

Grandstream Networks, Inc.

GVC3210 / GVC3210 RMT

Video Conferencing Endpoint for Android $^{\rm TM}$

User Guide





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https://www.grandstream.com/support

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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 Authentication

For Video Conference Endpoint, model: GVC3210 FCC ID: YZZGVC3210

For Bluetooth Remote Control, model: GVC3210 RMT FCC ID: YZZGVC3210RMT

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.

FCC Radiation Exposure Statement:

For GVC3210

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. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For GVC3210 RMT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.





CE Authentication



In all EU member states, operation of 5150-5350 MHz is restricted to indoor use only.

Hereby, Grandstream Networks, Inc. declares that the radio equipment GVC3210 and GVC3210 RMT are in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

https://www.grandstream.com/support/resources/





GNU GPL INFORMATION

GVC3210 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: <u>https://www.grandstream.com/sites/default/files/Resources/gvc32xx-gpl.tar.gz</u>





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DOCUMENT PURPOSE

This User Guide describes the basic concept and tasks necessary to use and configure your GVC3210. 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>https://www.grandstream.com/support</u> to download the latest "GVC3210 Administration Guide".

This guide covers following topics:

- Product Overview
- Installing GVC3210
- <u>Getting to know GVC3210</u>
- <u>Connecting to Network and Devices</u>
- <u>Camera</u>
- Peripheral
- Making Phone Calls
- IPVideoTalk Conference
- Additional Functions
- <u>Applications</u>
- GS Market
- GVC3210 Web UI Features
- Factory Reset
- Experiencing GVC3210





CHANGE LOG

This section documents significant changes from previous versions of the GVC3210 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 1.0.1.76

• No major changes.

Firmware Version 1.0.1.74

• No major changes.

Firmware Version 1.0.1.73

• No major changes.

Firmware Version 1.0.1.59

• No major changes.

Firmware Version 1.0.1.57

• No major changes.

Firmware Version 1.0.1.56

- Added to support Camera Mirror feature. [Camera Parameters Configurations]
- Added to support to upgrade GVC3210 through USB drive in the Setup Wizard after factory reset the GVC3210 device. [Setup Wizard]

Firmware Version 1.0.1.49

- Supported 4K Video Call Recording on GVC3210. [Recording]
- Added Quick Configuration Function Scanning QR code in GVC3210. [Configuring GVC3210 using QR Code]
- Added support to record video files to one connected USB drive which has multiple partitions. [Recording Settings]
- Added pop up window when pressing the power button on the remote control. The popup menu includes functions: Power off, Sleep, and Reboot. [Remote Control Keys and Touchpad]
- Added support for UCM's conference control. [UCM Conference Control].
- Added new options to control IPVideoTalk meeting layouts. [Conference Management]





Firmware Version 1.0.1.21

• No major changes.

Firmware Version 1.0.1.20

• No major changes.

Firmware Version 1.0.1.18

• No major changes.

Firmware Version 1.0.1.16

• Supported to make the calls to Polycom MCU with the number format "IP##ID".

Firmware Version 1.0.1.13

• Added the option to check the Participants List on GVC3210 during an IPVideoTalk meeting. Users could check all participants in the current IPVideoTalk meeting. [Participants List]

Firmware Version 1.0.1.6

• This is the initial version.





WELCOME

Thank you for purchasing Grandstream GVC3210 Android[™] Video Conferencing Endpoint. This document introduces the LCD settings, web UI settings and advanced configurations of GVC3210. To learn the basic configuration and how to use GVC3210, please visit <u>https://www.grandstream.com/support</u> to download the latest "GVC3210 User Guide".

GVC3210 is a ground-breaking solution that offers small-to-medium businesses a revolutionary video conferencing Endpoint with unprecedented flexibility and the power of support for multiple popular video conferencing protocols and platforms right out of the box. The SIP-based GVC3210 supports Grandstream's robust IPVideoTalk cloud platform for plug and play video conferencing. Additionally, since it is based on Android[™] 6.0.1, the GVC3210 offers full access to all video conferencing applications.

The GVC3210 eliminates the traditional barriers to video conferencing and sets a new bar for businessclass video conferencing solutions by offering industry-leading flexibility, interoperability, system compatibility, application richness and ease of use.





PRODUCT OVERVIEW

Table 1: GVC3210 Technical Specifications			
Specification	Description		
Protocols / Standards	SIP RFC3261, BFCP, TIP, 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, H.323		
Camera	1/2.3", 16 Megapixel CMOS, 4K (2160p) Output		
Lens	90°field of view, ePTZ (3x digital zoom)		
Network Interface	1× RJ45 10/100/1000 Mbps		
Wi-Fi	Integrated dual-band 802.11 a/b/g/n/ac (2.4GHz & 5GHz)		
Bluetooth	Integrated Bluetooth		
Video Outputs	2x HDMI 1.4 up to 4K (2160p) with CEC		
Video Input	1x HDMI 1.4 with resolution up to 1080p		
MIC/Speaker	Built-in 4x MIC array		
Remote Control	Bluetooth and infrared remote control with multi-touch touchpad		
Auxiliary Ports	2x USB 2.0, micro-SD, Reset		
Voice Codecs	Support for G.711 μ /a, G.722 (wide-band), iLBC, OPUS, G.722.1, G.722.1c, G729A/B, in-band, and out-of-band DTMF (In audio, RFC2833, SIP INFO)		
Video Codecs	H.264 BP/MP/HP, video resolution up to 4K (2160p), frame rate up to 30 fps, bitrate up to 16Mbps		
Video Resolutions	4K (2160p@30fps) from 4096Kbps, 1080p@30fps from 1024Kbps, 720p@30fps from 512 Kbps, 4SIF/4CIF from 128 Kbps, SIF/CIF from 64 Kbps		
Content Resolutions (Screen Sharing)	Input: VGA, SVGA, XGA, 1280×600, WXGA, WXGA, SXGA, 1440×900, XGA+, 720p, 1600×1200, 1080p (HDMI), up to 60fps Encoding: 800×600, 1024×768, 1280×1024, 1280×720, 1920×1080 Output: 720p, 1080p		
Dual-Stream	BFCP, video resolution (up to 4K 2160p@30fps) + content resolution (up to 1080p@15fps)		
Audio Features	AEC, ANS, AGC, Noise Shield, PLC, CNG/VAD		
Video Features	FEC, dynamic display layout, picture-in-picture, picture-outside-picture, digital caption		
Telephony Features	Hold, forward (unconditional/no-answer/busy), downloadable phone book (XML, LDAP), call waiting, call history, flexible dial plan, personalized music ringtones, server redundancy & fail-over		
Sample Applications	Skype, Google Hangouts, Microsoft Lync, Web browser, Adobe Flash, Facebook, Twitter, YouTube, Google calendar, mobile phone data import/export via Bluetooth, etc. API/SDK available for advanced custom application development		





Applications Deployment	Allow various Android operation system 6.0 compliant applications to be developed, downloaded, and run in the embedded 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 / Local HTTP upload/ Via USB or Via SD-Card, mass provisioning using TR-069 or AES encrypted XML configuration file		
Power & Green Energy Efficiency	Input: 100~240VAC 50/60hz; output: 12V/2A 24W		
Package Content	GVC3210 video conferencing endpoint, remote control, 4 AAA batteries, universal power supply, network cable (1.5 meters), 2 HDMI cables (1.5-meter and 5-meter), lens cleaning cloth, mounting kit, quick installation guide, 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: FCC Part adapter)	15B; FCC Part 15C; FCC Part 15E; UL 60950 (power	
	CE: EN 55032; EN 55024; EN 61000-3-2; EN 61000-3-3; EN 60950-1; EN 301 489-1/17;EN 300 328; EN 301 893; EN 62311; EN 62479; RoHS		
	RCM: AS/NZS CISPR 32/24; AS/NZS 60950.1; AS/NZS 4268; ANATEL		
CE approval	Output power : GVC3210:		
	BT:	2.80dBm (BT 3.0), 6.05dBm (BT 4.0)	
	2.4G Wi-Fi:	16.58dBm (802.11 b), 17.23dBm (802.11 g), 16.84dBm (802.11 n20)	
	5G Wi-Fi:	17.66dBm (802.11 a), 17.19dBm (802.11 n20), 16.76dBm (802.11 n40), 17.13dBm (802.11 ac 20) 16.68dBm (802.11 ac 40), 16.86dBm (802.11 ac 80)	
	GVC3210 RMT:	2.13dBm (BT)	

Safety Compliances

GVC3210 complies with FCC/CE and various safety standards. GVC3210 power adapter is compliant with the UL standard. Use the universal power adapter provided with GVC3210 package only. The manufacturer's warranty does not cover damages to the device caused by unsupported power adapters





Warranty

If GVC3210 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 an RMA (Return Materials Authorization) number before the product is returned. Grandstream reserves the right to remedy warranty policy without prior notification.





INSTALLING GVC3210

Equipment Package Content

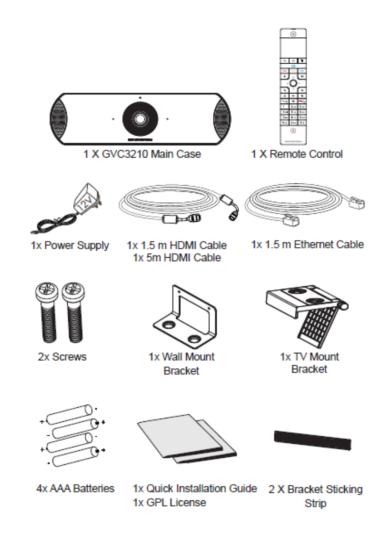


Figure 1:GVC3210 Package Content

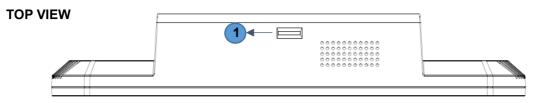
Table 2: GVC3210 Package List

GVC3210							
1x GVC3210 Main Case	1x TV mount bracket (Plastic bracket)						
1x Remote Control	2x screws						
1x 12V Universal Power Supply	1x Lens Cleaning Cloth						
1x 1.5m Ethernet Cable	1x Quick Installation Guide						
1x 1.5m HDMI Cable	1x GPL license						
1x 5m HDMI Cable	2x Bracket Sticking Strip						
1x Wall mount bracket (Metal bracket)	4x AAA batteries						

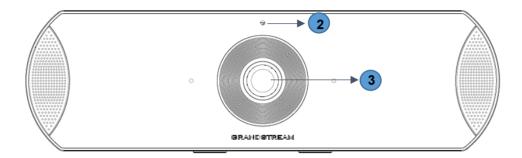




Connecting GVC3210



FRONT VIEW



BOTTOM VIEW

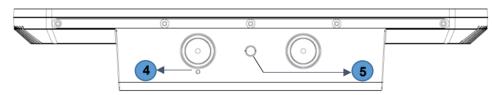


Figure 2:GVC3210 Front/Top/Bottom Panel

Table 3: GVC3210 Front Panel

NO.	Name	Description
1	Micro SD Card Slot	Insert micro-SD card to store call recordings and other necessary files.
2	LED Indicator	Power on / Normal Running: Green Standby: Flash red Shutdown: Red Pressing any key on the remote control - Green light flashes once.
3	Camera	1/2.3", 16 Megapixel CMOS, 4K (2160p) Output
4	Factory Reset Button	When GVC3210 is powered up, use a small pin to press the button one time to reboot or for more than 10 seconds to restore to factory settings.
5	Standard Tripod Hole	The GVC3210 can be screwed directly onto a Tripod. Users need to twist the GVC3210 and Tripod together until they are adequately joined using the standard Tripod Hole.





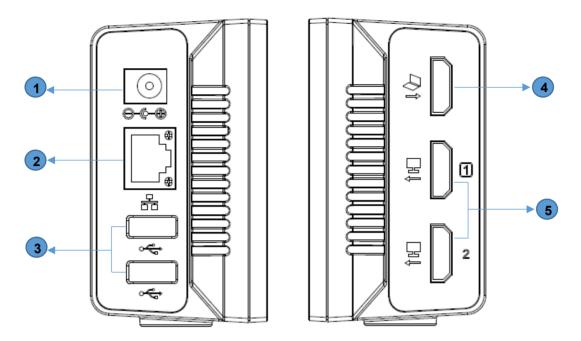


Figure 3: GVC3210 Right/Left Panel

Table 4: GVC3210 Back Panel

NO.	Name	Description				
1	Power Interface	Connect to power adapter. The arrow indicator on the power adapter should face upwards when the power adapter is plugged in.				
2	Network Interface	Connect to LAN port.				
3	USB Interfaces	Connect to USB cable or external speakerphone.				
4	HDMI Input Interface	Connect to HDMI input devices.				
5	HDMI Output Interface	 Connect to HDMI display devices. Notes: 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 and then HDMI port 2 if you have additional display devices. GVC3210 will not work correctly if connecting HDMI port 2 without HDMI port 1 connected. The HDMI Out Port 2 in not supported when the GVC3210 is using 4K resolution and only HDMI Out Port 1 can be used. 				





Please connect GVC3210 according to the following procedures:

- Connect the LAN port of the GVC3210 to the RJ-45 socket of a hub/switch or a router (LAN side of the router) using the Ethernet cable.
 Note: The GVC3210 supports Wi-Fi as well. It can be used to connect the GVC3210 to the network.
- Connect the HDMI [1] port of the GVC3210 to the HDMI port of the main display device (e.g., TV) using the HDMI cable. Connect HDMI port 2 if you have additional display devices.
 Note: Please make sure to follow the port order when connecting HDMI port 1 and 2. The GVC3210 will not work correctly if connecting HDMI port 2 without HDMI port 1 connected.
- 3. Connect the 12V DC output plug to the power jack on the GVC3210 and then plug the power adapter into an electrical outlet.
- The LED Indicator in the front of the GVC3210 will show if the device is ready to be used by changing the color from red to green.

Note: The display device (e.g., TV) will show the idle HOME screen with IP address on the top status bar as well.

- 5. Insert your micro-SD card into the micro-SD card slot. The recording files will be saved in Micro SD card.
- 6. (Optional) Connect presentation device (e.g., a laptop) to the GVC3210 HDMI IN port for presentation purpose during conference call.
- 7. (Optional) Connect USB accessory (e.g., mouse, keyboard, USB flash drive, ... etc.) to the USB port.

Note:

For detailed instructions about installing GVC3210 on wall mount and TV/Monitor mount etc., please refer to the GVC3210 quick installation guide on <u>www.grandstream.com</u>.

