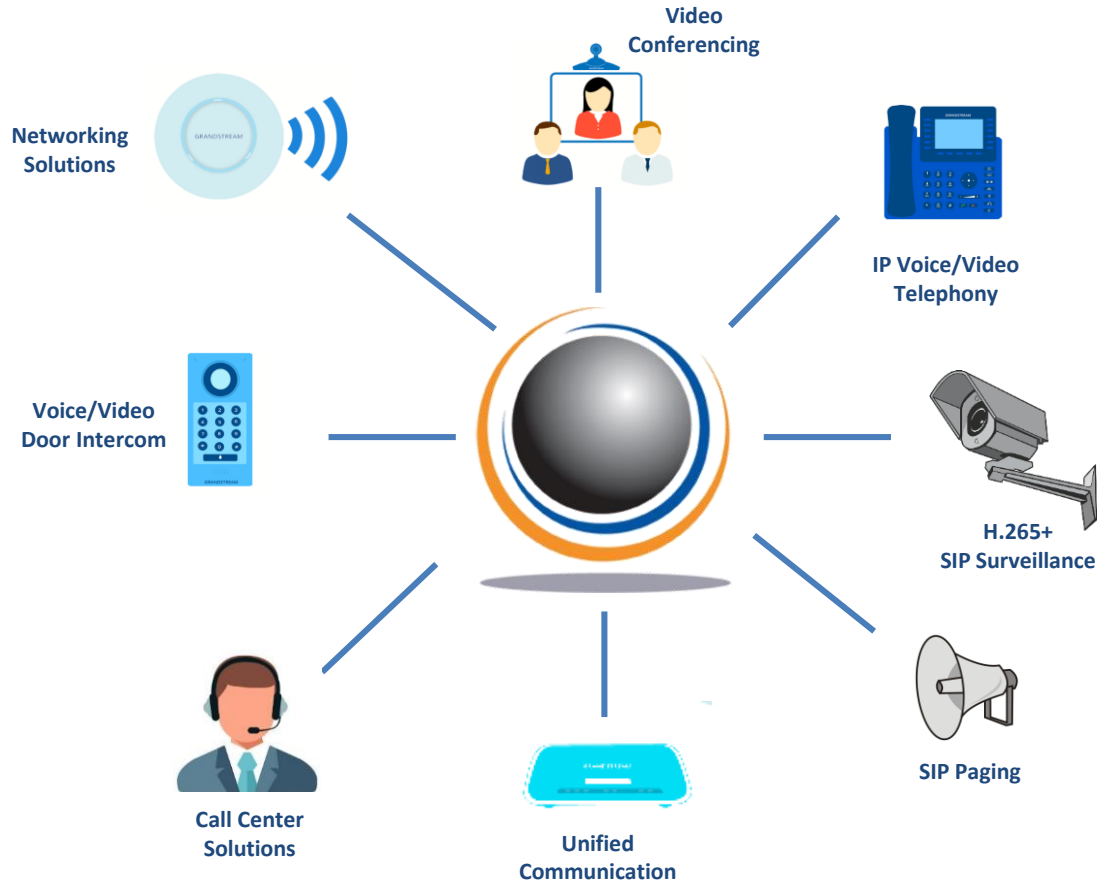




**EMPOWERING
COMMUNICATION**

TOTAL SOLUTIONS





COMPANY PROFILE

Cohesive Technologies is a Global Telecom Solution Provider on VoIP and IP Platform As well a leading Integrator and Solution Provider with the Best Innovative IP Solutions which adds value to Customers through a combination of different high end technologies for a true Converged Solution.

Working with Technology Partners like **Cyberdata, Digium, Epygi, Grandstream, Milesight, Wi-Tek and Yeastar** helped us delivering state-of-the-art-technology Products to Premise and Cloud based requirements for various companies that span across multiple segments.





AWARD WINNING HISTORY



COHESIVE GLOBAL REACH



HEADQUARTER

Cohesive Technologies (P) Ltd. | **Email Id:** info@cohetechnologies.com, **Web:** www.cohesiveglobal.com
CS-4, 5 & 6, 4th Floor, Ansal Plaza, Sector 3 Vaishali, Ghaziabad (U.P.) 201010 | **Contact No:** +91 120 4830000



Cohesive Technologies Pvt. Ltd

Corporate Office: CS-4, 5 & 6, 4th Floor, Ansal Plaza, Sector 3, Vaishali, Ghaziabad (U.P) - 201010

Email: info@cohetechnologies.com **Web:** www.cohesiveglobal.com



SEGEMENT WE CATER & TECHNOLOGY PARTNERS



Enterprise



Education



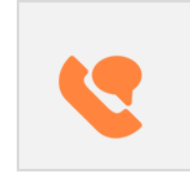
Healthcare



Residential



Auto
& Transportation



Telecommunication



Financial

CyberData
The IP Endpoint Company

digium
A SANGOMA COMPANY

epygi

GRANDSTREAM
CONNECTING THE WORLD

Milesight

Wi-Tek
Communication Solution

Yeastar

Cohesive Technologies Pvt. Ltd

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Email: info@cohtechnologies.com **Web:** www.cohesiveglobal.com

COHESIVE
Technologies

PRODUCT PORTFOLIO

SIP COMPLIANT

Industrial/WiFi
& VoIP Phones



SIP Video
& Cordless Phones



ATAs
& Gateways



Asterisk Hardware
& Headset



SIP Voice & Video
Door Intercoms



SIP Paging
& Accessories



UCM with
Video Conferencing



Business Conf.
& IPVideoTalk



Networking
Solutions



H.265+ SIP
Surveillance & PoE NVRs



Network
Switches



Call Center
Solutions



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Grandstream Networks

Connecting the World

About Grandstream

- **Founded in 2002**
- **Over 600 employees**
- **Product Portfolio contains over 40 products: *Business Conferencing, IP Phones, Gateways and ATAs, Networking Devices, Surveillance and Facility Access Systems, and Award Winning IP PBXs***
- **Primarily serving small-to-medium size businesses (SMBs) and consumer markets**



Boston - Headquarters
Los Angeles, CA
Dallas, TX



Hanghou, Shenzhen
Hong Kong -
Warehouse



Casablanca - Support Center, EMEA



Venezuela- Support Center, LATM



Moerdijk - Warehouse



Why IPV10?



"I need to manage IPVideoTalk by myself"



"I want to use IPVideoTalk without paying periodically"



"I want a convenient IPVideoTalk Plan"

Why IPVT10?



"I need to manage IPVideoTalk by myself"

- Company policies and restrictions
- Manage private information
- Customization



"I want to use IPVideoTalk without paying periodically"

- One-time payment
- IPVideoTalk requires 1 plan per GVC
- IPVideoTalk can only be used with the GVC series



"I want a flexible video conferencing system"

- IPVT10 can connect to any 3rd party SIP device
- More video feed capabilities, participants, and conferences
- No subscription

IPVT10

Enterprise Video Conferencing Server

- Built for high-capacity use with up to 300 participants & 10 conference sessions
- Audio and video recording with 500GB built-in storage
- Powerful video resolution of 1080p with up to 120 video feeds and 300 participants
- Facebook & YouTube Live integration
- Customized meeting reports for optimal productivity
- Strongest security protocols for a secured conferencing experience





IPVT10

Enterprise Video Conferencing Server



300 participants

Supports up to 300 participants and 10 simultaneous conference sessions



Up to 120 video feeds and 300 participants per single conference session



Advanced anti-jitter algorithm to sustain smooth audio & video against up to 30% packet loss



Audio, video, charts & reports recording capabilities with 500GB local storage



Live broadcast using Facebook/YouTube Live features



Access from PC/Mac, mobile devices, video conferencing systems, video phones, PSTN trunk, or SIP PBX



1080p 30fps H.264/VP8 for real-time video and screen sharing



Advanced meeting control, flexible scheduling, customizable registration, invitation, follow-ups & reports



HTTPS and WSS/DTLS-SRTP encryption for WebRTC, TLS/SRTP encryption for SIP

Customizable Account Number and Enterprise Contact Synchronization



Highly Customized Meeting Schedule

The screenshot displays a video conference interface. On the left, a grid of video thumbnails shows participants: Cary, Anissa, Catherine, and Charles. The main area features a screen share of a presentation slide titled "Test" containing a pie chart with four segments (blue, orange, yellow, grey) and a table with the following data:

Category	Value
Upcoming	34
History	7191

On the right, a "Group Chat" window shows messages from Amy (11:15:56), Selma (Host) (11:23:56), and Me (11:16:24). The main interface includes a top navigation bar with "Meetings", "Recordings", "Contacts", "Devices", "Plans", and "Statistics". Below this is a "Basic Info" tab for a meeting configuration page with the following fields:

- Plan/Room Device: Select linked plan/room device
- Subject: (empty)
- Organizer: John Smith (j.smith@example.com)
- Time Zone: (GMT-04:00) Eastern Time (US and Canada)
- Start Time: 07/27/2018 04:40 PM
- Duration: 1 hr 0 min
- Recurring:
- Password: (empty)
- Description: (empty)
- Agenda: (empty)
- Server's Preferred Location: Miami, US
- Attendee Controls: Muted by Host on Entry, Display Attendees List/Status, Allow Chat, Play Beep When Attendee Joins/Leaves Meeting, Enable Q & A, Automatic Recording

Buttons for "Schedule" and "Cancel" are at the bottom.

Meeting Layouts



Tile Layout



Active Speaker Layout

Support 4/9/16/25/36/49 tile layout mode

	IPVT10	Yealink YMS 1000	Huawei VP9630	Cisco CMS1000
Registrants	Up to 300	VMR- unlimited	Up to 12 (more available by license)	Up to 450 (2,600 across multiple servers)
Simultaneous Sessions	Up to 10	By license	N/A	Up to 12,000
Video Resolution	1080p	1080p	1080p	48-way 1080p
Video Feeds	Up to 120-way	Up to 20-way	24 ports	48-way
Audio Codecs	Opus, G.722, G.711a/u up to 48KHz wide-band audio mixing	ARES, Opus, G.722.1C, G.722.1, G.722, G.711(μ/A)	G.722.1, G.722.1C, G.711, G.722, G.728, G.729A, G.729AB, G.719, and iLBC	G.722, G.722.1, G.722.1c, G.728, G.729a, G.711a/u
Recording	Yes	Yes	Yes	Yes
Meeting Features	Meetings & Webinars, Multiple Hosts/Panelists, Audio/Video ON/OFF Control, Group/Private Chat, Q&A, Mute/Camera-Off/Exit	Meetings, Audio/Video ON/OFF Control, Scheduling w/Outlook, One-touch Access, Invite H.323/SIP device	Meetings, Mute Video, Scheduling w/Outlook, Content and Video Source Lock	Meetings, Audio/Video ON/OFF Control, Add/Drop/Mute, Sort/Filter/Search participants, Layout change of meeting/ participant
Meeting Management	Meeting Invitation, Registration, Reminder, Post Meeting Reports & Follow-Up	Meeting Reminders, Meet Now feature, Call Statistics	Email notification, Data export and import, CDR support	Call statistics for audio, video or presentation
MCU	H.264/VP8 1080p30	1080p30	1080p60	1080p60
Registration Devices	Up to 10,000	Up to 10,000	N/A	Up to 500

	IPVT10	Yealink YMS 1000	Huawei VP9630	Cisco CMS1000
Registration Devices	Up to 10,000	Up to 10,000	N/A	Up to 500
NAT	ICE/TURN/STUN/NAT	ICE/TURN/STUN/NAT	H.460/Static NAT	TURN
Enterprise Directory	Yes	Yes	No	Yes
Storage	Yes (500GB built-in)	No	No	Yes
Devices Supported	PC/Mac, Android/iOS mobile devices, GVC video conferencing, GXV video phone, PSTN trunk, or SIP PBX	PC/Mac, Android/iOS mobile devices, Yealink's VC endpoints, SIP trunk, PSTN,	H.323, H.320, SIP, TIP, HD/SD endpoints, mobile devices and audio endpoints	PC/Mac, Android/iOS mobile devices, third-party rooms or desktop endpoints
WebRTC	Yes, Chrome, Firefox, Safari, EI/Edge	Yes, Chrome, Firefox, 360	No	Yes, Chrome
SIP Trunk	Yes	Yes	Yes	No
Security	HTTPS and WSS/DTLS-SRTP encryption for WebRTC, and TLS/SRTP encryption for SIP	TLS / SRTP / HTTPS / SSH, AES-256bit	HTTPS, H.235 (AES256) and SRTP/TLS (AES256) encryption	TLS, SSL, AES, SRTP, DNSSEC, IPv6, JITC, FIPS-140-2
Network Resilience	Up to 30% packet loss	Up to 30% packet loss	Up to 30% packet loss	Up to 30% packet loss

