current line is being muted.
<b>₽</b> ×	The current line is not connected.

• On the upper left side of the video conference screen, users can see an icon is to indicate network unstable condition, which means the current network condition is not good enough for the video call using the selected resolution/bit rate.

### **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/GVC3202 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 be added into 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 "OK" key to delete it.

### **Conference Control**

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

Conf Control	🛑 Mute All	– Block All	😑 Su	Ispend All
Local	Ŷ		0	
3044	Ų	<b>L</b>	0	
3043	Ŷ		0	

Figure 27: GVC3200/GVC3202 Conference Control Screen

- 1. Use Up/Down navigation keys on GVC3200/GVC3202 remote control to select conference member.
- 2. Use Left/Right navigation keys on GVC3200/GVC3202 remote control to make operations, press "OK"

key to confirm the operation, press "OK" key again to cancel, e.g. tap on 👱 to mute one member

and the icon will turn to  $\cancel{2}$  , tap on it again to restore.



Users could press the shortcut keys on GVC3200/GVC3202 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 will not see your video either.



- 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**

GVC3200/GVC3202 supports dual stream video, with the presentation sharing function, you can connect VGA/HDMI input devices such as a computer, or a DVD player to GVC3200/GVC3202, and share the VGA/HDMI input sources with remote parties while they can still view the local video.

The following figure shows 3 TVs used for GVC3200/GVC3202. The one on the top shows presentation, the two on the bottom show remote party video.



Figure 28: GVC3200/GVC3202 3-Way Conference with Presentation







- 1. When both HDMI IN interface and VGA IN interface are connected, GVC3200/GVC3202 will only display the device connected to HDMI IN port.
- 2. Users could also press PIP button III on GVC3200/GVC3202 remote control to change video

display layout. This will bring up the same options as pressing icon icon on the bottom menu.

### **Conference Recording**

During a video conference, recording feature is supported on the GVC3200/GVC3202, including video and presentation shared by GVC3200/GVC3202, or IPVideoTalk WebRTC clients. For more details about IPVideoTalk, please refer to the chapter **IPVIDEOTALK**.

- If Auto presentation mode turns on, only the presentation is recorded.
- If PC presentation mode turns on, the presentation and local video stream are recorded.
- If presentation mode turns off, dual video streams are recorded.

For more details, please refer to the chapter Recording.

- 1. Press \*/ on the GVC3200/GVC3202 remote control or the recording icon on bottom menu to start recording.
- 2. The recording files will be saved to the configured save path automatically when the call is finished.

Users could also press \* on the remote control or the recording icon  $\bigcirc$  on bottom menu to stop recording anytime.



The recording files saved on internal storage have size limitation of 1G, so it is strongly recommended to use an SD card or USB storage device with large capacity for call recording purpose.





### **Call Details**

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

	Packet Loss Rate	: 0.0%	Packet Loss Rate	: 0.0%
	Video Bit Rate	: 117Kbps	Video Bit Rate	: 1049Kbps
Video	Video Frame Rate	: 30fps	Video Frame Rate	: 30fps
	Video Codec	: H264/HP	Video Codec	: H264/HP
	Resolution	: 1280x720	Resolution	: 1280x720
	Packet Loss Rate	: 0.0%	Packet Loss Rate	: 0.0%
Audio	Audio Bit Rate	: 63Kbps	Audio Bit Rate	: 62Kbps
	Audio Codec	: G722	Audio Codec	: G722
		Video Bit Rate Video Frame Rate Video Codec Resolution Packet Loss Rate Audio Audio Bit Rate	Video Bit Rate: 117KbpsVideoVideo Frame Rate: 30fpsVideo Codec: H264/HPResolution: 1280x720Packet Loss Rate: 0.0%AudioAudio Bit Rate: 63Kbps	Video Bit Rate       : 117Kbps       Video Bit Rate         Video       Frame Rate       : 30fps       Video Frame Rate         Video Codec       : H264/HP       Video Codec         Resolution       : 1280x720       Resolution         Packet Loss Rate       : 0.0%       Packet Loss Rate         Audio       Bit Rate       : 63Kbps       Audio Bit Rate

and select "Call Details" to check the details.

Figure 29: GVC3200/GVC3202 Call Details Screen

### **Enabling DND During Conference**

When DND is enabled during conference, the new incoming calls will be blocked. On the conference screen,

use GVC3200/GVC3202 remote control to click on MORE button

and select "DND".

The icon **OND** will be displayed on conference screen if the device is set to DND mode. To disable DND, select DND mode again and press "OK" key to cancel it.



After enabling DND mode during a conference, the DND mode will remain effective after the conference is

over. To disable DND, please press *a* on GVC3200/GVC3202 remote control when there is no active call.





### **Conference Lock**

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

The locked scheduled conference will display

icon on the screen.

## **Open DTMF**

Users can dial DTMF during a conference.

- 1. On GVC3200/GVC3202 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 the operation if needed.

### PIN Code

During the conference call, the conference host can set a PIN code to lock the call. Once the conference call is locked, the caller who wants to join this conference by calling the conference host must enter the PIN code.

Here is how to use PIN code to lock the conference call:

 During the call, in the GVC3200/GVC3202 display LCD call screen bottom menu, select MORE->PIN Code.





Ţ				DTMF	<ul> <li>Notification</li> </ul>	<ul> <li>Status</li> </ul>		
							1	1
							<u> </u>	<u>o</u>
				DND				
				Call Details				
				Open DTMF				
				PIN Code				
( <b>9</b> _+)							00:00:1	10
( <b>2</b> +)	<b>_</b>		To	<u> </u>			00.00:	13

Figure 30: GVC3200/GVC3202 Call Screen->More->PIN Code

2. Enter the PIN Code to lock the conference call. If it's empty, the conference call is not locked. Click on OK to confirm.

			1
			9
PIN Code			
1234			
Cancel	ОК		

Figure 31: Enter PIN Code to Lock Conference

3. Now the conference call is locked. If someone wants to join the conference call by calling this GVC3200/GVC3202, the same PIN code will be required to be entered before the call goes through.

Here is an example on how to use PIN code to enter the locked conference call:





- 1. Make a video call to the GVC3200/GVC3202 that has locks the conference call from another GVC3200/GVC3202.
- 2. The GVC3200/GVC3202 caller will show a video windows with voice prompt asking for PIN code.
- 3. On the GVC3200/GVC3202 caller's call screen bottom menu, select MORE->Open DTMF. Then input the DTMF with PIN code followed by #.

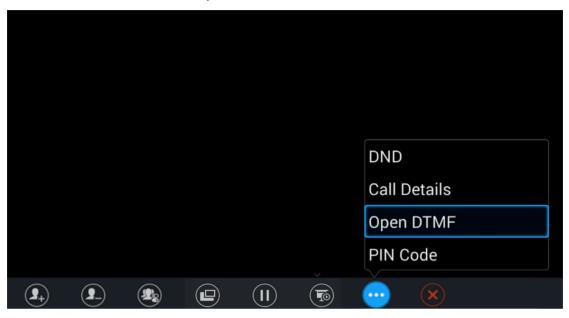


Figure 32: Input PIN Code from DTMF to Join Conference

4. The GVC3200/GVC3202 caller joins the conference call after entering correct PIN code in DTMF.

#### **Third Party Applications**

GVC3200/GVC3202 runs Android Operating System and offers full access to the thousands of Android apps in 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 GVC3200/GVC3202.

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

- 1. Install Skype and sign in.
- 2. Establish a conference call on GVC3200/GVC3202.
  - On the conference screen, click on MORE button

and select "Third party applications".

- 4. Press "OK" key, and select "Skype" in the pop out menu.
- 5. Search contacts in Skype and dial out.
- 6. The new call will be added to conference.



3.



# ⚠ <sub>Note:</sub>

• When the call is mixed, GVC3200/GVC3202 and the remote party using the app can see video from all parties. The remote SIP party can only see video from GVC3200/GVC3202. All parties can hear each other.

#### • For Skype application downloaded from GS Market only

GVC3200/GVC3202 supports video mixing so that the remote SIP party can receive video feed from Skype. This currently only works when there is only one SIP/H.323 line in the call, and the Skype application must be downloaded from GS Market on the GVC3200/GVC3202. Here are the steps to use this feature:

- 1. GVC A establishes video call with another GVC B using SIP account.
- 2. On GVC A, during the SIP call, select More->Add third party and select Skype app.
- 3. On GVC A, establish Skype call with PC Skype client. Now the call is mixed.
- 4. If GVC A currently shows Skype app interface, press GVC A's remote control's BACK button to exit this Skype app interface. This will enable Skype video mixing and a message "Skype video mixing is on" will pop up on the screen. The user can then navigate to the normal SIP call interface using the GVC remote control. On the remote party GVC B, the user will see mixed video of both Skype and GVC A.
- 5. If going back to the Skype call interface again, it will automatically disable Skype video mixing. The remote party GVC B will see the video from GVC A only, instead of the mixed video.
- 6. Navigate as indicated in step 4 to enable Skype video mixing or step 5 to disable it.

#### **FECC - Camera Control in Conference**

During the video call, if the local party (GVC3200/GVC3202) and remote party support FECC, the remote camera can be controlled on the GVC3200/GVC3202.

Here is how to use FECC on the GVC3200/GVC3202 to control remote party's camera:

- Make sure the GVC3200/GVC3202 and the remote party support FECC and it's enabled on both parties. For GVC3200/GVC3202, FECC setting is under web UI->Settings->Account Settings->Codec: "Enable FECC". If the remote party is another vendor's video device, please check the documentation from the vendor to enable FECC.
- 4. Establish video call between GVC3200/GVC3202 and the remote party.
- 5. On the GVC3200/GVC3202 remote control, press the camera button and the following prompt pops up on GVC3200/GVC3202 display device.