A sample of GVC3210 Right/Left panel connection is shown below:





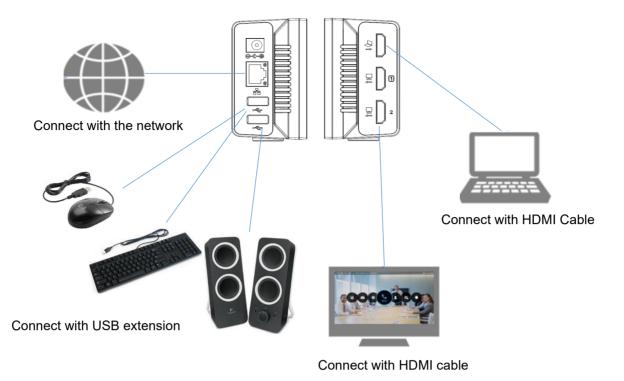


Figure 4: GVC3210 Right/Left Panel Connection Diagram

The following figure shows multiple GVC3210 devices deployed with other VoIP/network devices for video conference and collaboration.

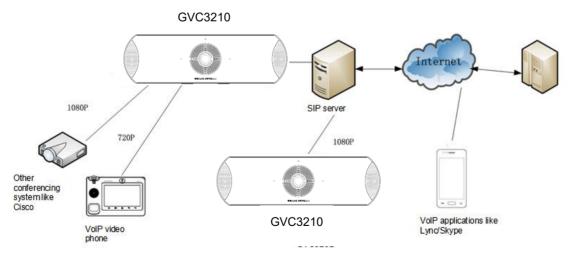


Figure 5: Deploy GVC3210 with other Devices

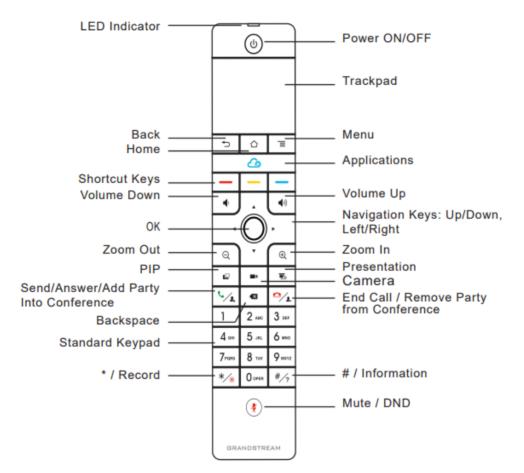


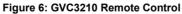


GETTING TO KNOW GVC3210

Remote Control

Remote Control Keys and Touchpad





Кеу	Name	Description
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 GVC3210 contacts list.

Table 5: GVC3210 Remote Control Keys





	Camera	Switch to EPTZ control mode during a call or in idle status.
	PIP	Switch screen layout in conference.
<u>¥</u>	Mute/DND	 Mute GVC3210 in conference. Press the MUTE key to enable/disable DND mode when GVC3210 is in idle.
To	Presentation	 Enable/Disable presentation function to send presentation to all members in the conference. Enable/Disable presentation function to show presentation on displayed device which is connected to HDMI output 1 as projection when GVC3210 is in standby mode.
\$	Send/Answer/Add Party into Conference	 Access the dial screen by default when GVC3210 is in idle mode. Enter phone number and press the key to dial out. Access the invite screen to add members in a conference. Press the key to bring out the backstage conference. Press the key to redial the last outgoing call.
<u>°/</u>	End Call/Remove Party from Conference	Delete members in conference.Hang up the conference.
	Backspace	Press the key to delete input characters.
	Navigation Keys: Up/Down/Left/Right	Press to adjust cursor movement.Control EPTZ movement in camera mode.
\bigcirc	ок	Press to confirm operations.Bring up the soft keypad when the cursor is in an input box.
ብ	Power On/Off	 LCD prompt shows following three options after pressing this key: Switch GVC3210 into sleep mode. Power Off Reboot





*⁄๏	*/Record	 Input * in input field. Used as "." when dialing direct IP call. For example, 192.168.40.5. Start/stop recording in camera control mode. Start/stop recording in a call. 				
#⁄?	#/Details	 Input "#" in input field. Used as ":" when dialing direct IP Call 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.				
Ē	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.				
Trackpad		 Slide on the trackpad to move the mouse cursor. Press the trackpad to confirm operations. Using two fingers to press on the trackpad and slide up/down for page up/down. 				





Using the Remote Control

GVC3210 remote control is connected to GVC3210 via Bluetooth or infrared connection, and it automatically uses infrared connection when the user receives GVC3210 package, then he may connect it to GVC3210 via Bluetooth.

Before using the remote control, please make sure that 4x AAA batteries are correctly installed on the back of the remote control.

1. Infrared connection:

Infrared signals are automatically used to connect the remote control to GVC3210. Users need to keep the two devices in front of each other without any substantial obstruction in between. The LED on the remote control is green when using infrared connection mode.

2. Bluetooth Connection

If the remote control is not paired with the GVC3210 anymore (e.g., a factory reset is made), press OK button and number 5 button at the same time for about 4 seconds. This will initiate pairing process on the remote control.

Note: The remote control needs to be placed within the Bluetooth effective range, i.e., 10m from GVC3210.

If the remote control fails to connect to GVC3210, 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.
- Long pressing "OK" button and number "5" button at the same time for about 4 seconds.

If GVC3210 remote control still does not work with the diagnosis above, please try another remote control or contact the device provider.

Capturing Screenshot using the Remote Control

To capture a screenshot on GVC3210, 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 GVC3210. The users can access the screenshot in GVC3210 LCD menu \rightarrow Applications \rightarrow File Manager \rightarrow Internal Storage \rightarrow Pictures \rightarrow Screenshot.

Please note that the screenshot captured here does not 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 Mouse & Keyboard

When the USB mouse is plugged into GVC3210, 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 clicks 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.

Using the LED Indicator

GVC3210 LED indicator is located right above the camera lens. It can be used to notify the users with current status of the device. Please refer to the status description below.

LED Indicator Status	Descriptions			
Solid Green	Booting or the device is already booted up			
Flash Green (per 0.5s)	Pressing any button on the remote control			
Flash Red (per 1s)	RebootingUpgradingFactory Reset			
Flash Red (per 0.2s)	Temperature > 80 degreeCamera connection failed			
Flash Red (per 2s)	Sleep mode			
Solid Blue	RecordingThe device is in a call			
Flash Blue (per 0.5s)	Pairing the remote control			
Blue/Red Alternately	Aging test			
OFF	Power off			

Table 6: GVC3210 LED Indicator Status Descriptions





Status Icons

GVC3210 status icons are displayed on the right side of top status bar on GVC3210 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 GVC3210 is in home screen.

192.	168.5	5.162 🕒 Aco	count (not co	onfigured)				🖬 🛍 🔛 1	15:02			
E	N	otices				Delete	- Clear all	🗢 Details				
		Screenshot captur Touch to view your s						15:02	2			
	î											

Figure 7: GVC3210 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.

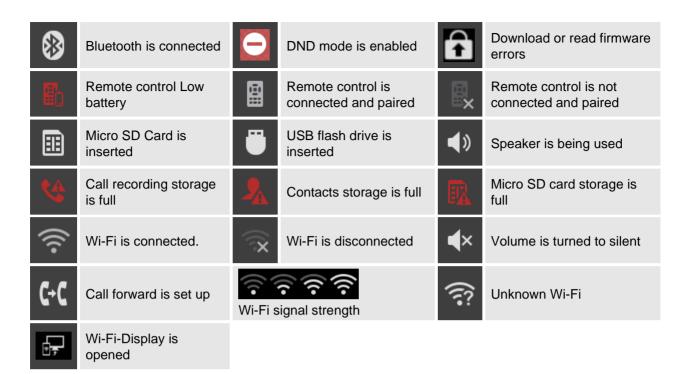
The following table lists the main status icons used on GVC3210.

lcon	Descriptions	lcon	Descriptions	lcon	Descriptions
%	Missed Call	5	Ongoing call	۹	Auto answer is enabled
臣	Ethernet is connected	Ęx	Ethernet is disconnected	臣	Trying to connect to the Ethernet
	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

Table 7: GVC3210 Status Icons Descriptions







Using the Onscreen Keyboard

English Keyboard

This is the default keyboard on GVC3210. The English keyboard supports multiple languages input

methods. Users could tap on to switch among different languages. See figure below.

q	2 W	е 8	4 r	t 5	б У	u 7	8	9 0	p	42
а	s	d	f	g	h	j	k	I		Next
Ŷ	z	x	с	v	b	n	m	i	?	¢
?123	롹	/						,	•	٢

Figure 8: Soft Keyboard - English Input Method

Tap on

仑

to switch Caps Lock:





Q	W 2	3 E	R	T	Y 6	U 7	8	9 0	Ρ	×
A	S	D	F	G	н	J	К	L		Next
•	Z	Х	С	v	В	Ν	М	:	?	+
?123		/						,		۲

Figure 9: English Input Method – Caps lock

Numbers and Symbols

To input numbers and symbols, tap on button 2123 on the default keyboard to switch to numbers/symbols. Tap on $\sim \sqrt{6}$ for more numbers/symbols.

1	2	3	4	5	6	7	8	9	0	421
@) #	\$	%	&		•	• ()		←
~ [<	\	=	*	"	-	:	;	!	?	~ [<
ABC	-	/						,		۲

Figure 10: Soft Keyboard - Symbols and Numbers

~	•		•	√	П	÷	×	٩	Δ	×
£	¢	€	¥	^	•	-		{ }		←
?123	ν.	©	ß	тм	%	I	1	i	ć	?123
ABC	<	>						,		۲

Figure 11: Soft Keyboard - More Symbols and Numbers

Home Screen

GVC3210 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 GVC3210 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 GVC3210 remote control to bring up the icons to display again.





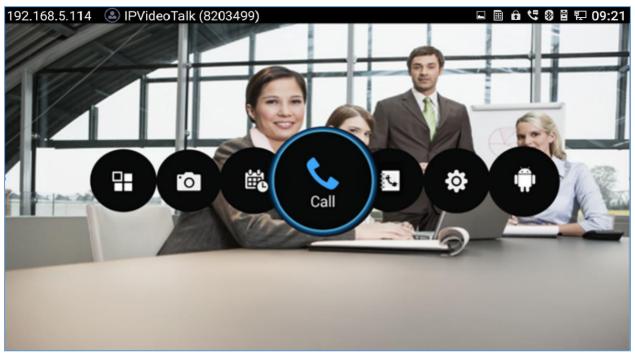


Figure 12: GVC3210 Home Screen

Screen Lock

The GVC3210 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:

- On GVC3210 LCD menu → Settings → System → Security, select Screen Lock and set Screen Lock code.
- 2. Reboot, enter sleep mode or power off the GVC3210.
- 3. When the GVC3210 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

GVC3210 supports a variety of network connections (Ethernet, Wi-Fi) and device connections, including USB, Micro SD card and Bluetooth devices. When the GVC3210 boots up for the first time, a setup wizard will guide the users to pair and connect the remote control to GVC3210 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 GVC3210. Ethernet connection is turned on as DHCP by default on both IPv4 and IPv6 protocols.

Fo configure Ethernet settings or	n GVC3210, go to LCD menu $ ightarrow$	Settings \rightarrow Network \rightarrow Ethernet.
-----------------------------------	--	--

192.168.5.162 🕒 IPVi	🖬 🛍 🛱 🔛 15:08		
🕲 Network			
Bluetooth	Preferred Internet protocol	IPv4 Only	4
Ethernet 🕨	IPv4 settings		DHCP
Wi-Fi	IPv6 settings		DHCP
Proxy			
VPN			
802.1x			
Additional net			

Figure 13: Ethernet Settings

The GVC3210 offers the possibility to prioritize a protocol over another by setting Preferred Internet protocol to "IPv4", "IPv6", "Both, prefer IPv4" or "Both, prefer IPv6".

Using IPv4

To configure the GVC3210 using IPv4 protocol, follow the below steps:





- 1. Plug the Ethernet cable into the LAN port on the back of GVC3210.
- 2. Go to LCD menu \rightarrow Settings \rightarrow Network \rightarrow Ethernet \rightarrow IPv4 Settings.
- 3. Tap on "Address Type" to select DHCP, Static IP or PPPoE as the address type.
 - For DHCP, save the setting and GVC3210 should be able to get IP address from the DHCP server in the network.
 - For static IP, enter IP Address, Subnet Mask, Default router, DNS Server 1, and DNS server 2 for GVC3210 to correctly connect to the network.
 - For PPPoE, enter PPPoE account ID and password so that GVC3210 can get IP address from the PPPoE server.

Using IPv6

To configure the GVC3210 using IPv6 protocol, follow the below steps:

- 1. Plug the Ethernet cable into the LAN port on the back of the GVC3210
- 2. Go to LCD menu \rightarrow Settings \rightarrow Network \rightarrow Ethernet \rightarrow IPv6 Settings.
- 3. Tap "Address Type" to select DHCP or Static IP as the address type.
 - For DHCP, save the setting and GVC3210 should be able to get IP address from the DHCP server in the network.
 - For static IP, configure IPv6 address, DNS server 1, DNS server 2 and Preferred DNS server, enter the IPv6 address in the format of 2001:db8:1:2::3.

Note:

The same steps are applied in the case of using "Both, prefer IPv4" and "Both, prefer IPv6" and the user needs to configure the options of both protocols IPv4 and IPv6.

Wi-Fi

Connecting to Wi-Fi Network

On the LCD display, go to **Settings** \rightarrow **Network** \rightarrow **Wi-Fi** to turn on and configure Wi-Fi.





192.168.5.162 🕓 IPVi	deoTalk (8203499)	F 🗳 🛍 🛱 🖬 🗟 15:10
🕲 Network		
Bluetooth	Wi-Fi	
Ethernet	Select GS_Training	
Wi-Fi 🕨	Signal Excellent Strength	
Proxy	Security WPA2 PSK	
VPN	GS_Tra Password	
802.1x	don't C Show password	(i)
Additional net	GWN8 Show advanced options	
	GWN8B4E2Cancel Connect	
	GWN8B5830 Secured with WPA2	
	DravTak Guast Segurad with WDA?	

Figure 14: GVC3210 Add Wi-Fi Screen

Once Wi-Fi is turned on, GVC3210 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 router for GVC3210 to correctly connect to the network.