Security and Reliability

Transport Layer



SIP-TLS/SRTP

Secure Signaling



Secure RTP

128-bit AES video/audio encryption

Secure Meeting



**ICE/TURN/STUN/
NAT**

Firewall Technologies

Application Layer



Secure Access

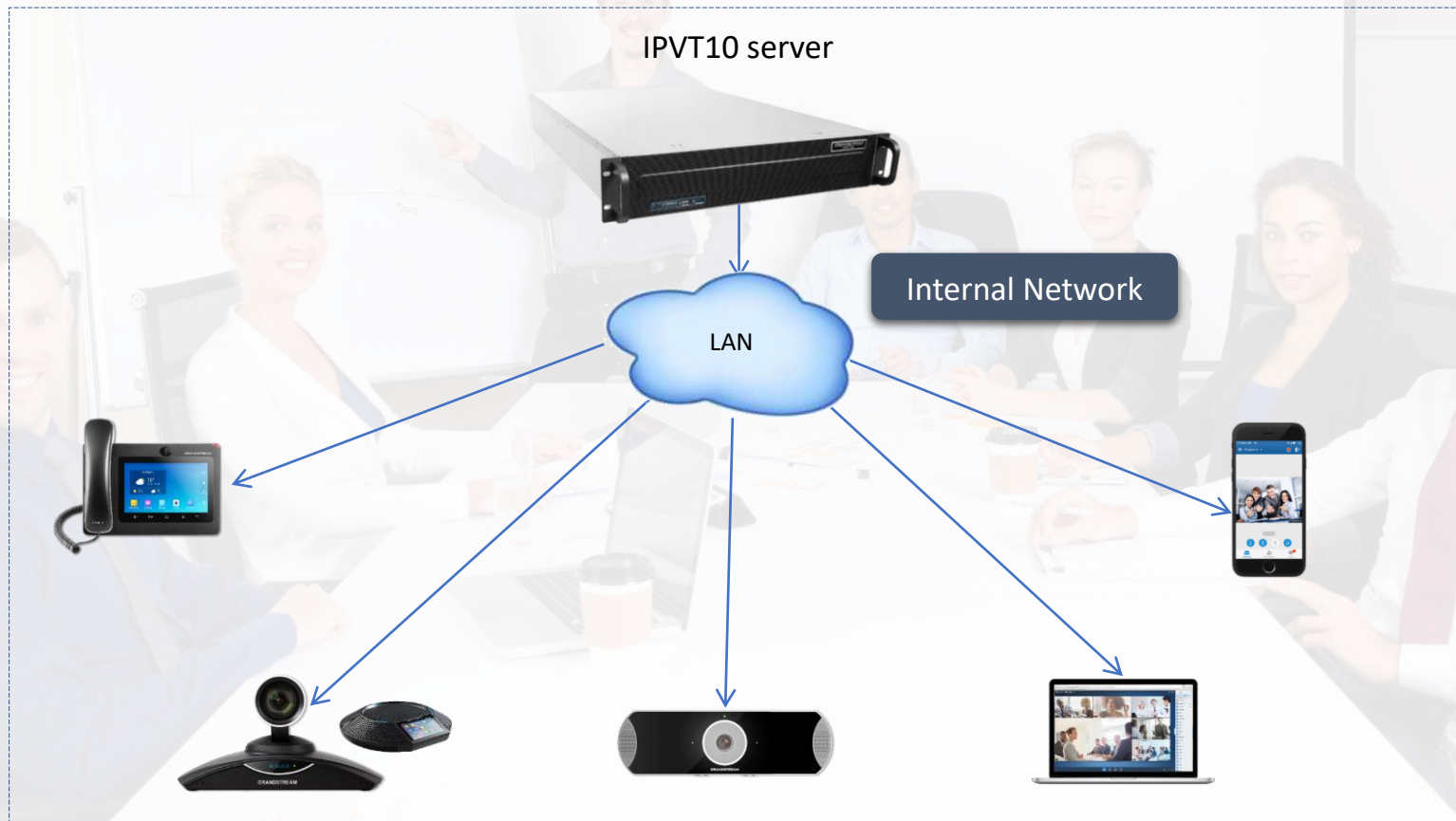
**HTTPS /
Password
Protection**



**Remote management and diagnostics to lower
maintenance costs**

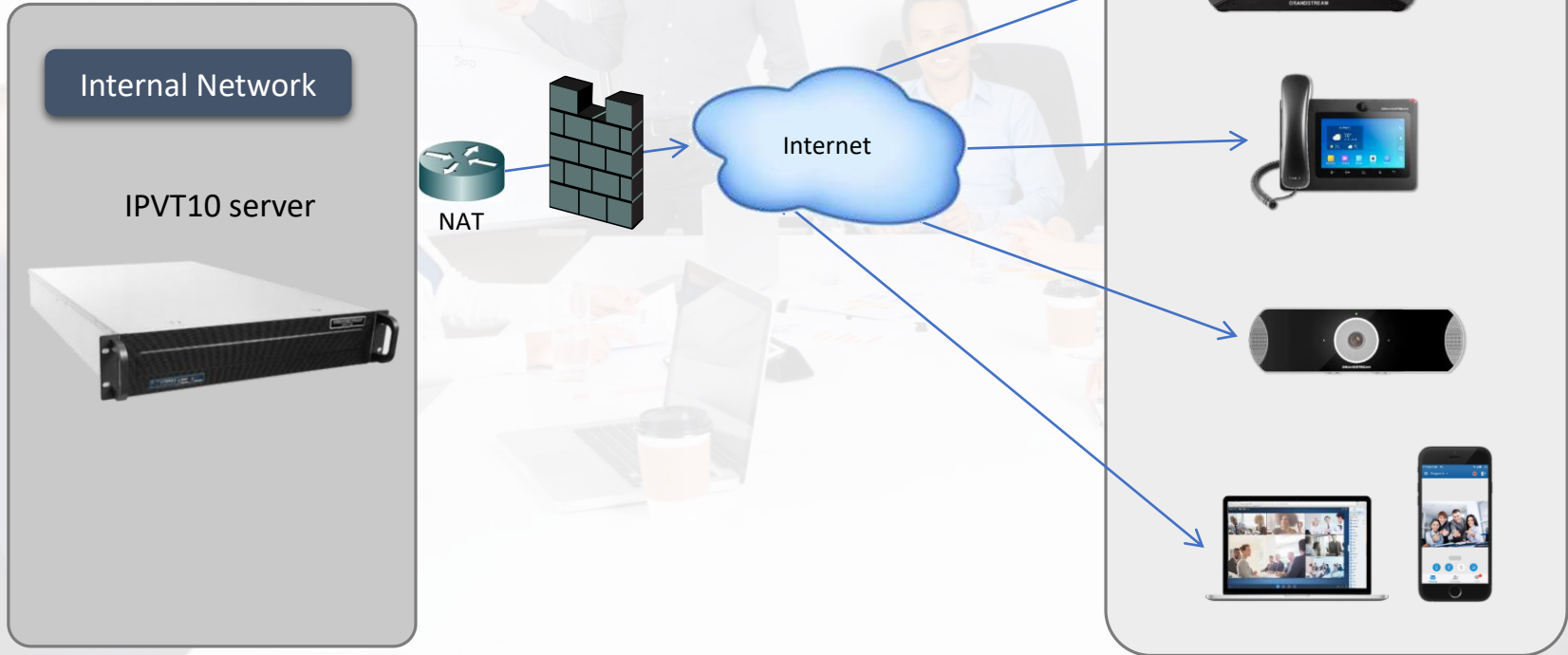
Typical Deployment 1:

- IPVT10 and end devices are in internal network



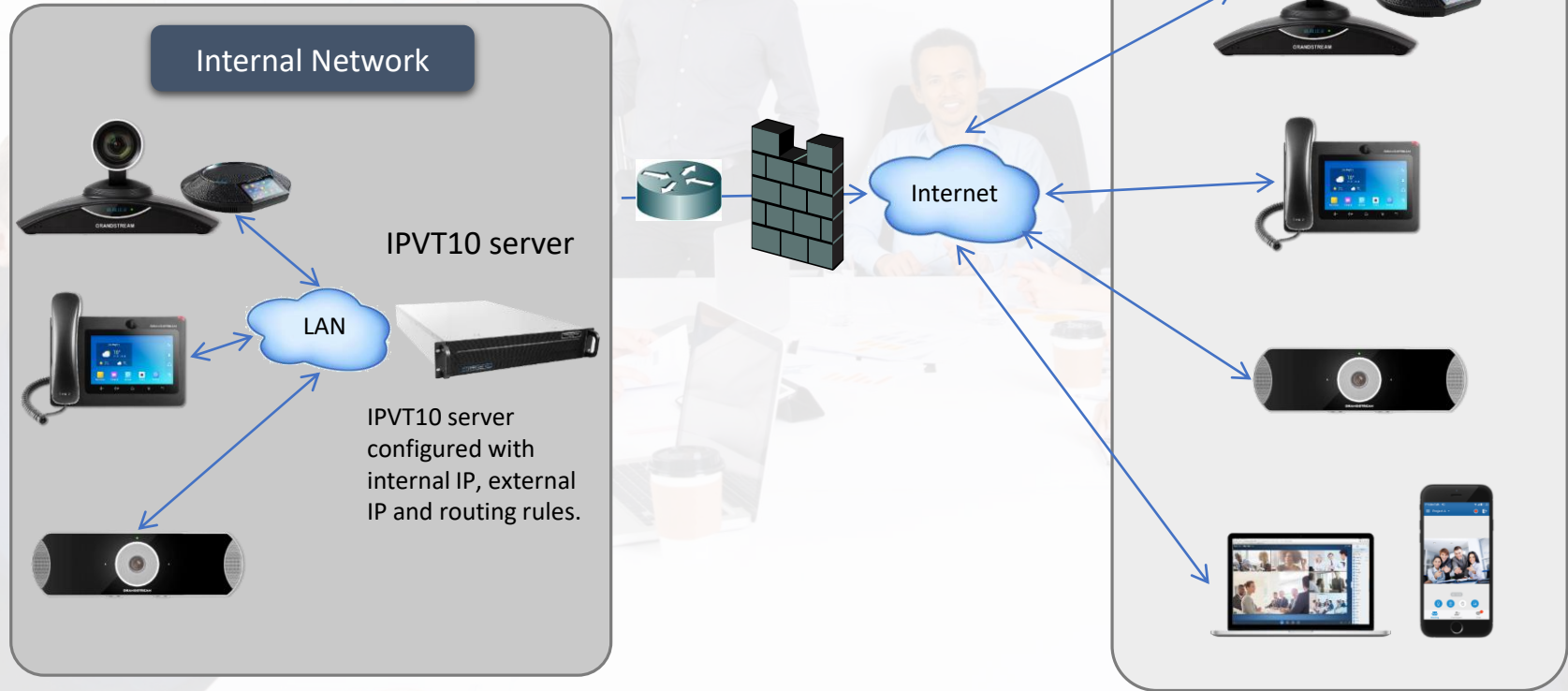
Typical Deployment 2:

- IPVT10 is in internal network under NAT
- End devices access from external network



Typical Deployment 3:

- IPVT10 is in internal network
- End devices access from both internal and external network



Selling, Demo, and Licensing

- All IPVT10 units are sold at a fixed price with a demo license
 - Includes watermark on all videos
 - 60-day trial period for users to test maximum performance of device
 - Licensing is provided upon final sale of device
- Three licensing options available for customers
 - 49-way MCU and 100 attendees
 - 98-way MCU and 200 attendees
 - 120-way MCU and 300 attendees
- Contact your Grandstream local distributor for more information



GVC3200 Series Video Conference System

Grandstream Business Conferencing



GVC3200 Series Video Conferencing System

This Changes Everything



The GVC3200 series combines the power of SIP, the expandability of a cloud platform and the unrivaled flexibility of Android

- **Easy Installation** – This open standard SIP system requires a 2-step installation without any extra/proprietary equipment
- **Easy to Use** – Plug and play connection laptops for screen-sharing
- **Easy Interoperability** – GVC3200 can communicate with third-party SIP video conferencing platforms as well as utilize Android apps
- **State-of-the-art hardware** – No external MCUs or on-site servers required, as the MCU is built-in to the camera unit
- **Advanced Video Support** – 1080p Full-HD video, support for up to 3 monitor outputs and a PTZ camera with 9x or 12x zoom
- **Introduce video conferencing to your business or expand your current SIP platform with the GVC3200 series**

GVC3200

Video Conferencing System



- Android 4.4 based with support for Skype, Google Hangouts, SIP video calling and more
- Built in MCU with up to 4-way 1080p video conference, 5-way 720p and 9-way VGA
- Advanced remotely controllable PTZ camera with wide angle lens and 12x optical zoom
- Gigabit network port, Wi-Fi, Bluetooth 4.0, and 3 HDMI output ports for 3 screen view and screen sharing
- Includes Bluetooth based remote control, GAC2500 audio conference phone, and mounting kit



GVC3202

Video Conferencing System



- Android 4.4 based with support for Skype, Google Hangouts, SIP video calling and more
- Built in MCU with up to 2-way 1080p video conference, 3-way 720p and VGA
- Advanced remotely controllable PTZ camera with wide angle lens and 9x optical zoom
- Gigabit network port, Bluetooth 4.0, and 2 HDMI output ports for 2 screen view and screen sharing
- Includes Bluetooth based remote control, GAC2500 audio conference phone, and mounting kit