Local Camera Control	Camera Control
	Local Camera Control
GVC-LAD	GVC-LAB

Figure 33: FECC – Remote Camera Control

- 6. Use UP/DOWN/OK navigation keys on the GVC3200/GVC3202 remote control to select the remote party, e.g., GVC-LAB in the above figure. This will bring up camera control interface.
- 7. On the GVC3200/GVC3202 remote control, press the navigation keys and zoom in/zoom out buttons on trackpad to adjust remote camera.

#### **End Conference**

To end the conference, tap on END button  $\checkmark$  or press key  $\frown$  on GVC3200/GVC3202 remote control to disconnect from the conference. If GVC3200/GVC3202 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 users to set a specific time to host a conference in advance, with conference reminder and members.





110 C	Schedule			🛑 Edit Conf	
	2015-11-03				
	Revie	Details			
	Host: Me	Title PIN Code Host Time Members (3) 5550000 2000000 GVC3200 Sup	: Product Rev : 1234 : Me : 12:30-13:30	iew	

Figure 34: GVC3200/GVC3202 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
- Users will see the scheduled conferences (after the current time) in the schedule screen. Select one conference entry to view details.

\_\_\_\_\_



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 "OK" key on GVC3200/GVC3202 remote control to view conference details.





E.	Schedule			🛑 Edit Conf	
	2015-11-03				
	👤 Product Revie	Details			
	Host: Me	Title PIN Code Host Time Members (3) 5550000 2000000 GVC3200 Supp	: Product Rev : 1234 : Me : 12:30-13:30	iew	

Figure 35: GVC3200/GVC3202 Conference Details Screen

## **Add Scheduled Conference**

Follow the steps below to add a scheduled conference:

Ë

- 1. On the home screen, select
- to access schedule screen. 2. On GVC3200/GVC3202 remote control, press the yellow shortcut key to create a new conference.



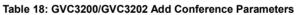


🖳 New Conf 📃 🗢 Sa	ave 😑 Cancel 📃
Title	
Members	÷
Start Time	2015-11-03 12:09
End Time	2015-11-03 13:09
Remind Time	10 Minutes in Advance 🗸
Auto Join Conference for Scheduled Members without PIN Code	
PIN Code	0-10 digits
Repeat	One-time event

#### Figure 36: GVC3200/GVC3202 Add Conference Screen

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

Parameters	Descriptions
Title	It is used to set the conference name to identify this conference.
Members	Click on button $$ to access the Add Member screen. Users 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	It is used to configure the start time of the conference.
End Time	It is used to configure the end time of the conference.
Reminder Time	It is used to configure whether to remind users in advanced. A prompt dialog box will pop up on GVC3200/GVC3202 screen 10 minutes before the conference starts.
Auto Join Conference for Scheduled Members without PIN Code	It is used to configure whether PIN code is required when the scheduled members join the conference. If enabled and the scheduled conference has PIN code configured, the scheduled members will automatically answer the call without PIN code required.
PIN Code	Configure PIN code for the conference. It can be number 0 – 9 and up to 10 digits can be configured as PIN code.







## **Edit Scheduled Conference**

Follow the steps below to edit scheduled conference:

- 1. Access conference schedule screen and select the conference entry users would like to edit.
- 2. Press the blue shortcut key on GVC3200/GVC3202 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 users would like to edit.
- 2. Press the MENU key  $\equiv$  on GVC3200/GVC3202 remote control, and select "Reschedule" option.
- 3. Set new conference start time in the pop out dialog box.
- Click on SAVE button to save changes. If users would like to cancel the changes, users could 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 users would like to delete.
- 2. Press the MENU key  $\equiv$  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 GVC3200/GVC3202 remote control, or click on button 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:

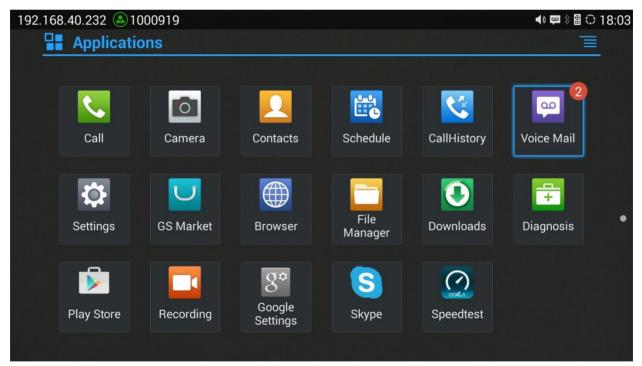


Figure 37: GVC3200/GVC3202 Voice Mail Application

## **Call Features**

The GVC3200/GVC3202 support traditional and advanced telephony features including caller ID, caller ID with caller Name, call waiting, call forward and etc for the SIP account. Before using the following feature





code, please make sure "Enable Call Features" option is set to "Yes" under web GUI->Settings->SIP->Call page. Please note this feature doesn't apply to IPVideoTalk account or BlueJeans account.

	Table 19: GVC3200/GVC3202 Feature Code for SIP Account
	Use Preferred Codec (per call).
*01	<ul> <li>Dial *01 followed by the preferred codec code and the phone number.</li> <li>The device will use this codec in the INVITE SDP as the first codec when initiating the call.</li> <li>Codec code: PCMU: 7110 PCMA: 7111 G722: 722 G722.1: 7206</li> </ul>
	For example, if the user would like to use PCMA as the preferred codec to call phone number 334455, enter *017111334455. Please note the actual codec being used might be different, which is the negotiation result between the endpoints and SIP server.
*02	<ul> <li>Force Codec (per call).</li> <li>Dial *02 followed by the preferred codec code and the phone number.</li> <li>The device will be forced to use this codec during the call.</li> <li>Codec code: <ul> <li>PCMU: 7110</li> <li>PCMA: 7111</li> <li>G722: 722</li> <li>G722.1: 7206</li> </ul> </li> </ul> For example, if the user would like to force using PCMA to call phone number 334455, enter *017111334455.
*16	Enable and force SRTP for all subsequent calls.
*17	Disable SRTP for all subsequent calls.
*18	Enable SRTP per call.
*19	Disable SRTP per call.
*30	<ul><li>Block Caller ID (for all subsequent calls).</li><li>Dial *30.</li></ul>
*31	<ul><li>Send Caller ID (for all subsequent calls).</li><li>Dial *31.</li></ul>
*50	Disable Call Waiting.







	• Dial *50.
*51	<ul><li>Enable Call Waiting.</li><li>Dial *51.</li></ul>
*67	<ul><li>Block Caller ID (per call).</li><li>Dial *67 followed by the phone number.</li></ul>
*82	<ul><li>Send Caller ID (per call).</li><li>Dial *82 followed by the phone number.</li></ul>
*70	<ul><li>Disable Call Waiting (per Call).</li><li>Dial *70 followed by the phone number.</li></ul>
*71	<ul><li>Enable Call Waiting (per Call).</li><li>Dial *71 followed by the phone number.</li></ul>
*72	<ul> <li>Unconditional Call Forward. To set up unconditional call forward:</li> <li>Dial *72 followed by the phone number to forward the call.</li> </ul>
*73	<ul><li>Cancel Unconditional Call Forward. To cancel the unconditional call forward:</li><li>Dial *73.</li></ul>
*74	<ul><li>Paging Call.</li><li>Dial *74 followed by the phone number to send the paging call.</li></ul>
*83	<ul><li>Force Audio Calling (per call).</li><li>Dial *83 followed by the phone number to send the audio call.</li></ul>
*84	<ul><li>Force Video Calling (per call).</li><li>Dial *84 followed by the phone number to send the video call.</li></ul>
*90	<ul><li>Busy Call Forward. To set up busy call forward:</li><li>Dial *90 followed by the phone number to forward the call.</li></ul>
*91	<ul><li>Cancel Busy Call Forward. To cancel the busy call forward:</li><li>Dial *91.</li></ul>
*92	<ul> <li>Enable Call Forward No Answer. To set up Call Forward No Answer:</li> <li>Dial *92 followed by the number to forward the call. The default timeout before the call is forwarded is 20 seconds.</li> </ul>
*93	Cancel Call Forward No Answer. To cancel Call Forward No Answer: • Dial *93.





## **ADDITIONAL FUNCTIONS**

## **GVC Remote Client Application**

Besides using GVC3200/GVC3202 Bluetooth remote control in the package, users could also download the Grandstream GVC Remote Client application, and install it on an Android device. GVC3200/GVC3202 remote control application is used via Bluetooth protocol. Follow the steps below to install the remote control application:

 The GVC Remote apk for Android can be found under GVC3200/GVC3202 LCD menu->Applications->File Manager->Internal storage->remotefirmware. Users could also directly send the apk file via Bluetooth to your Android device or use the QR code to download to your Android device. Please go to GVC3200/GVC3202 LCD menu->Settings->Status->Remote control to send GVC Remote apk to Bluetooth device or scan the QR code.

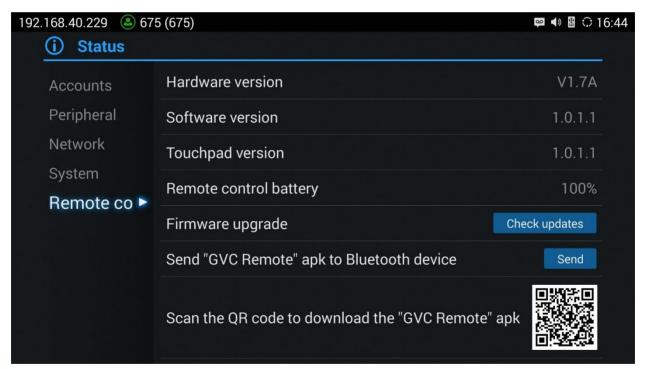


Figure 38: "GVC Remote" apk in GVC3200/GVC3202 LCD Menu->Settings->Status->Remote Control

- 2. Once GVC Remote app is installed on your Android device, open it and access settings screen.
- 3. Select the GVC3200/GVC3202 device that users would like to connect to. Each discovered GVC3200/GVC3202 could be distinguished by the last 6 digits of its MAC address.
- 4. Pair GVC Remote app with GVC3200/GVC3202 via Bluetooth. Users might see prompt on GVC3200/GVC3202, 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 GVC3200/GVC3202.