Wi-Fi Protected Setup (WPS)

In order to connect the GVC3210 to a secure Wireless Network without selecting the network name and entering the password, WPS can be used in two ways to perform this feature:

• Push button WPS

On the Wi-Fi page, press the MENU key \equiv on the remote control, and select "Push button WPS". Then, look on your Wi-Fi Router to see if it has a WPS button. Once the WPS button is found, press it to establish the connection with the GVC3210.





192.168.5.129 🔺 100	0 (1000)	Francia 🕈 🖬 🗣 🛱 😨 🗇 17:04
🕲 Network		
Bluetooth	Wi-Fi	
Ethernet		
Wi-Fi 🕨	EMEA_(Press the Wi-Fi Protected Setup	
Wi-Fi Display	GS_Trai button on your router. It may be called "WPS" or contain this symbol:	
Proxy	GWN-CI	(i
VPN	Cancel	
802.1x	GWN8B5CB8 Secured with WPA2	Ĵ.
Additional net	GWN8B5D64 Secured with WPA2	
	HP-Print-a0-LaserJet 200 color	
	DravTak Cupet Secured with WRA?	

Figure 15: GVC3210 Push button WPS feature

• PIN Entry WPS

On the **Wi-Fi** page, press the MENU key \equiv on the remote control, and select "PIN Entry WPS". A PIN code will be generated by GVC3210, and the user will need to enter it and register it in the "Wi-Fi Protected Setup" page of the Wi-Fi Router.

192.168.5.129 🕒 1000	0 (1000)	🖬 🖶 ≛ 🛍 오 📓 🔛 🗇 17:04
O Network		
Bluetooth	Wi-Fi	
Wi-Fi 🕨	EMEA_0 Enter pin 11507222 on your Wi-Fi	(j)
Wi-Fi Display	GS_Trai minutes to complete.	(j)
	w	
VPN	GWN-CI	Ĵ,
	GWN8B5CB8 Secured with WPA2	
Additional net	GWN8B5D64 Secured with WPA2	
	DrayTek_Guest Secured with WPA2	
	HP-Print-20-Lasor let 200 color	

Figure 16: GVC3210 PIN Entry WPS feature

Add Network

The user can automatically connect the GVC3210 to the network using Wi-Fi by adding the network on your GVC3210. To do so, Please, refer to the following steps:





- 1. Go to the Wi-Fi page and press the MENU key Ξ on the remote control, then select "Add Network"
- 2. Enter the Network SSID.
- 3. Tap the security type that your network is using (None, WEP, WPA/WPA2 PSK, 802.1x EAP)
- 4. Enter the Password.
- 5. Click on "Save".

192.168.5.129 🔕 100	0 (1000)		🖬 ± 🕁 🖬 🛛 🖀 🔛 🗟 15:51
🕲 Network			
Bluetooth	Wi-Fi Add netwo	rk	
Ethernet	Select n Network SSID	test	
Wi-Fi 🕨	EMEA_C Security	WEP in works 4	
Wi-Fi Display	GWN8B Password	•••••	(j)
Proxy	GWN8B Show pass	word	(<u>-</u>
VPN 802.1x	GS_Trai	nced options	
Additional net	IP settings	DHCP	
	Canc GWN8B5CB8 Secured		
	dial DWD 112 or		

Figure 17: GVC3210 Add network feature

Wi-Fi Direct

The Wi-Fi Direct feature gives the ability to the user to connect the GVC3210 with another device supporting Wi-Fi direct as well with no requirement of the Wi-Fi Router, and it is generally used for "file transfer" between the two devices. At the same time, Wi-Fi Direct only work in 2.4G Wi-Fi mode.





192.168.5.129 🔕 1000	0 (1000)	🖬 🖶 ± 🛍 🛛 🛱 🖬 🖘 17:05
🕲 Network		Scanning 🔘 🔳
Bluetooth	GVC3210_8B5FD0	
Ethernet	Peer devices	
Wi-Fi 🕨	[TV] UE48J5570 Available	
Wi-Fi Display	Remembered groups	
Proxy	DIRECT-N2-GVC3210_8B5FD0	
VPN	DIRECT-Sy-GVC3210_8B5FD0	
802.1x	2	
Additional net		

Figure 18: GVC3210 Wi-Fi Direct feature

Advanced Settings

On the **Wi-Fi** page, press the MENU key \equiv on the remote control, and select "Advanced Settings". In this page, the user can enable/disable "Network Notifications" and to set the "Wi-Fi frequency band" to Auto, 5GHz only or 2.4 GHz only.

192.168.5.129 100	0 (1000)	🖬 🔐 ± 🛍 🕈 🖀 🖬 🕱 17	/:06
🕲 Network			
Bluetooth	Network notification Notify me when an open network is available		
Ethernet	Wi-Fi frequency band	Auto 🖌	
Wi-Fi 🕨 🕨	MAC address	Auto	
Wi-Fi Display	MAC address 00:0b:82:8b:5f:d1	5 GHz only	
Proxy	IP address Unavailable	2.4 GHz only	
VPN			
802.1x	Country code		
Additional net			

Figure 19: GVC3210 Wi-Fi Advanced Settings page





Wi-Fi Display

Wi-Fi Display feature is used for screen stream mirroring of other devices in the GVC3210 via Wi-Fi. Please refer to the following steps to display your device's screen on the GVC3210 screen:

- 1. On the LCD display, go to **Settings** → **Network** → **Wi-Fi** to turn on Wi-Fi.
- 2. Go to Settings → Network → Wi-Fi Display and enable Wi-Fi Display.

192.168.5.129 (a) 1000	0 (1000) ⊑ 龄 17:06
Bluetooth	GVC3210_8B5FD0
Ethernet Wi-Fi	Wi-Fi Display Once enabled, it may affect the call quality of Wi-Fi network.
Wi-Fi Dis 🕨	
Proxy VPN	
802.1x	
Additional net	Wi-Fi Display has been enabled, waiting for other devices to connect

Figure 20: Wi-Fi Display feature

- 3. On the device you want to cast its screen, go to "Screen mirroring" feature page and enable Wireless display.
- 4. The phone will show the GVC3210 in the devices list. Select the GVC3210.
- 5. On the GVC3210, select the display screen and the screen mirroring will start immediately.

192.168.5.129 1000	1000)	☞ ⊑ ፤ 📾 ♥ 🖁 ঢ় 후 16:22
	Select display screen	
	WifiDisplay	
	Cancel	

Figure 21: Select display screen





Bluetooth

On GVC3210, 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 GVC3210.

Pairing GVC3210 with a Bluetooth Device

Before connecting GVC3210 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** \rightarrow **Network** \rightarrow **Bluetooth**.
- 2. Press \equiv button on the remote control and select "Search for devices".
- 3. GVC3210 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 GVC3210 is not pre-paired to GVC3210. If the user would like to use external speaker via Bluetooth connection with GVC3210, the user must pair and connect it to GVC3210 manually before using it for audio output.

Connecting to a Bluetooth Device

After pairing successfully, the device will be connected to GVC3210 immediately. Users will see this device

listed under "Paired Devices". Tap on rext to the connected device. Users will see options "Rename", "Unpair" and etc.





192.168.5.114 🕓 IPVideoTalk (8203499)	🖬 🛍 🜿 ± 🗠 🖩 🔛 09:21
Advanced Bluetooth	
GVC3200_7EA175	
MAC address 00:0B:82:7E:A1:75	
Unpair	
Profile Settings	
参 Internet access Use for Internet access	\checkmark

Figure 22: GVC3210 Bluetooth - Paired Device

If the connection is lost between the Bluetooth device and GVC3210, go to LCD menu \rightarrow Settings \rightarrow Network \rightarrow Bluetooth and click on the device name under "Paired devices" again to reconnect.

Using Bluetooth Remote Control

Users could use GVC3210 Bluetooth remote control that comes with the GVC3210 packaging to control and configure a GVC3210. When the GVC3210 boots up for the first time, a setup wizard will guide the users to pair and connect the remote control to the GVC3210.

When the remote control is connected to GVC3210, users will see icon on the top status bar of the LCD display device.

If the remote control is not paired with the GVC3210 anymore (e.g., a factory reset is made), press OK button and number 5 button at the same time for about 4 seconds. This will initiate pairing process on the remote control.

Note: The remote control needs to be placed within the Bluetooth effective range, i.e., 10m from GVC3210.

If the user needs to pair a different remote control to GVC3210, please follow the methods below:

Connect a second remote control to GVC3210 and both remote controls can be used at the same time.

- 1. When remote control A is paired and connected to GVC3210, press OK + 5 keys at the same time for about 5 seconds on remote control B to trigger pairing process.
- 2. Now both remote controls can be used with GVC3210.
- 3. (Optional) If you wish to use only one remote control, Long press OK+0 keys at the same time for about 5 seconds to trigger unpair process on the remote control. Or you can try this, use the desired

remote control to go to GVC3210 LCD Settings \rightarrow Network \rightarrow Bluetooth, Tap on $\parallel \pm 1$ next to the other connected remote, then click on "Unpair" to disconnect and unpair it from the GVC3210.





Note: Please use the proprietary factory remote control that comes with the GVC3210 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 GVC3210 LCD display device when it receives the file transferring request. Accept the request to receive the file and it will be stored under LCD \rightarrow **Applications** \rightarrow **File Manager** \rightarrow **Internal Storage** \rightarrow **Bluetooth** folder.

Using Bluetooth Headset

Once the Bluetooth headset is connected with GVC3210, 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.

VPN Settings

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

- 1. Access GVC3210 home screen, go to Applications \rightarrow Settings \rightarrow Network \rightarrow VPN.
- 2. Tap on "Add VPN file" to access configuration page as shown below:

192.168.5.162 🕓 IPVi	deoTalk (8203499)		도 🕞 🖬 🖺 🖫 🛞 1	5:12
🕲 Network		Save	Cancel	
Bluetooth	Name			
Ethernet	Туре	PPTP	4	
Wi-Fi	Server Address			
Proxy	PPP Encryption (MPPE)			
VPN 802.1x	Show Advanced Options			
Additional net				

Figure 23: GVC3210 Add VPN Files Screen

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:

192.168.5.162 🕒 IPVid	leoTalk (8203499)	🗳 🕞 🛍 🖺 🔛 🐼 15:13
🕲 Network		
	Add VPN Profile	Đ
	21 PPTP VPN	
	Connect to 21	
	Username	
VPN 🕨	Password	
	✓ Save Account Information	
	Cancel Connect	

Figure 24: GVC3210 VPN Validation Screen

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

If GVC3210 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.

Table 8: GVC3210 VPN File Parameters

Parameters	Descriptions
Name	Fill in your company address or the server to which you are connecting.
Туре	Set to PPTP, L2TP/IPSec PSK, L2TP/IPSec RSA, IPSec Xauth PSK, IPSec Xauth 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.
DNS Servers	Enter DNS server address.
Forwarding Routes	Enter Forwarding Routes, for example, 10.0.0.0/8.





VLAN Settings

Access GVC3210 home screen, go to **Applications** \rightarrow **Settings** \rightarrow **Network** \rightarrow **Additional Network Settings** \rightarrow **VLAN** to configure VLAN settings on GVC3210.

Table 9: GVC3210 VLAN Configuration Parameters

Parameters	Descriptions
	Assigns the VLAN Tag of the Layer 2 QoS packets for LAN port. Default value is 0.
Layer 2 QoS	Note:
802.1q/VLAN Tag	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. Default value is 0.

LLDP Settings

Access GVC3210 home screen, go to **Applications** \rightarrow **Settings** \rightarrow **Network** \rightarrow **Additional Network Settings** \rightarrow **LLDP** to configure LLDP settings on GVC3210.

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 26.
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 46.
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 34.

Table 10: GVC3210 LLDP Configuration Parameters





802.1X Mode

Access GVC3210 home screen, go to Applications \rightarrow Settings \rightarrow Network \rightarrow 802.1x.

By default, 802.1x is disabled. Selecting 802.1x mode to "EAP-MD5", "EAP-TLS" 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.

ParametersDescriptions802.1x ModeAllows the user to enable/disable 802.1x and configure 802.1x mode.
The default setting is disabled.IdentityEnter the Identity information for 802.1x mode.802.1x PasswordEnter the MD5 Password for 802.1x mode.CA CertificateUpload the CA certificate for 802.1x mode.Client CertificateUpload the CA certificate for 802.1x mode.Private KeyUpload the private key for 802.1x mode.

Table 11: 802.1x Mode Parameters on GVC3210





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

GVC3210 camera screen has the following options:

- Press recording button on the remote control to start or stop local recording. Please, refer to the chapter Recording for more details.
- 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, 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.

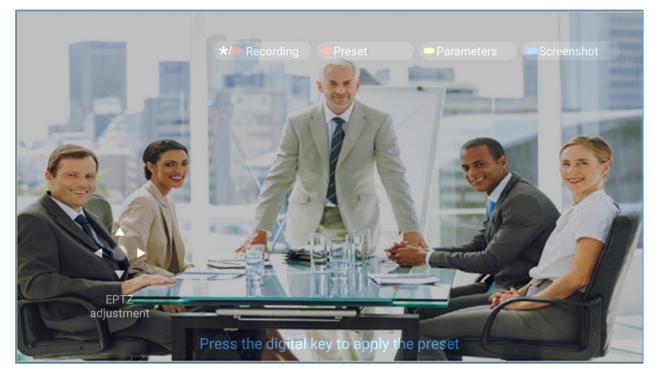


Figure 25: GVC3210 Camera Screen





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.

192.1	68.5.162 🕒 IPVideo	oTalk (8203499)		🗳 🗗 🖬 🛱 🔛 🗟 15:16
\bigcirc	Preset			🗢 Edit
	1	2	3	4
	5	6	7	8
	9	10		12

Figure 26: GVC3210 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 GVC3210 remote control, press "OK" key to save the preset, or press Back key ¹ 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 GVC3210 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 GVC3210 boots up from LCD menu \rightarrow Settings \rightarrow Peripheral \rightarrow Camera, three options are available:

- System default position: The GVC3210 will boot up at default camera position.
- Position when power off: The GVC3210 will return to the last position before powering off.
- **Custom**: The GVC3210 will boot up at a custom position. When chosen, users will be redirected to Preset settings page to set a custom preset.

192.168.6.161 🤅	s) 100	0 (1000)		🕞 ± 🗉 🖬 🚱 🛱 🔛 🕱 15:02
🖣 Peripheral		•	Save Cancel	
HDMI		Move speed		5 1(Slow) — 16(Fast)
Camera		Initial position		System default position
				System default position
				Position when power off
				Custom

Figure 27: Initial Position

Camera Parameters Configurations

Press the yellow shortcut key on GVC3210 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.