NEW

GVC3210

Video Conferencing Endpoint



- Sharp HD video resolutions up to 4k Ultra HD
- Runs on Android 6.x operating system with full access to applications in the Google Play store
- Integrated dual-band WiFi and Bluetooth
- Built-in 4-MIC array with Noise Shield Technology, and support for external audio equipment
- Advanced camera with 16M pixel CMOS sensor, 90 FOV wide angle lens and ePTZ
- Support for Miracast wireless content sharing
- 1x HDMI in, 2x HDMI out, and 2x USB, 1 Micro SD



Comparison Chart

			
Model	GVC3200	GVC3202	GVC3210
MCU & Camera	All-in-one	All-in-one	No MCU
MCU	4-way 1080p 5-way 720p 9-way VGA	2-way 1080p 3-way 720p & VGA	No MCU: Point-to-point 4k <i>Multi-point based on cloud platform</i>
Resolution	Up to 1080p (30fps)	Up to 1080p (30fps)	Up to 4k (30fps)
Cloud Platform Required for Multi-point	No - Optional	No - Optional	Yes
Video In	1x HDMI/VGA	1x HDMI/VGA	1x HDMI
Video Out	3x HDMI	2x HDMI	2x HDMI
Lens	12x zoom, wide	9x zoom, wide	3x zoom, wide
Operating System	Android 4.4	Android 4.4	Android 6.x
H.264 Video	Yes, (HP) (MP) (BP)	Yes, (HP) (MP) (BP)	Yes, (HP) (MP) (BP)
H.323 Video	Yes	Yes	Yes
Bluetooth/Wi-Fi	BT, Wi-Fi dual-band	BT only	BT, Wi-Fi dual-band
Content	1080p	1080p	1080p
Remote Control	BT & Smartphone	BT & Smartphone	BT & Smartphone
Mic/Speaker Included	Yes - GAC2500	Yes - GAC2500	Built-in Mic/Speaker

Video Conferencing has never been this *Easy*



Easy to Install

-Just connect the GVC3200 series to HD monitors, internet & power...that's it!



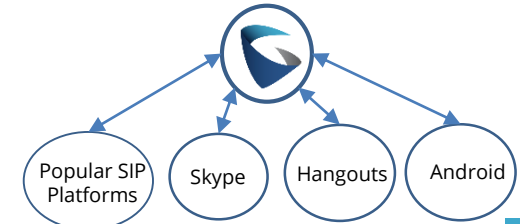
Easy to Get Started

-Full access to our cloud platform, IPVideoTalk Pro



Easy Interoperability

- Never be locked into one vendor*
- Interoperable with popular 3rd party SIP platforms*
- Expand any current or future 3rd party system*



GVC3200 Series Video Conferencing System



Features	GVC3200	GVC3202
MCU & Camera	All-in-one	All-in-one
MCU	4-way 1080p 5-way 720p 9-way VGA	2-way 1080p 3-way 720p or VGA
Resolution	1080p (30fps)	1080p (30fps)
Can bridge SIP call with Skype or Google Hangouts	Yes	Yes
MCU License Required	No	No
Video In	1x HDMI/VGA	1x HDMI/VGA
Video Out	3x HDMI	2x HDMI
Lens	12x zoom, wide	9x zoom, wide
Operating System	Android 4.4	Android 4.4
H.264 Video	Yes, (HP) (MP) (BP)	Yes (HP) (MP) (BP)
Bluetooth/Wi-Fi	BT 4.0, Wi-Fi dual-band	BT 4.0, Wi-Fi No
Content Sharing	1080p	1080p
Remote Control	BT & Smartphone	BT & Smartphone
MIC/Speaker Included	Yes	Yes

Easy Installation

Avoid Complicated Installs Required by other Vendors

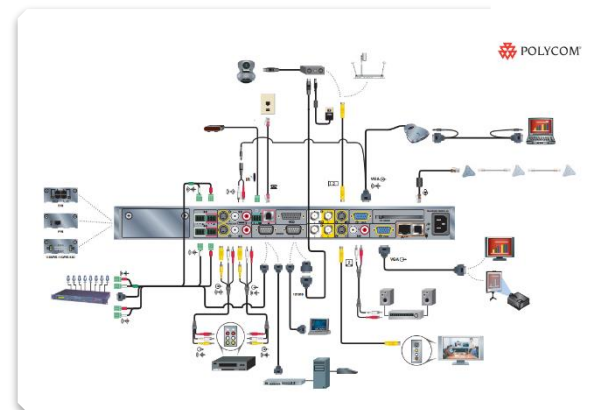


1. Plug in GVC3200 series camera and connect speakerphone to camera unit
2. Connect GVC3200 series to TV monitors (no MCU/server required)
3. You are now ready for Video Conferencing



Competition

- **Complicated installations** that ask you to tear apart your conference room to run wiring
- **Numerous pieces of equipment including separate MCUs/servers** that must be directly connected to your video conferencing unit



*Installation examples using
Cisco

Easy Installation

Avoid Complicated Installs Required by other Vendors

The GVC3200 series comes complete with a comprehensive package including speaker, mounting kit and cables – every accessory you'll need for set-up.



Packaging list for the GVC3202 includes:

- GVC3200 unit (*MCU and camera in one device*)
- GAC2500 Conference Phone as external speaker
- Bluetooth remote control
- 12V power adapter set
- 5m HDMI cable
- 3m HDMI cable (x2)
- 1.5m HDMI cable
- 5m USB extension cable
- 1.5m Ethernet cable
- Wall mounting bracket
- All necessary screws and bolts



Easy to Get Started and Easy to Use

Cloud Video Conferencing with No Initial Contracts



The power of our **IPVideoTalk** cloud video conference platform allows plug and play video conferencing so you can easily keep in touch with clients, customers and co-workers worldwide.



Easy Interoperability

Use the GVC3200 series in a Variety of Ways



- No vendor lock-in
- Fully interoperable with popular third-party SIP platforms
- GVC3200 series hardware built on open standards (SIP)
- Expand your current or future third-party system
- Communicate with any SIP-based or Android platform



Easy Interoperability

Use the GVC3200 series in a Variety of Ways



1. IPVideoTalk

- Use with Grandstream's cloud service for plug and play use to experience up to 9-way video conferencing



2. Third-Party SIP Systems

- Use to communicate with or expand any SIP-based third-party video conferencing solution from any vendor



3. Android apps

- The GVC3200 series can host video conferences using any Android app, including Skype, Google Hangouts and more

Extension 102

4. Video Conference Bridge

- Add the GVC3200 series as an extension on your IP PBX or hosted/cloud PBX for use as a video conferencing bridge



Easy Interoperability

Use the GVC3200 series in a Variety of Ways

Interoperable with a wide variety of video conferencing devices and applications, including:



- Direct IP calls between multiple GVC3200s and GVC3202s
- Video calls between GVC3200 series and SIP video phones such as the GXV3240 & GXV3275
- Video calls with Android applications such as Skype for Business, Google Hangouts, Skype & GoToMeeting
- Video calls between other VCS, such as Cisco, Polycom and LifeSize — via H.264 standard
- Bridge video calls from multiple VCS platforms and Android applications, all in once conference



Powered by Android™

- Android 4.4 based – with full access to the ever expanding Google Play Store
- Custom applications available through the Android SDK
- Support for popular video conferencing applications (via Android), including: Skype for Business, Skype, Google Hangouts, GoToMeeting, Bluejeans & many more



GVC3200

Input & Output Ports



- 1 RJ45 10/100/1000 Gigabit Network Port
- 3 HDMI outputs
- 1 HDMI input
- 1 VGA input
- External speaker port
- 1 USB port
- 1 SD card slot
- Reset pin



GVC3202

Input & Output Ports



- 1 RJ45 10/100/1000 Gigabit Network Port
- 2 HDMI outputs
- 1 HDMI input
- 1 VGA input
- External speaker port
- 1 USB port
- 1 SD card slot
- Reset pin



Easy Video Conferencing

The GVC3200 series is the ideal Video Conferencing Solution for Small Businesses

Small Businesses



- ✓ Keep in touch with clients
- ✓ Impress perspective clients
- ✓ Keep in touch with vendors/suppliers
- ✓ Keep in touch with remote employees

Doctor's Offices



- ✓ Call other doctors
- ✓ Consult through video conferences
- ✓ Meetings/consultations with specialists, hospitals, Emergency Rooms, etc.

- ✓ **Easy Installation**
- ✓ **Easy to get Stated**
- ✓ **Easy Interoperability**
- ✓ **Up to 3-way video**

Schools

- ✓ Hold multi-classroom events
- ✓ Video conference with other schools
- ✓ Bring in guest-speakers through video conferencing
- ✓ Meet with outside specialists
- ✓ Video conference with parents



Small Law Offices

- ✓ Keep in touch with clients
- ✓ Hold face-to-face meetings with perspective clients
- ✓ Meet with remote or travelling teams



Easy and Powerful Video Conferencing



Video Features

- Full 1080p HD Video Conferencing
- Supports 3 output TV monitors on the GVC3200, and 2 on the GVC3202
- Wide-angle PTZ camera controlled by remote control
- 12x (GVC3200) or 9x (GVC3202) optical zoom
- 1 HDMI and 1 VGA input





Video Resolution

- H.264 BP/MP/HP codec
- GVC3202 - 2-way video conference at 1080p FHD, and 4-way on 720p or VGA
- GVC3200 - 4-way video conference at 1080p FHD, 5-way 720p HD, and 9-way VGA

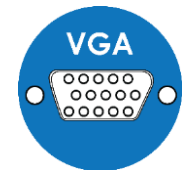
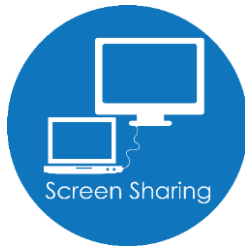


Easy and Powerful Video Conferencing

Content Sharing

Share any computer or tablet screen with other attendees:

- Show presentations
- Review and markup documents
- View web content
- 1 HDMI and 1 VGA input

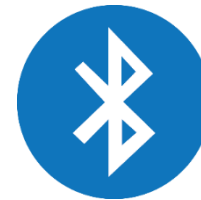


Easy and Powerful Video Conferencing



Audio Features

- Includes GAC2500 conference phone as external speaker and microphone
- Microphone also built-in to camera unit
- Built-in Bluetooth (for speakers and headsets)
- Comprehensive audio codec support



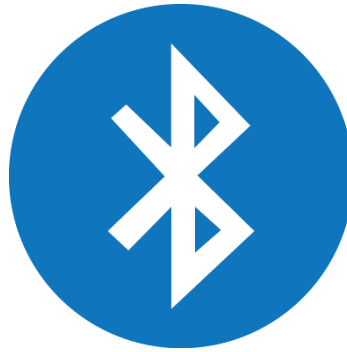
Easy and Powerful Video Conferencing



Network Features

- Gigabit network port
- Speedtest.net Android app pre-installed with GVC3200 series to give users ability to monitor their available bandwidth





Bluetooth Remote

Included is a Bluetooth touchpad remote – featuring an easy to use Android interface

- Bluetooth 4.0 compliant
- 3-point touch pad
- 5 navigation keys, 3 Android keys, 4 functional keys, 3 multi-purpose keys
- 0-9, #, * DTMF keys
- Supports OTA firmware upgrade
- Powered by 2 AA batteries

