



# AGENDA





#### Founded in 2002

Over 500 employees

Product Portfolio contains over 40 products: Video Conferencing System, 20 different IP Phones, 5 ATAs, 10 IP Surveillance cameras, 5 Video Encoder/Decoders & 2 IP PBXs

Primarily serving small-to-medium size businesses (SMBs) and consumer markets



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#### **VoIP Product Lines**

IP Multimedia Phones

Enterprise IP Phones

Small Business / Home Office IP Phones

Analog Gateways & ATAs

IP PBX Appliances

Video Conference System

#### **Surveillance Product Lines**

Box IP Cameras

Cube & Mini Dome IP Cameras

IP Video Encoders

Outdoor IP Cameras

Video Management Software

Network Video Recorder





# UCM6100 & UCM6510 series IP PBX Appliances



Voice
Secure, clear, and reliable
Conferencing
Comprehensive Codec Support
Endless Customizable Voice features

Data
Phonebook files
CDR
Codec Transcoding
System Backup
Call Recording
Voicemail/fax to email



Mobility
Softphone apps
Monitor your business
Connect Multiple Offices

	Video						
	Face to face video calls						
Video Surveillance Integration							
	SIP Video						
	Video Codec Support						



# Delivering high quality, secure and reliable voice, video, data & mobility for <u>SMBs</u>



- Enterprise-grade features in an affordable, compact & easy-to-manage PBX designed specifically for the SMB market
- No licensing fees
- Fast and easy setup & management
- ALL hardware/software included as well as lifetime firmware updates









# UCM6100 series IP PBX Appliance

- <sup>"</sup> 2/4/8/16 FXO trunk port models, 2 FXS ports
- <sup>"</sup> Up to 60 concurrent calls and up to 32 conference attendees
- " Up to 500 SIP endpoints and up to 50 SIP trunk accounts
- <sup>"</sup> Dual Gigabit network ports, integrated PoE, USB and SD ports
- Zero Configuration endpoint provisioning and no licensing fees



#### **General Specifications**

- Up to 500 extensions
- # of FXO ports & concurrent calls:
- 2 30 (UCM6102)
- 4 45 (UCM6104)
- **8 60** (UCM6108)
- **16 60** (UCM6116)
- Gigabit ports with PoE Plus
- Each bridge supports up to
  25 (UCM6102 & UCM6104) or
  32 (UCM6108 & UCM6116) conference attendees
- Zero-configuration provisioning
- Simple setup/management with Web UI















- " E1/T1/J1 Interface
- 2 PSTN trunk FXO ports, 2 FXS ports with lifeline capability
- " Up to 2000 SIP endpoints and up to 50 SIP trunk accounts
- Dual Gigabit network ports, integrated PoE, USB and SD ports
- Zero Config endpoint provisioning and no licensing fees



# UCM6100 Series - Voice

Delivering high quality, secure and reliable voice communications

Basic/Call Routes	General Preferences	
Call Features		
nternal Options	Global OutBound CID:	
- General	(j) Global OutBound CID Name:	
- Feature Codes	() Operator Extension:	None
- Music On Hold	() Ring Timeout:	60
	Extension Preferences	
- IVR Prompt	(i) Enable Rand Password:	<b>v</b>
- Fax/T.38	w later	-
- RTP Settings	Disable Extension Ranges:	
- Language	User Extension:	6000 - 6299
- Hardware Config	Conference Extensions:	6300 - 6399
- STUN Monitor	IVR Extensions:	7000 - 7100
AX Settings	Ring Group Extensions:	6400 - 6499
SIP Settings	Queue Extensions:	6500 - 6599
	VoiceMail Group Extension:	6600 - 6699

# Customizable

- Call Routing
- Auto-Attendant
- IVR
- Call Forwarding
- Call Retrieval
- Music on Hold
- Transfer
- Ring Group/Hunt

Group

	Auto Attendant (IVR)	Call Forward	Black/White List	Attended/Blind Transfer
	Call Record (CDR)	Call Queue	Callback	Music On Hold
Basic Features	Caller ID	Call Park	Intercom/Paging	Voicemail
	Conference Bridge	Call Pickup	Ring Group	Call Forwarding
	Do Not Disturb (DND)	Call Waiting	Multi-language	ACD
	Record Server	LDAP Server	Busy Lamp Field (BLF)	802.1X Access
Advance	Zero Config	Video Codec Negotiation	DID	Mobile Extension
Features	Firewall/Router	Fax Server	Fax-to-Email	TLS
	Media Security (SRTP)	FXO Automatic Detection	3-way Video Conference	Billing Interface (3 <sup>rd</sup> party)