		Ⴢ Back	
Picture mode	<	Standard	>
White balance	<	Auto	>
De-noise	Off	Low	High
Frequency of A.C.	<	50Hz	>
Camera mirroring	۲	Turn off	>

Figure 28: GVC3210 Camera Parameters Setting Screen

Table 12: GVC3210 Camera Parameters

Parameters	Descriptions
Picture Mode	 GVC3210 has 4 built-in modes as well as "Manual" for customization. When set to "Manual", press "OK" key to access each setting to configure contrast, saturation, and brightness. Contrast: Higher value brings more distinct color contrast. Saturation: Higher value brings deeper color. Brightness: Higher value brings brighter color.
White Balance	 This is used to display accurate images. Users could set to "Manual" or "Auto". When set to "Auto", the device will adjust parameters automatically according to the current environment. When set to "Manual", the device will disable "Auto" mode. Press "OK" key to access manual setting screen, and adjust red or blue gain manually for better white balance.
Denoise	Users could set to "off", "low", "medium" or "high". Higher reduction level brings less image noises.
AC Frequency	Users could set to 50HZ or 60HZ.
Camera mirroring	When this feature is turned on, users will see the video image reverses from left to right.





PERIPHERAL

External USB Device

GVC3210 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 GVC3210, users could see the cursor on the screen, move the cursor to perform operations. When a USB keyboard is plugged into GVC3210, users could use GVC3210 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 intone of the GVC3210 USB ports.
- 2. It will take a few seconds for GVC3210 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 GVC3210 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.

Micro SD Card

- 1. Insert your Micro SD card into Micro SD card slot at the back of GVC3210. Please make sure the Micro SD card is inserted with right direction on GVC3210.
- 2. It will take a few seconds for GVC3210 to prepare the connection. Then, the Micro SD card icon will show up on the status bar.
- 3. To access the Micro SD Card, go to GVC3210 LCD → **Applications** → **File Manager** → **SD card**. Tap on it to access and manage your data.



The external Micro 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 Micro SD card. It is recommended to use a Micro SD card with large capacity for call recording purpose. Please, refer to the chapter **Recording** for more details.





Microphone and Speaker

GVC3210 is equipped with a built-in microphone. Alternatively, you can connect external audio devices to GVC3210 as audio input/output sources.

If the external speaker supports Bluetooth, users could also pair and connect the speaker to the GVC3210 via Bluetooth. This will provide better mobility and make cabling easier when deploying the GVC3210 conference Endpoint in your conference room.

When there are multiple audio devices connected to the GVC3210, the users could configure the audio device priority from LCD Menu \rightarrow Settings \rightarrow Audio \rightarrow Audio Priority, or from web UI \rightarrow Device Control \rightarrow Audio Control: "Audio Device". Please refer to more details in "Audio Device" section.





MAKING PHONE CALLS

Account

GVC3210 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.



Figure 29: GVC3210 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 I

on home screen.

• On the LCD display device, click on Applications and select **b** 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 GVC3210, 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.

168.5.114	🗢 Call Mode	□ I	È ि ♥ ♥ ₽ ₽ 0 - 3047
			S.
火 55555		◎ 8200089	16:03 02min31sec
<u> </u> 55555			
<u> \$5555</u>			
<u>&</u> 55555			
<u> 2</u> 55555			

Figure 30: GVC3210 Call Screen





- Press the red shortcut key on the GVC3210 remote control to bring up call mode setting screen, set call mode to Call 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 son 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, GVC3210 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 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.
- 3. In order to make the calls to Polycom MCU, users need to do it with the number format "IP##ID".

Redial

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

Dialing a Number via Contact

Follow the steps below to dial a number via Contacts.

- 1. On the LCD display device, access Contacts by tapping on button **u** on home screen.
- 2. Navigate and select in the contacts entries using the remote-control navigation keys.
- 3. Press ^{\$} on the remote control to dial out.





Dialing a Number via Call History

1. On the LCD display device, access Applications on home screen and access call history by selecting

the icon 🥸.

- 2. The LCD will display all call history types. Navigate in the call history list by selecting the call history category. Select the call history entry you would like to dial out.
- 3. Press S on the remote control to dial out.

Direct IP Call

Direct IP Call allows GVC3210 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 GVC3210 and VoIP phone have public IP addresses, Or
- Both GVC3210 and VoIP phone are under the same LAN / VPN using private or public IP addresses, Or
- NAT is disabled or GVC3210 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 GVC3210 LCD.
- 2. Press the red shortcut key on the remote control to bring up call mode setting screen, set the mode to "IP Call".
- 3. Input the target IP address. For example, if the target IP address is 192.168.124.123 and the port is 5062, input the following: 192*168*124*123#5062

The * key represents the dot (.) and the # key represents the colon (:).

- 4. Press the yellow shortcut key on the remote control to select "Audio Call" or "Video Call".
- 5. Press \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 GVC3210.
- 2. Enter the number to dial followed by *74. Please refer to **Call Features** for more details.
- 3. Press the yellow shortcut key on the remote control to select "Audio Call" or "Video Call".
- 4. Press **S** 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:

192.168.5.114 IPVideoTalk (8203499)	🖬 🗈 🤨 🛿 🛱 🖬 09:21
영양 이는 것은 것은 것은 것은 것은 것은 것이 같은 것이 같은 것을 했다.	
Ringing(IPVideoTalk Pro)	
55555	
8200089	
and the second	
Video Answer Audio Answer Re	

Figure 31: GVC3210 Single Incoming Call Screen

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



Figure 32: GVC3210 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.

Call Hold

During an active call, press HOLD button ut 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 $\frac{1}{2}$ 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 Micro SD card plugged into GVC3210. Once recorded, users can view the recorded video in Recorder application, and download the video from web UI \rightarrow Maintenance \rightarrow 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.
- 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 GVC3210 will be blocked without ringing. Users could see the blocked calls in call history. Once it is enabled, the DND icon **DND** will be displayed in the status bar on the top of the screen.

- When GVC3210 is in idle screen, users can press $\frac{4}{2}$ button on the remote control to turn on/off DND.
- When GVC3210 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 GVC3210 web UI and click on "DND" on the top tool bar of the web page to turn on/turn off DND.



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

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 GVC3210 web GUI and go to **Settings** \rightarrow **SIP Account** \rightarrow **Call**. For details, please refer to "GVC3210 Administration Guide".

Remote Camera Control in Call (FECC)

During the video call, if the local party (GVC3210) and remote party support FECC, the remote camera can be controlled on the GVC3210.

Here is how to use FECC on the GVC3210 to control remote party's camera:

- Make sure the GVC3210 and the remote party support FECC and it's enabled on both parties. For GVC3210, 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.
- 2. Establish video call between GVC3210 and the remote party.
- 3. On the GVC3210 remote control, press the camera button and the following prompt pops up on GVC3210 display device.





Camera Control	
Local Camera Control	
GVC-LAB	

Figure 33: FECC – Remote Camera Control

- 4. Use UP/DOWN/OK navigation keys on the GVC3210 remote control to select the remote party, e.g., GVC-LAB in the above figure. This will bring up camera control interface.
- 5. On the GVC3210 remote control, press the navigation keys and zoom in/zoom out buttons on trackpad to adjust remote camera.





UCM Conference Control

Users can join an UCM conference room and control it with GVC3210. This is a compatible feature with Grandstream UCM product. Users could create video conference room in an UCM device, and register SIP account in GVC3210 to join into the conference.

S UCM6202		Q Setup Wizard English ~ ① admin ~
Menus 🗧	Video Conference	
n System Status 🗸 🗸	Basic Settings Video Conference Conference Schedule	
于 Extension / Trunk 🗸	Video conferencing may impact overall system performance. Please refer to the UCM user manual for details.	
📞 Call Features 🔷 🔨	Please ensure that ICE Support is enabled and that STUN/TURN server is configured with NAT.	
Conference	+ Create New Conference Room	
Video Conference	Room	Options
IVR	6304	2 💼
Voicemail		
Ring Groups		
Paging/Intercom		
Call Queue		
Pickup Groups		
Dial By Name		
Speed Dial		

Figure 34:Create a Conference room in the UCM

The conference supports up to 4 video members to join into the conference's room. GVC3210 conference host could also control the UCM conference as the following:

- 1. Support to switch video layout of multiple video members.
- 2. Display UCM conference information.

192.168.1.109	ዾ 1002 (10	02)				🖫 奈 03:16
			🗕 Dial k	keyboard — Notification	Status	
						1
				Lock meeting		
				Enable DND		
				Meeting info		
				Call details		
				Open Dial keyboard		
.				<u> </u>		00:07:31

Figure 35: View Conference information





192.168.1.109 (2) 1002 (2) 100				🖬 🥲 🔜 후 03:16
Time	2019-03-22 12:08:52			
Number	6304			
Password	Not set			
Host	1002			
Status	Unlocked			
Participants(2)	1002	1002	Ŷ	
	1001	1001	Ŷ	
	1002			

Figure 36: Conference details

- 3. Lock the conference.
- 4. Freely select video member recording, maximum support for recording 3 video members.
- 5. The member's name is displayed in the upper left corner of the video source.
- 6. Host Conference Control.

192.168.1.109 🕓 1002 (1002)		🖬 🥲 🖁 🔜 후 03:15
Sconf control		
	1001 Mute	

Figure 37: Host Conference Control

The conference host can:

- Mute other participants.
- Remove the participant.
- Grant the participant as the host.
- The host can close the presentation opened by the participant.





IPVIDEOTALK CONFERENCE

Device Layout

GVC3210 supports IPVideoTalk conference, and it can be the host to initiate a conference or join other conferences as a member.

Users can connect two HDMI output devices for conference. HDMI 1 interface is the primary output when plugging in the two HDMI display devices. The device connected to HDMI 1 interface will display local site by default while other devices automatically display the remote site.

During a conference, user can tap on Dutton on GVC3210 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 the member from the list below.
 - 2. Press S 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 GVC3210 handles incoming calls. Depending on your configuration, your GVC3210 answers a call automatically or prompts you to answer a call manually:

- Log in GVC3210 web GUI and go to Settings→IPVideoTalk Account→Call page, and set "Autoanswer when idle" option to "Yes". All incoming calls will be answered automatically. If it is an IPVideoTalk call to join a conference, it will be answered with video as well.
- If "Auto Answer when idle" 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. ٠





Conference Management

The following figure shows a 3-way IPVT conference:



Figure 38: GVC3210 3-Way IPVT 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.

Icons	Name	Definitions				
9 +	Add Member	Access dial screen and add more numbers to join conference.				
\bigcirc	Record	Start/Stop Local/Cloud recording the ongoing conference. The recording files will be saved to the connected Micro SD card or USB.				
	Conference Control	Control video and audio for conference members. It includes the following options for each party: Image: Control video and audio for conference members. It includes the following options for each party: Image: Control video and audio for conference members. It includes the following options for each party: Image: Control video and audio for conference members. It includes the following options for each party will not be heard by other parties. Image: Control video and audio for conference members. It includes the following options for each party will not be heard by other parties. Image: Control video and audio for each party will not hear other parties. Image: Control video and audio for each party will turn into audio call.				

Table 13: GVC3210 IPVT Call Screen Bottom Menu Icons





		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.
		Suspend video from the video party. Click on it again to
		resume video.
		Prevent the GVC3210 from uploading local video streaming
		to IPVideoTalk server during an IPVT conference.
		Adjust the layout for the video display for video call.
		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.
		For example, in a two-way video call on GVC3210 which has one
		HDMI output connected, after pressing "Layout" → "Local Layout"
		icon users will see options "Average", "POP" and "PIP".
	Layout	 When a WebRTC client is participating to the meeting, Users can set new video layouts during the IPVideoTalk meeting by pressing on "Layout"→"Cloud Layout", Users will see the options: Solo mode: Users could specify a pane to display a certain participant. Speaker mode: Users could specify a pane to display a certain participant. The speaker can view all participants' video images, and the participants can only view the speaker's video image. Focus 1+N: There are 3 modes for users: "1+3" layout, "1+5" layout, and "1+7" layout, which means one large video image with N smaller video images (polling mode). The current large video image is displaying the video image from current speaker.
	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 must be plugged in first. When HDMI IN is plugged in to GVC3210, after the user selects "Presentation", the user can select mode "Auto" or "PC" to display presentation.
To	Presentation	• Presentation Mode: Auto The GVC3210 that shares presentation will send dual stream. The other participants will receive two streams and can select to
		display both presentation + video at the same time.





		 If the other participants do not support BFCP, the GVC3210 that shares presentation will only send presentation stream and the participant can show presentation. Presentation Mode: PC The GVC3210 that shares presentation will only send presentation stream, no local video stream. The other participants only see presentation.
	More	 Bring up more options. The options include: 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 Dial Keyboard To enter DTMF during the call. Meeting info Display all the information about the call.
×	End	End conference and go back to home screen.

- If the remote party is also a GVC3210, you can press the camera key on the remote control to control EPTZ 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 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 14: GVC3210 Conference Member Status Descriptions

lcons	Descriptions
!	The current line is in an audio call.
<u>o</u>	The current line is in a video call.







The current line is being muted.

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 GVC3210 is on conference screen, press on the remote Scontrol 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.

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	— Blo	ock all		spend all
Local	Ŷ	H	<u>0</u>	11	
Conf:40197490	Ŷ	¥	0		Ш(

Figure 39: GVC3210 Conference Control Screen

1. Use Up/Down navigation keys on GVC3210 remote control to select conference member.





2. Use Left/Right navigation keys on GVC3210 remote control to make operations, press "OK" key to confirm the operation, press "OK" key again to cancel, e.g., tap on to \bigcup mute one member and the icon will turn to $\cancel{1}$ tap on it again to restore.



Users could press the shortcut keys on GVC3210 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.



The presentation will be displayed normally when the conference is paused.

Custom PIP

During a video conference, users can customize screen layout when using multiple connected HDMI outputs, to specify particular video feeds to be displayed on each screen.

• Under GVC Call screen \rightarrow Layout \rightarrow PIP, users can choose which video feed to be selected.



Figure 40: Select Video Feed

• Once users choose Custom option, a window will show in order to customize the layout and the video feeds for each HDMI output.





HDMI 1	HDMI 2
Layout mode	
🔲 Parent screen 🛛 📩	Subscreen — Hide
Remote	□₽_
Local	口 라 —
POP	mode
Cancel	ОК

Figure 41: Layout Customization for multiple HDMI Outputs

• A selection window for the available monitors will pop up, in order to select which output will display the video streaming for the feed selected in previous step (In this example "Local" feed will be displayed on "HDMI 1 Output Screen").