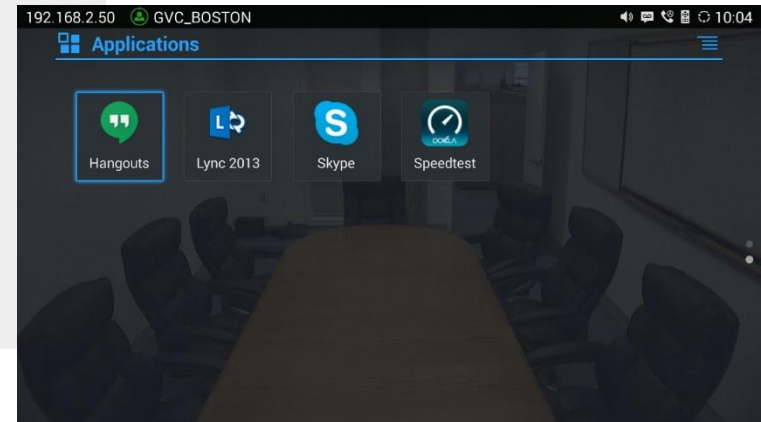
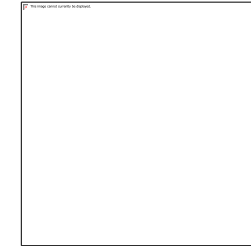
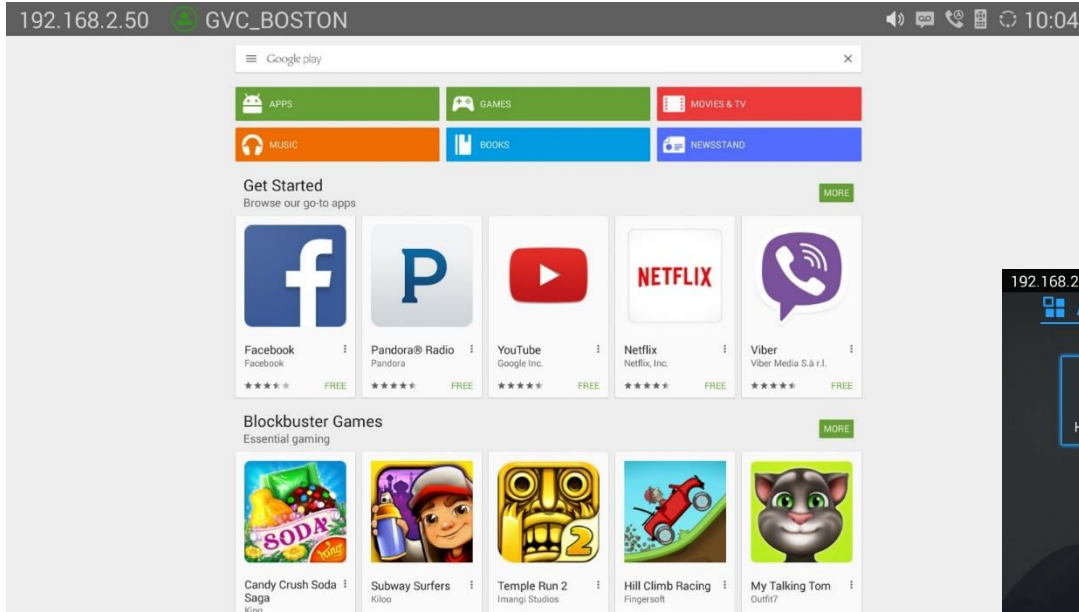


Powered by Android™

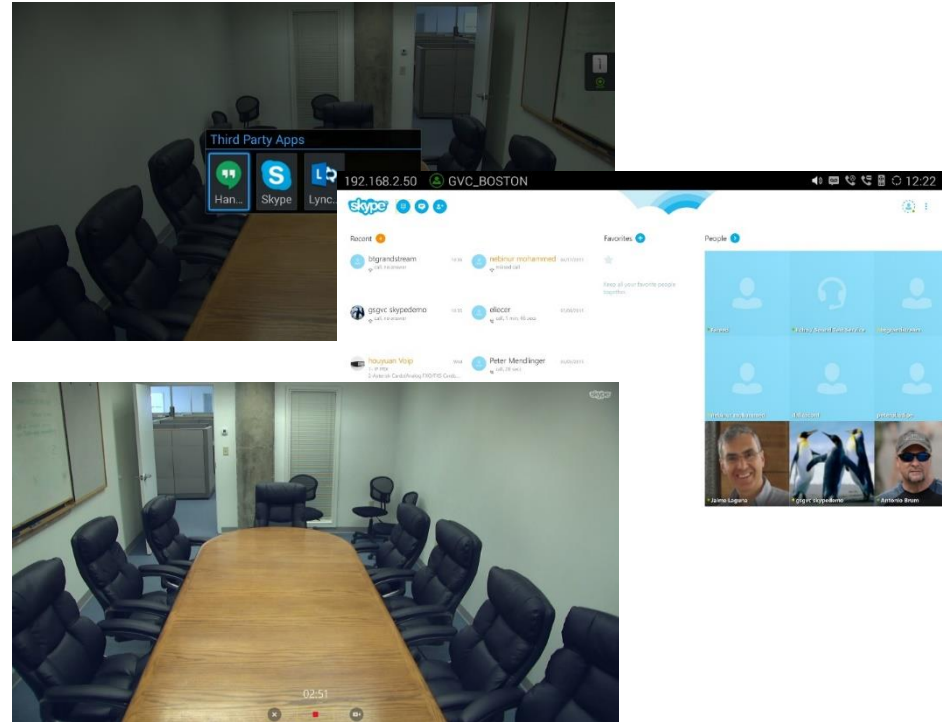
- Android 4.4 based – with full access to the ever expanding Google Play Store
- Custom applications available through the Android SDK
- Support for popular video conferencing applications (via Android), including: Skype for Business, Skype, Google Hangouts, GoToMeeting, Bluejeans & many more

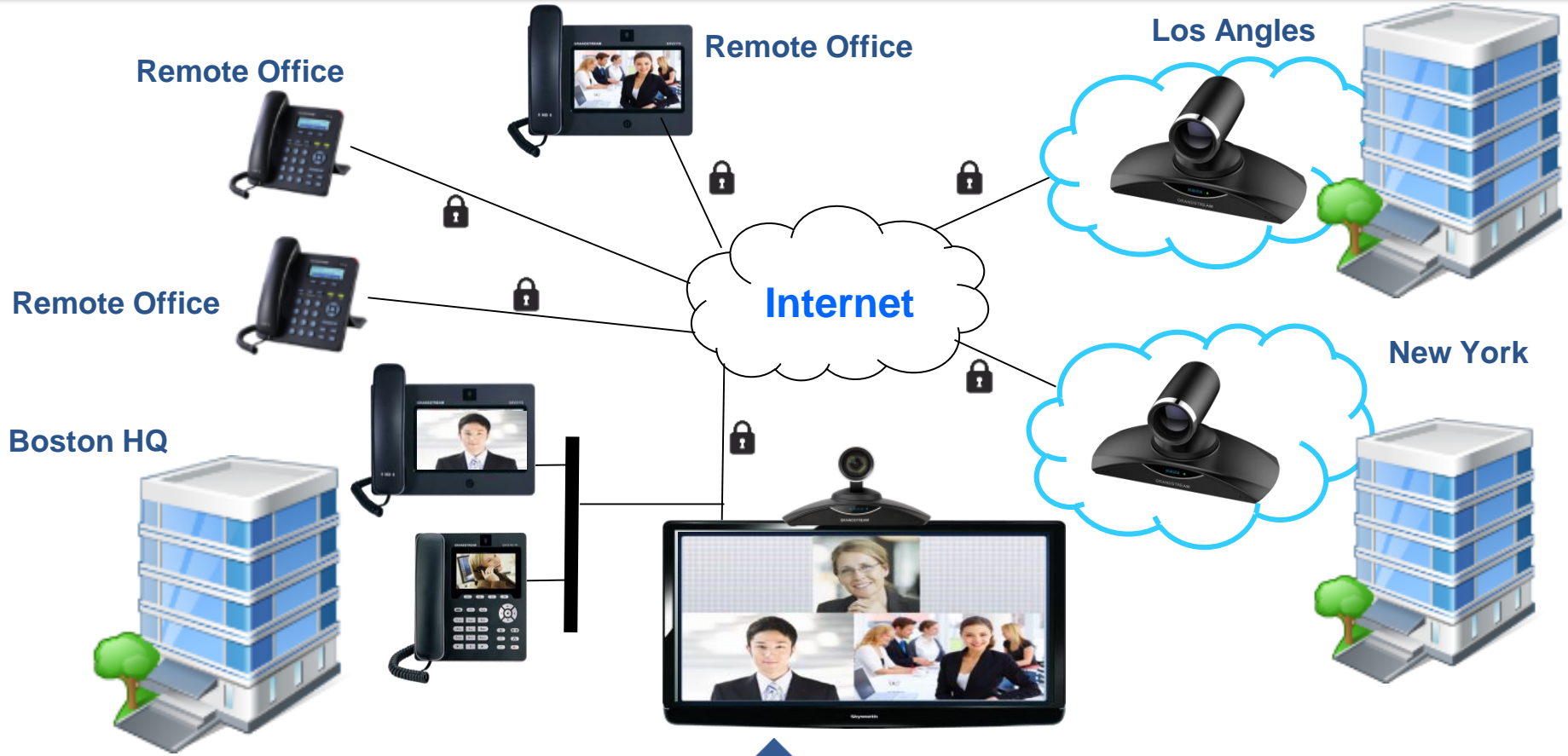


Full Access to Google Play Store



Video Conferencing with Third Party Apps





1

WHAT IS THE GVC3200 SERIES?

2

INSTALLATION

3

USING THE GVC3200 SERIES

Bluetooth Remote

Speaker & Microphone

Menu & Application Features

Bandwidth Requirements

4

IPVIDEOTALK

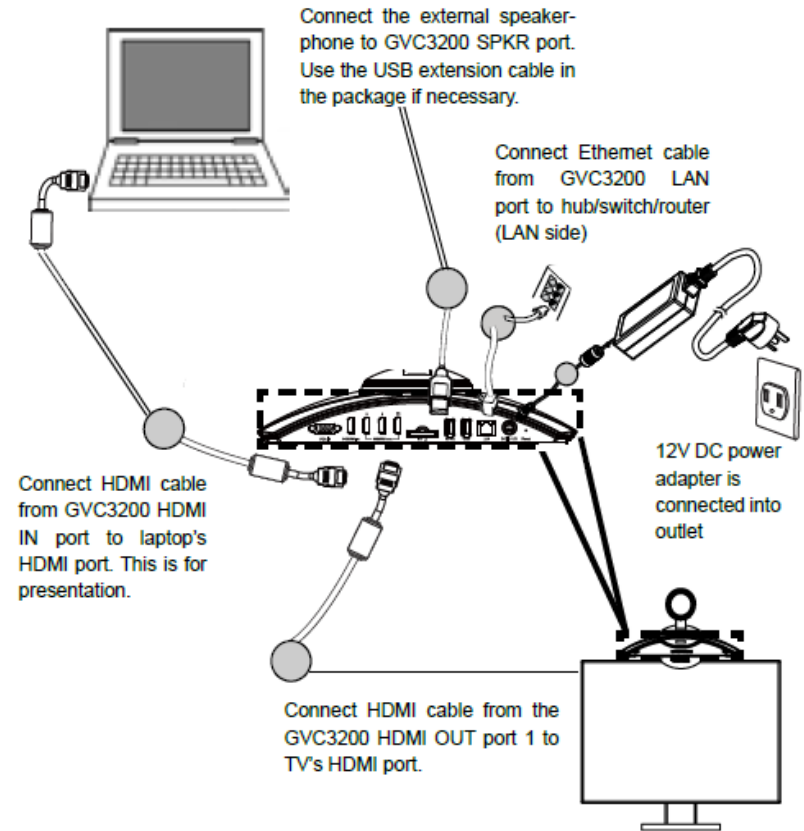


Connecting the GVC3200 series:

1. Plug in power adapter to the GVC3200.
2. Connect GVC3200 to network via Ethernet cable.
3. Connect GAC2500 conference phone via USB or Bluetooth.
4. Connect GVC3200 to TV monitors.
5. You are now ready for Video Conferencing.

- **No Complicated wiring and installations**
- **No separate MCUs/servers required**
- **Connect USB mouse or keyboard to GVC3202 USB port for easy operation in initial setup**

Connecting example:



GVC3200 Series Installation

1. The GVC3200 and the center line of TV sets and the external speaker should form a horizontal line in the room.

- Equal viewing angles
- Equal viewing ranges
- Proper sound collection conditions

2. Remote control needs to be used within 10m range of the GVC3200.

- For example: in a large demo site.



1

WHAT IS THE GVC3200 SERIES?