#### GS Conferencing

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#### **Conference Server**

- <sup>"</sup> Built-in conference bridge feature on UCM6100 series and UCM6510
- " Support invitation via conference administrator or web GUI
- " Support PIN code to access conference bridge
- Conference IVR menu options include inviting other parties, mute, lock conference room, kick off participants and etc.

	UCM6102/6 104	UCM6108/6 116	UCM6510
Max. Number of Conference Bridge	3	6	8
Max. Number of Participants	25	32	64



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# UCM6100 Series - Voice

Delivering high quality, secure and reliable voice communications





# Supports all major voice codecs

- G.711
- G.722 (HD audio)
- G.723.1
- G.726
- G.729
- iLBC
- ♦ GSM
- PCMU
- PCMA
- ♦ GSM
- ♦ ADPCM
- LPC10

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#### GS Audio Recording



#### **Recording Server**

- Support 500,000 minutes call recording in built-in memory
- Recording length can be extended via USB flash drive
- Recording file can be played and downloaded from UCM6100 series or UCM6510 web GUI
- Automatic recording (coming soon)

Findstream	Sta	atus PBX Sett	tings Maintenance				Linglion
	Status >> C	DR >> CDR					
PBX Status	View Rep	port					
System Status	Click on the tit	le of the column to sort by column. C	lick on the row to display full record.				View: 10
CDR	No.	Play file			X Talk Time	Status	Options
	71	201:			0:00:00	0	🕑 ± 🛍
	72	201:			0:00:00	0	⊙ ± 前
	73	201:	0:01 📢		0:00:24	0	
	74	201:			0:00:06	٢	<b>⊙</b> ± <b>≡</b>
	75	201:			0:00:14	0	
	76	201			0:00:02	0	
	77	2013-07-02 20:00.08	0000	40	0:00:04	0	
	78	2013-06-28 17:27:18	"Meeting invitation" <6300>	5000	0:00:03 0:00:00	0	🕑 🛨 🟛



#### GS- Security

#### **Security**

- <sup>"</sup> Embedded system design with system stability and antivirus capabilities
- Network layer security: LLDP, 802.1x
- " TLS and SRTP support
- " Embedded firewall with static defense and dynamic defense
- " Blacklist/Whitelist support
- " AES-128 Encryption Algorithm

Network Layer	Support LLDP on data link layer authentication; Support 802.1X authentication for network access; Support firewall/ACL access control.
System Configuratio n	Inbound route/outbound route with privilege assigned; Log printout; Automatic system backup.
Application	Support HTTPS for secure remote access; Support AES-128 encrypted data transmission; Random generated password for SIP extensions; Support authentication in SIP registration and calls; Support HTTP Digest (MD5), SIP Digest Algorithm; Support TLS Signaling encryption (UCM6510 to end-point); Support SRTP real-time media encryption (UCM6510 to end-point).



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WORLD

CONNECTING THE

#### Grandstream IP PBX - Auto-Provisioning End-point Auto Provisioning

- Support auto-provisioning for Grandstream devices
- Support real-time configuration by refreshing the extension in UCM6100 series or UCM6510 web page
- Support Plug-and-Play (PnP) and batch configuration

		St	atus <u>PBX</u>	Settings	Mainte	enance				Ē	nglish 🔻	Log
	PBX	>> Bas	sic/Call Routes >>	Zero Config 🖸								
Basic/Call Routes	Mar	age 7	ero Config									
- Analog Trunks	A	ito Pro	vision Settings	Auto Discover	Create New I	Device De	ete Selected Dev	ices				
	_	Filter:	All									
- Outbound Routes		No.	MAC Address	IP Address	Extension	Version	Vendor	Model	Connection Status	Create Config	Opti	ons
- Inbound Routes		1.	000B824584D3	-	615		-	-	Connected	Yes	1	Ô
- Zero Config		2.	000B823AB2F3	-	607	12	122		Connected	Yes	1	Ŵ
Call Features		3.	000B822A8B53	-	621	-	-	-	Connected	Yes	1	Ŵ
nternal Options		4.	000B82273B20		628	077		(77)	Connected	Yes	1	Î
AX Settings		5.	000B823E5D89	-	613		-	-	Connected	Yes	1	莭
-		6.	000B822B37EB	<b>_</b>	618	8 <mark></mark>	-	-	Connected	Yes	1	Ŵ
SIP Settings		7.	000B82273BC4	-	614	-	-	-	Connected	Yes	1	Ŵ