HDMI 1	HDMI 2

Figure 42: Choose HDMI Output

Presentation Sharing

GVC3210 supports dual stream video, with the presentation sharing function, you can connect HDMI input devices such as a computer, or a DVD player to GVC3210, and share the HDMI input sources with remote parties while he can still view the local video.

The following figure shows 3 TVs used for GVC3210. The one on the top shows presentation, the two on the bottom show remote party video.







Figure 43: GVC3210 3-Way Conference with Presentation



- 1. When HDMI IN interface is connected, GVC3210 will only display the device connected to HDMI IN port.
- 2. Users could also press PIP button 🖛 on GVC3210 remote control to change video display layout.

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

Conference Recording

During a video conference, recording feature is supported on the GVC3210, including video and presentation shared by GVC3210, or IPVideoTalk WebRTC clients.

- 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.

During conference, a new option of cloud recording is added to allow users to control recording, the recording can be done from GVC screen or Web UI as shown below:





Conference								
Local			Ţ		۲	11	Ø	0
L Conf:67714397	Conf:67714397	Video talking (IPVide	Ţ	K	0		\bigcirc	0
		Departing Control						
		Recording Control Local recording	×					
		Cloud recording	>					
			U					
				•				
		9 0		j	>			

Figure 44: Web UI Conference Recording

For more details about local recording, please refer to **Recording**. For more details about cloud / IPVideoTalk recording, please refer to the chapter **Start Cloud Recording**.

- 1. Press * <i>on the GVC3210 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 th	ne recording icon 🧕	on bottom menu to stop
recording anytime.				



It is strongly recommended to use a Micro 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

and select "Call Details" to check the details.





3043			Send		Receive	
			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

Figure 45: GVC3210 Call Details Screen

Participants List

Users could check all participants in the current IPVideoTalk meeting. If the meeting host does not allow the participants to check all members, the participants cannot see all members in the meeting.

During IPVideoTalk meeting, click on "More" in the click on "Participants List". GVC3210 will show all participants in the current IPVideotalk meeting, including all participants with all types of clients.

Ô		
	Participants List	1
	Host(1)	
	8200445(Me)	
	Participants(1)	
	emea	

Figure 46: GVC3210 Participants List





Open Dial Keyboard

Users can send DTMF during a conference using "Open Dial Keyboard" function.

- 1. On GVC3210 remote control, press the red shortcut key, or click on MORE button $\textcircled{} \rightarrow$ select "Open Dial Keyboard" on the conference screen to bring up the DTMF input screen.
- 2. Press the digital keys on the remote control to input DTMF. Press \bigcirc to cancel the operation if needed.

Note: The GVC3210 can join a locked meeting with a PIN Code by using "Open Dial Keyboard" to input the PIN Code followed by #.

End Conference

To end the conference, tap on END button \bigotimes or press key \frown on GVC3210 remote control to either "Exit Conference" or "End Conference". If GVC3210 is the conference host:

- Select "Exit conference" so that the GVC host will leave the conference itself while the IPVT conference will still be going on. The conference can be ended by WebRTC host or admin through web portal afterwards.
- Select "End conference" so that the IPVT conference will be ended, and all the other participants will be disconnected from the IPVT server.

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.

End conferer	ice	
now? If you	to end the conf end the conferer will be disconne	nce, all of the
Cancel	Exit conference	End conference



Power Off During a Conference Call

During the meeting, if the user presses Power ON/OFF button, a new dialog will be prompted that allows user to end the current conference and shutdown GVC3210 immediately. Choose "Power off" to end the conference call and power off the GVC3210 immediately, or choose "Sleep" to go on sleep mode, or choose "Reboot" to end the conference and reboot the device.





ပံ Power off
C Sleep
つ Reboot

Figure 48: Power Off During a Call

IPVideoTalk Application

IPVideoTalk application provides an interface for the user to manage this service on the GVC3210, 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 \rightarrow **Applications** \rightarrow



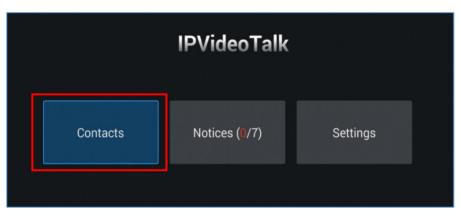


Figure 49: GVC3210 IPVideoTalk Application

Contacts

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





Gra	ndstream Networks 🖓 Call	🛑 Refresh	- Search	Batch Call	Ē
/					
2	BOS-4				
2	Boston-3				
2	Boston-5				
2	Boston-7				
2	Boston-8				
2	Boston_Conf2				
2	Chicago				

Figure 50: IPVideoTalk Application → Enterprise Directory

- Users can also view Contacts types:



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

c. Public GVC3210 Device with an IPVideoTalk ID.

- Select an entry in the directory and press the Green Call button Solution Solution on the GVC3210 remote control to call this contact.
- Press the red shortcut key on the GVC3210 remote control to refresh the directory.
- Press the yellow shortcut key on the GVC3210 remote control to search contacts in the directory.
- Press the blue shortcut key on the GVC3210 remote control to select entries and make a batch call to multiple contacts in the directory.





Grandstream Netw	rorks 🖓 Batch Call 🔰 💻 Refresh 👘 💭 Upper Level 🔰 📼 Cancel	
Selected member: BOS-4	/	
Boston-3	BOS-4	\checkmark
Boston-5	2 Boston-3	\checkmark
	2 Boston-5	
	2 Boston-7	\checkmark
	2 Boston-8	\checkmark
	2 Boston_Conf2	\checkmark
	2 Chicago	\checkmark

Figure 51: 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 52: IPVideoTalk Application→Notices

Click on "Notices" to access the messages. Use the navigations keys/OK keys on the GVC3210 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.

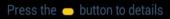




1 Notices		Batch Delete	
	10000		
Grandstream Networks, Inc. Ac	You have successfully joined Grandstream Networks, Inc		
	ОК		

Figure 53: IPVideoTalk Application → Notices: Message Prompt

When IPVideoTalk plan is about to expire or already expired, a message will appear on the bottom of GVC3210 LCD home screen. Press the yellow short key to view message 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 GVC3210 LCD menu \rightarrow Applications \rightarrow IPVideoTalk application \rightarrow Notices.

1	0000
	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 distributor or reseller,
	or go to ipvideotalk.com. OK

If there are new incoming messages for the IPVideoTalk account, users will see indicator icon



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.





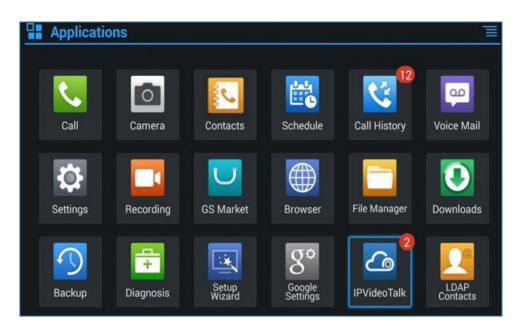


Figure 54: Message Indicator for IPVideoTalk Application

Settings

In the IPVideoTalk application, click on "Settings" to configure "Account Active" and "Display Name" for the IPVideoTalk account on GVC3210. 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".

92.168.5.114 🖲 IPVideoTalk (8203499)				副 1月 09:2
Settings	🛑 Default account	Save	Cancel	
Account active			\subset	
Display name				
Trial service address			0.0	0.0.0
Account information				
Device code (Click for details)			c	la6d4i
Number			82	00061
Current plans (Click for details)		The p	IPVideoT blan expires in Jun 2	
Business (Click for details)		Gr	andstream Net	works

Figure 55: IPVideoTalk Account Settings

Users can check as well the current IPVideoTalk Plan used on the GVC3210 and its expiration date. *Please, refer to the following figure:*





192.	168.5.120 🕓 IPVideoTalk (8200495)		± 🖬 🖺 🗘 07:23
	Settings	🛑 Default account 🛛 🗢 Save	- Cancel
	Server configuration		
	IPVideoTalk Server	https://api.ipvideotalk.c	Restore the default
	Account information		
	Device code (Click for details)		3bami1
	Current plans (Click for details)		IPVideoTalk Pro Jul 11, 2019
	Business (Click for details)	Grand	Istream Networks
	Application information		

Figure 56: Current Plan and its expiration time

Join an IPVideoTalk Meeting

Users can join an IPVideoTalk meeting by dialing the host GVC3210's IPVideoTalk ID or meeting ID. Please note only after meeting starts, GVC3210 can use this method to join the conference as a participant.

• Dialing host GVC3210's IPVideoTalk ID to join an active meeting

192.16	92.168.5.114 🕒 IPVideoTalk (8203499) 🗳 🖬				🗈 🔂 😌 🛿 🛱 🔛 09:21
<u> </u>	💊 Call	- 레프네이 - 김, 북성의 강	🗢 Call mode	— Video	IPVideoTalk
	8200443	Enter phone number			%
	<u> </u>	43	र ए	<u>©</u> 8200443	18:35

• Dialing meeting ID to join an active meeting.

192.168.5.114 🕒 IPVideoTalk (8203499)		🕻 😵 📓 🔛 09:21
📞 Call	😑 Call mode 🔷 Video	IPVideoTalk
35174251		٩.
<u>9</u> 35174251	🔇 🧟 35174251	19:31





Busy Tone Responses

Please note GVC3210 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.

	Т	he number yo	u called is hos	sting another r	neeting	
Add member						
<u>(</u>				\bigcirc	×	00:11:02

Figure 57: Busy Tone when the Callee is the Host of another Meeting

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

		Th	e number you	ı called is joir	ning another n	neeting	
Add mem	ber						
2		₽				×	00:11:02

Figure 58: Busy Tone when the Callee is already a Meeting's Member

Manually Start IPVideoTalk Tip

If a meeting is scheduled from IPVideoTalk Web Portal, then the meeting will synchronize to host GVC3210 device LCD \rightarrow Schedule interface. There will be a prompt message "You are about to manually start a pre-scheduled meeting. If you start this meeting the original scheduled meeting date and time will be voided" when pressing CALL button on remoter to start the meeting manually before or after scheduled time.





192.168.5	5.114 🛛 😣 IPVide	eoTalk (8203	499)		± 🖬 🖩 🛛 🖉 🛱 🔛 12:50
	Schedule			Edit conference	
	2017-10-11				
	🙆 test				🔀 2d 2h 39min
	Organizer: IP\			Time: 15:30-16:30	
		Star	t meeting nov	N	
		pre- this me-	-scheduled m	manually start a eeting. If you start original scheduled d time will be	
			Cancel	Start	

Figure 59: 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 https://www.ipvideotalk.com

Hand Down/Up in IPVideoTalk Meeting

If GVC3210 joins an IPVideoTalk meeting as a participant and the host is any WebRTC client, the participant

could click on button \bigcirc on GVC3210 LCD \rightarrow Call screen to raise hand to attract attention from host that he/she wants to be unmuted or needs any help.



Figure 60: Hand up - IPVideoTalk

The raised hand status of GVC3210 participants could be checked from Participants List on Host WebRTC Client, as shown in below figure





Participants list (3)	Ξ
🛞 Selina (Host)	Q 🖉
2 Lee	₫ ⊈ ⊆ 👻
Amy Hu	🖑 🖉 👻

Figure 61: Participants list

The raised hand could be put down by participant itself or WebRTC host.

• Participant GVC3210 could hand down itself by clicking on button again.



Figure 62: Hand down - IPVideoTalk

• WebRTC Host could put down GVC's hand.

		Н	ost put down y	our hand			
					Hand up		
9.			T	•••	(2)		00:00:10

Figure 63: Hand down by Host - IPVideoTalk

Stop Sharing Local Camera

WebRTC host can stop the camera feed of a GVC attendee to prevent it from uploading its local video streaming to IPVideoTalk Server.





	R	\bigcirc
Part	icipants List (2/8)	≡
	Grandstream(Host)	Click to unshare
S	oranasireani(riosi)	Click to unshare
0	8200443(Host)	

Figure 64: Stop Camera Sharing

Stop Video Upload Icon

Under GVC3210 LCD \rightarrow **Call Screen** \rightarrow **Conf Control**, users could prevent the GVC3210 from uploading local video streaming to IPVideoTalk server during an IPVideoTalk meeting by clicking on \square Other participants will not receive any video streaming from this GVC3210, and it will switch to 1-way video.

Conf control	🗕 Mute all	- Block all		Suspend all	
Local	Ŷ		<u>0</u>	11	
Conf:40197490	Ŷ	¥	Q		Ш(

Figure 65: Stop Video Uploading

Start Cloud Recording

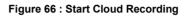
During an IPVideoTalk meeting/webinar, a new option is added under Call Screen of host GVC to allow users to control cloud recording.

To start/stop cloud recording, users could click on "Record" button under host GVC3210 LCD \rightarrow Call screen, or press */ $_{\odot}$ shortcut key on remote control:





	Start local	recordi			
	Start cloud	recordi			
9 +	<u> </u>				00:00:20



There will be an icon **Rec** shown on the left upper corner of host GVC as well as all other participants to indicate the cloud recording is in progress, the screen and record button will also show as follow:

Users can at any time stop the recording by clicking the record button and press: Users could log in to IPVideoTalk Enterprise web portal \rightarrow Recordings page to View/Download/Delete the recordings for the cloud meetings/webinars:

Me	etings	Recordings	Contact	ts Devices Pla	ns Statistic	s Admin	Settings
					Display my scheduled	meetings only	Enter Subject/Meeting ID/Organiz
		Subject	Meeting ID	Organizer	Schedule Email	Start Time	Files
		IPVideoTalk Meeting	52696990	8200443 -IPVideoTalk Small	n	07/17/2017 07:4.	Download Delete



Note: There are some prerequisites to enable cloud recording features on GVC3210:

- GVC3210 needs to be linked with an IPVideoTalk enterprise account.
- The subscribed IPVideoTalk plan should include cloud recording support and adequate cloud storage space for recording. Please refer to IPVideoTalk website or User Manual for the latest plan information.

Schedule

Schedule feature allows users to set a specific time to host a conference in advance, with conference reminder and members.





Ë	Schedule	📞 Start Conf	•	🛑 Edit Conf	New Conf
	2015-11-03				
T	Let Product R	evie Details			
	Host: Me	Title	: Product Revie	W	
		PIN Code	: 1234		
		Host	: Me		
		Time	: 12:30-13:30		
		Members (3)			
		5550000			
		2000000			
		GVC3200 Su	pport		

Figure 68: GVC3210 Schedule Screen

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

On the home screen, click on CONFERENCE 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 GVC3210 remote control to view conference details.