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INSTALLATION

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USING THE GVC3200 SERIES

Bluetooth Remote

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Bandwidth Requirements

4

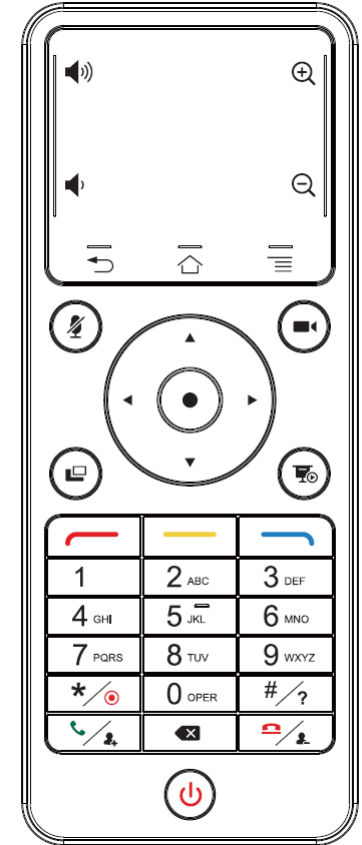
IPVIDEOTALK



Bluetooth Remote Control

- Bluetooth 4.0 compliant
- 3-point touch pad, zoom and volume control
- 5 navigation keys
- 3 Android keys
- 4 functional keys
- 3 multi-purpose keys
- 0-9, #, *
- Power button: sleep/power off/reboot

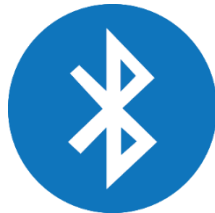
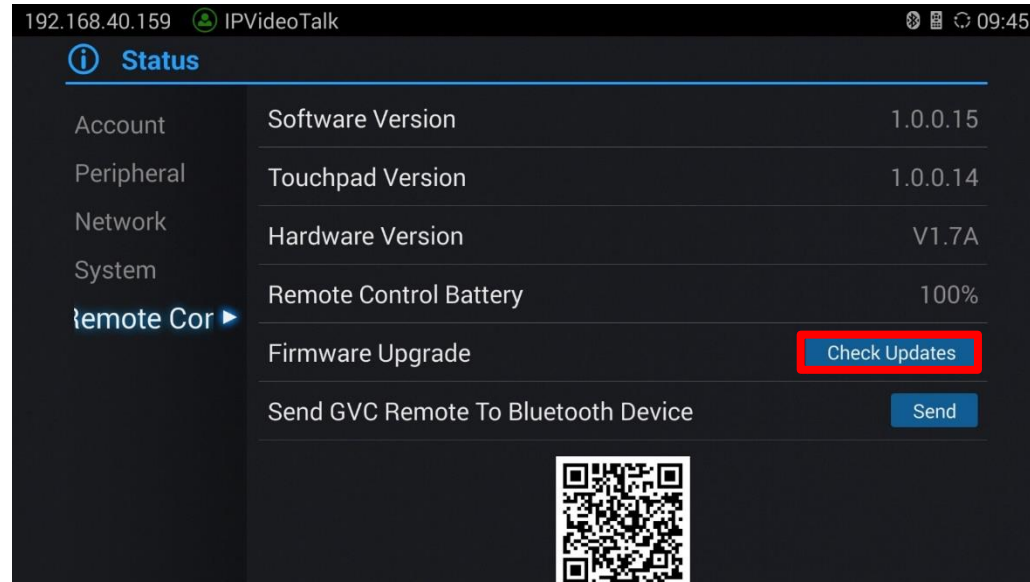
Bluetooth effective range: 10m.



Please do not take remote control out of effective range during usage.

Bluetooth Remote Control

- Supports OTA firmware upgrade
- Powered by 2 AAA batteries
- Pre-paired at factory

192.168.40.159 IPVideoTalk 09:45

Status

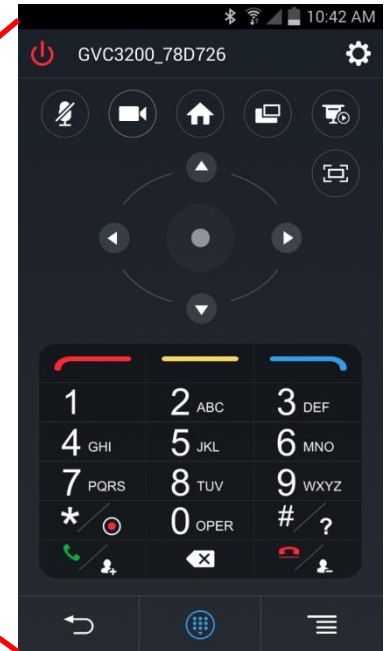
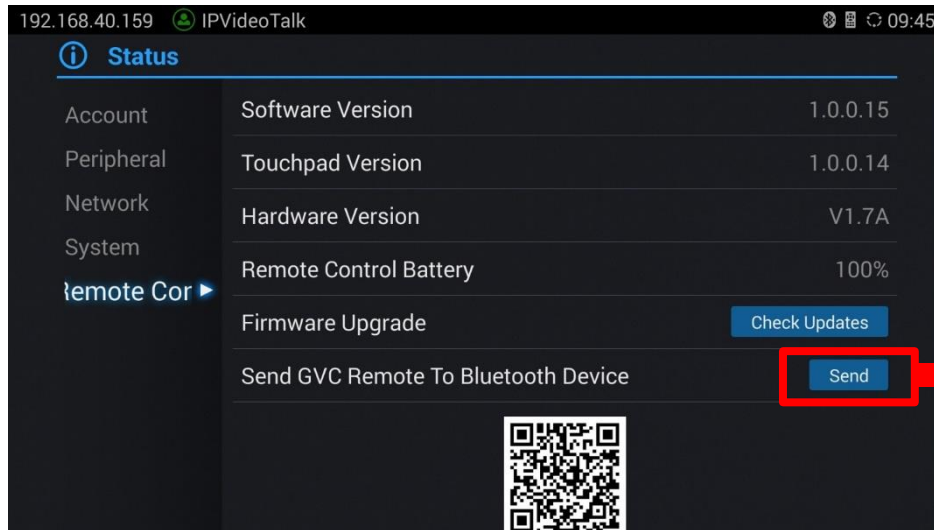
Account	Software Version	1.0.0.15
Peripheral	Touchpad Version	1.0.0.14
Network	Hardware Version	V1.7A
System	Remote Control Battery	100%
Remote Control	Firmware Upgrade	Check Updates
	Send GVC Remote To Bluetooth Device	Send

QR Code

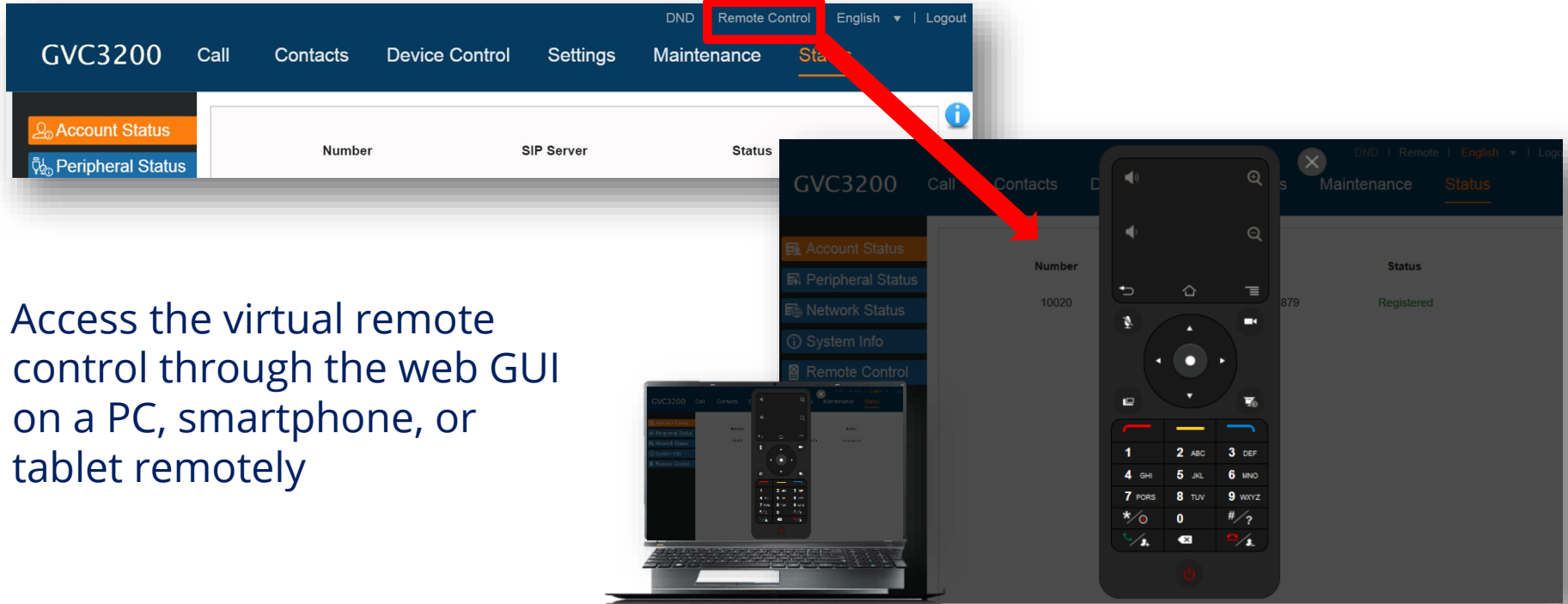


Remote Control Android App

- Use Android mobile phone and tablets as A remote control via Bluetooth
- Android app can be sent to Android device for installation



Virtual Remote Control via Web UI



Access the virtual remote control through the web GUI on a PC, smartphone, or tablet remotely



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Includes GAC2500 Enterprise Conference Phone for use as an external speaker and microphone. Connects to the GVC32020 via USB or Bluetooth.



- 4.3" capacitive touch screen LCD
- 6 lines with 6 SIP accounts and 7-way audio conferencing
- Dual Gigabit networks ports & built-in PoE
- Integrated Bluetooth, USB and Wi-Fi
- Runs Android 4.4 and offers full access to the Google Play Store



GAC2500 - Transforming the Conference Experience



Physical Mobility – with integrated Bluetooth and Wi-Fi

Functional Mobility – bridging SIP and Android application calls with apps such as Google Hangouts, Skype & more

High Capacity – embedded 7-way conference bridge

Enhanced User Experience – sleek touch screen interface, comprehensive web UI

Flexibility – redefines the choices available for business conferencing



Integrated Bluetooth



- Integrated Bluetooth 4.0
- Compatible with Bluetooth headsets for private conversations
- Pair with a Bluetooth mobile device to use the GAC2500 as a speaker
- Sync a contact book to access additional contacts from a mobile device



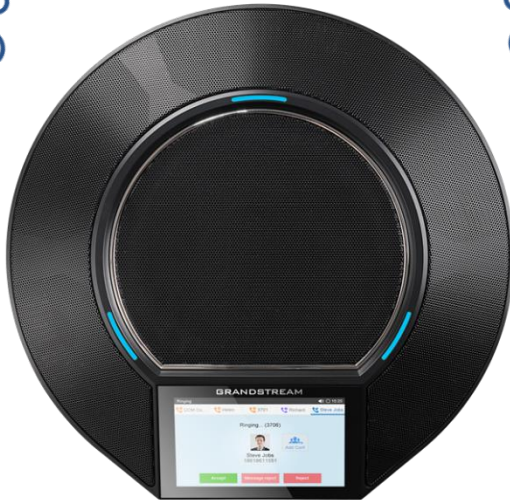
Integrated Bluetooth



- Use the GAC250 via Bluetooth to connect to the GVC3200 video conference system as an external speaker and microphone
- Pair the GAC250 with other mobile devices such as a smart phone to function as an external speaker



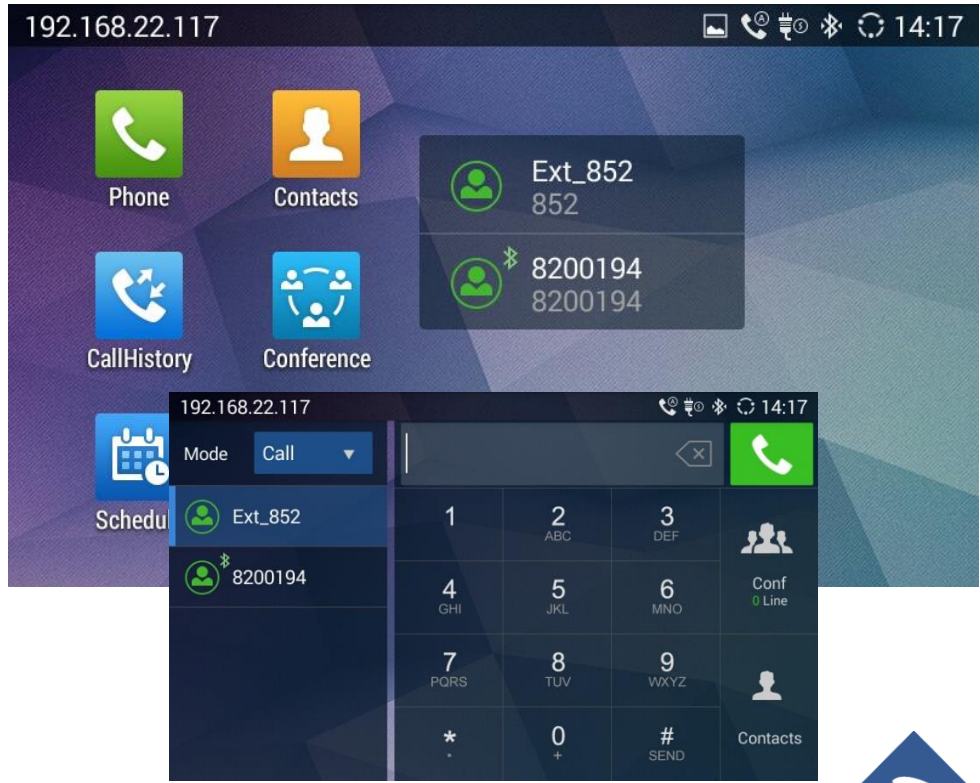
Wi - Fi Enabled



- Integrated Wi-Fi : 802.11 b/g/n
- Mobility – connect to a wireless network to access SIP accounts and Android applications to start calling right away
- No wired network connection needed to host conferences, make calls from any room with a Wi-Fi connection



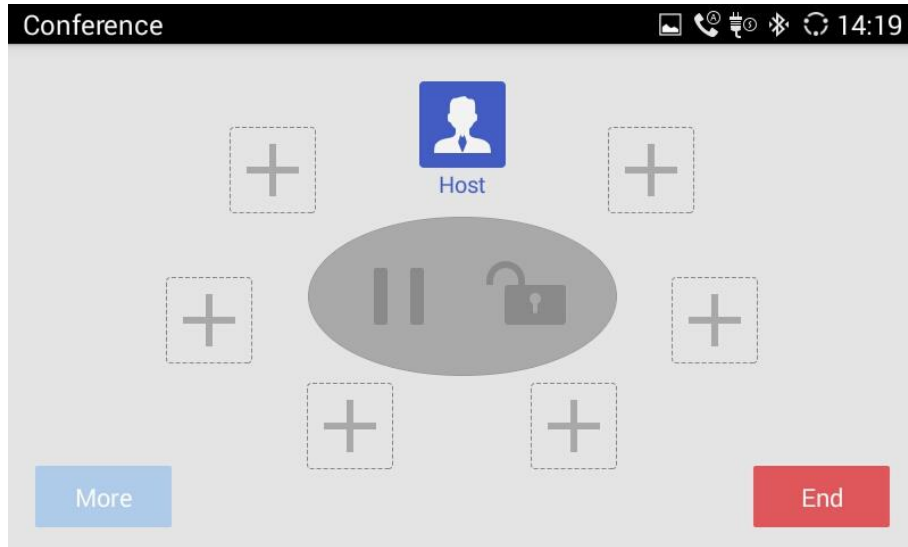
Touch Screen



4.3" touchscreen LCD offers an easy and intuitive interface for users to make calls, schedule conferences, access applications, manage settings and more.