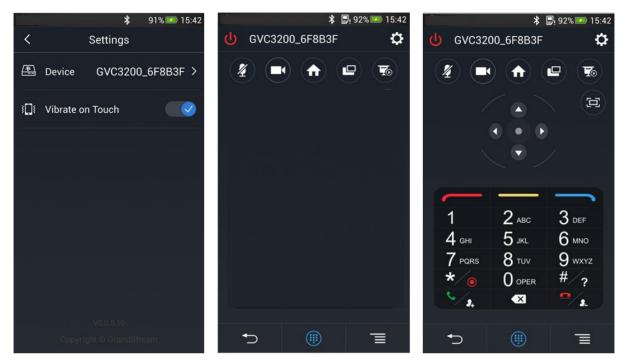


Figure 39: GVC3200/GVC3202 Remote Control Application on Android Device

- Tap on button at the upper right corner to access settings screen as the left figure shows above.
- Tap on button K to go back to home screen as the figure in the middle shows above.
- Tap on button is to bring up navigation panel and digital keyboard as the right figure shows above,

tap on was again to hide the keyboard.

For more information about how to use GVC remote apk on your Android device, please refer to the GVC3200/GVC3202 remote control client quick start guide below:

http://www.grandstream.com/sites/default/files/Resources/GVC3200/GVC3202\_Remote\_Control\_Client\_ Quick\_Start\_Guide.pdf





on the screen to dial out.

## BlueJeans

GVC3200/GVC3202 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 GVC3200/GVC3202 remote control to switch call mode from SIP Call to BlueJeans Call.
- 2. When the call mode shows BlueJeans, input Blue Jeans conference ID and conference password.
- 3. Press Son the remote control or click on button

For more information about how to use BlueJeans on GVC3200/GVC3202, please refer to the link below: <u>http://www.grandstream.com/sites/default/files/Resources/GVC3200/GVC3202\_BlueJeans\_application\_n</u> ote.pdf





## **APPLICATIONS**

GVC3200/GVC3202 provides built-in applications such as Contacts, Call History, File Manager, Browser and etc. Users could also download the apps from GS market or Google Play Store to install on GVC3200/GVC3202.

## Contacts

GVC3200/GVC3202 Contacts app helps users to easily store and manage phone numbers and contacts information. Users can add contacts on GVC3200/GVC3202 or import contacts from external devices as well as download from a server.

On GVC3200/GVC3202 home screen, click on Contacts icon **E**, or go to Applications, and select **L** to access contacts app.



Figure 40: GVC3200/GVC3202 Contacts Screen

- All
  - It is used to display all contacts.
- Groups

It is used to view groups. Select one group to view group details.

Call





Select the contact, and press Son GVC3200/GVC3202 remote control or click on button



to dial the contact users 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  $\equiv$  on the remote control to access menu to edit/add/delete/export/import/download contacts.

• Contact Details

Select one contact and press "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 GVC3200/GVC3202 remote control to access New Contact screen.

<b>1</b> New Contact	🗢 Add Field	Save Cancel	
Name			
Phone (Mobile)	SIP 🔺		
Email (Home)			
Groups		Select Groups	1
Ringtone		System Ringtone	4

Figure 41: GVC3200/GVC3202 Add New Contact Screen

- 2. Enter the 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 GVC3200/GVC3202.

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

192.	168.40.232   1000919					■ 🖇 📓 🗘 '	18:07
	1 Import Contacts	•	Import		Cancel		
	Clear Old History					$\bigcirc$	
	Replace Duplicate Entries						
	File Encoding			UTF	-8	4	
	File Type			xml		4	
	Select File				Not s	elected	

Figure 42: GVC3200/GVC3202 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 20: GVC3200/GVC3202 Import Contacts Parameters

Parameters	Descriptions
Clear The Old List	If it is enabled, the previous contact records will be deleted when a new phonebook file is loaded into the device. If it is disabled, both the old contacts and new contacts will be kept in GVC3200/GVC3202.
Replace Duplicate Entries	If it is enabled, when the phonebook file is imported to the device, the duplicated entries will be removed. If it is disabled, both the old contacts and new contacts will be kept in GVC3200/GVC3202.
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 GVC3200/GVC3202.

#### **Download Contact**

GVC3200/GVC3202 supports downloading phonebook from the file server to batch add contacts. The default file name that GVC3200/GVC3202 looks for is "phonebook.xml". The phonebook XML file should be placed under the file server directory for GVC3200/GVC3202 to retrieve. GVC3200/GVC3202 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.

Download Contacts	🗕 Download Now	- Save	Cancel	
Clear Old History				$\square$
Replace Duplicate Entries				
Download Mode			Off	4
File Encoding			UTF-8	4
Time Intervals			None	
HTTP/HTTPS Username				
HTTP/HTTPS Password				
Download Server				

Figure 43: GVC3200/GVC3202 Download Contacts Screen

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





Parameters	Descriptions
Clear The Old List	If it is enabled, the previous contact records will be deleted when a new phonebook file is loaded into the device. If it is disabled, both the old contacts and new contacts will be kept in GVC3200/GVC3202.
Replace Duplicate Entries	If it is enabled, when the phonebook file is imported to GVC3200/GVC3202, the duplicated entries will be removed. If it is disabled, both the old contacts and new contacts will be kept in GVC3200/GVC3202.
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.
HTTP/HTTPS Username	Configure the HTTP/HTTPS username for phone book downloading if it's required by the server.
HTTP/HTTPS Password	Configure the HTTP/HTTPS password for phone book downloading if it's required by the server.
Download Server	Fill in the server URL or IP address to download the XML contact file to the device.

#### Table 21: GVC3200/GVC3202 Download Contacts Parameters

#### **Search Contacts**

In the Contacts app, users could input keyword to search in the dialog. GVC3200/GVC3202 will display contacts automatically which is 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 users would like to delete.
- 2. Tap on  $\overline{\equiv}$  and select "Delete" option to delete contact.

#### **Batch Remove Contacts**

To delete more than one contacts,

- 1. Select "Batch Remove" option.
- 2. Select the checkbox for the contacts to be deleted, and press the red shortcut key on GVC3200/GVC3202 remote control to delete them. Users could also press the yellow shortcut key on





the remote control to select all contacts at once.

#### **Export Contacts**

GVC3200/GVC3202 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.

192.	168.128.138	3047(3047)				<b>4) 🛛 ≎</b> 16:0	06
	<b>L</b> Export	Contacts	-	- Export	😑 Cancel		
	File Encoding				UTF-8	4	
	File Type				xml	4	
	Choose Direct	ory			N	ot selected	

Figure 44: GVC3200/GVC3202 Export Contacts Screen

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

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, and vcard.
Choose Directory	Select directory to save file.

#### Table 22: GVC3200/GVC3202 Export Contacts Parameters





#### Groups

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

192.168.128.104   3	046(3046)				🔹 📓 🗘 15:43
👤 Group	📞 Call	Rename	- Delete	New	
All Groups 🕨	12345 (1 persons) ipvideotalk_89				
	Blacklist (0 person)	No person ii	n this group		

Figure 45: GVC3200/GVC3202 Groups Screen

Call

Press on GVC3200/GVC3202 remote control to call the first 8 members in a group to initiate a conference.

- Rename (red shortcut key) It is used to rename a group.
- Delete (yellow shortcut key) It is used to delete a group.
- Add (blue shortcut key) It is used to add a group.

#### Add New Group

- 1. Select Groups tab in Contacts screen.
- 2. Press the blue shortcut key on GVC3200/GVC3202 remote control to bring up the screen below:





168.128.104 🕘						● 🛾 🗘 1
👤 Group	<b>%</b> C	all 😐	Rename	- Delete	- New	
All	12345 (1 pers ipvideotalk_89	sons)				
Groups 🕨		l Group	a Na			
	Blacklist		119000000000000000000000000000000000000			
		Cancel	ОК			

Figure 46: GVC3200/GVC3202 Add Group Screen

- 3. Input a 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 users would to add to this group.
- 7. Press the blue shortcut key on GVC3200/GVC3202 remote control to save the operations.

#### **Delete Group**

Follow the steps below to delete groups.

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

## **LDAP contacts**

LDAP contacts application can be accessed in GVC3200/GVC3202 display device LCD-> Applications-> LDAP Contacts. It helps users access and manage the contacts at ease.

Here is the main interface of LDAP contacts.





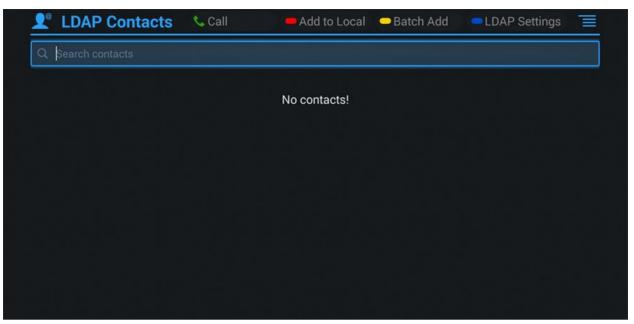


Figure 47: LDAP Contacts Interface

## **LDAP Settings**

Before starting using LDAP on GVC3200/GVC3202, the users must configure the LDAP settings first. Press the Blue shortcut key on the GVC3200/GVC3202 remote control to access LDAP settings, or the users can configure it under GVC3200/GVC3202 web UI->**Contacts**->**LDAP** page.

Connection Mode	It is used to select which protocol will be used for LDAP searching, LDAP or LDAPS.
Server Address	It is used to configure the URI of the LDAP (Lightweight Directory Access Protocol) server.
Port	It is used to configure the LDAP server port. The default LDAP port number is 389.
Base DN	It is used to configure the LDAP search base. This is the location in the directory where the search is requested to begin. Example: dc=grandstream, dc=com ou=Boston, dc=grandstream, dc=com
User Name	It is used to configure the bind "Username" for querying LDAP servers. Some LDAP servers allow anonymous binds in which case the setting can be left blank.