192.168.	6.163 🕓 IPVio	deoTalk (8203	499)	1 🖬 🖬	🛚 ± 🌐 🔐 🕲 🖺 🖬 🖘 16:07
	Schedule			Edit conference	
	2017-11-04				
T	🔍 Produ	ct Review			🔀 30d 1h 52min
	Organizer: m	narc. Details		ime: 18:00-19:00	
		Title : F	Product Review		
		Organize	r: marc.micha	el001@gmail.com	
		Time :	18:00-19:00		
		Preset :			
		Member	s (1) :	Status	
		1000		1	

Figure 69: GVC3210 Conference Details Screen

to access schedule screen.

Add Scheduled Conference

Follow the steps below to add a scheduled conference:

- 1. On the home screen, select
- 2. On GVC3210 remote control, press the blue shortcut key to create a new conference.

Ē.

192.168.6.163 🕓 IPVideoTalk (8203499)	🖬 ± 🔒	ː 🗈 🗗 🗞 📓 🗗 .	🗟 16:09
🖳 New conference	Save	Cancel	
Related account	Local		•
Subject			
Members			+
Start time	2	017-10-05 16:09	
End time	2	017-10-05 17:09	
Remind time	10 Mir	nutes in advance	 Image: A start of the start of
Conference preset	Not se	et	
Recurring	One-ti	me event	

Figure 70: GVC3210 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.

Table 15: GVC3210 Add Conference Parameters

Parameters	Descriptions
Related Account	Choose the related account for the conference.
Subject	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.
Remind Time	It is used to configure whether to remind users in advanced. A prompt dialog box will pop up on GVC3210 screen 10 minutes before the conference starts.
Conference preset	It is used to select a camera preset when the scheduled conference starts, the GVC3210's camera will be automatically placed to the preset position. Click on Conference preset and select "Custom" to be redirected to preset setting interface to configure and set a preset. Default is "Not set".
Recurring	Users could select recurring for the scheduled conference, to repeat the conference depending on the chosen option. The recurring options are: • One-time event • Daily • Every Weekday (Mon-Fri) • Weekly • Monthly (by week) • Monthly (by day) • Yearly • Custom

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 yellow shortcut key on GVC3210 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 GVC3210 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 "Cancel".

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 \rightarrow Settings \rightarrow Account \rightarrow 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 GVC3210 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** \rightarrow **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:





	ations				
Call	Camera	Contacts	Schedule	CallHistory	Voice Mail
Settings	GS Market	Browser	File Manager	Downloads	F Diagnosis
Play Store	Recording	g¢ Google Settings	Skype	Speedtest	

Figure 71: GVC3210 Voice Mail Application

Call Features

The GVC3210 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 $GUI \rightarrow Settings \rightarrow SIP \rightarrow Call page$. Please note this feature doesn't apply to IPVideoTalk account or BlueJeans account.

Table 16: GVC3210 Feature Code for SIP Account

Use Preferred Codec (per call).

- Dial *01 followed by the preferred codec code and the phone number.
- The device will use this codec in the INVITE SDP as the first codec when initiating the call.
- <u>Codec code</u>: PCMU: 7110 PCMA: 7111 G722: 722 G722.1: 7206 G.729AB:729

iLBC: 7201

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.



*01



	Force Codec (per call).
*02	 Dial *02 followed by the preferred codec code and the phone number. The device will be forced to use this codec during the call. <u>Codec code</u>: PCMU: 7110 PCMA: 7111 G722: 722 G722.1: 7206 G.729AB:729 iLBC: 7201 For example, if the user would like to force using PCMA to call phone number 334455, enter
	*027111334455.
*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	Block Caller ID (for all subsequent calls).Dial *30.
*31	Send Caller ID (for all subsequent calls).Dial *31.
*50	Disable Call Waiting.Dial *50.
*51	Enable Call Waiting.Dial *51.
*67	Block Caller ID (per call).Dial *67 followed by the phone number.
*82	Send Caller ID (per call).Dial *82 followed by the phone number.
*70	Disable Call Waiting (per Call).Dial *70 followed by the phone number.
*71	Enable Call Waiting (per Call).Dial *71 followed by the phone number.
*72	 Unconditional Call Forward. To set up unconditional call forward: Dial *72 followed by the phone number to forward the call.
*73	Cancel Unconditional Call Forward. To cancel the unconditional call forward:Dial *73.





*74	Paging Call.Dial *74 followed by the phone number to send the paging call.
*83	Force Audio Calling (per call).Dial *83 followed by the phone number to send the audio call.
*84	Force Video Calling (per call).Dial *84 followed by the phone number to send the video call.
*90	Busy Call Forward. To set up busy call forward:Dial *90 followed by the phone number to forward the call.
*91	Cancel Busy Call Forward. To cancel the "busy call forward": • Dial *91.
*92	 Enable Call Forward No Answer. To set up Call Forward No Answer: Dial *92 followed by the number to forward the call. The default timeout before the call is forwarded is 20 seconds.
*93	Cancel Call Forward No Answer. To cancel Call Forward No Answer: • Dial *93.





ADDITIONAL FUNCTIONS

GVC Remote Client Application

Besides using GVC3210 Bluetooth remote control in the package, users could also download the Grandstream GVC Remote Client application, and install it on an Android device. GVC3210 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 GVC3210 LCD menu → Applications → File Manager → Internal Storage → remote firmware. 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 GVC3210 LCD menu→Settings → Status → Remote Control to send GVC Remote apk to Bluetooth device or scan the QR code.

92.168.5.114 (2) IPV	ideoTalk (8203499)	🖬 📾 🔩 🛿 🛱 🛱 09:21
Accounts	Hardware version	V1.7A
Peripheral	Software version	1.0.1.1
Network	Touchpad version	1.0.1.1
System Remote co ►	Remote control battery	100%
nemote co P	Firmware upgrade	Check updates
	Send "GVC Remote" apk to Bluetooth device	Send
	Scan the QR code to download the "GVC Rem	note" apk

Figure 72: "GVC Remote" apk in GVC3210 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 GVC3210 device that users would like to connect to. Each discovered GVC3210 could be distinguished by the last 6 digits of its MAC address.
- 4. Pair GVC Remote app with GVC3210 via Bluetooth. Users might see prompt on GVC3210, 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 GVC3210.





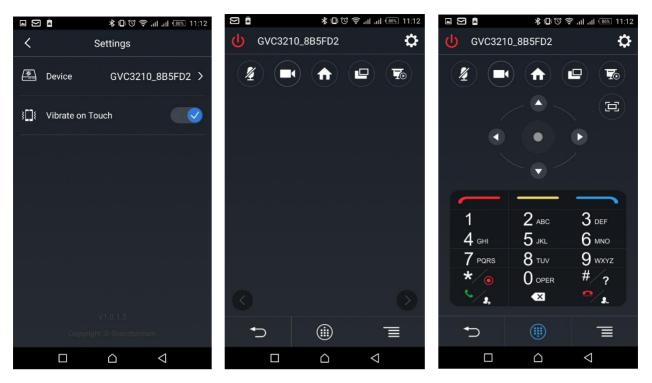


Figure 73: GVC3210 Remote Control Application on Android Device

- 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.

BlueJeans

GVC3210 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 GVC3210 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 S on the remote control or click on button

on the screen to dial out.

For more information about how to use BlueJeans on GVC3210, please refer to the link below: <u>https://www.grandstream.com/sites/default/files/Resources/gvc320x_BlueJeans_application_note.pdf</u>





APPLICATIONS

GVC3210 provides built-in applications such as Contacts, Call History, File Manager, Browser and etc. Users could also download the apps from GS market to install on GVC3210.

Contacts

GVC3210 Contacts app helps users to easily store and manage phone numbers and contacts information. Users can add contacts on GVC3210 or import contacts from external devices as well as download from a server.



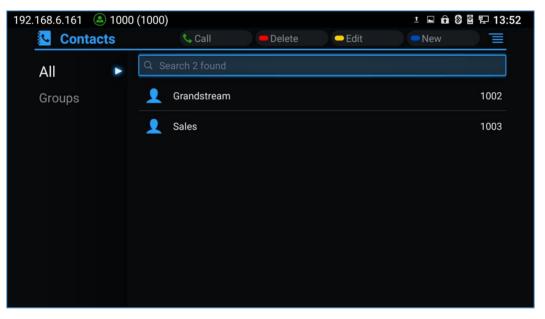


Figure 74: GVC3210 Contacts Screen

• 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 GVC3210 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 = 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 GVC3210 remote control to access New Contact screen.

. New Contact	🗕 Add Field	🗢 Save 🔷 Cancel 📃
Name		
Phone (Mobile)	SIP 🖌	
Email (Home)		
Groups		Select Groups
Ringtone		System Ringtone

Figure 75: GVC3210 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.

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 Micro SD card/USB flash drive and plugged into GVC3210.





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

Clear Old History	
Replace Duplicate Entries	
File Encoding	UTF-8
File Type	xml
Select File	Not selected

Figure 76: GVC3210 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.

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 GVC3210.
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 GVC3210.
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 GVC3210.

Download Contact

GVC3210 supports downloading phonebook from the file server to batch add contacts. The default file name that GVC3210 looks for is "phonebook.xml". The phonebook XML file should be placed under the file server directory for GVC3210 to retrieve. GVC3210 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 📃 🗢 Sav	e 🔷 🗢 Cancel	
Clear Old History			
Replace Duplicate Entries			
Download Mode		Off	4
File Encoding		UTF-8	4
Time Intervals		None	4
HTTP/HTTPS Username			
HTTP/HTTPS Password			
Download Server			

Figure 77: GVC3210 Download Contacts Screen

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

Table 18: GVC3210 Download 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 GVC3210.
Replace Duplicate Entries	If it is enabled, when the phonebook file is imported to GVC3210, the duplicated entries will be removed. If it is disabled, both the old contacts and new contacts will be kept in GVC3210.
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 phonebook downloading if it's required by the server.
HTTP/HTTPS Password	Configure the HTTP/HTTPS password for phonebook 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.





Search Contacts

In the Contacts app, users could input keyword to search in the dialog. GVC3210 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 \equiv and select "Delete" option or press the red shortcut key in order to delete the 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 GVC3210 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

GVC3210 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.

File Encoding File Type	UTF-8	4
File Type		
	xml	4
Choose Directory	Not	selected

Figure 78: GVC3210 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.





Table 19: GVC3210 Export Contacts Parameters

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

Groups

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

192.168.6.161	(1000)			± 🖬 🕯	图 14:08
👤 Group	📞 Call	- Delete	Rename	New	
All Groups ►	25 (1 person) Grandstream				
	26 (0 people)	No person in th	is group		

Figure 79: GVC3210 Groups Screen

Call

Press Son GVC3210 remote control to call the first 8 members in a group to initiate a conference.

Delete (red shortcut key)

It is used to rename a group.

- Rename (yellow shortcut key) It is used to delete a group.
- New (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 GVC3210 remote control to bring up the screen below:

192.168.6.161	0 (1000)			1 🖬 🛱 🕅	🖁 🔛 14:32
Le Group			Rename		
All Groups ►	<mark>25 (2 people)</mark> Grandstream,Sales				
	26 (0 pe AddGroup	Novemen In I	OK		

Figure 80: GVC3210 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 yellow shortcut key on the remote control to access Groups editing screen.
- 6. Select the contacts users would add to this group.
- 7. Press the blue shortcut key on GVC3210 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 red shortcut key to bring up the dialog box.
- 4. Press "OK" key to delete.





LDAP contacts

LDAP contacts application can be accessed in GVC3210 display device LCD \rightarrow Applications \rightarrow LDAP Contacts. It helps users access and manage the contacts at ease.

Here is the main interface of LDAP contacts.

192.168.6.161				🖬 ± 🔒 🕅 🖁 🛱	14:56
LDAP Contacts	📞 Call	Add to local	- Batch add	Settings	
Q Search contacts					
		No contacts!			

Figure 81: LDAP Contacts Interface

LDAP Settings

Before starting using LDAP on GVC3210, the users must configure the LDAP settings first. Press the Blue shortcut key on the GVC3210 remote control to access LDAP settings, or the users can configure it under GVC3210 web UI \rightarrow Contacts \rightarrow LDAP page.

Table 20: GVC3210 LDAP Settings Parameters						
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 20: GVC3210 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 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 30 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 GVC3210 LDAP settings in web UI. The LDAP server is the built-in LDAP server in Grandstream UCM6xxx.

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 82: 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	Settings	
Q 000					Ĵ
9000 0perator					3000

Figure 83: Search LDAP Contacts

If the user presses the Green Call button So on the GVC3210 remote control, the GVC3210 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 GVC3210 local contacts.

Add to Local

On the search result screen, move the selection to the contact, then press the red shortcut key on the GVC3210 remote control to add single search result to local contacts. Click on OK to confirm Add to Local.

LDAP Contacts	S. Call	Add to Local	👄 Batch Add	- Settings	
2 3000Operator					
	Add to Loc	al			
	Do you wa Contacts?	int to add "3000"	to local		
	Cano	cel	ок		

Figure 84: Add LDAP Search Result to Local Contacts





• Batch Add

Press the yellow shortcut key on the GVC3210 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	-	Select All	Add to Local	🛑 Back	
3880					
9 3881					
	Add to Local				
<u>)</u> 3882	Do you want to ac contacts to local?		n		
<u> </u>	Cancel	ОК			
<u>_</u> 3884					
<u>9</u> 3885					
3886					

Figure 85: 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 \rightarrow **Applications** \rightarrow

92.168.6.161 🙁 1000 (1000	l) 📞 Call	Missed	- Delete	± 🖬 🛱 🕅 🛱 🛱 🖬 15:06
Airrecords	ouii			
👤 Grandstream				14:28
👤 Grandstream				14:28
<u> 192.168.6.97:50</u>	60			13:34
<u> 286784450</u>				13:14
<u> </u> 386784450				13:11
<u> 286784450</u>				13:07
👤 Grandstream				12:54

Figure 86: GVC3210 Call History Screen





Click on a record in the call history and press **v** to dial out this number directly. Press "OK" key on GVC3210 remote control to view call details for this number.