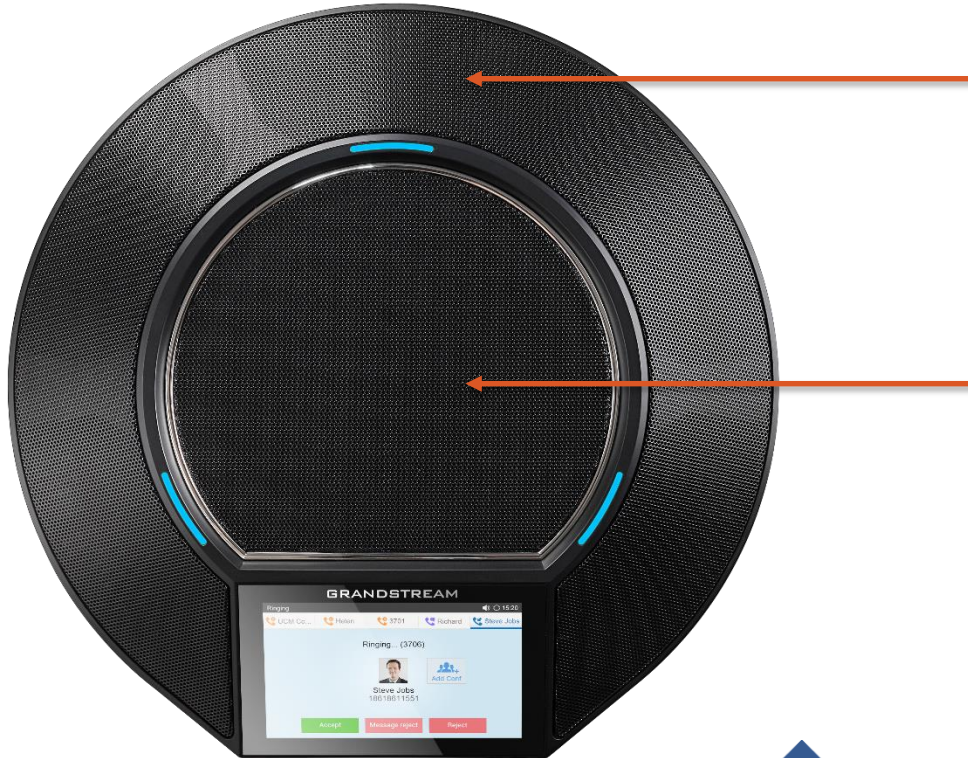
Conference Bridge



Built-in conference bridge provides quick and easy conferencing without the need for an IP PBX to bridge the calls



Speaker & Mics



3 cardioid microphones with a 12 ft. pickup distance

HD Audio speakerphone with volume up to 86 dB and a frequency of 220-14,000Hz



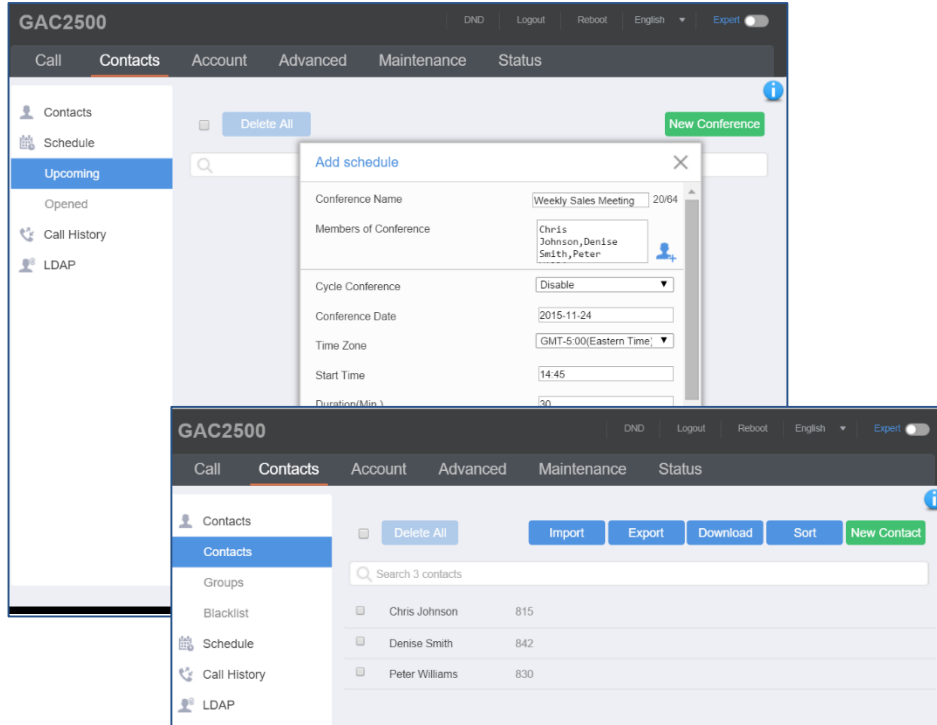
Voice Codecs



- G.711 u/a-law
- G.722 (wideband)
- G.726
- G.729 A/B
- Ilbc
- Opus
- In-band/out-of-band DTMF



Web UI



Comprehensive web GUI provides users with easy access to the GAC2500 settings and features, including contact lists, meeting schedules, screen customization, firmware upgrades and more



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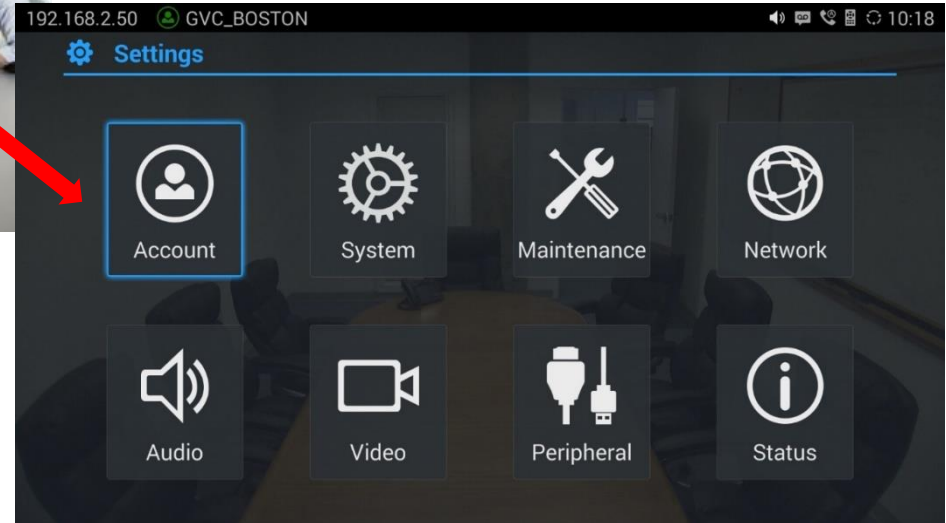
Bandwidth Requirements

4 IPVIDEOTALK





Quick & Easy Access to Device LCD Settings



- LCD Menu-> Applications

Easy Access to Applications

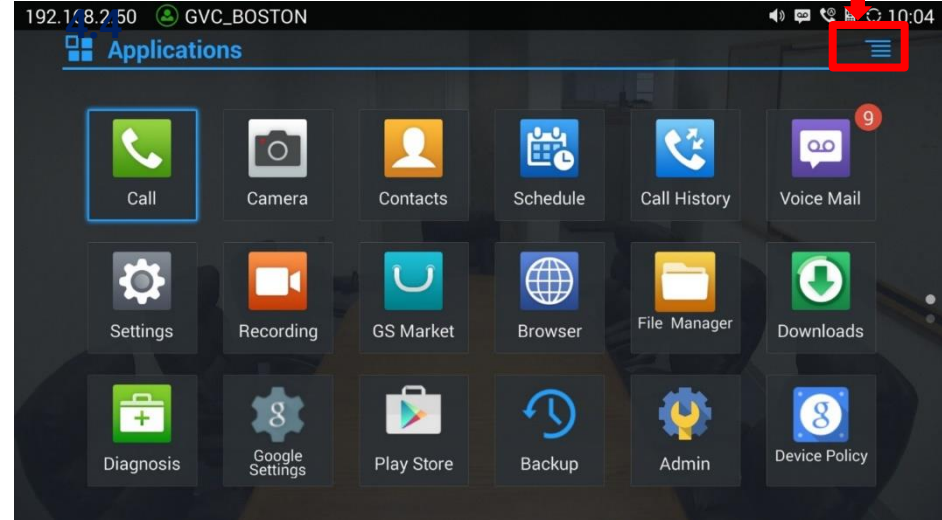
- Uninstall App
- Custom App

Native Applications:

- Schedule calls
- Access voicemail
- Audio & video recordings
- Browser
- Contacts
- GS Market
- File Manager
- Speedtest app preloaded (Ookla Partnership)

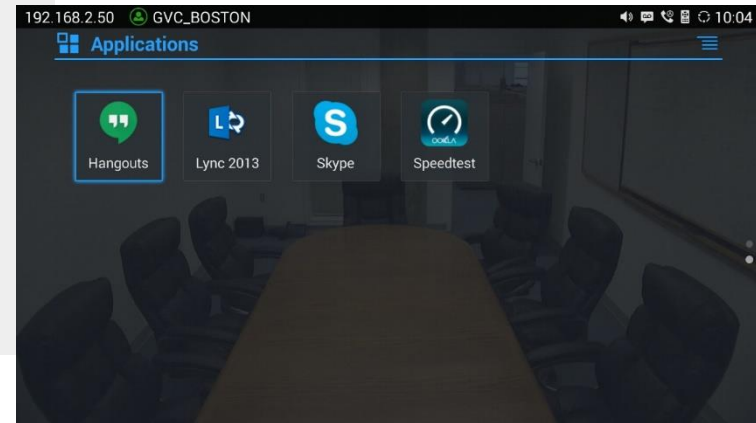
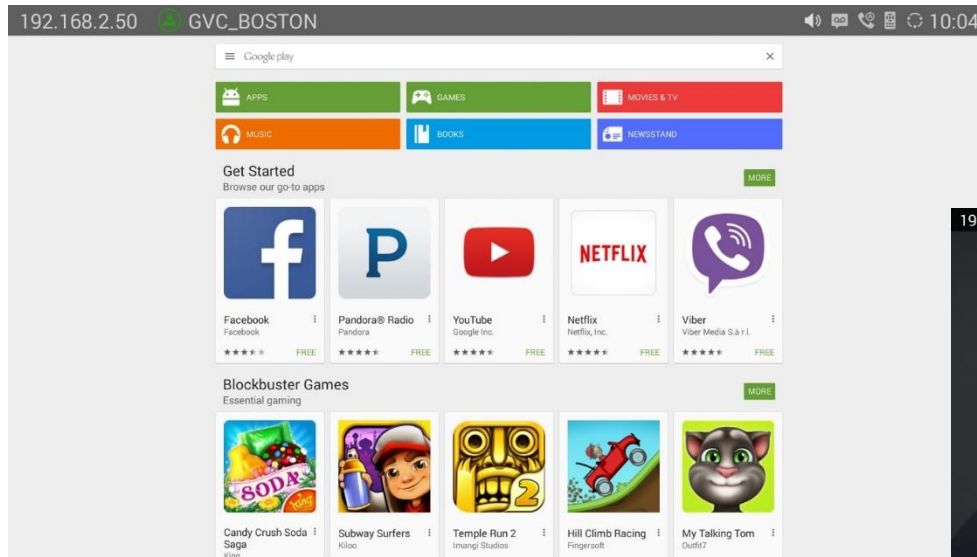