#### Table 23: GVC3200/GVC3202 LDAP Settings Parameters





Password	It is used to configure the bind "Password" for querying LDAP servers. The field can be left blank if the LDAP server allows anonymous binds.
LDAP Name Attributes	It is used to configure the "name" attributes of each record which are returned in the LDAP search result. This field allows the users to configure multiple space separated name attributes. Example: gn cn sn description
LDAP Number Attributes	It is used to configure the "number" attributes of each record which are returned in the LDAP search result. This field allows the users to configure multiple space separated number attributes. Example: telephoneNumber telephoneNumber Mobile
LDAP Mail Attributes	It is used to configure the "mail" attributes of the each record which are returned in the LDAP search result. Example: mail
LDAP Name Filter	It is used to configure the filter used for name lookups. Examples: ( (cn=%)(sn=%)) returns all records which has the "cn" or "sn" field starting with the entered prefix; (!(sn=%)) returns all the records which do not have the "sn" field starting with the entered prefix; (&(cn=%) (telephoneNumber=*)) returns all the records with the "cn" field starting with the entered prefix and "telephoneNumber" field set.
LDAP Number Filter	It is used to configure the filter used for number lookups. Examples: ( (telephoneNumber=%)(Mobile=%) returns all records which has the "telephoneNumber" or "Mobile" field starting with the entered prefix; (&(telephoneNumber=%) (cn=*)) returns all the records with the "telephoneNumber" field starting with the entered prefix and "cn" field set.
LDAP Mail Filter	It is used to configure the filter used for mail lookups. Example: (mail=%)





LDAP Displaying Name Attributes	It is used to configure the entry information to be shown on phone's LCD. Up to 3 fields can be displayed. Example: %cn %sn %telephoneNumber
Max Hits	It is used to configure the maximum number of results to be returned by the LDAP server. If set to 0, server will return all search results. The default setting is 50.
Search Timeout (ms)	It is used to configure the interval (in seconds) for the server to process the request and client waits for server to return. The default setting is 4000 seconds.
LDAP Lookup When Dialing	It is used to set if allow the phone system to do the LDAP number searching when making outgoing calls. The default setting is "No".
Search LDAP For Incoming Call	It is used to set if allow the phone system to do LDAP number searching for incoming calls. The default setting is "No".

Here is an example configuration on GVC3200/GVC3202 LDAP settings in web UI. The LDAP server is the built-in LDAP server in Grandstream UCM61xx.





Connection Mode :	LDAP
Server Address :	company.ldap.server.com
Port :	389
Base DN :	dc=pbx,dc=com
Username :	
Password :	
LDAP Name Attributes :	CallerIDName
LDAP Number Attributes :	AccountNumber
LDAP Mail Attributes :	
LDAP Name Filter :	(CallerIDName=%)
LDAP Number Filter :	(AccountNumber=%)
LDAP Mail Filter :	
LDAP Displaying Name Attributes :	%AccountNumber %CallerIDName
Max Hits :	50
Search Timeout (ms) :	4000
LDAP Lookup When Dialing :	Enable
Search LDAP for Incoming Call :	Enable
	Save Cancel

Figure 48: LDAP Settings Example in Web UI





#### **Search LDAP Contacts**

After configuring LDAP settings, the users could search contacts in LDAP Contacts main interface. In the following example, the users could enter number or name in the Search field. The LDAP result will be displayed dynamically when the key word is entered.

LDAP Contacts	📞 Call	Add to Local	- Batch Add	🔍 LDAP Settings 🛛 📃
Q 000				
<b>2</b> 3000Operator				3000

Figure 49: Search LDAP Contacts

If the user presses the Green Call button Son the GVC3200/GVC3202 remote control, the GVC3200/GVC3202 will initiate a call to this contact.

#### Add Search Result into Local Contacts

After performing LDAP search, the users could select to add the result into GVC3200/GVC3202 local contacts.

• Add to Local

On the search result screen, move the selection to the contact, then press the red shortcut key on the GVC3200/GVC3202 remote control to add single search result to local contacts. Click on OK to confirm Add to Local.





LDAP Contacts		o Local 🛛 🗢 Batch Add	
<b>2</b> 3000Operator			3000
	Add to Local		
	Do you want to add Contacts?	"3000" to local	
	Cancel	ок	

Figure 50: Add LDAP Search Result to Local Contacts

#### • Batch Add

Press the yellow shortcut key on the GVC3200/GVC3202 remote control, then select the checkbox for multiple search results to be added into local contacts. Press the yellow shortcut key again and the following prompt will pop up. Click on OK to confirm Batch Add.

LDAP Contacts		lect All 📃 🗢 Ado		
<u>9880</u>			3880	
<b>9</b> 3881	Add to Local		3881	
3882	Do you want to add contacts to local?	the chosen	3882	
<u>9</u> 3883	Cancel	ОК	3883	
9884				1
9885			388	
<b>2</b> 3886			3880	

Figure 51: Batch Add LDAP Search Results to Local Contacts





## **Call History**

Call History provides users access to phone's recent call records. Users 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 52: GVC3200/GVC3202 Call History Screen

Click on a record in the call history and press to dial out this number directly. Press "OK" key on GVC3200/GVC3202 remote control to view call details for this number.





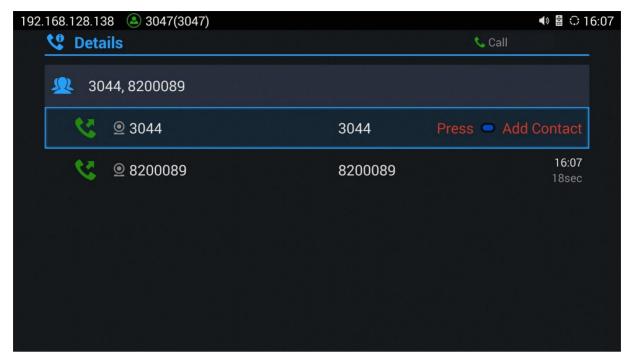


Figure 53: GVC3200/GVC3202 Call History Details

٨



Call history displays all Blue Jeans conference call histories as well. Press "OK" key or  $\checkmark$  to dial out directly, and there is no need to input the password again. However, if the conference does not exist or the password has been changed, the re-dial will fail.

If an entry in call history already exists in GVC3200/GVC3202 Contacts, when the user click on the upper

right Menu button in on the Call History screen, the users can see and select "View contact" option in the drop-down list to view the details for this contact.

#### **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 the contacts.

192.168.128.64 🚨 2000				🚥 📞 🕸 😳 17:00
🤽 Call History				Delete
All				16:44
Missed				16:25
Conference				2015/03/12 18:20
Outgoing		Add to Contacts Add "1011" to contacts?		
incoming		Cancel	ОК	2015/03/10 15:03
				2015/03/10 09:27
				2015/03/09 18:13
				2015/03/05 19:52

Figure 54: GVC3200/GVC3202 Add Contact Screen

- 5. Select existing contact or press the blue shortcut key on GVC3200/GVC3202 remote control to access edit screen.
- 6. Fill in contact information and press the yellow shortcut key on the remote control to save the contact.

#### **Delete Call History**

- 1. Select the call history entry.
- 2. Press the yellow shortcut key on GVC3200/GVC3202 remote control to bring up the dialog box.
- 3. Confirm to delete.

#### **Conference Schedule via Call History**

- 1. Select one call history entry users would like to add to scheduled conference.
- 2. Press the blue shortcut key on GVC3200/GVC3202 remote control to access schedule screen.
- 3. Fill in information and press the yellow shortcut to save.





## **File Manager**

File Manager 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 GVC3200/GVC3202.

#### **Copy File**

To copy the file from GVC3200/GVC3202 to USB/SD storage device:

- Insert USB/SD storage device into USB port on GVC3200/GVC3202. It will take a few seconds for GVC3200/GVC3202 to prepare the connection.
- 2. The USB storage icon will show up on the status bar.
- 3. Go to Home screen->Applications->File Manager.
- 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  $\bigcirc$  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.

Users 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->File Manager.
- 2. Open the target folder.
- 3. Press the yellow shortcut key and select the file.
- 4. Press MENU key  $\equiv$  on GVC3200/GVC3202 remote control and select "Send" option.
- 5. Select target location and press "OK" key on GVC3200/GVC3202 remote control to send file. If users need 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.

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

#### **Delete File**

- 1. Go to Home screen->Applications->File Manager.
- 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 out for users to confirm whether to delete the file or not.
- 6. Press "OK" key to delete the file successfully.

Users 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->File Manager.
- 2. Open the target folder.
- 3. Press the yellow shortcut key and select the file.
- 4. Press MENU key Ξ on GVC3200/GVC3202 remote control and select "Rename".
- 5. Input the new file name in the pop out dialog and press "OK" key to save.

Press 🗢 on GVC3200/GVC3202 remote control to cancel the operation.

## Recording

GVC3200/GVC3202 recording application is used for the storage of call recording files in video conferencing. Users can play, export, lock/unlock, send, rename or delete these recordings and etc. The recording screen is as shown below:



Figure 55: GVC3200/GVC3202 Recording Screen

• Press "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, and lock/unlock.

#### **Save Path**

Users can change the default save path for recording to internal storage, a plugged SD card or USB storage device:

- 1. Go to Home screen -> Applications -> Recording.
- 2. Press the MENU key  $\equiv$  on remote control and select "Settings".
- 3. Plug in external SD card or USB storage device, and select the Recording Save Path.