# UCM6100 Series - Video

Delivering high quality, secure and reliable video

communications



UCM6100 series - Video

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## Delivering high quality, secure and reliable video communications



## **Video Calling**

- Any SIP video endpoint
- See customers and employees through real-time, face-to-face video communication
- When used with Grandstream video phones, create your own multi-user video conference





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UCM6100 series - Video

# GRANDSTREAM

## Delivering high quality, secure and reliable video communications



# Video Surveillance Integration

- Receive alerts from anywhere
- Create a comprehensive solution to monitor and receive alerts from IP cameras
- Register IP cameras to the PBX
- Make video calls to IP cameras to view live feeds
- Speak through cameras with 2-way audio & video (door entry)
- IP cameras can be set to automatically call video phone when alert is triggered



# UCM6100 Series - Data

Delivering high quality, secure and reliable data communications





#### **IP PBX Features**

All-In-One Design	" FXS/FXO gateway, low cost and high stability
LCD Menu	" Easy installation and web access via IP address
Easy Configuration	" End-point deployment via Zero-Config and PnP
LDAP Server	" For daily office communication purposes
Recording/Fax	% 50,000 minutes of recording, 20,000 digital fax files
High Reliability	<ul><li><i>"</i> ITU-T K.21 standard</li><li><i>"</i> Telecom industry level IP PBX testing procedure</li></ul>



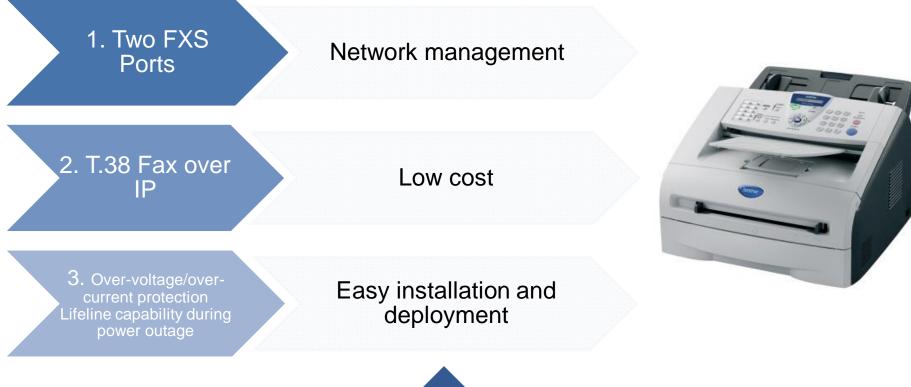
#### EmbLDAP Sever edded LDAP Server

- Support 1000 phonebooks
- Default LDAP Phonebook generated for UCM series extensions
- Search contact number via department or name
- Grandstream phones can be auto-provisioned to use the UCM6100 series or UCM6510 LDAP server default phonebook

Encovative IP Voice & Video	Status PB	X <u>Settings</u> Maintenance						
	Settings >> LDAP Server >>	LDAP Server 😯						
Network Settings	LDAP Server configurati	ons						
Change Password								
LDAP Server	Base DN:	dc=pbx,dc=com						
- LDAP Server	Pbx dn:	ou=pbx,dc=pbx,dc=com cn=admin,dc=pbx,dc=com						
HTTP Server	Root DN:							
Email Settings	Root Password:							
Time Settings	Root Password Confirm:	•••••						
	Allow anonymous:							
	. <u></u>	Cancel						
	LDAP Phonebook							
	Add							
		Copyright © Grandstream Networks Inc. 2013 All Rig						