Android

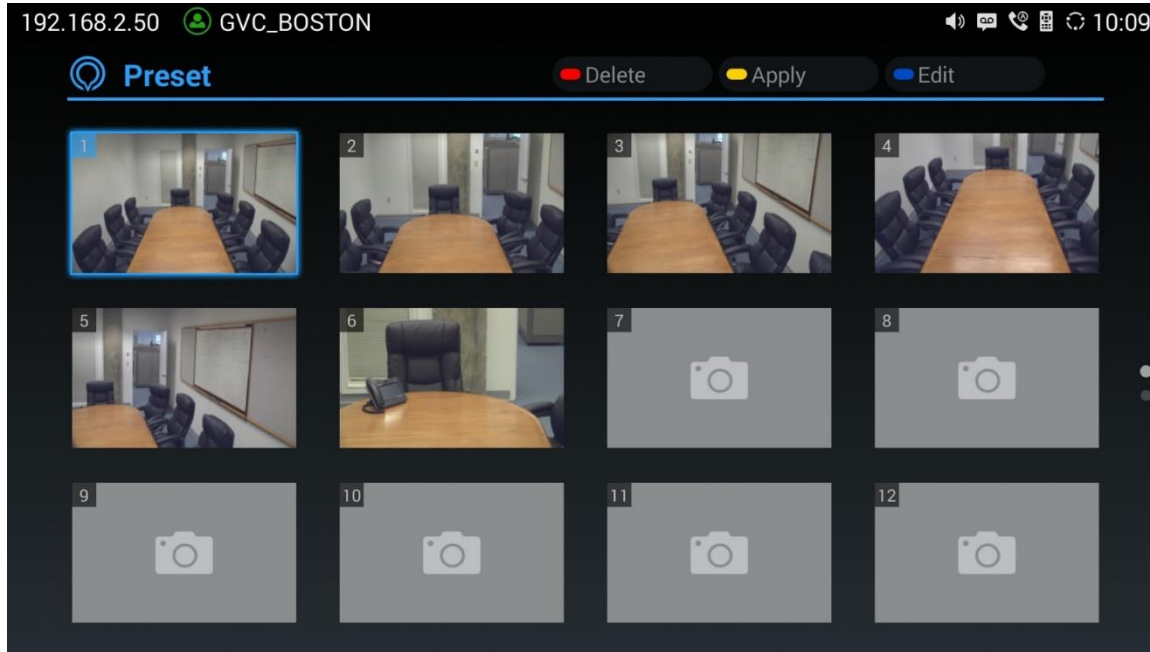


- LCD Menu-> Applications

Full Access to Google Play Store



Set Camera Presets



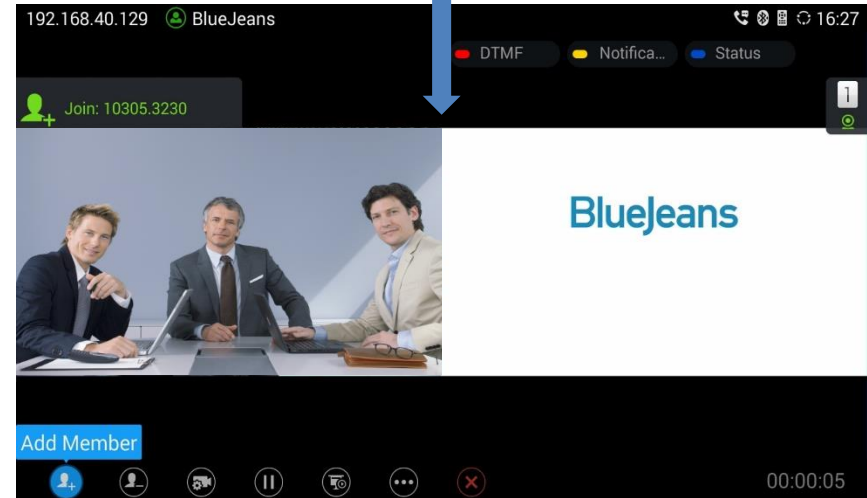
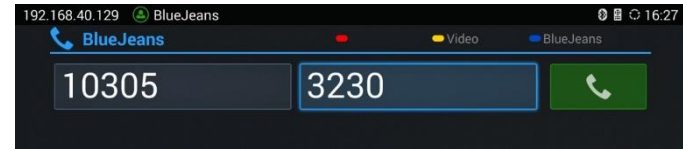
- Save custom presets to fit any conferencing situation
- Automatically adjusts the camera angle and zoom to a pre-specified location
- Shortcut keys for easy access
- Up to 24 presets



- **Making Calls via BlueJeans**

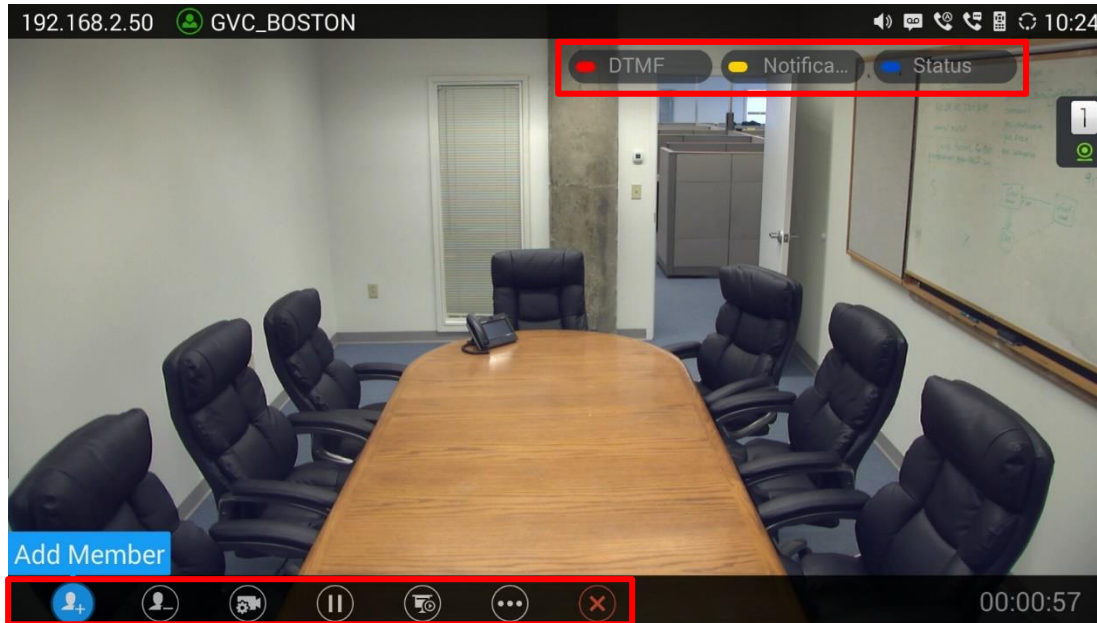
BlueJeans is integrated with call interface. No application installation is required.

- In call screen, press the blue Multi-purpose key on the remote control to switch call mode to BlueJeans.
- Enter Conference ID and Password.



▪ **Settings & Features**

In Call Features



- Add member
- Delete member
- Conference settings
- Pause conference
- Share presentation
- Bridge third party apps
- End call
- Conference status
- Notifications



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▪ Network Conditions and Requirement – GVC3200

Resolution	Video Bit Rate	Conference	Participant Minimum Bandwidth	Host Minimum Bandwidth
1080p	4096 kbps	4-way	4 Mbps	12 Mbps
1080p	2048 kbps	4-way	2 Mbps	6 Mbps
1080p	1024 kbps	4-way	1 Mbps	3 Mbps
720p	2048 kbps	5-way	2 Mbps	8 Mbps
720p	1024 kbps	5-way	1 Mbps	4 Mbps
720p	512 kbps	5-way	0.5 Mbps	2 Mbps
VGA	1024 kbps	9-way	1 Mbps	8 Mbps
VGA	512 kbps	9-way	0.5 Mbps	4 Mbps
VGA	384 kbps	9-way	0.375 Mbps	3 Mbps



▪ **Network Conditions and Requirement – GVC3202**

Resolution	Video Bit Rate	Conference	Participant Minimum Bandwidth	Host Minimum Bandwidth
1080p	4096 kbps	2-way	4 Mbps	12 Mbps
1080p	2048 kbps	2-way	2 Mbps	6 Mbps
1080p	1024 kbps	2-way	1 Mbps	3 Mbps
720p	2048 kbps	3-way	2 Mbps	4 Mbps
720p	1024 kbps	3-way	1 Mbps	2 Mbps
720p	512 kbps	3-way	0.5 Mbps	1 Mbps
VGA	1024 kbps	3-way	1 Mbps	2 Mbps
VGA	512 kbps	3-way	0.5 Mbps	1 Mbps
VGA	384 kbps	3-way	0.375 Mbps	0.75 Mbps



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IPVideoTalk

Video, Audio and Web Conferencing Service



What is it?

- Grandstream's video, audio and web conferencing service that allows users to join meetings from anywhere
- Turn a meeting hosted on any GVC into an online meeting that can be joined from other GVC32xx video conference system and WebRTC-capable browsers
- WebRTC based platform features 1-click meeting joining from Chrome and Firefox browsers
- IPVideoTalk is hosted as a service through Grandstream's GVC3200 or GVC3202 video conference system



Why IPVideoTalk?

General Advantages: Functionality



- **One click meeting joining** using a WebRTC-capable browser
- **HD 1080p Video**
- **HD Audio**
- **Screen Sharing** via any browser or via the GVC3200
- **Join with or without hardware**-attendees have options for how they join with a GVC, via web browser, or via the IPVideoTalk application (currently in Beta)
- **Invite attendees** via-email or their IPVideoTalk number



IPVideoTalk

Unified Video Conferencing & Web Collaboration Service



- **Web browser** support to join a meeting with 1-click
- **Full HD video** quality with 1080p HD video resolution
- **Screen sharing** from any browser of GVC3200 series video conference system
- **Link conference rooms** by linking GVC3200 series models together in multiple locations or via the web
- **1-click to join a meeting** when using WebRTC-capable browsers
- **2-way video** via GVC and WebRTC-capable web browsers
- **HD audio** for all attendees



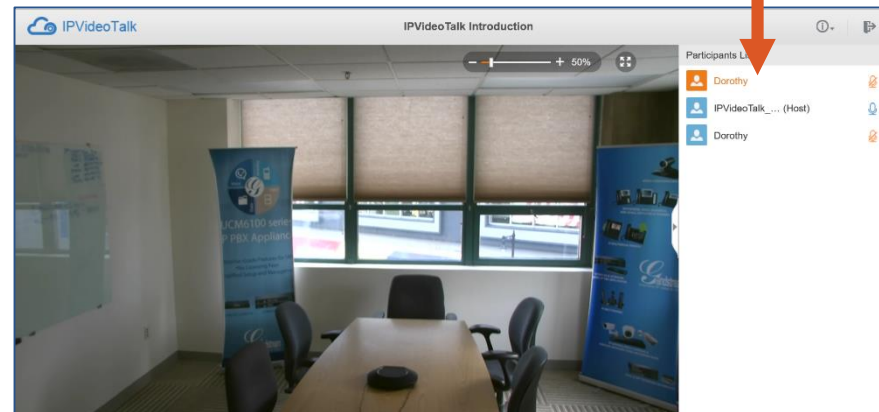
Join Meetings in 1-Click

- Join a meeting in 1-click when using a WebRTC capable browser
- Supported via Firefox and Chrome Browsers (Safari and Internet Explorer browsers require a plug-in)
- Compatible on both PC and Mac computers



Join A Meeting

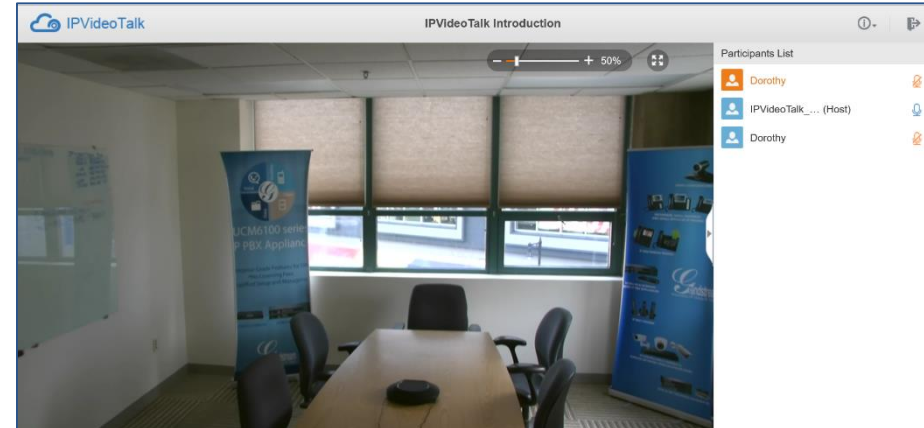
Join



Conference Room Integration



- Connect any conference room to the world
- IPVideoTalk seamlessly links together multiple GVCs in any location, while also allowing for web attendance

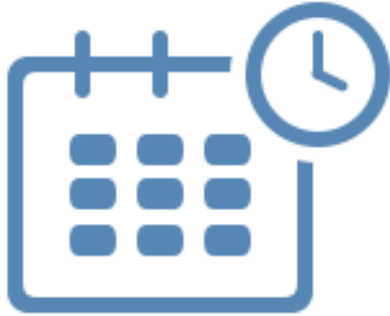


Full HD Video Quality

- Hold more efficient and productive meetings with high-quality video
- Full 1080p HD video resolution for attendees via GVC3200
- 720p HD video resolution for attendees via GVC3202



Conference Scheduling



Plan/start Meetings

View Schedules

Meeting Reminders

Accessible from Web or GVC

Meetings | Contacts | Devices | Plans | System

Schedule Meeting

* Subject: 1-80 characters

Time Zone: (GMT-05:00) Eastern Time (US and Canada)

* Start Time: 03/02/2016 02 : 25 PM

* End Time: 03/02/2016 03 : 25 PM

* Host Device: Enter Linked IPVT Account/Internal Number/Alias

Participants: Enter Participant Email/IPVT Account

Password: 0-8 digits

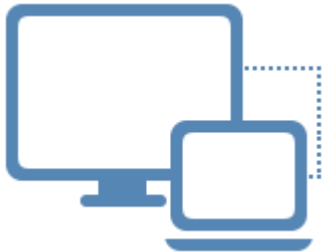
Meeting Reminder: 10 Minutes in Advance

Auto Answer: Yes

Display Attendee List/Status to All Attendees: Yes No, only display it to the meeting host.