Q 3044, 8200089		
S044	3044	Press 🗢 Add Contact
🔇 🔍 8200089	8200089	16:07 18sec

Figure 87: GVC3210 Call History Details

A Note:

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 GVC3210 Contacts, when the user clicks on the upper right Menu button in the Call History screen, the users can see and select "View contact" option in the dropdown 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. Tap on and select "Add contact" option to bring up the dialog box.
- 4. Confirm to add the contacts.





	Add to Contacts Add "1011" to co	ontacts?		
	Cancel	ОК	sec	

Figure 88: GVC3210 Add Contact Screen

- 5. Select existing contact or press the blue shortcut key on GVC3210 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 GVC3210 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 GVC3210 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 Micro SD card), and query file properties on GVC3210.





Copy File

To copy the file from GVC3210 to USB/SD storage device:

- 1. Insert USB/SD storage device into USB port on GVC3210. It will take a few seconds for GVC3210 to prepare the connection.
- 2. The USB storage icon will show up on the status bar.
- 3. Go to Home screen \rightarrow **Applications** \rightarrow **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 \rightarrow **Applications** \rightarrow **File Manager**.
- 2. Open the target folder.
- 3. Press the yellow shortcut key and select the file.
- 4. Press MENU key \equiv on GVC3210 remote control and select "Send" option.
- 5. Select target location and press "OK" key on GVC3210 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 \rightarrow **Applications** \rightarrow **File Manager**.
- 2. Open the target folder.
- 3. Press the yellow shortcut key and select the file.
- 4. Press MENU key \equiv on GVC3210 remote control and select "Rename".
- 5. Input the new file name in the pop out dialog and press "OK" key to save.

Press \bigcirc on GVC3210 remote control to cancel the operation.

Recording

GVC3210 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:

192.168.6.161 🔺 1000 (1000)			🏾 ± 🖬 🕯	📓 🔛 15:46
Recording	Delete	- Export	😑 Edit	
03.42.18PM_2				

Figure 89: GVC3210 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 blue shortcut key to edit (select) recordings.
- Press the MENU key to make other operations to recording files like export, rename, and lock/unlock.





Recording Settings

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

- 1. Go to Home screen \rightarrow **Applications** \rightarrow **Recording**.
- 2. Press the MENU key \equiv on remote control and select "Settings".
- 3. Plug in external Micro SD card or USB storage device.
- 4. Press the yellow shortcut key to choose the path of the recordings (Micro SD Card or Flash USB).
- 5. Press the blue shortcut key to choose the preferred format of your recordings (mkv or mp4).

192.168.6.161 🔺 1000 (1000)		💑 🖬 🏛 🛨 🕯	🕯 🛯 🖀 🔛 15:56
Recording settings	-	- Path Video	format 📃
Save path		extsd	4
Video format		mkv	

Figure 90: GVC3210 Recording Settings

- The locked files can't be deleted or overwritten, and cannot be shown in the third-party application, but can be viewed in GVC3210 video application.
- When the recording size exceeds 1.9G, the GVC3210 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.
- When the GVC3210 is using 4K resolution during the call, users can start the video call recording.
- When a USB with multiple partitions is used a save path, the folder "Recording" will be created in one partition of the connected USB drive, and the recording file will be stored in this folder.





Setup Wizard

GVC3210 offers a Setup Wizard tool to guide users into configuring their units step by step, the setup wizard appears automatically at factory reset, or it can be accessed anytime from LCD menu \rightarrow Applications \rightarrow Setup Wizard.

192.168.6.161 💧 1	000 (1000)			1 🖬	🖩 🛍 🕲 🖺 🔛 16:12
Application	ons				
Call	Camera	Contacts	Schedule	Call History	Voice Mail
Settings	Recording	GS Market	Browser	File Manager	Downloads
Backup	Diagnosis	Setup Wizard	IPVideoTalk	LDAP Contacts	Alexa

Figure 91: Applications→Setup Wizard

Users can follow the steps using the remote control to setup fields, skip, return, or confirm the action. Setup wizard tool is useful to lead users to check and configure the GVC3210 settings such as language, accounts, interface status and etc.



Figure 92: Interface Detection





When a USB containing a firmware file in its root directory is connected to the device, a prompt
message will appear requesting to confirm the upgrade process after a factory reset in the setup
wizard page.

Configuring GVC3210 using QR Code

Users can scan the QR code in GVC3210's Setup Wizard to configure the device quickly by accessing the Setup Wizard application in GVC3210 and use a mobile client to connect with the device's Wi-Fi name and password as presented in the LCD screen (see figure below). The mobile client will connect to the GVC3210, and the GVC3210 will show the QR code automatically. Users could scan the QR code and access to configure the GVC3210 device with the mobile client in this case.



Figure 93: Connect to GVC3210 Wi-Fi



Figure 94 : QR Code Scan





Backup

Backup Data

GVC3210 Backup application is used to back up data or import backup files to restore data. It can be accessed from Home **screen** \rightarrow **Applications** \rightarrow **Backup**. The default screen will list available backup files (if any) and backup options.

192.168.6.161 🕓 IPVideoTalk (8203499)			± 💷 🗈 🛍 🛱 🛱 16:18
🕥 Backup	- New	- Auto	Delete
			New
			Auto
			Delete
			Settings
			Refresh
	No backup files!		

Figure 95: GVC3210 Backup App

GVC3210 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.





192.168.6.161 🕓 IPVideoTalk (8203499)	🖬 🗄 🗈 🖺 🛱 🏳 16:20
1 Auto	Enable auto Frequency Set time
Enable automatic backup	
Backup frequency	No item is selected!
Set time	
Backup list	

Figure 96: GVC3210 Automatic Backup Screen

Note: Users have also the option to choose which commonly used apps need to be backed up, such as contacts, call history.

192.168.6.161 🕓 IPVideoTalk (8203499)		🖬 ± 🖩 🖬	🛿 📓 🔛 16:21
S New	Unselect all Start		
System Apps (5/5)			
Contacts			\checkmark
Call History			\checkmark
Config			\checkmark
Schedule			\checkmark
Preset			\checkmark
Third Party Apps (0/0)			\checkmark

Figure 97: Backup Commonly Used Apps





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.

192.168.6.161 🕒 IPVideoTalk (8203499)			🖬 1 🎚 🖬	🛿 🖁 🖫 16:24
① Restore	Select all	Restore		
System Apps (0/5)				 Image: A set of the set of the
Third Party Apps (0/0)				 Image: A start of the start of

Figure 98: GVC3210 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 Micro SD card or USB flash drive to the GVC3210 before configuring backup path.

Diagnosis

When troubleshooting GVC3210, users could go to GVC3210 home screen \rightarrow Applications \rightarrow Diagnosis

Tap on the option and follow the instructions on each function to perform Camera Test, Remote Control Key Test, Built-in Speaker Test and etc. During the test, users could press the BACK key or follow the prompt to exit the test.





192.168.6.161 (8203499)	🖬 ± 🖩 🛍 🕸 🖺 🔛 16:29
茾 Diagnosis	
Audio loopback test	
Built-in speaker test	
Camera test	
Auxiliary focus test	
HDMI input test	
Remote control key test	
Remote control touchpad test	
LED test	
Cartificate aback	

Figure 99: GVC3210 Diagnosis Screen

Browser

Users could browse web page, view news, and watch video via the built-in GVC3210 Browser. On home

screen, select Application \rightarrow 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 GVC3210 supports schedule that can be accessed in LCD menu \rightarrow Schedule (see section [Schedule]). The settings in this schedule are saved locally on GVC3210. If the user downloads and installs Google Calendar on GVC3210, the local schedule can be synchronized up with Google Calendar.

Please follow the steps below to set up Google Calendar sync with GVC3210 schedule:

- 1. Open Google Calendar on GVC3210.
- 2. Once Google Calendar is successfully installed and opened on GVC3210, it should automatically sign in using the same Google account in step 2.





3. On GVC3210 LCD menu → Settings → System → Accounts → Google Account, select Google account.

.168.6.161 🕓 1000	(1000)	보 🖬 🕞 ± 🕲 🛱 🔛 🕱 16:4
Language & in	Add Account	Đ
Date & time	Google	
Power manager		
Site name		
Storage		
Apps		
Accounts 🕨		
Web access		
Security		

Figure 100: LCD Menu → Settings → System → Accounts

- 4. Select the Google account under Google accounts.
- 5. Click on the checkbox for "Calendar" to enable calendar sync for this Google account.

192.168.6.161 1000	0 (1000)	🖬 ± 🖬 🖙 ± 🕸 🖩 🖫 宛 16:48
🗭 System		<u> </u>
Language & in	marc.michael001@gmail.com	
Date & time	People details Last synced 10/4/17 07:27	
Power manager Site name	Google Fit data Last synced 10/4/17 16:28	\checkmark
Storage	Contacts Cast synced 10/4/17 07:26	 Image: A start of the start of
Apps Accounts 🕨	Calendar Last synced 10/4/17 16:44	 Image: A start of the start of
Web access	App Data Last synced 10/4/17 07:26	\checkmark
Security		

Figure 101: Enable Calendar Sync for the Google Account





6. On GVC3210 LCD menu \rightarrow **Schedule**, click on the upper right MENU icon \rightarrow Settings.

192.168.6.161 (4)	(1000)	🖿 ± 🔒	🕞 ± 🛿 🖁 🔛 🗟 16:49
🛍 Schedule	📞 Call 🧶 💻	Celt conference	ew conference
		No schedule	New
		No schedule	Settings

Figure 102: GVC3210 Schedule → Settings

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

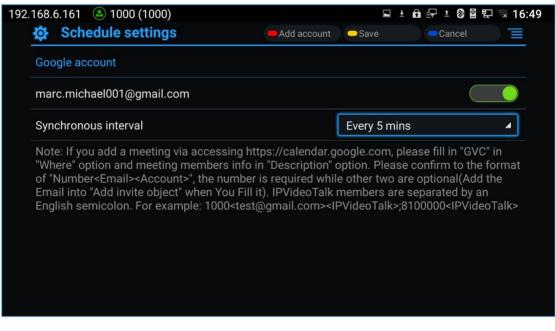


Figure 103: Enable Google Account for Schedule and Set Sync Interval

Now your GVC3210 has Google account successfully associated with schedule. The scheduled conference from GVC3210 or Google Calendar can synchronize with each other. Here is how to use it.





- To schedule meeting using Google Calendar and then synchronize up on GVC3210 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
4	SAVE Discard
Product Re	view
10/4/2017	6:00pm to 7:00pm 10/4/2017 Time zone
🗌 All day 🔲 F	Repeat
Event details	Find a time
Where	GVC
Video call	Add video call
Calendar	Marc Michael ▼
Description	1000 <sip>;8203499<ipvideotalk></ipvideotalk></sip>

Figure 104: Creating New Event in Google Calendar

3. The new event will be displayed in GVC3210 schedule shortly.

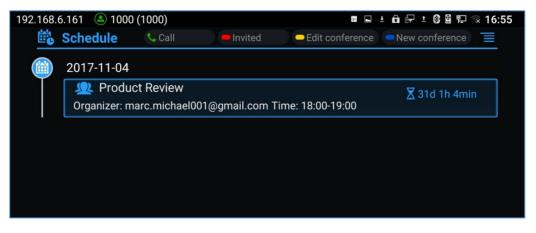


Figure 105: Google Calendar Event Synced in Schedule





• To schedule meeting on GVC3210 and then synchronize up with Google Calendar

On GVC3210 LCD idle screen (or web UI \rightarrow Contacts) \rightarrow 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 synchronized up in Google Calendar.

192.168.6.161 🕓 1000 (1000)		31	🖬 ± 🛍 🖅 ± 🕲 🖺 🖫	🗟 16:57
🤽 New conference	-	- Save	Cancel	
Related account			ocal	-
Subject		L	ocal	
Members		m	narc.michael001@gm	ail
Start time			2017-10-04 16:57	
End time			2017-10-04 17:57	
Remind time		10) Minutes in advance	 Image: A start of the start of
Conference preset		N	ot set	
Recurring		0	ne-time event	

Figure 106: Set "Related Account" to Google Account

Custom App on Home Screen

Users could add one app to the home screen for easy access. GVC3210 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** \rightarrow **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.

Move App to Micro SD Card

The apps that are not built-in on GVC3210 can be moved to an external Micro SD card plugged to the GVC3210 from GVC3210 LCD \rightarrow Settings \rightarrow System \rightarrow Apps page.

• Users could check the apps list on the external Micro SD card by pressing the Blue shortcut key on the GVC3210's remote control.





Ø System			All	Running	On SD Card
Language & inp		Google Play Store 20.00KB			~
Date & time Power manager	Ø	Speedtest 17.29MB			~
Site name					
Storage					
Apps 🕒					
Accounts					
Web access					
Security					

Figure 107: System → Apps

• Choose the target app that needs to be moved to Micro SD card, it will show its detailed information, then Click on "Move to SD card" to make the change take effect. After configuration change, note that the moved app will not be listed anymore on GVC3210 device after the external Micro SD card is ejected.

Language & inp	O Speedtest version 3.2.8	
Date & time		Uninstall
Power manager	Show Notifications	
Site name		
Storage	Storage	
	Total	18.58MB
Apps 🕒	Арр	18.58MB
Accounts	USB Storage App	0.00B
	Data	0.00B
Web access	SD Card	0.00B
Security		

Figure 108: Move App to SD card

• To move the app back to the GVC3210 internal storage, users could click "Move to device" on the detailed information page for the app on GVC3210 LCD → Settings → System → Apps page.





Storage	Storage				
	Total	35.87MB			
Apps 🕒	Арр	18.58MB			
Accounts	USB Storage App	17.29MB			
14/ab	Data	0.00B			
Web access	SD Card	0.00B			
Security	Move to device				

Figure 109: Move App to Device Storage

Uninstall Application

The applications (except the system applications) on GVC3210 can be uninstalled. Go to LCD Home screen \rightarrow 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

GVC3210 provides access to apps directly via built-in GS market. Users could download the apps from the market and install to GVC3210.

Search Apps

On GVC3210 Home screen, click on **Applications** \rightarrow **GS Market** Users could view the apps by category, or input key words and click on SEARCH icon to search the app.

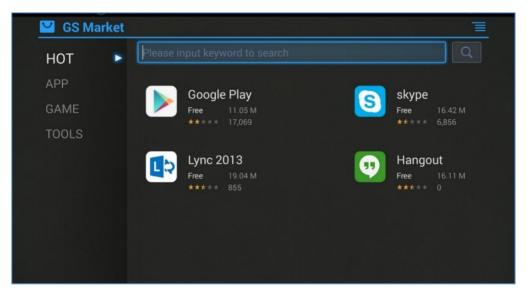


Figure 110: GVC3210 GS Market

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 GVC3210 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

GVC3210 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.