#### **Grandstream IP PBX - FXS ports for Analog Phone & Fax**





#### Gendstream Status Settings English 💌 **Fax Server** <sup>"</sup> 2 FXS ports 66.228.93.3.104 66 228 93 3 50 66.228.93.75.506 " T.38 support Total: 10 Show: 1/1 Jump to: Go " Fax can be converted to PDF file, and sent out via Fax Email 0 20,000 digital Fax files VOICE " Performance test done by Email Spirent testing equipment to guarantee stability Voicemail WWW.GRANDSTREAM.COM



### Delivering high quality, secure and reliable **mobility**





## Delivering high quality, secure and reliable mobility

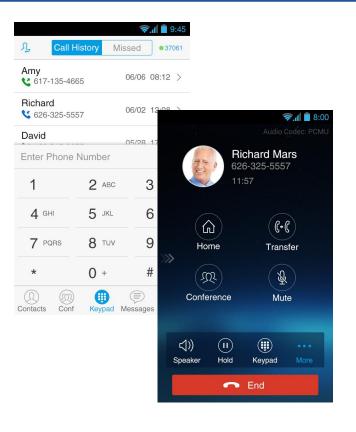




# Monitor your business from anywhere

- View live feeds & receive alerts from IP cameras on any device with an internet connection
- Speak through IP cameras





# **Grandstream Wave**

#### Softphone Application For Android<sup>™</sup>

- " Requires Android 4.0+
- Supports 6 SIP accounts, 6-way audio conferencing
- Features include call transfer, LDAP phonebook, virtual BLF keys and more
- <sup>"</sup> Native integration with mobile devices including contacts, call history, and ringtones



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## Delivering high quality, secure and reliable mobility





# Make and receive calls on a smartphone & laptop

- Compatible with SIP smartphone & computer applications, including Grandstream Wave, Bria, and Zoiper
- Utilize the extension for the user, rather than their desk at the office
- Supports both video and audio calls



#### **GS- Mobile Extensions**

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#### BYOD/Mobile Office SIP End-point Compatibility

- <sup>"</sup> 3rd party softphone can register to UCM6100 series and UCM6510
- From softphone installed on your mobile devices, you can check Fax and voicemail remotely
- Support DECT cordless IP phone to register to the system



# SIP Softphone Grandstream Wave, 3CX, EyeBeam, Bria, Zoiper, or other 3<sup>rd</sup> party softphone (many are free) supported on Android<sup>™</sup>, IOS or other mobile platform



# GVC3200 Video Conferencing System



# **This Changes Everything**



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# **GVC3200 Video Conferencing System**



The GVC3200 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 2step installation without any extra/proprietary equipment
- Easy to Use . Plug and play connection laptops for screensharing
- **Easy Interoperability** . GVC3200 can communicate with thirdparty 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 3 monitor outputs and a PTZ camera with 12x zoom
- Introduce video conferencing to your business or expand your current SIP platform with the GVC3200





# Powered by Android<sup>™</sup>

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







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# **GVC3200 Video Conferencing System**

Video Conferencing Has Never Been This **Easy** 



Video	1080p resolution – 4 way video 720p resolution– 5 way video VGA resolution – 9 way video
Camera	PTZ camera (controlled by remote control) Full 1080p HD (1920x1080) @ 30fps
Lens	12x optical zoom
Network	1 Gigabit port, integrated WiFi
Bluetooth	Yes, integrated
Video Inputs	1 HDMI and 1 VGA
Video Outputs	3 HDMI
Mic/Speaker	Includes external Mic/speaker Microphone built-in to camera unit
Remote Control	Bluetooth remote control with multi-touchpad
Video Codecs	H.264
Application Bridging	Bridges SIP calls with any Android apps (Skype, Hangouts, etc.)