Screen Sharing

- Present and collaborate by sharing your screen with meeting participants
- Screen sharing is available from any browser or through the IPVideoTalk app for Android and iOS



2 Way-Video on Google Chrome and Firefox

- 2-way video using WebRTC browsers (Google Chrome, Firefox, Opera)
- Join a meeting from your PC or Mac laptop or desktop computer
- Enjoy up to 720p on most PCs



Firefox[®]



chrome



Easy Accessibility

Connect from anywhere



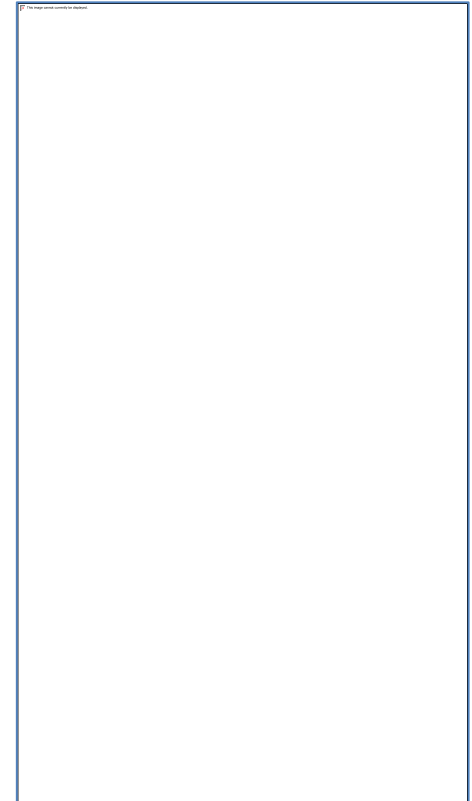
Participate in any meeting from your mobile Android or iOS device.

- HD Voice and Video
- Screen-sharing for enhanced collaboration
- Chat with other meeting participants




2-Way video support for Mobile App (iOS, Android)

- Available on Google Play and iTunes Store
- Can be used with smart phones or tablets
- Ability to choose which camera to Share (Front, Rear cameras)
- Landscape mode support, and sleek design



PSTN (Landline) Access for All Plans!

- No matter which plan you subscribe to, PSTN access is included.
- There are PSTN numbers available for over 25 major cities internationally.
- For a complete list of numbers and locations visit:
<http://www.ipvideotalk.com/pstn.html>

 IPVideoTalk

Hello,

The meeting will be started in 14 minutes.

Subject: VideoTalks: Choosing Grandstream Solutions for the Growing ITSP Market

Hosted by: (Grandstream Networks) Grandstream Marketing

Time: Jun 09, 2016 10:30AM Eastern Time (US and Canada)

Meeting ID: 36194233

PSTN Access: United States: [+1 \(617\) 315-8088](#) [View all numbers](#)

You can use [Firefox](#), [Chrome](#), [Opera](#) or Grandstream's [IPVideoTalk Mobile](#) to join the meeting.

[Click here to Join the Meeting](#)

Complete List of PSTN Numbers

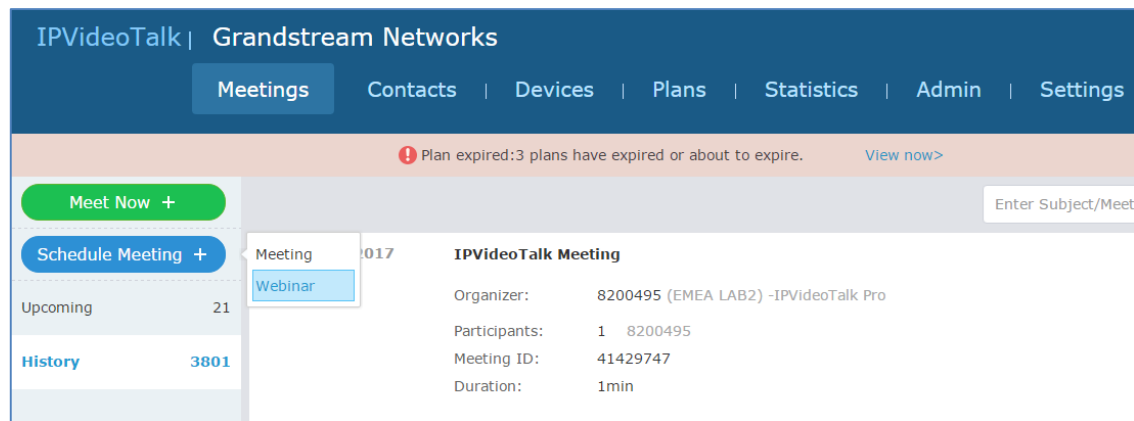
- Austria: +43 72081-7999
- Bogota: +57 1508-8888
- Boston: +1 (617) 315-8088
- Brussels: +32 (2) 588-0123
- Buenos Aires: +54 (11) 5173-7474
- Copenhagen: +45 8987-1111
- France: +33 9775-57446
- Germany: +49 32221-097013
- Helsinki: +358 9424-52555
- London: +44 (203) 868-0999
- Madrid: +34 (91) 198-5678
- Mexico City: +52 (55) 5350-5444
- Netherlands: +31 (85) 888-2831



- Norway: +47 8150-3257
- Osaka: +81 (6) 4560-2999
- Ottawa-Hull: +1 (343) 882-0333
- Roma: +39 (06) 9450-0000
- Sao Paulo: +55 (11) 4130-3939
- South Africa: +27 (87) 551-8459
- Stockholm: +46 (8) 4468-3456
- Sydney: +61 2831-07070
- Tel Aviv: +972 (3) 720-7777
- Turkey: +90 (850) 390-7041
- Warsaw: +48 (22) 307-5678
- Wellington: +64 (4) 831-8888
- Zurich: +41 (43) 508-7777

Webinar Mode

- Admins can choose between two modes for scheduling: Meeting and Webinar.
- Intuitive design, quick and easy to setup.
- Webinar mode offers both “host” and “panelist” distinctions
- Panelists have more options and control over the webinar (second to the host).

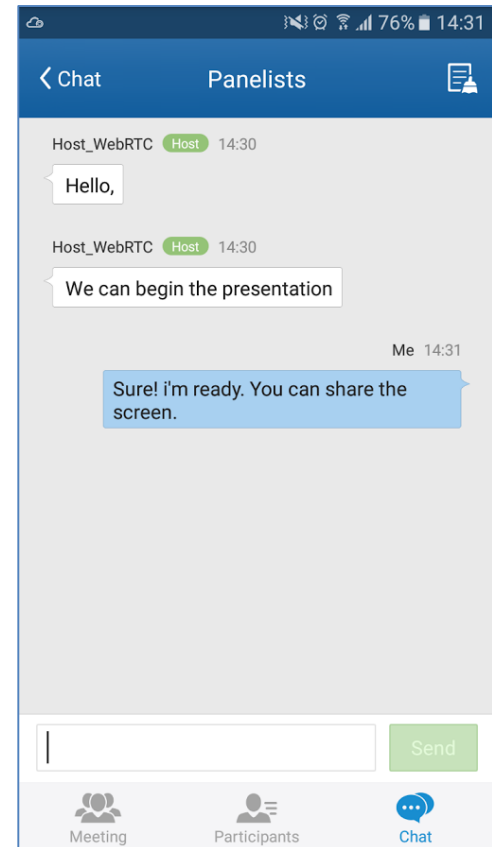


The screenshot shows the IPVideoTalk Grandstream Networks interface. The top navigation bar includes 'Meetings', 'Contacts', 'Devices', 'Plans', 'Statistics', 'Admin', and 'Settings'. A notification banner indicates 'Plan expired: 3 plans have expired or about to expire.' Below this, there are buttons for 'Meet Now +', 'Schedule Meeting +', and an input field for 'Enter Subject/Meeting ID'. A dropdown menu is open under 'Schedule Meeting +', showing 'Meeting' and 'Webinar' options. The 'Upcoming' section shows 21 items, and the 'History' section shows 3801 items. The 'IPVideoTalk Meeting' details are displayed on the right:

Organizer:	8200495 (EMEA LAB2) -IPVideoTalk Pro
Participants:	1 8200495
Meeting ID:	41429747
Duration:	1min

Webinar Mode-Panelist Role

- Private chat room for Panelists (not visible to standard participants).
- Ability to coordinate between different panelists and hosts.
- Hosts can assign Panelist role to any standard participant during the meeting to gain more options.
- Panelists can control their own audio, video and screen sharing (standard attendees cannot)



Multiple Host and Panelist Support

- Ability to have multiple hosts in the same meeting.
- Giving more control and monitoring over the meeting
- More coordination and collaboration between hosts
- Hosts have the highest privilege and control over the meeting (End Meeting, Request Camera Sharing, Muting/Unmuting for a participant, Remove a Participant, Disable/Enable Chat...and more)

The meeting will be started in 6 minutes. please press the "Join" button to initiate meeting.

Subject:	Webinar_test
Time:	Jan 31, 2017 10:05AM Casablanca, Monrovia
Organizer:	[Grandstream Networks] 8200061
Meeting ID:	40489575
Host Code:	9031
PSTN Access:	United States: +1 (617) 315-8088 View all numbers

You can use [Firefox](#), [Chrome](#), [Opera](#), [IE11/Safari](#) (WebRTC plug-ins in Beta) or Grandstream's [IPVideoTalk Mobile](#) to join the meeting.

[Click here to Join the Meeting](#)



Personal Web Meetings Plan - Included

All IPVideoTalk room system subscriptions will have a new web-only meeting option (no GVC320x hardware required).

The plan includes:

- 3 video feeds
- 3 participants (standard meeting)
- 50 participants for webinar meeting
- 720p HD video resolution
- 2-way video
- Screen sharing
- Maximum meeting time – 60 minutes



How to Sign Up

All new customers get a free trial period!

- Every GVC3200 and GVC3202 comes with a 1-year free trial of the Small Business Plan.
- Customers can upgrade their plan at anytime if they need a higher participant level plan
- The Small Business Plan includes the following:
 - 8 participants
 - Screen sharing
 - Up to 1080p resolution
 - Web browser, mobile app & PSTN line access
 - And More!

IPVideoTalk Cloud Services

Business Name * ✔

Email * ✔

Country * ▼

Contact Name * ✔

Phone * ✔

Link Device

Verification Code * A9QC

Sign Up

Esteemed Customers

 Real Estate & Enterprise	 Education & Healthcare	 BFSI	 E-Commerce
       	      	      	           

Cohesive Technologies Pvt. Ltd

Corporate Office: CS-4, 5 & 6, 4th Floor, Ansal Plaza, Sector 3, Vaishali, Ghaziabad (U.P) - 201010

Email: info@cohtechnologies.com **Web:** www.cohesiveglobal.com

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Registered Office

454, F.I.E, 2nd Floor, Patparganj Industrial Area,
New Delhi - 110092, India.

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Bangalore: +91 9810036790, **Pune:** +91 7718880816, **Mumbai:** +91 7718880814, **Indore:** +91 9650871100,
Kolkata: +91 9831742584, **Hyderabad:** +91 9810036790, **Punjab:** +91 9814081331, **Delhi:** +91 9810881220

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bangalore@cohetechnologies.com, hyd@cohetechnologies.com, kolkata@cohetechnologies.com, punjab@cohetechnologies.com



THANK YOU!