GVC3210 WEB UI FEATURES

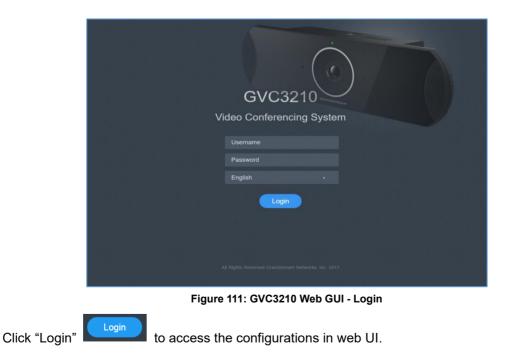
GVC3210 embedded Web server responds to HTTP/HTTPS GET/POST requests. Embedded HTML pages allow users to configure the application device through a Web browser such as Mozilla Firefox, Google Chrome[™], etc.

Accessing GVC3210 Web GUI

The IP address of the GVC3210 will show on the top status bar of the connected display device (e.g., TV) via HDMI.

To access GVC3210 Web GUI:

- 1. Connect the computer to the same network as GVC3210.
- 2. Make sure GVC3210 is turned on and shows its IP address on the top status bar of the connected display device.
- 3. Open a Web browser on your computer.
- 4. Enter GVC3210's IP address in the address bar of the browser, e.g.: http://192.168.5.162.
- 5. Enter the administrator's login and password to access the Web Configuration Menu. The default administrator username and password are "admin" and "admin". The default end user username and password are "user" and "123". The user can select English or other languages in the drop-down menu of language.





6



Saving Changes

When changing any settings on the web UI, always submit them by pressing the "Save" button on the bottom of the page, and then clicking the "Apply" button on the top of the page to apply the configuration

changes. For those options with icon $\stackrel{\clubsuit}{=}$ next to it in the web page, users must reboot the GVC3210 for the changes to take effect.

Definitions

This section describes the options in the GVC3210 Web GUI. As mentioned in the previous section, you can log in as an administrator or a normal user.

Call

Users could initiate conference and control conference from Web GUI.

- Contacts Manage contacts and LDAP client configuration, schedule conference and manage call history.
- Device Control
 Device Control and Audio Control.
- Settings Account, Network Settings, Peripheral, Call Features, General Settings, and Security Settings.
- **Maintenance** Upgrade, Recording, Time & Language, Troubleshooting and Reboot.
- Status

Account Status, Peripheral Status, Network Status, System Info and Remote-Control status.

The following table shows the web pages accessible by end user and administrator.

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

Table 21: GVC3210 Web Access





Toolbar

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

|--|

Figure 112: GVC3210 Web UI Tool Bar

• DND

Turn on/off DND mode. Once enabled, the DND text will turn into red in web UI. The LCD for GVC3210 display will shows DND indication on the top of the screen 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

GVC3210 Web UI call page is shown below. Users could make calls and initiate conference from Web UI.





GVC3210	DND R	emote control English 🔻 Logout
Call Contacts D	Device control Settings Maintenance	Status
Account info	3 Multiple numbers can be separated with ", ". (If empty, click to st	at
IPVideoTalk 8203499	IPVT meeting)	4 /1 Call - Video - 5
1000 1000	0,	
BlueJeans	£ 8200061	2017/10/04 10:17
. Н.323	L Conf:69781657,8200061,EMEA Office	2017/10/04 09:58
	1 69781657	2017/10/04 09:58
	火 69781657	2017/10/04 09:58
	LEA Office	2017/10/04 09:53
Barra d'an data	L Conf.61781348,EMEA Office	2017/10/04 09:49
Reservation status	LEMEA Office	2017/10/04 09:47
No scheduled conference!	REA Office	2017/10/04 09:47
2	1 8200061	2017/10/04 09:42
	1 2555,8200017,8200061	2017/10/04 09:32
	火 1004	2017/10/04 09:31
	火 8200061	2017/10/04 09:31

Figure 113: GVC3210 Web UI – Call

Table 22: GVC3210 Web UI - Call Settings

NO.	Explanation			
1	Accounts Registration			
2	atest conference schedule information			
3	Input Phone Number			
4	Dial out.			
5	Select call mode			
6	Display all call history.			

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.

Conference											
Local						Ţ)		0
L Conf:68765545	Conf	68765545	Video t	alking (IPVid	e	Ţ	•				•
	•					Mute	Block	Video Su	spend	↓ Camera	✦ End call
Con	ference mer	nbers			(C	Cannot	(Cannot	ON/OFF		Control	
						be	hear		Pau	SP	
					h	eard)	others)		uploa		
									upida	ung	
	Conference		Add	Delete	Open		Call	End			
	control	Recording	members	members			details	conference			
		\bigcirc	2+	Θ			i	×			

Figure 114: GVC3210 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.

Conference							
Local			Ţ	<u>@</u>		Ø	0
L Conf:68765545	Conf:68765545	Video talking (IPVide	Ţ	0		\bigcirc	0
		Presentation					
	Hold Layo						

Figure 115: GVC3210 Web UI - Conference Control





Contacts Page

This page lists Contacts, Schedule, Call History and LDAP Settings.

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.

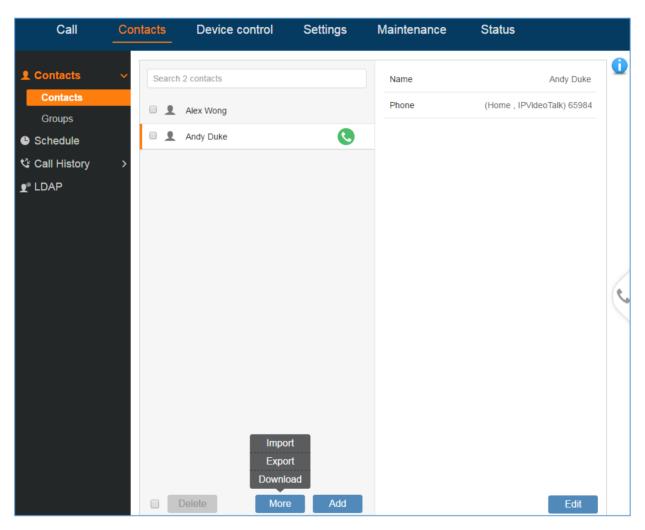


Figure 116: GVC3210 Web UI - Contacts

- Click on vert 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 GVC3210.

Groups

When IPVideoTalk supports a specific member "N" of contacts who can participate in the conference, the GVC3210 will dial only the "N" first contacts in the group.

Call	Contacts	Device control	Settings	Maintenance	Status		
Contacts Contacts		Sales Managers	2 Members	Name Group Members		Managers	0
Groups Groups Groups							
Call History	>			L Alex Wong		12345	
£ ® LDAP							
							e
		Delete	Add			Edit	

Figure 117: GVC3210 Web UI - Groups

Click on with 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 GVC3210.

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.

GVC3210)			DND Rem	ote control English 🔻 Logo	out
Call	Contacts	Device control	Settings	Maintenance	Status	
 LDAP LDAP LDAP 	t	7-10-11 est Drganizer:IPVideoTalk	© 2D 01:38 Time 16:30 - 17:30	Subject Meeting ID Password Start time End time Remind time Conference preset URL https://me Join by phone	test 67785038 2017-10-11 16:30 2017-10-11 17:30	
				Repeat	8088 and enter meeting ID One-time event	
		Delete	Add			

Figure 118: GVC3210 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 GVC3210.
- 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

GVC321	0			DND Rem	note control English 🔻 Logout
Call	Contacts	Device control	Settings	Maintenance	Status
Contacts	> .	Crandstream	11:43 2017/10/04	8200061	đ
Schedule	. 1	test	11:22 2017/10/04	🔇 🧕 8200061	2017/10/04 10:17
Call History	× 🗉 🧏	8200061	10:17 2017/10/04		
All	- 4	Conf:69781657,8200061,	09:58 2017/10/04		
Missed LDAP	. 1	69781657	09:58 2017/10/04		
	. 1	69781657	09:58 2017/10/04		
	. 1	EMEA Office	09:53 2017/10/04		
	. 1	Conf:61781348,EMEA Office	09:49 2017/10/04		
	. 1	EMEA Office	09:47 2017/10/04		e
	. 1	EMEA Office	09:47 2017/10/04		
	. 1	8200061	09:42 2017/10/04		
	. 1	2555,8200017,8200061	09:32 2017/10/04		
	. 1	1004	09:31 2017/10/04		
	. 1	8200061	09:31 2017/10/04		
		8200017,8200061	09:12 2017/10/04		

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

Figure 119: GVC3210 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 \bigcirc , or dial out immediately by clicking on \bigcirc .

LDAP

This section is the same as LDAP settings under chapter LDAP contacts. Please refer to **LDAP contacts** for more details.





Device Control Page

Video Control

Users could add preset and manipulate EPTZ 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 EPTZ control panel on the right, then save the configurations.

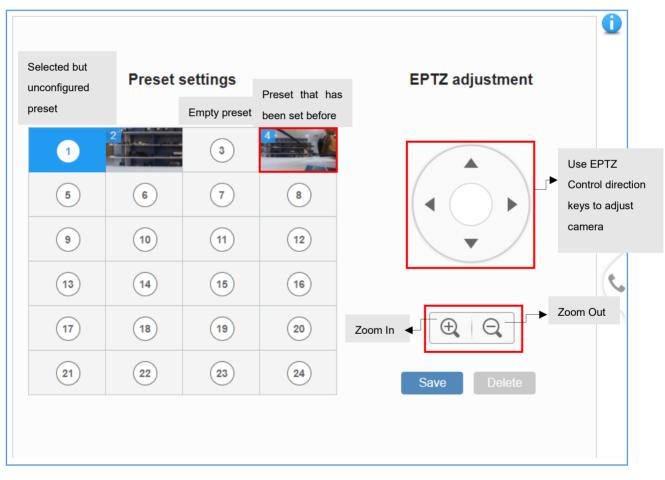


Figure 120: GVC3210 Web UI - Video Control

Note:

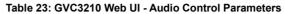
When the GVC3210 is using 4K resolution during video call, EPTZ is not supported. The GVC3210 supports 90° field of view. Please, install GVC3210 at the position that suits the best conference view if you plan to use 4K resolution.





Audio Control

Parameters	Descriptions			
Echo Delay	Configures the device's HDMI audio delay to match the audio latency of different TV sets.			
Ringtone Volume	Users can slide left or right to adjust ringtone volume. 0 is the lowest value, 7 is the highest value.			
Media Volume	Users can slide left or right to adjust media volume. 0 is the lowest value, 15 is the highest value.			
Device Ringtone	Select device ringtone from the dropdown list.			
Notification Ringtone	Select device notification ringtone from the dropdown list.			
	 Select the audio device that the GVC3210 will use for audio input and output during call or playing media : Auto (Default) GVC3210 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" > "USB" > "HDMI" > "Built-in Speaker" > "Gooseneck Mic". 			
Audio Device	 Bluetooth The Bluetooth audio device will be used for audio input and output. USB The USB audio device will be used for audio input and output. HDMI The audio input comes from the built-in MIC in GVC3210, and the audio output comes from HDMI. 			
	 Built-in Speaker The audio output comes from the built-in speaker in GVC3210, and the audio input comes from device with priority "Bluetooth>USB>HDMI>Gooseneck Mic>Built-in Mic" Gooseneck Mic The audio input comes from the connected Gooseneck MIC and the audio output comes from device with priority "Bluetooth>USB>HDMI>Built-in speaker" LINE IN/OUT 			
	Users can connect the GVC3210 to a Line in/out cable through USB port, and connect the Line in device/Line out device to the cable, in order to use other devices as the audio input/output devices.			







Call Progress	Using these settings, users can configure ring or tone frequencies based on parameters from the local telecom provider. By default, they are set to the North American standard. Frequencies should be configured with known values to avoid uncomfortable high pitch sounds.
	Syntax: f1=val, f2=val [,c=on1/off1[-on2/off2[-on3/off3]]]; (Frequencies are in Hz and cadence on and off are in 10ms)
	ON is the period of ringing ("On time" in 'ms') while OFF is the period of silence. In order to set a continuous ring, OFF should be zero. Otherwise, it will ring ON ms and a pause of OFF ms and then repeat the pattern. Up to three cadences are supported.
	Ring Back Tone:
	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;
Tones	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;
	Reorder Tone:
	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;
	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
	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;
	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; 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:
Call-Waiting Tone Gain	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; 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. Call Waiting Tone: Users can configure call waiting tone when there is another incoming call during the





FACTORY RESET

Users could reset GVC3210 to factory settings via the following ways: Reset via local GUI, via Web page, via the reset hole on the back panel of GVC3210. Factory reset will delete configuration info and syslog info.

Warning:

- 1. Factory reset will erase all GVC3210 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 GVC3210 anymore. Once the device reboot after reset, the user needs only to press OK+5 on the remote control at the same time for 4 seconds in order to pair and connect the remote control to GVC3210.

Reset via LCD

Go to GVC3210 LCD idle screen \rightarrow Settings \rightarrow Maintenance \rightarrow 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.

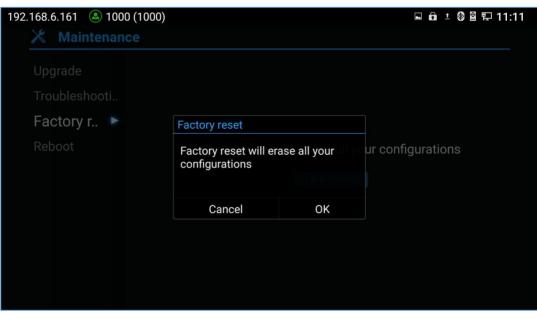


Figure 121: Factory Reset via LCD





Reset via Web UI

 Log in GVC3210 Web UI → Maintenance → Upgrade, the "Factory Reset" option is on the bottom of the page.

Figure 122: GVC3210 Web	
Factory reset :	Reset

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



Figure 123: GVC3210 Web UI - Factory Reset Confirmation

Reset via Reset Hole

There is a Reset hole on the bottom panel of GVC3210, use a small pin to hold against the Reset hole for more than 10 seconds to restore factory settings.





EXPERIENCING GVC3210

Please visit our website: <u>https://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 <u>product related documentation</u>, <u>FAQs</u> and <u>User and Developer Forum</u> 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 <u>submit a trouble ticket online</u> to receive in-depth support.

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