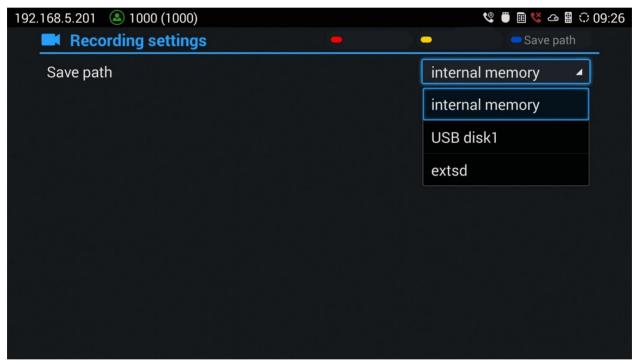


Figure 56: GVC3200/GVC3202 Default Save Path



- The locked files can't be deleted or overwritten, and cannot be shown in the third party application, but can be viewed in GVC3200/GVC3202 video application.
- When the recording size exceeds 1.9G, the GVC3200/3202 will create a new file automatically to continue recording. There will be a prompt to indicate the storage space is insufficient if the disk storage is full.





## Backup

## **Backup Data**

GVC3200/GVC3202 BACKUP application is used to back up data or import backup files to restore data. It can be accessed from Home screen->Applications->Backup. The default screen will list available backup files (if any) and backup options.

192.168.40.109 🕓 test(test)			♦ 🛛 🗘 19:31
🕥 Backup	🗢 New Backup	— Auto Backup 🛛 💻	Delete
	teri ale e superior de la composición d Antes ale		New Backup
			Auto Backup
			Delete
			Backup Setting
			Refresh
	No backup files!		

Figure 57: GVC3200/GVC3202 Backup App

GVC3200/GVC3202 supports manual backup and automatic backup:

- Press the red shortcut key on the remote control to create new backup manually. The user will select data and press the blue shortcut key to start backup.
- Press the yellow shortcut key on the remote control to access automatic backup. Then configure each parameter for automatic backup.





192.	168.128.104 🛛 🙆 3046(3046)				15:45
	🕥 Auto backup	Auto on	- Frequency	Time	
	Enable Automatic Backup				$\supset$
	Backup Frequency			ected!	
	Set Time				
	Backup Items				

Figure 58: GVC3200/GVC3202 Automatic Backup Screen

#### **Restore Backup Data**

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

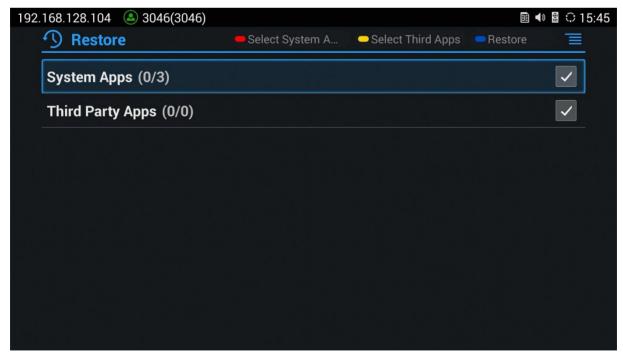


Figure 59: GVC3200/GVC3202 Restore Backup Data Screen





#### 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.

# 

Insert SD card or USB flash drive to the GVC3200/GVC3202 before configuring backup path.

## Diagnosis

When troubleshooting GVC3200/GVC3202, users could go to GVC3200/GVC3202 home screen-> Applications-> Diagnosis . Tap on the option and follow the instructions on each function to perform Camera Test, Remote Control Key Test, Bulid-in Speaker Test and etc. During the test, users could press the BACK key or follow the prompt to exit the test.

Diagnosis
udio Loopback Test
Built-in Speaker Test
Camera Test
IDMI/VGA Input Test
Remote Control Key Test
Remote Control Touchpad Test
an and Temperature Test
DLED Test
ED Test

#### Figure 60: GVC3200/GVC3202 Diagnosis Screen





### Browser

Users could browse web page, view news and watch video via the built-in GVC3200/GVC3202 Browser.

On home screen, select Application->Browser

- 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.

# Sync Local Schedule with Google Calendar

The GVC3200/GVC3202 supports schedule that can be accessed in LCD menu->Schedule (see section [Schedule]). The settings in this schedule are saved locally on GVC3200/GVC3202. If the user downloads and installs Google Calendar from Play Store to GVC3200/GVC3202, the local schedule can be synced up with Google Calendar.

Please follow the steps below to set up Google Calendar sync with GVC3200/GVC3202 schedule:

- Go to GVC3200/GVC3202 LCD menu->Applications->GS Market, download and install Google Play Store.
- 2. Sign in Google Play Store using your Google account. Download and install Google Calendar to GVC3200/GVC3202.
- 3. Open Google Calendar on GVC3200/GVC3202. Please update Google Play services if required by the device.
- 4. Once Google Calendar is successfully installed and opened on GVC3200/GVC3202, it should automatically sign in using the same Google account in step 2.
- 5. On GVC3200/GVC3202 LCD menu->Settings->System->Accounts->Google Account, select Google







192.168.40.229 🔕 675	5 (675)		🛎 🖬 📣 🚥 📓 🗘 17:58
🗭 System			
Language & inp	Add Account		$\oplus$
Date & time	8 Google		
Power manager			
Site name			
Storage			
Apps			
Accounts 🕨			
Web access			
Security			
	l ak "n suite fuite in si Suite fuite a suite suite suite	성상 1월 1일 - 영상 - 영어 1일 1일 전 1월 1일 - 일상 - 영어 - 1일 1일 - 전 1월 1일 - 일상 -	

Figure 61: LCD Menu->Settings->System->Accounts

# gstestwang2@gmail.com

6. Select the Google account Clast synced 03/02/2016 17:56

under Google accounts.

Language & inp	Accounts	
Date & time	gstestwang2@gmail.com      Last synced 03/02/2016 17:56	
Power manager Site name	Privacy	
Storage	Location	
Apps	Advertisement	
Accounts 🕨		
Web access		
Security		

Figure 62: Select the Google Account Used for Sign-In

7. Click on the checkbox for "Calendar" to enable calendar sync for this Google account.





192.168.40.229 🕓 675	5 (675)	🖬 🛎 📣 🔛 🖁 🗘 17:58
🗭 System		
Language & inp	gstestwang2@gmail.com 8 Google	
Date & time	Google Fit data	
Power manager		
Site name	People details Last synced 03/02/2016 17:54	
Storage	App Data	
Apps	Last synced 03/02/2016 17:49	
Accounts ►	Calendar Last synced 03/02/2016 17:56	
Web access		
Security		
	그는 그 아파는 것이라고 하여는 소재하는 것이 같아.	

Figure 63: Enable Calendar Sync for the Google Account

8. On GVC3200/GVC3202 LCD menu->Schedule, click on the upper right MENU icon->Settings.

192.168.40.229			🗳 🔹 🗣 📟 🖺 🗘 17:59
📸 Schedule	📞 Start confer 🛛 💻	Edit confere	New confere
	No schedule		New conference
	NU SCHEUUR		Settings
에 있는 것 같은 것 같은 것 같이 있는 것 같이 있는 것 같이 있는 것 같이 있다. 같이 같은 것 같은 것 같은 것 같은 것 같이 있는 것 같이 있는 것 같이 있는 것 같이 있는 것 같이 같이 있는 것 같이 같이 있는 것 같이 같이 같은 것 같은 것 같은 것 같은 것 같이 있는 것 같			
이 동안 전에 걸려진 동안 가지 않는 것은 동안 전에 대한 것은 것은 것이 같이 있는 것은 동안 전에 대한 것을 것이 같이 같이 있는 것이다.			
이 영양에서 100 명이 해당 전에 있다. 이 영양에서 100 명이 있는 것이 있는 것이 있는 것이 없다. 것이 같이 있는 것이 없는 것이 없는 같이 있는 것이 있는 것이 있는 것이 있는 것이 없는 것이 않 같이 있는 것이 있는 것이 있는 것이 있는 것이 없는 것이 없			
이 가에 가 이 가 가지 않는다. 에 바이에 관리는 전에 가지 않는 것이다.			
: 에너무 아파르킹 전 레이지 않는다. 1996년 - 1997년 - 19 1997년 - 1997년 - 1997년 1997년 - 1997년 -			

Figure 64: GVC3200/GVC3202 Schedule->Settings

9. Enable Google Calendar by selecting the checkbox for the Google account. Set the sync interval, e.g., Every 5 mins.





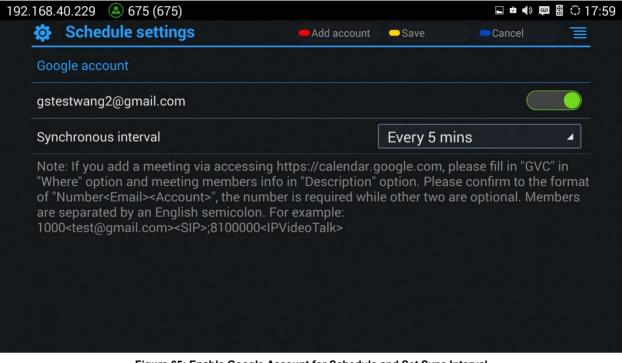


Figure 65: Enable Google Account for Schedule and Set Sync Interval

Now your GVC3200/GVC3202 has Google account successfully associated with schedule. The scheduled conference from GVC3200/GVC3202 or Google Calendar can sync up with each other. Here is how to use it.

- To schedule meeting using Google Calendar and then sync up on GVC3200/GVC3202 schedule
  - 1. When creating a new event in Google Calendar, please enter "*GVC*" in "Where" option.
  - Then enter meeting members in "Description" option. The meeting members should be in the format: *Number<Email><Account>*. "*Number*" is required while the other two fields are optional. Multiple meeting members need to be separated by semi-colon in English input method. For example, 1000<test@gmail.com><SIP>;8100000<IPVideoTalk>;1001





Google	Search Calendar					
<b>+</b>	SAVE Discard changes Delete More Actions					
Product Re	Product Review					
3/3/2016	10:00am to 11:00am 3/3/2016 Time zone					
🗌 All day 🗌 R	Repeat					
Event details	Find a time					
Where	GVC map					
Video call	Add video call					
Calendar	Gstest Wang					
Description	1111 <ipvideotalk>;2222<gstestwang1@gmail.com>;3333<sip></sip></gstestwang1@gmail.com></ipvideotalk>					

Figure 66: Creating New Event in Google Calendar

3. The new event will be displayed in GVC3200/GVC3202 schedule shortly.

e
n

Figure 67: Google Calendar Event Synced in Schedule

• To schedule meeting on GVC3200/GVC3202 and then sync up with Google Calendar





On GVC3200/GVC3202 LCD idle screen (or web UI->Contacts)->Schedule, select the Google account as the "Related Account" and fill up other details to schedule the conference using Google account. The created conference will be synced up in Google Calendar.