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# **Easy Video Conferencing**

The GVC3200 is the ideal Video Conferencing Solution for Small Businesses



# Video Conferencing has never been this *Easy*



#### **Easy to Install**

-Just connect the GVC 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 3<sup>rd</sup> party system





### **Easy to Get Started and Easy to Use**

Cloud Video Conferencing with No Initial Contracts



# The power of our *IPVideoTalk Pro*

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

New York City

Los Angeles

London

Sydney







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



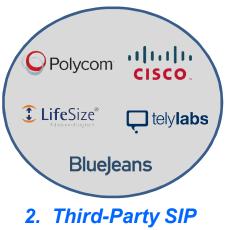
### **Easy** Interoperability

Use the GVC3200 in a Variety of Ways



#### 1. IPVideoTalk Pro

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



#### Systems

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



#### 3. Android apps

- The GVC3200 is the only video conferencing system currently on the market that runs the Android operating system. This allows it to make video conferences using any Android app, including Skype, Google Hangouts and more

### Extension 102

#### 4. Video Conference Bridge

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

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**Easy Interoperability** Use the GVC3200 in a Variety of Ways

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



- <sup>"</sup> Direct IP calls between multiple GVC3200s
- Video calls between GVC3200 and SIP video phones such as the GXV3240 and 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
- <sup>"</sup> Bridge video calls from multiple VCS platforms and Android applications, all in once conference\*

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## **Easy** and Powerful Video Conferencing

### **Content Sharing**

Share any computer or tablet screen with other attendees:

- <sup>7</sup> Show presentations
- " Review and markup documents
- " View web content
- " 1 HDMI and 1 VGA input







### **Easy Screen Sharing for Enhanced Collaboration**

The GVC3200 features a VGA/HDMI input to connect a presentation and screen share with conference attendees directly through the video stream.







### **Bluetooth Remote**

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

- <sup>®</sup> Bluetooth 4.0 compliant
- <sup>7</sup> 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





### **IPVideoTalk** Transform Your Video Conferencing Experience



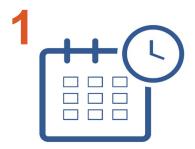
- Cloud based video conference system to be used with Grandstream GVC3200, GXV32xx series of video phones, Grandstream Wave, WebRTC-capable browers, and any phone
- Hold meetings and conferences with up to 100 attendees, 8 presenters, HD audio and video, and screen sharing
- Includes meeting scheduler, recordings, conference room integration and more







#### **Unified Video Conferencing & Web Collaboration Service**



#### **Plan or Start a Meeting**

Schedule a future meeting, set a recurring meeting, or meet right away directly from the IPVideoTalk online interface



#### **Invite Participants**

Participants can join from Grandstream & GVC3200, GXV32xx series of video phones, WebRTCcapable browsers, or any phone





#### Meet & Collaborate

Host meetings with up to 100 attendees and 8 presenters with features such as HD audio & video, and screen sharing

# **IPVideoTalk Features**



Supports All Devices



Full HD Video Quality

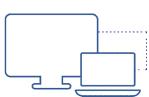




Join a Meeting in 1-Click



Built-in Scheduler



Screen Sharing

Full HD Audio Quality



Conference Room Integration with GVC3200

• REC	
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Recording





### **Conference Room Integration**



Use Grandstream GVC3200 series Video Conference Solution to integrate IPVideoTalk with your conference room

- Host video conferences through the cloud with IPVideoTalk
- Allow remote employees to join the conference from their PC, MAC or mobile device



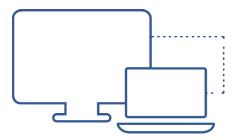




### **Screen Sharing**



Share content and presentations with attendees through the screen sharing feature





### **Schedule a Meeting**

IPVideoTalk   Grandstream Networks, Inc.				
		Meetings Contacts   Devices   Plans   S	ystem	
Schedule Meeting +	Schedule Meeting			
Upcoming History 10	1 * Subject: 33 Time Zone: • Start Time: • End Time: • Host Device: Participants:	(GMT-05:00) Eastern Time (US and Canada)      12/07/2015    •    04 • + : 00 • •    PM • •      12/07/2015    •    05 • : 00 • •    PM • •      12/07/2015    •    05 • : 00 • •    PM •      Enter Linked IPVT Account/Internal Number/Alias      Enter Participant Email/IPVT Account	1-80 characters ▼	

Use the built-In scheduler to schedule meetings ahead of time, invite participants, and set reminders.





# Join a Meeting in 1-Click



Joining a meeting is as easy as one click.

 Join from an email invitation with one click, or enter the meeting ID, your name and email, and join immediately







# Thank you!

CORPORATE HEADQUARTER

26 Brookline Ave, 3rd Floor Boston, MA 02215

Voice: +1 617-566-9300 Fax: +1 617-249-<u>1987</u>