192.168.40.229 🕓 675 (675)		L 🗘 🌒 🚥	🖺 🗘 18:06
🙊 New conference 🗧	Save	Cancel	
Related account	Lo	cal	4
Subject	Lo	cal	
Members	gs	testwang2@gma	iil.com
Start time	20	16-03-02 18:06	
End time	20	16-03-02 19:06	
Remind time	10 M	/linutes in advance	✓
Auto join conference for scheduled members without PIN	code		$\checkmark$
PIN code	0-1	0 digits	
Repeat	Or	e-time event	

Figure 68: Set "Related Account" to Google Account

# **Custom App on Home Screen**

Users could add one app to the home screen for easy access. GVC3200/GVC3202 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 "OK" key to confirm. The system will go back to Home screen automatically and users could find the app has already been added.

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

# **Uninstall Application**

The applications (except the system applications) on GVC3200/GVC3202 can be uninstalled. Go to LCD Home screen->Applications, click on  $\equiv$  and select "Uninstall Mode". Users will see the apps that can be





deleted shown with 🛛 icon. Select and confirm the uninstallation.

Once done, Press  $\bigcirc$  on the remote control, or press  $\equiv$  to go back to normal mode.





# **GS MARKET**

GVC3200/GVC3202 provides access to apps directly via built-in GS market. Users could download the apps from the market and install to GVC3200/GVC3202.

## **Search Apps**

On GVC3200/GVC3202 Home screen, click on Applications->GS Market . Users could view the apps by category, or input key words and click on SEARCH icon to search the app.

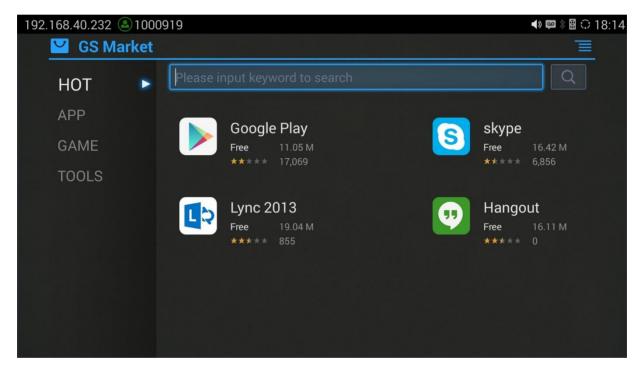


Figure 69: GVC3200/GVC3202 GS Market

# **Download and Install Apps**

- Users could see that if the app has been installed or downloaded by pressing the blue shortcut key.
- Press MENU key  $\equiv$  to view the downloaded apps and installed apps.
- Users could press the blue shortcut key on GVC3200/GVC3202 remote control to cancel download in process.
- The installing process will be started automatically 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**

GVC3200/GVC3202 will detect to update automatically if there is new version available for the installed apps when the network connection is normal. Users can view the relevant information, and update apps on the Installed screen.





# **IPVIDEOTALK**

The GVC3200/GVC3202 has a built-in IPVideoTalk account that requires the user to activate it before using it. The IPVideoTalk application provides an interface for the user to manage this service on the GVC3200/GVC3202, e.g., view enterprise directory contacts, check and reply to notices from IPVideoTalk server as well as change IPVideoTalk settings. The user can access IPVideoTalk application from

LCD->Applications->IPVideoTalk



Before using IPVideoTalk Service, please make sure the GVC3200/GVC3202 is on firmware version 1.0.1.62 or later. If the GVC3200/GVC3202's firmware version is too low, an upgrading prompt will be sent to Notices inbox on the GVC3200/GVC3202, in order to indicate to download and upgrade the firmware. Please refer to the Chapter **Error! Reference source not found.** for more details.

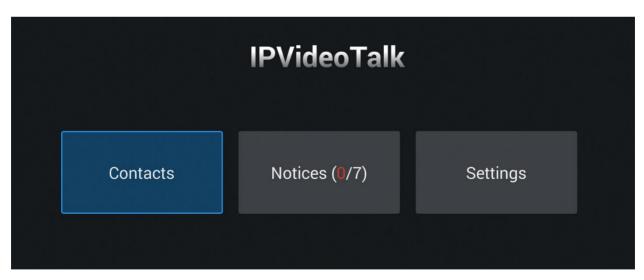


Figure 70: GVC3200/GVC3202 IPVideoTalk Application

# **Contacts**

The contacts are managed centrally in the server side. Users can access by selecting "Contacts".





Grandstream Networks Scall	e Refresh	- Search	😑 Batch Call	Ξ
/				
SOS-4				
🙎 Boston-3				
2 Boston-5				
2 Boston-7				
2 Boston-8				
2 Boston_Conf2				
🙎 Chicago				

Figure 71: IPVideoTalk Application->Enterprise Directory

🙎 . offline - 🙎

- In Contacts, the users can view account status: online -
- Users can also view Contacts types:



b. Regular contacts with name, phone number, Email address etc.

c. Public GVC3200/GVC3202 Device with an IPVideoTalk ID.

- Select an entry in the directory and press the Green Call button Son the GVC3200/GVC3202 remote control to call this contact.
- Press the red shortcut key on the GVC3200/GVC3202 remote control to refresh the directory.
- Press the yellow shortcut key on the GVC3200/GVC3202 remote control to search contacts in the directory.
- Press the blue shortcut key on the GVC3200/GVC3202 remote control to select entries and make a batch call to multiple contacts in the directory.





Grandstream Netw	orks 📞 B	atch Call 🛛 🛑 Refresh	- Upper Level	Cancel	
Selected member: BOS-4	/				
Boston-3	2	BOS-4			<ul> <li>Image: A start of the start of</li></ul>
Boston-5	<u> </u>	Boston-3			$\checkmark$
	2	Boston-5			
	2	Boston-7			$\checkmark$
	2	Boston-8			$\checkmark$
	2	Boston_Conf2			$\checkmark$
	2	Chicago			$\checkmark$

Figure 72: IPVideoTalk Application->Enterprise Directory: Batch Call

# **Notices**

In the IPVideoTalk application, any incoming messages from the server side will be displayed in "Notices". In the following figure, "2" indicates the number of new message and "3" indicates the number of total messages.

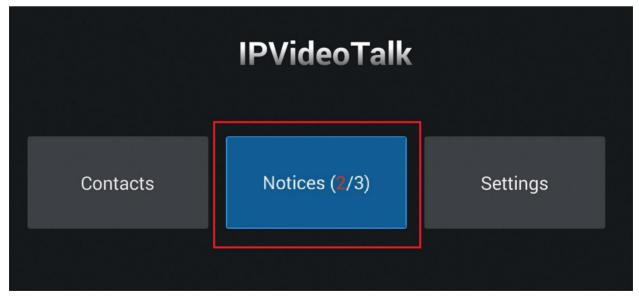


Figure 73: IPVideoTalk Application->Notices

Click on "Notices" to access the messages. Use the navigations keys/OK keys on the GVC3200/GVC3202





remote control to select and read the messages. For the messages that requires user's reply, a prompt will pop up for the users to make a selection.

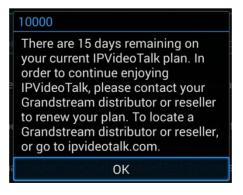
	ОК		
Grandstream Networks, Inc. Ad	You have successfully joined Grandstream Networks, Inc	your IPV1	
	10000		
D Notices	🗢 Delete 🔍	Batch Delete	

Figure 74: IPVideoTalk Application->Notices: Message Prompt

When IPVideoTalk plan is about to expire or already expired, a message will appear on the bottom of GVC3200/GVC3202 LCD home screen. Press yellow short key to view message details.

# Press the — button to details There are 15 days remaining on your current IPVideoTalk plan. In order to continue enjoying IPVideoTalk, please contact your Grandstream distributor or reseller to renew your plan. To locate a Grandstream...

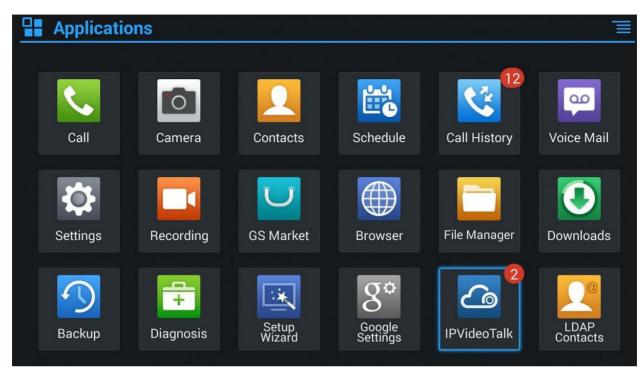
Also, detailed information is on GVC3200/GVC3202 LCD menu->Applications->IPVideoTalk application->Notices.



If there are new incoming messages for the IPVideoTalk account, users will see indicator icon on the top status bar. Also on the upper right corner of the IPVideoTalk application icon in Application menu, users







will see the number of new messages displayed.

Figure 75: Message Indicator for IPVideoTalk Application

# **Settings**

In the IPVideoTalk application, click on "Settings" to configure "Account Active" and "Display Name" for the IPVideoTalk account on GVC3200/GVC3202. The users could also click on "Device Code", "Current plans", "Business" for more plan details. Besides, current IPVideoTalk version information will be shown under "Application Information".





192.	168.40.156	lPVideoTalk (8200041) 🔕				🕄 18:14
	Settings		Default account	- Save	Cancel	E
	Account ac	otive			$\square$	
	Display naı	me				
	Trial servic	e address			0.0.0	0.0
	Account in	formation				
	Device cod	<b>e</b> (Click for details)			030	0300
	Number				8200	041
	Current pla	INS (Click for details)		The plan	IPVideoTa expires in May 14	
	Business	(Click for details)		Gran	dstream Netw	orks
	Internal nu	mber				
	Application	ninformation				
	IPVideoTal	k version			1.0.	0.12

Figure 76: IPVideoTalk Account Settings

# Join an IPVideoTalk Meeting

Users can join an IPVideoTalk meeting by dialing the host GVC3200/GVC3202's IPVideoTalk ID or meeting ID. Please note only after meeting starts, GVC3200/GVC3202 can use this method to join the conference as a participant.

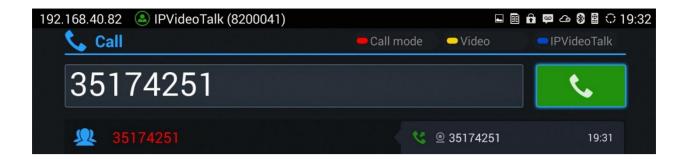
• Dialing host GVC3200/GVC3202's IPVideoTalk ID to join an active meeting

192.168.40.82	IPVideoTalk (8200041)			🗭 🗗 🗠 🕸 🖩 🗘 18:36
📞 Call		🗢 Call mode	— Video	IPVideoTalk
8200443	Enter phone number			<b>\$</b>
<u></u> 82004	43		. 8200443	18:35

• Dialing meeting ID to join an active meeting.







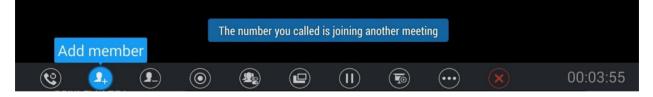
#### **Busy Tone Responses**

Please note GVC320x can only join one IPVideoTalk meeting at one time.

Note that a specific busy response messages rather than SIP 486 busy error prompt on IPVideoTalk dialing interface when trying "The number you dialed is hosting another meeting". Host GVC cannot be added as a participant of another IPVideoTalk meeting.

Dedial			Tł	ie number y	vou called i	s hosting aı	nother meet	ing	
Redial									
٢	<b>9</b> +	<b>9</b> _	٢					•••	00:03:18

"The number you dialed is joining another meeting". Participant GVC of an active IPVideoTalk meeting cannot be added to another meeting.



#### Manually Start IPVideoTalk Tip

If a meeting is scheduled from IPVideoTalk Web Portal, then the meeting will sync to host GVC3200/GVC3202 device LCD -> Schedule interface. There will be a prompt message "Manually start the meeting will need to re-schedule, please confirm" when pressing CALL button on remoter to start the meeting manually before or after scheduled time.





192.168.4	40.82 🔕 IPVideoTalk	(8200041)		🔒 📟 🗠 🕸 🖺 🗘 18:56
Ë	Schedule		👄 Edit confere	
	2016-05-31			
	Co LA TEST Host: IPVideoTalk		ime: 19:00-20:00	
		Prompt		
		Manually start the n need to re-schedule		
		Cancel	ок	

Figure 77: Manually start Scheduled Meeting

For more information about your IPVideoTalk services, settings, how to manage accounts and schedule meetings, please check IPVideoTalk user manual from http://www.ipvideotalk.com





# GVC3200/GVC3202 WEB UI FEATURES

GVC3200/GVC3202 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/GVC3202 Web GUI

The IP address of GVC3200/GVC3202 displays on OLED display screen on the front panel.

To access GVC3200/GVC3202 Web GUI:

- 1. Connect the computer to the same network as GVC3200/GVC3202.
- 2. Make sure GVC3200/GVC3202 is turned on and shows its IP address on OLED display screen.
- 3. Open a Web browser on your computer.
- 4. Enter GVC3200/GVC3202'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.

	GVC3200
Vi	ideo Conferencing System
	Username
	Password
	English 🗸
	中文
	Login

Figure 78: GVC3200 Web GUI - Login

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





# **Saving Changes**

When changing any setting on GVC3200/GVC3202 web UI, users need to submit them by pressing the SAVE button on the bottom of the page, and then, click the Apply button on the top of the page to apply the

configuration changes. For those options with  $\stackrel{\textcircled{}}{=}$  next to it on the Web page, users have to reboot GVC3200/GVC3202 to take effect.

# Definitions

This section describes the 6 options on GVC3200/GVC3202 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 account, Blue Jeans account, Network Settings, Peripheral, Call Features, General Settings, and Security Settings

- Maintenance
   Upgrade, Recording, Time & Language, Troubleshooting, Reboot
- Status

Account Status, Peripheral Status, Network Status, System Info and Remote Control

Users can log in as an administrator or a normal user. The following table shows the web pages accessible by normal user and administrator. It is recommended to change the default password for user and administrator after login for the first time.





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

#### Table 24: GVC3200/GVC3202 Web Access

## Toolbar

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



Figure 79: GVC3200/GVC3202 Web UI Tool Bar

• DND

It is used to turn on/off DND mode. Once it is 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/GVC3202 Web UI call page is shown below. Users could make calls and initiate conference from Web UI.





Call	Contacts	Device Control	Settings	Maintenance	Status	
Account info		Input phone number Multiply numbers ca			Dial out	
<b>0</b> 675	675		50	elect call mode		
IPVideoTalk	8200041		50		Call • Video •	
BlueJeans		<b>£</b> 3090			2015/06/08 10:50	Ì
		<u> 40</u> 3090			2015/06/08 10:18	
Account registration s	atus is shown here	<b>£</b> 3090			2015/06/08 10:14	
		<b>火</b> 3004			2015/06/06 14:43	1
Reservation statu	S	👤 IPcall			2015/06/06 14:23	6
Schedule Product Re	eview will start	👤 IPcall			2015/06/06 14:19	
in 15 Hours 4 Minute	9S.	👤 IPcall			2015/06/06 14:17	
Latest conferer information is di		👤 IPcall			2015/06/06 14:15	
		👤 IPcall			2015/06/06 14:15	
		👤 IPcall			2015/06/06 14:14	
		Display all c	all history			

Figure 80: GVC3200/GVC3202 Web UI - Cal

#### Making a Call

Enter phone number in input box, and select call mode, tap on button to dial out; or, select one

call history entry in the list below and click on  $\bigcirc$  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.





G	٧C	3200	)				DND	Remote Con	trol   English	▼   Logout
	С		Contacts	Device Contr	ol Sett	tings	Mainten	ance	Status	
	-	_	_		_	_	_	_	_	
	Со	nference								
	•	Local						<b>L</b>		0
	1	8200040		8200040	Video Ta	lking (IPVid	e	₽ <b>€</b>	<u> </u>	
							Mute	Block	Video Suppo	nd Camera End
>				Conference Members			(Cannot b	block be (Cannot ( hear others)	ON/OFF	Control Call
			erence ntrol Recor	ding Add Member	Delete Member	PIN Code	Open DTMF	Call Detai	ls End Cal	
					Θ			i	×	
				All Rights Re	served Grandstrea	am Networks, I	nc. 2015			

Figure 81: GVC3200/GVC3202 Web UI - Conference Status

Click on the icon for "Conference Control", users will see a list of control icons on the bottom which are also available in LCD call screen.





G	VC	3200						DND   Ren	note Cor	ntrol	English	<b>*</b>	Logout	
			Contacts	Device C	ontrol	Settings	Ma	aintenance		Sta	tus			
		_	_	_		_		_						
	Co	nference												
	<u>•</u>	Local						Ţ	<b>₩</b> E			$\bigcirc$	$\cap$	
		8200040		8200040		Video Talking (	IPVide…	Ţ	<b>€</b>	۲		$\bigcirc$	0	1
>			Hold	Mute All	Block All	Suspend All	Layout	Presentatio ON/OFF	Sub	ritch to stream				

Figure 82: GVC3200/GVC3202 Web UI - Conference Control

# **Contacts Page**

This page lists Contacts, Schedule and Call History.

#### Contacts

Users could search/add/delete/edit contacts 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.





GVC3200				DND   Remote	Control   English 🔻   Logout
Call	Contacts	Device Control	Settings	Maintenance	Status
<ul> <li>Contacts         <ul> <li>Contacts</li> <li>Groups</li> </ul> </li> <li>Schedule</li> <li>Call History</li> </ul>		5 contacts Alex Wong Andy Duke Betty White Jane Doe John Doe Import Export Downloa		Name	Andy Duke (Home , IPVideoTalk Pro) 12345
		Delete More	Add		Edit

#### Figure 83: GVC3200/GVC3202 Web UI - Contacts



- Click on where next to the contact to dial the contact.
- Click on "More" to open more options such as export, import and download contact.
- Select "Import" option and users will find import screen on the right. Refer to chapter BATCH IMPORT CONTACTS for more details.
- Select "Export" option and users will find export screen on the right. Refer to chapter *EXPORT* CONTACTS for more details.
- Select "Download" option and users will find download screen on the right. Refer to chapter *DOWNLOAD CONTACT* for more details.
- Click on Add and users will find Add Contact screen on the right. Fill in contact information and save.
- Click on Edit and users will find Edit Contact screen on the right. Edit contact information and save.
- Click on the checkbox for "Delete" and users can select the contacts to delete from GVC3200/GVC3202.





#### Groups

GVC3200 supports up to 9-way video conference and GVC3202 supports up to 3-way video conference, including the GVC3200/GVC3202 itself. For GVC3200, if there are more than 8 conference members, only the first 8 members in the group will be dialed; For GVC3202, if there are more than 2 conference members, only the first 2 members in the group will be dialed.

GVC3200				DND   Remote Contr	ol   English <del>-</del>   Logout
Call	Contacts	Device Control	Settings	Maintenance	Status
<b>1</b> Contacts	~ <u>•</u>	Sales	2 Members	Name	Managers
Contacts		Customer Support	2 Members	Group Members	
Groups		Managers	0		
Schedule				Andy Duke	12345
🔮 Call History	>			John Doe	
				John Doe	3333
					e
		Delete	Add		Edit

Figure 84: GVC3200/GVC3202 Web UI - Groups

- Click on vert to the group to call the contacts in the group.
- Click on Add and users will find Add Group screen on the right. Select group members from existing contacts and save.
- Click on Edit and users will find Edit Group screen on the right. Edit Group information and save.
- Click on the checkbox for "Delete" and users can select the groups to delete from GVC3200/GVC3202.





#### Schedule

Conference can be scheduled, edited and deleted from web UI. See figure below. Please refer to chapter **SCHEDULE** for more details for each option.

GVC3200	)			DND   Remote C	- Control   English <del>-</del>   Logout
Call	Contacts	Device Control	Settings	Maintenance	Status
<ul> <li>Contacts</li> <li>Schedule</li> <li>Call History</li> <li>LDAP</li> </ul>	> 2015	-11-03 roduct Review ost:Me	© 00:22 Time 12:30 - 13:30	Conference Name Start Time End Time Remind Time Auto Join Conference fo Members without PIN Code PIN Code Repeat Members of Conference 1 5550000 1 2000000 1 GVC3200 Support	Product Review         2015-11-03 12:30         2015-11-03 13:30         ☑ 10 Minutes in Advance         r Scheduled         Disable         1234         One-time event         te (3)         5550000         2000000
		elete	Add		Edit

#### Figure 85: GVC3200/GVC3202 Web Page - Schedule

- Click on Add and users will find Add Schedule screen on the right. Click on "Save" after configuring the schedule.
- Click on Edit and users will find Edit Schedule screen on the right. Click on "Save" after editing the schedule.
- Click on the checkbox for "Delete" and users can select the schedules to delete from GVC3200/GVC3202.
- Move the cursor to the scheduled conference where the scheduled time is displayed, icon will appear for the user to dial out immediately.





#### **Call History**

GVC3200	)			DND   Remote C	control   English 🔻   Logou	t
Call	Contacts	Device Control	Settings	Maintenance	Status	
L Contacts	<b>,</b> 🗆 🗷	Product Review	Ŀ 🔇	Product Review		0
Schedule	0 🤐	8200040	16:49 2015/08/24	V (144671454	2015/08/24 18:17 01sec	
Call History	× 0 🤵	7974391234	12:46 2015/08/21	V 💽 7974391234	2015/08/24 18:17 01sec	
All Missed		7974391234	12:45 2015/08/21	V 🕑 8200040	2015/08/24 18:17 00sec	
	0 🧕	7974391234	12:39 2015/08/21			
		7974391234	12:30 2015/08/21			
		7974391234	12:28 2015/08/21			1
		7974391234	12:09 2015/08/21			C
		7974391234	12:06 2015/08/21			
	0 🧶	7974391234	12:05 2015/08/21			
		7974391234	12:03 2015/08/21			
	0 🧟	7974391234	11:40 2015/08/21			
	0 🧟	7974391234	11:40			
		Delete				

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

#### Figure 86: GVC3200/GVC3202 Web UI - Call History

The call history details will be displayed on the right side when there is one entry selected. Users can also

move the cursor to the call history time to add this call to schedule by clicking on  ${\displaystyle\smile}$  , or dial out

immediately by clicking on

#### LDAP

This section is the same as LDAP settings under chapter LDAP contacts. Please refer to **Error! Reference s ource not found.** for more details.





# **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 un-configured preset, and adjust via the PTZ control panel on the right, then save the configurations.

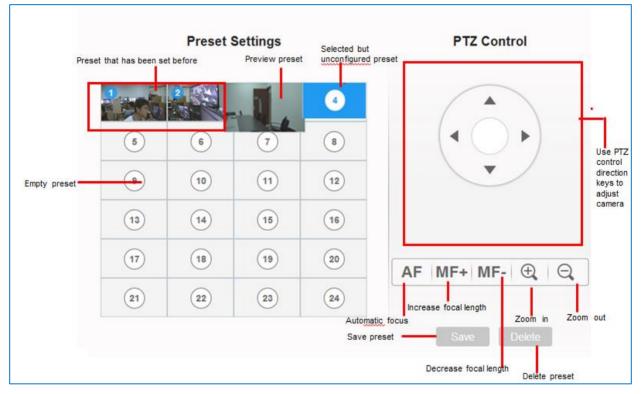


Figure 87: GVC3200/GVC3202 Web UI - Video Control

#### **Audio Control**

Table 25: GVC3200/GVC3202 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.
Device Ringtone	Select device ringtone from the dropdown list.





Notification Ringtone	Select device notification ringtone from the dropdown list.	
Audio Device	<ul> <li>Select the audio device that the GVC3200/GVC3202 will use for audio input and output during call or playing media. The options are "Auto", "Bluetooth", "USB" and "HDMI".</li> <li>Auto GVC3200/GVC3202 will automatically detect whether any USB, Bluetooth or HDMI devices are connected. If only one of them is connected, it will be used as the audio device. If two or three are connected, the priority is "Bluetooth"&gt;"USB"&gt;"HDMI".</li> <li>Bluetooth The Bluetooth The Bluetooth audio device will be used for audio input and output.</li> <li>USB The USB audio device will be used for audio input and output.</li> <li>HDMI The audio input comes from the built-in MIC in GVC3200/GVC3202 and the audio output comes from HDMI.</li> </ul>	
	The default settings is "Auto".	
Call Progress Tones:	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.	
Ring Back Tone	Frequencies should be configured with known values to avoid uncomfortable high pitch sounds.	
Busy Tone	Syntax: f1=val, f2=val [,c=on1/off1[-on2/off2[-on3/off3]]]; (Frequencies are in Hz and cadence on and off are in 10ms)	
Reorder Tone		
Confirmation Tone	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.	
Call-waiting Tone	<b>Ring Back Tone:</b> Users can configure ring back tone which is the tone the caller will hear before the callee answers the call. The default value: f1=440@-19,f2=480@-19,c=2000/4000;	





	<ul> <li>Busy Tone: Users can configure busy tone which will be heard if the callee is busy or on DND. The default value: f1=480@-24,f2=620@-24,c=500/500;</li> <li>Reorder Tone: Users can configure reorder tone which will be heard when the call fails to be established such as wrong account number is dialed, or the call is timed out. The default value: f1=480@-24,f2=620@-24,c=250/250;</li> </ul>
	Confirmation Tone: Users can configure confirmation tone which will be heard when the callee enables 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.
	<b>Call Waiting Tone:</b> Users can configure call waiting tone when there is another incoming call during the call. The default value: f1=440@-13,c=300/2000-300/2000-0/0.
Call-Waiting Tone Gain	This configures the call-waiting tone gain. By default, they are set to the North American standard. Users could select "Low", "Medium" or "High". The default setting is "Low".
Ring Cadence	Configure the default ring cadence for the ring back tone. The default setting is $c=2000/4000;$





# FACTORY RESET

Users could reset GVC3200/GVC3202 to factory settings via the following ways: Reset via local GUI, via Web page, via the reset hole on the back panel of GVC3200/GVC3202. Factory reset will delete configuration info and syslog info.

# Warning:

- 1. Factory reset will erase all GVC3200/GVC3202 configuration information. Please back up all settings or print useful information before making the following operations. If users lose all parameters or records, Grandstream will not take responsibility for the damage or loss.
- 2. After factory reset, the remote control will not be paired to GVC3200/GVC3202 anymore. Please go to GVC3200/GVC3202 LCD settings->Network->Bluetooth, select the menu buttons on the upper right and click "Search New Devices". GVC3200/GVC3202 remote control "GS-RCU" with last 4 digits of the remote control MAC address will show in the available device list. Select it to start pairing process on GVC3200/GVC3202, immediately followed by pressing OK+5 keys on the remote control at the same time. The remote control will be paired and connected to GVC3200/GVC3202 again.

# **Reset via LCD**

Go to GVC3200/GVC3202 LCD idle screen->Settings->Maintenance->Factory Reset, click on the "Reset" button to bring up the prompt box as shown below. Click "OK" to reboot the device and restore factory settings.

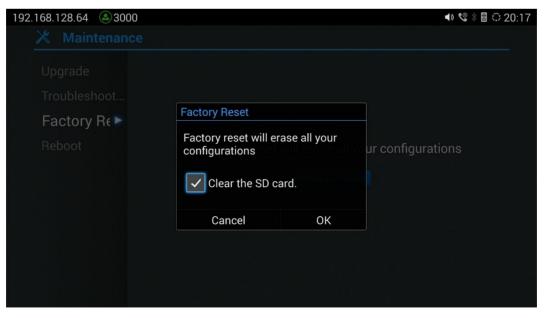


Figure 88: Factory Reset via LCD





# **Reset via Web UI**

1. Log in GVC3200/GVC3202 Web UI->Maintenance->Upgrade, the "Factory Reset" option is on the bottom of the page.

Figure 89: GVC3200/GVC3202 Web UI - Factory Reset						
Factory Reset :	Clear the SD card.	Reset				

2. Click the "Reset" button to bring up the prompt box as shown below. Click "OK" to reboot the device, and restore factory settings.

		Х			
Factory reset will erase all your settings and will reboot the device, are you sure to					
continue?					
	ок	Cancel			
		Guildon			

#### Figure 90: GVC3200/GVC3202 Web UI - Factory Reset Confirmation

# **Reset via Reset Hole**

There is a Reset hole on the back panel of GVC3200/GVC3202, use a small pin to hold against the Reset hole for more than 10 seconds to restore factory settings.





# **EXPERIENCING GVC3200/GVC3202**

Please visit our website: <u>http://www.grandstream.com</u> 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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